

Universal Connector for SAP 7.7.x Reference Guide

Universal Agent 7.7.x

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1 Overview

Universal Connector for SAP is a command line application that controls background processing within an SAP system. This allows any computer on the network to manage SAP background processing tasks via the local command line.

You indicate to Universal Connector for SAP which SAP system to connect to and what background processing tasks to perform. Universal Connector for SAP connects to the SAP system and processes your request.

Universal Connector for SAP is part of Universal Agent, which provides command line interfaces to all of the major operating systems in your data center. That is, the remote operating system's command line interface is extended to the local operating system's command line interface. The remote and local systems can be running two different operating systems.

All of the Universal Agent components can interact with Universal Connector for SAP.

1.1 Universal Connector for SAP Functionality

Universal Connector for SAP provides the functionality to integrate SAP systems into both local administrative tools and enterprise system management infrastructures.

Specifically, Universal Connector for SAP allows you to:

- Define SAP jobs using a job definition file or by copying existing jobs.
- Modify SAP jobs using a job definition file.
- Start SAP jobs.
- Check the status of SAP jobs.
- Retrieve the joblog of SAP jobs.
- Retrieve the spoolists of SAP jobs.
- Delete SAP jobs and their associated output.
- Query jobs in the SAP system.
- Define SAP variants using a variant definition file.
- Modify SAP variants using a variant definition file.
- Query variants in the SAP system.
- Process/monitor Batch Input sessions.
- Retrieve the SAP syslog.
- Define SAP FS job networks to the SAP system using a definition file.
- Start SAP FS job networks.
- Check the status of SAP FS job networks.
- Delete SAP FS job networks from the SAP system.
- Export SAP calendars.
- Interface with the MHP Communication Management product.

1.2 Universal Connector for SAP Communications

Universal Connector for SAP communicates with an SAP system using an SAP RFC connection. Through this RFC connection, Universal Connector for SAP utilizes SAP's external interfaces to perform background-processing tasks.

2 Supported SAP Versions

Universal Connector for SAP supports SAP 3.1G and above.

The following commands are not available when running Universal Connector for SAP against SAP 3.1 and 4.0 systems:

- Purge
- Display select
- Target Server parameter for START and RUN commands

2.1 XBP 2.0 Support

Universal Connector for SAP supports the SAP XBP 2.0 interface. The XBP 2.0 interface introduces important new feature sets and many enhancements to basic functionality.

The following features are the most notable additions to the XBP 2.0 interface:

2.1.1 Parent / Child Functionality

This feature allows Universal Connector for SAP to identify the parent/child relationship between jobs and work with them accordingly. For example, monitoring a submitted job can now take into account the activity of all child jobs.

2.1.2 Job Intercept Functionality

This feature allows Universal Connector for SAP to define and modify criteria used by the SAP system to intercept jobs (prevent jobs from starting).

2.1.3 Raise Events Externally

This feature allows Universal Connector for SAP to trigger SAP events.

Important

Some features of the XBP 2.0 interface (parent/child and interception) may not be used by all SAP customers. Therefore, to prevent unnecessary use of resources, SAP provides a means to globally turn on and off these features. ABAP program **INITXBP2** performs this function.

Parent/child functionality and job interception functionality are turned off by default. The SAP ABAP program **INITXBP2** must be run before Universal Connector can use this functionality.

2.2 XBP 3.0 Support

Universal Connector for SAP supports the SAP XBP 3.0 interface. All functionality will go through the XBP 3.0 interface if it is available.

The following features are the most notable additions to the XBP 3.0 interface:

2.2.1 Application Information

This feature set includes the ability to retrieve application logs and application return codes for jobs on the SAP system.

Note

Not all jobs will create this information. The availability is dependent upon the functionality of the programs that are executed within the job on the SAP system.

2.2.2 SAP Factory Calendars

This feature involves the implementation of the BAPI_XBP_FACT_CALENDARS_GET function module.

2.2.3 SAP Holiday Calendars

This feature involves the implementation of the BAPI_XBP_HOL_CALENDARS_GET function module.

3 SAP User Authentication Requirements

Universal Connector for SAP requires a user ID defined in the SAP system for RFC logon/user authentication. The user ID used with Universal Connector for SAP requires certain SAP authorizations to perform tasks within the SAP system.

If the instance profile parameter **auth/rfc_authority_check** is set to 1, the system checks authorization for the function group of the RFC function module against the authorization object **S_RFC**. In this case, the following authorizations are required:

3.1 SAP 3.1 - 4.0

User IDs that will run Universal Connector for SAP should be assigned an authorization for the authorization object **S_RFC** with the following fields:

- Type of RFC object to be protected (RFC_TYPE)=FUGR.
- Name of the RFC object (RFC_NAME)=SXMI, SXJI, SQUE, STUS.
- Activity (RFC_ACTVT)=16 (execute).

3.2 SAP 4.5 (and Higher)

User IDs that will run Universal Connector for SAP should be assigned an authorization for the authorization object **S_RFC** with the following fields:

- Type of RFC object to be protected (RFC_TYPE)=FUGR.
- Name of the RFC object (RFC_NAME)=SXMI, SXBP, SQUE, STUS.
- Activity (RFC_ACTVT)=16 (execute).

4 RFC Connection Types

Universal Connector for SAP communicates with SAP systems using the SAP RFC communication protocol. The connection parameters required to establish an RFC connection can be referenced from stored values in SAP RFC configuration files or supplied directly on the command line (bypassing the need for an RFC configuration file).

For command line-based connections, Universal Connector for SAP supports Type A (specific application server) and Type B (load balancing) RFC connections.

4.1 Supported SAP RFC Library Versions

Universal Connector for SAP supports the latest version of SAP NetWeaver RFC (750 at the time of writing). While Universal Connector for SAP currently works with older RFC versions, some features are not available on these versions. For example, sending an email notification after a job has finished is a feature that Universal Connector for SAP does not support on any RFC version below 750 and if attempted on an RFC version below 750 a warning message will be printed and no email will be sent.

5 Business Warehouse Support in Universal Connector for SAP

Universal Connector for SAP provides functionality that enables the external automation of work in the SAP Business Warehouse system. Functionality is available for working with both [Process Chains](#) and [InfoPackages](#).

5.1 Process Chains

Process Chain functionality consists of the following set of commands:

- Display list of process chains on the SAP system matching specified criteria.
- Display Process Chain (schedule view and instance view).
- Display Process Chain start condition.
- Display Process Chain log.
- Display Process Chain status.
- Run Process Chains.
- Start Process Chains.
- Monitor Process Chains to completion.
- Return status log and output from Process Chain execution.
- Restart failed Process Chains.
- Interrupt Process Chains.

5.1.1 Process Chain Monitoring

When Universal Connector for SAP is instructed to monitor a process chain, it will detect all processes associated with the chain. Any sub-chains that are started as a result of the monitored chain execution will be evaluated and monitored to completion.

Optionally, Universal Connector for SAP will detect the XBP-based jobs that are executed to process the work of the Process Chain processes. If XBP jobs are monitored, the monitoring can be extended to any child jobs that may be started by the parent XBP jobs. Also, if XBP jobs are monitored, the exit statuses for those jobs are incorporated into the exit code processing for the entire Process Chain.

As Process Chain processes and XBP jobs complete, the associated logs and output can optionally be printed. Each asset (Process Chain process logs, XBP job logs, XBP spooled output) can be turned on/off individually.

Finally, when the Process Chain monitoring is complete, the Process Chain log is optionally printed and the exit code of the Universal Connector for SAP instance is set to an appropriate value associated with the state of the Process Chain.

5.2 InfoPackages

InfoPackage functionality consists of the following set of commands:

- Display list of InfoPackages on the SAP system matching specified criteria.
- Display InfoPackage status.
- Run InfoPackages.
- Start InfoPackages.
- Monitor InfoPackage executions to completion.

5.2.1 InfoPackage Monitoring

Infopackage monitoring relies exclusively on the functionality exposed by the SAP BW-SCH interface. Universal Connector for SAP does not monitor backing XBP jobs for InfoPackage executions.

It should be noted that the InfoPackage functionality described in this section is specific to the InfoPackage scheduler (transaction RSA1). InfoPackages executed as processes in a Process Chain (transaction RSPC) will be monitored in the fashion described in [Process Chains](#). Specifically, when executed as processes in Process Chains, the backing XBP jobs associated with InfoPackage processing can optionally be monitored.

6 Job ID Requirement for Universal Connector for SAP Commands

Universal Connector for SAP supports automatically selecting an appropriate model job from an SAP system without requiring a job ID on the command line for the following commands:

- [RUN JOB](#)
- [SUBMIT JOB](#)
- [START JOB](#)
- [GENERATE JOB DEFINITION FILE](#)

SAP jobs are uniquely identified by a job name/job ID pair. When these commands are issued without supplying a job ID, Universal Connector for SAP will evaluate available jobs on the SAP system and make an appropriate selection (if possible).

Two Universal Connector for SAP configuration options control model job selection when a job ID is not provided:

- [MODEL_STATUS](#)
- [RESOLVE_MULTIMODEL](#)

Note

By default, model job selection is restricted to jobs owned by the SAP logon user provided for the command. However, you can use the [USER_NAME](#) configuration option (-selusername) to override this behavior.

The value for [USER_NAME](#) can be either a specific SAP user name or a mask used to match multiple user names. For example:

- Specifying -selusername *SMITH* would restrict model job selection to jobs owned by user SMITH.
- Specifying -selusername *QA** would restrict model job selection to jobs owned by users user IDs that begin with QA.
- Specifying -selusername *** would select model jobs without restricting by owner.

7 Detailed Information

The following pages provide additional detailed information for Universal Connector for SAP:

- [Universal Connector for SAP for z/OS](#)
- [Universal Connector for SAP for UNIX](#)
- [Universal Connector for SAP for Windows](#)
- [Universal Connector for SAP Commands](#)
- [Universal Connector for SAP Exit Codes](#)
- [Universal Connector for SAP Configuration Options for Program Execution](#)
- [Universal Connector for SAP Configuration Options](#)
- [Universal Connector for SAP Job Definition Files](#)

8 Universal Connector for SAP Examples

See [Remote Execution for SAP Systems](#) for examples of how to implement remote execution for SAP via Universal Connector for SAP.

See [Universal Data Mover - Remote Execution for SAP Systems](#) for examples of how to implement remote execution for SAP systems via Universal Data Mover.

9 Universal Connector for SAP for zOS

- [Introduction](#)
- [Usage](#)
- [JCL Procedure](#)
- [DD Statements used in JCL Procedure](#)
- [JCL](#)
- [Command Line Syntax](#)
 - [Example](#)

9.1 Introduction

This information is specific to Universal Connector for SAP (USAP) for the z/OS operating system.

9.2 Usage

Universal Connector for SAP for z/OS executes as a batch job.

Each batch job contains:

1. JCL interface to the command line.
2. Configuration options associated with the specified command.
3. Configuration options (required and optional) not associated with any specific command.

Universal Connector for SAP performs an operation specified by the command. The configuration options describe the actions to take for that operation.

This section describes the JCL and command line syntax of Universal Connector for SAP for z/OS.

9.3 JCL Procedure

The following figure illustrates the Universal Connector for SAP for z/OS JCL procedure (**USPPRC**, located in the **SUSPSAMP** library) that is provided to simplify the execution JCL and future maintenance.

```
//USPPRC  PROC  UPARM=,                -- USAP options
//                SAPRFC=USPRFC00,    -- SAP RFC member
//                USAPPRE=#SHLQ.UNV,
//                USAPPRD=#PHLQ.UNV
//*
//PS1     EXEC  PGM=USAP , PARM=' ENVAR(TZ=EST5EDT) /&UPARM '
//STEPLIB DD   DISP=SHR, DSN=&USAPPRE..SUNVLOAD
//*
```

```
//UNVNLS DD DISP=SHR,DSN=&USAPPRE..SUNVNLS
//UNVRFC DD DISP=SHR,DSN=&USAPPRD..UNVCONF(&SAPRFC)
//UNVTRACE DD SYSOUT=*
//*
//SYSPRINT DD SYSOUT=*
//SYSOUT DD SYSOUT=*
//CEEDUMP DD SYSOUT=*
```

The parameter **UPARM** specifies EXEC PARM keyword values. The parameter **CONFIG** specifies the configuration member. The parameter **SAPRFC** specifies the SAP RFC configuration member. The parameter **USAPPRE** specifies the data set name prefix of USAP installation data sets.

9.4 DD Statements used in JCL Procedure

The following table describes the DD statements used in the Universal Connector for SAP for z/OS [JCL procedure](#), above.

ddname	DCB Attributes *	Mode	Description
STEPLIB	DSORG=PO, RECFM=U	input	Load library containing the program being executed.
UNVNLS	DSORG=PO, RECFM=(F, FB, V, VB)	input	USAP national language support library. Contains message catalogs.
UNVRFC	DSORG=PS, RECFM=(F, FB, V, VB)	input	SAP Remote Function Call (RFC) configuration member.
UNVTRACE	DSORG=PS, RECFM=(F, FB, V, VB)	Output	USAP trace output.
SYSPRINT	DSORG=PS, RECFM=(F, FB, V, VB)	output	Standard output file for the USAP program.
SYSOUT	DSORG=PS, RECFM=(F, FB, V, VB)	output	Standard error file for the USAP program.

* The C runtime library determines the default DCB attributes. Refer to the IBM manual OS/390 C/C++ Programming Guide for details on default DCB attributes for stream I/O.

9.5 JCL

The following figure illustrates the Universal Connector for SAP for z/OS JCL using the **USPPRC JCL procedure**, above.

```
//jobname JOB CLASS=A,MSGCLASS=X
//STEP1 EXEC USPPRC
//SYSIN DD *
        -dest BIN_45 -client 850 -userid user -pwd password
        -run
```

```

-jobname SAMPLE1
-jobid 13203001
. . .
/*

```

Job step STEP1 executes the procedure **USAPPRC**.

The command options are specified on the SYSIN DD.

9.6 Command Line Syntax

The following figure illustrates the command line syntax of Universal Connector for SAP for z/OS.

```

usap      {RUN | SUBMIT | MODIFY | START | WAIT | ABORT | DISPLAY | GENERATE | PURGE | CR
ITERIA MANAGEMENT | PROCESS CHAIN | INFO PACKAGES | SYNTAX | RAISE EVENT}
HOSTUSER [CFT] [EVENT] [INFORMATIONAL] [LOCAL] [MESSAGE] [RFC] [COMMAND FILE]

```

Names enclosed in {BRACES} identify command groups. For each execution, a single command is specified from one of these groups. One or more configuration options associated with each command also can be used to specify additional information / actions for the execution. See [Universal Connector for SAP Commands](#) for detailed information on the commands, and their associated configuration options, in each command group.

Names enclosed in [BRACKETS] identify categories of configuration options that are not associated with specific commands and from which options are not required.

Names not enclosed in {BRACES} or [BRACKETS] identify categories of configuration options that are not associated with specific commands but from which one or more options are required.

See [Universal Connector for SAP Configuration Options for Program Execution](#) for detailed information on configuration options not associated with one or more commands.

9.6.1 Example

The following is an example of a command line syntax executing Universal Connector for SAP:

```

usap -sub file.usp -immediate-client 987 -dest BIN_HS0092 -userid 123 -pwd ABC -lang en
GLISH -level info

```

10 Universal Connector for SAP for UNIX

- [Introduction](#)
- [Usage](#)
- [Command Line Syntax](#)
 - [Example](#)

10.1 Introduction

This information is specific to Universal Connector for SAP (USAP) for UNIX-based operating systems.

10.2 Usage

Universal Connector for SAP for UNIX executes as a command line application.

Each command line execution contains:

1. Universal Connector for SAP command (and argument).
2. Configuration options associated with that command.
3. Configuration options (required and optional) not associated with any specific command.

Each execution of Universal Connector for SAP performs an operation specified by the command. The configuration options describe information / actions for that operation.

10.3 Command Line Syntax

The following figure illustrates the command line syntax of Universal Connector for SAP for UNIX.

```
usap      {RUN | SUBMIT | MODIFY | START | WAIT | ABORT | DISPLAY | GENERATE | PURGE | CR
ITERIA MANAGEMENT | PROCESS CHAIN | INFO PACKAGES | SYNTAX | RAISE EVENT}
HOSTUSER [CFT] [EVENT] [INFORMATIONAL] [INSTALLATION] [LOCAL] [MESSAGE] [RFC] [COMMA
ND FILE]
```

Names enclosed in {BRACES} identify command groups. For each execution, a single command is specified from one of these groups. One or more configuration options associated with each command also can be used to specify additional information / actions for the execution. See [Universal Connector for SAP Commands](#) for detailed information on the commands, and their associated configuration options, in each command group.

Names enclosed in [BRACKETS] identify categories of configuration options that are not associated with specific commands and from which options are not required.

Names not enclosed in {BRACES} or [BRACKETS] identify categories of configuration options that are not associated with specific commands but from which one or more options are required.

See [Universal Connector for SAP Configuration Options for Program Execution](#) for detailed information on configuration options not associated with one or more commands.

10.3.1 Example

The following is an example of a command line syntax executing Universal Connector for SAP:

```
usap -sub file.usp -immediate-client 987 -dest BIN_HS0092 -userid 123 -pwd ABC - lang en  
glish -level info
```

11 Universal Connector for SAP for Windows

- [Introduction](#)
- [Usage](#)
- [Command Line Syntax](#)
 - [Example](#)

11.1 Introduction

This information is specific to Universal Connector for SAP (USAP) for Windows-based operating systems.

11.2 Usage

Universal Connector for SAP for Windows executes as a command line application.

Each command line execution contains:

1. Universal Connector for SAP command (and argument).
2. Configuration options associated with that command.
3. Configuration options (required and optional) not associated with any specific command.

Each execution of Universal Connector performs an operation specified by the command. The configuration options describe information / actions for that operation.

11.3 Command Line Syntax

The following figure illustrates the command line syntax of Universal Connector for SAP for Windows.

```
usap      {RUN | SUBMIT | MODIFY | START | WAIT | ABORT | DISPLAY | GENERATE | PURGE | CR
ITERIA MANAGEMENT | PROCESS CHAIN | INFO PACKAGES | SYNTAX | RAISE EVENT}
HOSTUSER [CFT] [EVENT] [INFORMATIONAL] [INSTALLATION] [LOCAL] [MESSAGE] [RFC] [COM
MAND FILE]
```

Names enclosed in {BRACES} identify command groups. For each execution, a single command is specified from one of these groups. One or more configuration options associated with each command also can be used to specify additional information / actions for the execution. See [Universal Connector for SAP Commands](#) for detailed information on the commands, and their associated configuration options, in each command group.

Names enclosed in [BRACKETS] identify categories of configuration options that are not associated with specific commands and from which options are not required.

Names not enclosed in {BRACES} or [BRACKETS] identify categories of configuration options that are not associated with specific commands but from which one or more options are required.

See [Universal Connector for SAP Configuration Options for Program Execution](#) for detailed information on configuration options not associated with one or more commands.

11.3.1 Example

The following is an example of a command line syntax executing Universal Connector for SAP:

```
usap -sub file.usp -immediate-client 987 -dest BIN_HS0092 -userid 123 -pwd ABC - lang en  
glish -level info
```

12 Universal Connector for SAP Commands

- [Universal Connector Commands](#)
- [Command Groups](#)
- [Job ID Requirement](#)

12.1 Universal Connector Commands

This page identifies and provides links to detailed information on all commands of Universal Connector for SAP.

Each command has configuration options associated with it that can be used to specify additional information / actions for an execution of that command.

(For information on configuration options not associated with one or more specific commands, see [Universal Connector for SAP Configuration Options for Program Execution.](#))

12.2 Command Groups

Universal Connector for SAP groups commands into areas of common functionality, as shown in the following table. Each row identifies a command group, the commands in that group, and the type of operation performed by those commands.

Each command name is a link to the following information about that command:

Command Description	Description of the operation(s) performed by the command.
Command Line Syntax	Syntax of the command and its options on the command line.
Command Argument	Command line expression (short and/or long form) and description of the command argument.
Command Options	Description of the configuration options associated with the option and a link to detailed information about those options.

Command Groups	Description
RUN <ul style="list-style-type: none"> • RUN FS JOB NETWORK Command • RUN INFOPACKAGE Command • RUN JOB Command • RUN PROCESS CHAIN Command 	<p>The RUN command group contains convenience commands that combine the commands from multiple command groups.</p> <p>For example, the RUN JOB command performs the following actions:</p> <ol style="list-style-type: none"> 1. Defines an SAP job. 2. Starts the job. 3. Waits for the job to complete. 4. Writes the joblog and spoolists of the job. 5. Purges the job from the SAP system.

Command Groups	Description
SUBMIT <ul style="list-style-type: none"> • SUBMIT FS JOBNET Command • SUBMIT INTERCEPT CRITERIA TABLE Command • SUBMIT JOB Command • SUBMIT VARIANT Command 	<p>The SUBMIT command group contains commands that define various resource definitions to the SAP system.</p> <p>For example, the SUBMIT JOB command defines a job to the SAP system.</p>
MODIFY <ul style="list-style-type: none"> • MODIFY JOB Command • MODIFY VARIANT Command 	<p>The MODIFY command group contains commands that modify various resource definitions on the SAP system.</p> <p>For example, the MODIFY JOB command modifies a job definition in the SAP system.</p>
START <ul style="list-style-type: none"> • START FS JOBNET Command • START INFOPACKAGE Command • START JOB Command • START PROCESS CHAIN Command 	<p>The START command group contains commands that start various types work on the SAP system.</p> <p>For example, the START JOB command starts a job on the SAP system.</p>
WAIT <ul style="list-style-type: none"> • BDCWAIT Command • MASS ACTIVITY WAIT Command • WAIT for FS JOB NETWORK Command • WAIT for JOB Command • WAIT INFOPACKAGE Command • WAIT PROCESS CHAIN Command 	<p>The WAIT command group contains commands that are used to monitor various types of work on the SAP system.</p> <p>For example, the WAIT for JOB command is used to monitor an SAP job through to completion.</p>
ABORT <ul style="list-style-type: none"> • ABORT Command 	<p>The ABORT command group contains a single command, ABORT, that cancels a running SAP job.</p>
DISPLAY <ul style="list-style-type: none"> • DISPLAY CM PROFILES Command • DISPLAY CM CRITERIA Command • DISPLAY COMMANDS Command • DISPLAY EVENT HISTORY Command • DISPLAY INFOPACKAGE STATUS Command • DISPLAY INFOPACKAGES Command • DISPLAY INTERCEPTED_JOBS Command • DISPLAY INTERCEPT_TABLE Command • DISPLAY JOBDEF Command • DISPLAY JOBLOG Command • DISPLAY OUTPUT_DEVICES Command • DISPLAY PRINT_FORMATS Command • DISPLAY PROCESS CHAIN Command • DISPLAY PROCESS CHAIN LOG Command • DISPLAY PROCESS CHAIN START CONDITION Command • DISPLAY PROCESS CHAIN STATUS Command • DISPLAY PROCESS CHAINS Command • DISPLAY QSTATE Command • DISPLAY REPORTS Command • DISPLAY SELECTION SCREEN Command • DISPLAY SPOOLLIST Command • DISPLAY STATUS Command • DISPLAY VARIANT Command • DISPLAY VARIANTS Command • DISPLAY SELECT Command • DISPLAY SYSLOG Command 	<p>The DISPLAY command group contains commands that display various types of SAP data.</p>
GENERATE <ul style="list-style-type: none"> • GENERATE JOB DEFINITION FILE Command • GENERATE VARIANT DEFINITION FILE Command 	<p>The GENERATE command group contains commands that generate USAP job or variant definitions based on model SAP jobs or variants.</p>

Command Groups	Description
PURGE <ul style="list-style-type: none"> • PURGE FS JOB NETWORK Command • PURGE JOB Command • PURGE VARIANT Command 	The PURGE command group contains commands that delete SAP jobs.
CRITERIA MANAGEMENT <ul style="list-style-type: none"> • ACTIVATE CM PROFILE Command • CREATE CM PROFILE Command • DEACTIVATE CM PROFILE Command • DELETE CM PROFILE Command • DISPLAY CM PROFILES Command • DISPLAY CM CRITERIA Command • SET CM CRITERIA Command 	The CRITERIA MANAGEMENT command group contains commands that set up SAP criteria.
PROCESS CHAIN <ul style="list-style-type: none"> • DISPLAY PROCESS CHAIN Command • DISPLAY PROCESS CHAIN LOG Command • DISPLAY PROCESS CHAIN START CONDITION Command • DISPLAY PROCESS CHAIN STATUS Command • DISPLAY PROCESS CHAINS Command • INTERRUPT PROCESS CHAIN Command • RESTART PROCESS CHAIN Command • RUN PROCESS CHAIN Command • START PROCESS CHAIN Command • WAIT PROCESS CHAIN Command 	The PROCESS CHAIN command group contains commands that work with Process Chains on SAP systems.
INFO PACKAGES <ul style="list-style-type: none"> • DISPLAY INFOPACKAGE STATUS Command • DISPLAY INFOPACKAGES Command • RUN INFOPACKAGE Command • START INFOPACKAGE Command • WAIT INFOPACKAGE Command 	The INFO PACKAGES command group contains commands that work with InfoPackages on SAP systems.
SYNTAX Command	The SYNTAX command checks the syntax of a job definition file.
RAISE EVENT Command	The RAISE EVENT command raises the specified SAP background processing event.

12.3 Job ID Requirement

Some Universal Connector for SAP commands do not require a job ID on the command line when selecting an appropriate model job from an SAP system.

For details, see [Job ID Requirement for Universal Connector for SAP Commands](#).

12.4 ABORT - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.4.1 Description

The ABORT command cancels a running SAP job.

12.4.2 Command Line Syntax

The following figure illustrates the command line syntax of the ABORT command, using the command line, long form of its [configuration options](#).

```
-abort -jobname jobname -jobid jobid
```

12.4.3 Configuration Options

The following table describes all ABORT configuration options and provides the command line, long form of each option illustrated in the ABORT [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.

12.5 ACTIVATE CM PROFILE - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.5.1 Description

The ACTIVATE CM PROFILE command activates a criteria profile of the specified type.

12.5.2 Command Line Syntax

The following figure illustrates the command line syntax of the ACTIVATE CM PROFILE command, using the command line long form of its [configuration options](#).

```
-activate_cm_profile -profile_id id -profile_type type
```

12.5.3 Configuration Options

The following table describes all ACTIVATE CM PROFILE configuration options and provides the command line, long form of each option illustrated in the ACTIVATE CM PROFILE [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
PROFILE_ID	-profile_id	ID of the profile to be activated.
PROFILE_TYPE	-profile_type	Type of the profile to be activated. For the default criteria types provided by SAP, the values are: <ul style="list-style-type: none"> • EVTHIS - identifies a criteria type for event history. • EVHIRO - identifies a criteria type for the reorganization of raised events. • INTERC - identifies a criteria type for job interception.

12.6 BDCWAIT - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.6.1 Description

The BDCWAIT command allows USAP to reconnect to a started batch input processing job and monitor it, and all its generated session processing jobs, through completion.

12.6.2 Command Line Syntax

The following figure illustrates the command line syntax of the BDCWAIT command, using the command line, long form of its [configuration options](#).

```
-bdcwait-jobname jobname -jobid jobid
  [-poll seconds]
  [-job_stat_check option]
  [-job_stat_check_interval seconds]
  [-joblog {yes|no}]
  [-applog {yes|no}]
  [-printapprc {yes|no}]
  [-useapprc {yes|no}]
```

```

[-transtab translation_table]
[-purge]
[-purge_bdc_map {yes|no}]
[-syslog {yes|no}
    [-syslogpre seconds]
    [-syslogpost seconds]
[-terminatedec exitcode]
[-finishedec exitcode]
[-maxspoolsizeexceededec exitcode]
[-qtobecreatedec exitcode]
[-qunprocessedec exitcode]
[-qinbackgroundec exitcode]
[-qfinishedec exitcode]
[-qerrorec exitcode]
[-bdcjobnameptrn pattern]
[-bdcjobidptrn pattern]
[-bdcqidptrn pattern]
    
```

12.6.3 Configuration Options

The following table describes all BDCWAIT configuration options and provides the command line, long form of each option illustrated in the BDCWAIT [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
BATCH_MONITOR	-bdcwait	Causes USAP to perform batch input monitoring for the job being started.
ENABLE_JOB_STATUS_CHECK	-job_stat_check	Specification to enable or disable calls to SAP function module BAPI_XBP_JOB_STATUS_CHECK, which are used to synchronize the actual job status with the R/3 stored status.
EXIT_JOB_FINISHED	-finishedec	USAP exit code for the SAP job finished status.
EXIT_JOB_TERMINATED	-terminatedec	USAP exit code for the SAP job terminated status.
EXIT_MAX_SPOOL_SIZE_EXCEEDED	-maxspoolsizeexceededec	Minimum exit code that will be set if an attempt is made to return a spool list that exceeds the maximum size for job logs as specified by the MAX_SPOOL_LIST_SIZE USAP configuration option.
EXIT_QUEUE_BACKGROUND	-qinbackgroundec	USAP exit code for the SAP queue state 'S' (in background).
EXIT_QUEUE_CREATED	-qtobecreatedec	USAP exit code for the SAP queue state 'C' (to be created).
EXIT_QUEUE_ERROR	-qerrorec	USAP exit code for the SAP queue state 'E' (error).
EXIT_QUEUE_FINISHED	-qfinishedec	USAP exit code for the SAP queue state 'F' (finished).
EXIT_QUEUE_UNPROCESSED	-qunprocessedec	USAP exit code for the SAP queue state '' (unprocessed).

Configuration Option Name	Command Line Long Form	Description
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.
JOB_ID_PATTERN	-bdcjobidptrn	Locates the header record and determines the offset of the job ID in the RSBDCSUB batch input processing report.
JOB_NAME_PATTERN	-bdcjobnameptrn	Locates the header record and determines the offset of the job name in the RSBDCSUB batch input processing report.
PURGE_BDC_MAP	-purge_bdc_map	Specification for whether or not to delete BDC Batch input session queues that have been processed successfully.
PURGE_JOB	-purge	Purge job that has completed processing from SAP system.
QUEUE_ID_PATTERN	-bdcqidptrn	Locates the header record and determines the offset of the queue ID in the RSBDCSUB batch input processing report.
RETURN_APPLICATION_LOG	-applog	Specification for whether or not the job's application log is returned.
RETURN_APPLICATION_RC	-printapprc	Specification for whether or not the job's application return codes are returned.
RETURN_JOB_LOG	-joblog	Specification for whether or not the job's joblog is returned.
STATUS_CHECK_INTERVAL	-job_stat_check_interval	Length of time that can elapse, without a change in job status, before a call will be made to synchronize the actual job status with the SAP stored status.
SYSLOG	-syslog	Specification for whether or not a syslog report is generated on standard error if the job does not complete successfully.
SYSLOG_POST_TIME	-syslogpost	Length of time to add to the job end time when calculating the to time for the syslog report.
SYSLOG_PRE_TIME	-syslogpre	Length of time to subtract from the job release time when calculating the from time for the syslog report.
TRANSLATION_TABLE	-transtab	Spoolist translation table file to use for formatting returned spoolists.
USAP_POLL	-poll	Length of time to wait between job status calls to the SAP system.
USE_APPLICATION_RC	-useapprc	Specification for whether or not the job's application return codes are used to determine the exit code of the USAP job.

12.7 CREATE CM PROFILE - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)

12.7.1 Description

The CREATE CM PROFILE command creates a new Criteria Manager profile.

12.7.2 Command Line Syntax

The following figure illustrates the command line syntax of the CREATE CM PROFILE command.

```
-create_cm_profile  filename / ddname
```

12.7.3 Command Argument

The CREATE CM PROFILE command argument, *filename / ddname*, specifies the name of a file that contains an XML document that describes the profile to be created.

The XML documents can be direct exports from the Criteria Manager in the SAP front End GUI.

12.8 DEACTIVATE CM PROFILE - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.8.1 Description

The DEACTIVATE CM PROFILE command deactivates a criteria profile of the specified type.

12.8.2 Command Line Syntax

The following figure illustrates the command line syntax of the DEACTIVATE CM PROFILE command, using the command line long form of its [configuration options](#).

```
-deactivate_cm_profile -profile_type type
```

12.8.3 Configuration Options

The following table describes all DEACTIVATE CM PROFILE configuration options and provides the command line, long form of each option illustrated in the DEACTIVATE CM PROFILE [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
PROFILE_TYPE	-profile_type	Type of the profile to be deactivated. For the default criteria types provided by SAP, the values are: <ul style="list-style-type: none"> • EVTHIS - identifies a criteria type for event history. • EVHIRO - identifies a criteria type for the reorganization of raised events. • INTERC - identifies a criteria type for job interception.

12.9 DELETE CM PROFILE - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.9.1 Description

The DELETE CM PROFILE command deletes a criteria profile from an SAP system.

12.9.2 Command Line Syntax

The following figure illustrates the command line syntax of the DELETE CM PROFILE command, using the command line, long form of its [configuration options](#).

```
-delete_cm_profile -profile_id id -profile_type type
```

12.9.3 Configuration Options

The following table describes all DELETE CM PROFILE configuration options and provides the command line, long form of each option illustrated in the DELETE CM PROFILE [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
PROFILE_ID	-profile_id	ID of the profile to be deleted.
PROFILE_TYPE	-profile_type	Type of the profile to be deleted. For the default criteria types provided by SAP, the values are: <ul style="list-style-type: none"> • EVTHIS - identifies a criteria type for event history. • EVHIRO - identifies a criteria type for the reorganization of raised events. • INTERC - identifies a criteria type for job interception.

12.10 DISPLAY CM CRITERIA - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.10.1 Description

The DISPLAY CM CRITERIA command displays the criteria hierarchy of a particular profile in XML format.

12.10.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY CM CRITERIA command, using the command line, long form of the [configuration options](#).

```
-display cm_criteria -profile_id id -profile_type type
```

12.10.3 Command Argument

The DISPLAY CM CRITERIA command can be expressed as either:

- -D: Short form
- -display: Long form

The DISPLAY CM CRITERIA command argument, **cm_criteria**, requests the display of a list of profiles that match the specified type. The '*' wild card is permitted.

12.10.4 Configuration Options

The following table describes all DISPLAY CM PROFILE configuration options and provides the command line, long form of each option illustrated in the DISPLAY CM PROFILE [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
PROFILE_ID	-profile_id	ID of the profile whose criteria are to be displayed in XML format.

Configuration Option Name	Command Line Long Form	Description
PROFILE_TYPE	-profile_type	<p>Criteria type of the profile whose criteria are to be displayed in XML format.</p> <p>For the default criteria types provided by SAP, the values are:</p> <ul style="list-style-type: none"> • EVTHIS - identifies a criteria type for event history. • EVHIRO - identifies a criteria type for the reorganization of raised events. • INTERC - identifies a criteria type for job interception.

12.11 DISPLAY CM PROFILES - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.11.1 Description

The DISPLAY CM PROFILES command displays a list of Criteria Manager profiles.

12.11.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY CM PROFILES command, using the command line, long form of its [configuration options](#).

```
-display cm_profiles -profile_type type
```

12.11.3 Command Argument

The DISPLAY CM PROFILES command can be expressed as either:

- -D: Short form
- -display: Long form

The DISPLAY CM PROFILES command argument, **cm_profiles**, requests the display of a list of profiles that match the specified type. The '*' wild card is permitted.

12.11.4 Configuration Options

The following table describes all DISPLAY CM PROFILES configuration options and provides the command line, long form of each option illustrated in the DISPLAY CM PROFILES [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
PROFILE_TYPE	-profile_type	Criteria type of the profiles to be returned. For the default criteria types provided by SAP, the values are: <ul style="list-style-type: none"> • EVTHIS - identifies a criteria type for event history. • EVHIRO - identifies a criteria type for the reorganization of raised events. • INTERC - identifies a criteria type for job interception.

12.12 DISPLAY COMMANDS - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.12.1 Description

The DISPLAY COMMANDS command displays a list of SAP external commands that match the specified criteria.

12.12.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY COMMANDS command, using the command line, long form of its [configuration options](#).

```
-display commands -cmd external_command_mask -opsys operating_system
```

12.12.3 Command Argument

The DISPLAY COMMANDS command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY COMMANDS command argument, **commands**, requests the display of a list of SAP external commands that match the specified criteria.

12.12.4 Configuration Options

The following table describes all DISPLAY COMMANDS configuration options and provides the command line, long form of each option illustrated in the DISPLAY COMMANDS [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
EXTERNAL_COMMAND	-cmd	Complete command name or a mask used to select SAP external commands that match the mask.
OPERATING_SYSTEM	-opsys	Name of the operating system for which external commands are searched.

12.13 DISPLAY EVENT HISTORY - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.13.1 Description

The DISPLAY EVENT HISTORY command displays a list of events that were logged in an SAP system's event history. The retrieved events optionally can be set to CONFIRMED.

12.13.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY EVENT HISTORY command, using the command line, long form of its [configuration options](#).

```
-display event_history

-event_id
id

-event_parm
parm

-event_select_state
state

-event_action
action
```

12.13.3 Command Argument

The DISPLAY CM PROFILES command can be expressed as either:

- -D: Short form
- -display: Long form

The DISPLAY EVENT HISTORY command argument, **event_history**, requests the display of a list of SAP events that match the specified id and parm values. The '*' wild card is permitted for both event_id and event_parm criteria.

12.13.4 Configuration Options

The following table describes all DISPLAY EVENT HISTORY configuration options and provides the command line, long form of each option illustrated in the DISPLAY EVENT HISTORY [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
EVENT_ID	-event_id	Event ID criteria to use for selecting events.
EVENT_PARAMETER	-event_parm	Event parameter criteria to use for selecting events.
EVENT_SELECT_STATE	-event_select_state	Specifies the event status of the events which should be read. The following values are possible: <ul style="list-style-type: none"> • N -Return events that are in status NEW. This includes events that were newly logged and have not been read yet, or events that have been read but not marked as confirmed by the external scheduler. • C - Return events which were marked by the external scheduler as CONFIRMED. • A - Return events regardless of their status. The default value is A .
EVENT_ACTION	-event_action	Specifies whether the status of returned events should be changed in the SAP system. The following values are possible: <ul style="list-style-type: none"> • C - Sets the status of read events from NEW to CONFIRMED. • N - Leaves the status of read events as NEW. The default value is N .

12.14 DISPLAY INFOPACKAGE STATUS - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.14.1 Description

The DISPLAY INFOPACKAGE STATUS command displays the current status for the InfoPackage instance identified by the request ID.

12.14.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY INFOPACKAGE STATUS command, using the command line, long form of its [configuration options](#).

```
-display status -requestid ID
```

12.14.3 Command Argument

The DISPLAY INFOPACKAGE STATUS command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY INFOPACKAGE STATUS command argument, **status**, requests the display of the current status for the InfoPackage instance identified by the request ID.

12.14.4 Configuration Options

The following table describes all DISPLAY INFOPACKAGE STATUS configuration options and provides the command line, long form of each option illustrated in the DISPLAY INFOPACKAGE STATUS [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
REQUEST_ID	-requestid	Request ID for InfoPackage instance for which the status is to be displayed.

12.14.5 Output

- stdout: Statements indicating status of the InfoPackage request.
- stderr: UNV messages.

12.14.6 Exit Codes

Use exit code mappings:

- 'G' - Green: ipgreenec
- 'Y' - Yellow: ipyellowec
- 'R' - Red: ipreddec

12.15 DISPLAY INFOPACKAGES - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.15.1 Description

The DISPLAY INFOPACKAGES command displays a list of InfoPackages on the SAP system that meet the specified criteria.

12.15.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY PROCESS CHAIN STATUS command, using the command line, long form of its [configuration options](#).

```
-display infopackages [-jobstatus status] [-infopackage mask] [-infosource mask] [-source_system mask] [-datasource mask]
```

12.15.3 Command Argument

The DISPLAY INFOPACKAGES command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY INFOPACKAGES command argument, **infopackages**, requests the display of a list of InfoPackages on the SAP system that meet the specified criteria.

12.15.4 Configuration Options

The following table describes all DISPLAY INFOPACKAGES configuration options and provides the command line, long form of each option illustrated in the DISPLAY INFOPACKAGES [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
JOB_STATUS	-jobstatus	Sm37-Batch-Status.
INFO_PACKAGE	-infopackage	Name of the mask InfoPackage to select.

Configuration Option Name	Command Line Long Form	Description
INFO_SOURCE	-infosource	InfoSource mask for which the InfoPackages were created.
SOURCE_SYSTEM	-source_system	Source system mask for which the InfoPackages were created.
DATA_SOURCE	-datasource	Data Source mask for which the InfoPackages were created.

12.15.5 Output

- stdout: List of InfoPackages that meet the selection criteria.
- stderr: UNV messages.

12.15.6 Exit Codes

- 0 on success.
- Non-zero on error.

12.16 DISPLAY INTERCEPT_TABLE - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)

12.16.1 Description

The DISPLAY INTERCEPT_TABLE command displays the contents of the job intercept criteria table for the connected SAP system.

12.16.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY INTERCEPT_TABLE command.

```
-display intercept_table
```

12.16.3 Command Argument

The DISPLAY INTERCEPT_TABLE command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY INTERCEPT_TABLE command argument, **intercept_table**, requests the display of an SAP system's job intercept criteria table.

12.17 DISPLAY INTERCEPTED_JOBS - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.17.1 Description

The DISPLAY INTERCEPTED_JOBS command displays intercepted jobs for the connected SAP system.

12.17.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY INTERCEPTED_JOBS command, using the command line, long form of its [configuration options](#).

```
-display intercepted_jobs
```

```
-dspclient
```

```
client
```

12.17.3 Command Argument

The DISPLAY INTERCEPTED_JOBS command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY INTERCEPTED_JOBS command argument, **intercepted_jobs**, requests the display of an SAP system's intercepted jobs. Unless a specific client is identified, intercepted jobs for all clients are displayed.

12.17.4 Configuration Options

The following table describes all DISPLAY INTERCEPTED_JOBS configuration options and provides the command line, long form of each option illustrated in the DISPLAY INTERCEPTED_JOBS [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
DISPLAY_CLIENT	-dspclient	Specific SAP client whose intercepted jobs will be reported.

12.18 DISPLAY JOBDEF - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.18.1 Description

The DISPLAY JOBDEF command displays the definition of the specified SAP job.

12.18.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY JOBDEF command, using the command line, long form of its [configuration options](#).

```
-display jobdef -jobname jobname -jobid jobid
```

12.18.3 Command Argument

The DISPLAY JOBDEF command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY JOBDEF command argument, **jobdef**, requests the display of a job's definition.

12.18.4 Configuration Options

The following table describes all DISPLAY JOBDEF configuration options and provides the command line, long form of each option illustrated in the DISPLAY JOBDEF [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.

Configuration Option Name	Command Line Long Form	Description
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.

12.19 DISPLAY JOBLLOG - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.19.1 Description

The DISPLAY JOBLLOG command displays the job log for a specified SAP job.

12.19.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY JOBLLOG command, using the command line, long form of its [configuration options](#).

```
-display joblog -jobname jobname -jobid jobid -max_log_size size
```

12.19.3 Command Argument

The DISPLAY JOBLLOG command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY JOBLLOG command argument, **joblog**, requests the display of a job's joblog.

12.19.4 Configuration Options

The following table describes all DISPLAY JOBLLOG configuration options and provides the command line, long form of each option illustrated in the DISPLAY JOBLLOG [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.

Configuration Option Name	Command Line Long Form	Description
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.
MAX_JOB_LOG_SIZE	-max_log_size	Maximum size for job logs.

12.20 DISPLAY OUTPUT_DEVICES - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.20.1 Description

The DISPLAY OUTPUT_DEVICES command displays a list of SAP output devices that match the specified criteria.

12.20.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY OUTPUT_DEVICES command, using the command line, long form of its [configuration options](#).

```
-display output_devices
-short\_name
technical_device_name_mask
-long\_name
long_device_name_mask
```

12.20.3 Command Argument

The DISPLAY OUTPUT_DEVICES command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY OUTPUT_DEVICES command argument, **output_devices**, requests the display of a list of SAP output devices that match the specified criteria.

12.20.4 Configuration Options

The following table describes all DISPLAY OUTPUT_DEVICES configuration options and provides the command line, long form of each option illustrated in the DISPLAY OUTPUT_DEVICES [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
TECHNICAL_DEVICE_NAME	-short_name	Complete device name or a mask used to select SAP output devices that match the mask.
LONG_DEVICE_NAME	-long_name	Complete device name or a mask used to select SAP output devices that match the mask.

12.21 DISPLAY PRINT_FORMATS - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.21.1 Description

The DISPLAY PRINT_FORMATS command displays a list of print formats that are available for the specified printer.

12.21.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY PRINT_FORMATS command, using the command line, long form of its [configuration options](#).

```
-display print_formats -printer printer_name -layout layout
```

12.21.3 Command Argument

The DISPLAY PRINT_FORMAT command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY PRINT_FORMAT command argument, **print_formats**, requests the display of a list of print formats available for the specified printer.

12.21.4 Configuration Options

The following table describes all DISPLAY PRINT_FORMATS configuration options and provides the command line, long form of each option illustrated in the DISPLAY PRINT_FORMATS [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
LAYOUT_NAME	-layout	Complete layout name or a mask used to select printer layouts that match the mask.
PRINTER_NAME	-printer	Name of a printer for which the print formats will be retrieved.

12.22 DISPLAY PROCESS CHAIN - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.22.1 Description

The DISPLAY PROCESS CHAIN command displays the list of processes contained within the specified process chain.

12.22.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY PROCESS CHAIN command, using the command line, long form of its [configuration options](#).

```
-display process_chain
-chainid
chainid [
-logid
logid]
```

Note

- If -logid is specified, instance information will be displayed for the process chain instance associated with the logid; that is, process instance data is returned for processes that have been started.
- If -logid is not specified, the scheduled view of the process chain is returned (that is, no instance data).

12.22.3 Command Argument

The DISPLAY PROCESS CHAIN command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY PROCESS CHAIN command argument, **process_chain**, requests the display of the list of processes contained within the specified process chain.

12.22.4 Configuration Options

The following table describes all DISPLAY PROCESS CHAIN configuration options and provides the command line, long form of each option illustrated in the DISPLAY PROCESS CHAIN [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
CHAIN_ID	-chain_id	ID of process chain to be displayed.
LOG_ID	-logid	Log ID for process instance data. <ul style="list-style-type: none"> • If left blank, the scheduled version of the process chain is displayed. • If specified, the instance data for the given process chain is displayed.

12.22.5 Output

- stdout: List of process chain processes.
- stderr: UNV messages.

12.22.6 Exit Codes

If logid is specified:

- If no logid:0 on success.
- Non-zero on error.

If logid is not specified, use exit code mappings:

- 'R' - Red: pcredec.
- 'G' - Green: pcgreenec.
- 'X' - Aborted: pcabortedec.

- 'A' - Active: pactiveec.

12.23 DISPLAY PROCESS CHAIN LOG - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.23.1 Description

The DISPLAY PROCESS CHAIN LOG command displays the SAP log associated with the process chain.

12.23.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY PROCESS CHAIN command, using the command line, long form of its [configuration options](#).

```
-display process_chain_log
  
-chainid
chainid [
  
-logid
logid]
```

12.23.3 Command Argument

The DISPLAY PROCESS CHAIN LOG command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY PROCESS CHAIN LOG command argument, **process_chain_log**, requests the display of the the SAP log associated with the process chain.

12.23.4 Configuration Options

The following table describes all DISPLAY PROCESS CHAIN LOG configuration options and provides the command line, long form of each option illustrated in the DISPLAY PROCESS CHAIN LOG [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
CHAIN_ID	-chainid	Chain ID of process chain whose process chain log is to be displayed.
LOG_ID	-logid	Log ID of process chain whose process chain log is to be displayed.

12.23.5 Output

- stdout: Process Chain log.
- stderr: UNV messages.

12.23.6 Exit Codes

- 0 on success.
- Non-zero on error.

12.24 DISPLAY PROCESS CHAIN START CONDITION - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.24.1 Description

The DISPLAY PROCESS CHAIN START CONDITION command displays the SAP start condition for the specified process chain.

12.24.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY PROCESS CHAINS command, using the command line, long form of its [configuration options](#).

```
-display process_chain_start_condition
  
-chainid
  
chainid
```

12.24.3 Command Argument

The DISPLAY PROCESS CHAIN START CONDITION command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY PROCESS CHAIN START CONDITION command argument, **process_chain_start_condition**, requests the display of the SAP start condition for the specified process chain.

12.24.4 Configuration Options

The following table describes all DISPLAY PROCESS CHAIN START CONDITION configuration options and provides the command line, long form of each option illustrated in the DISPLAY PROCESS CHAIN START CONDITION [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
CHAIN_ID	-chainid	ID of process chain whose start condition is to be displayed.

12.24.5 Output

- stdout: Start condition.
- stderr: UNV messages.

12.24.6 Exit Codes

- 0 on success.
- Non-zero on error.

12.25 DISPLAY PROCESS CHAIN STATUS - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.25.1 Description

The DISPLAY PROCESS CHAIN STATUS command displays the current status of the process chain. The exit code will reflect the status.

Note

This command requires the SAP system to calculate the status of each process within the process chain. For complex chains, the command can put load on the system if called with high frequency.

12.25.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY PROCESS CHAIN STATUS command, using the command line, long form of its [configuration options](#).

```
-display status
  
-chainid
chainid [
  
-logid
logid]
```

12.25.3 Command Argument

The DISPLAY PROCESS CHAIN STATUS command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY PROCESS CHAIN STATUS command argument, **status**, requests the display of the current status of the process chain.

12.25.4 Configuration Options

The following table describes all DISPLAY PROCESS CHAIN STATUS configuration options and provides the command line, long form of each option illustrated in the DISPLAY PROCESS CHAIN STATUS [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
CHAIN_ID	-chainid	ID of process chain whose status is to be displayed.
LOG_ID	-logid	Log ID of process chain instance whose status is to be displayed.

12.25.5 Output

- stdout: Statement indicating the status of the process chain.
- stderr: UNV messages.

12.25.6 Exit Codes

Use exit code mappings:

- 'R' - Red: pcredec.
- 'G' - Green: pcgreenec.
- 'X' - Aborted: pcabortedec.
- 'A' - Active: pactiveec.

12.26 DISPLAY PROCESS CHAINS - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.26.1 Description

The DISPLAY PROCESS CHAINS command displays a list of process chains from the SAP system that meet the specified criteria.

12.26.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY PROCESS CHAINS command, using the command line, long form of its [configuration options](#).

```
-display process_chains -chainid chainid [-chaindesc description]
```

12.26.3 Command Argument

The DISPLAY PROCESS CHAINS command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY PROCESS CHAINS command argument, **process_chains**, requests the display of a list of process chains from the SAP system.

12.26.4 Configuration Options

The following table describes all DISPLAY PROCESS CHAINS configuration options and provides the command line, long form of each option illustrated in the DISPLAY PROCESS CHAINS [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
CHAIN_ID	-chainid	ID mask of process chains to be displayed.
CHAIN_DESCRIPTION	-chaindesc	Text description mask for process chains to be displayed.

12.26.5 Output

- stdout: List of process chains.
- stderr: UNV messages.

12.26.6 Exit Codes

- 0 on success.
- Non-zero on error.

12.27 DISPLAY QSTATE - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.27.1 Description

The DISPLAY QSTATE command displays the state of a specific Batch Input / BDC session queue in an SAP system.

12.27.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY QSTATE command, using the command line, long form of its [configuration options](#).

```
-display qstate -qid queueid
```

12.27.3 Command Argument

The DISPLAY QSTATE command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY QSTATE command argument, **qstate**, requests the state of a queue used to process a batch input session. See [DISPLAY QSTATE Exit Codes](#) for a complete list of queue state exit codes.

12.27.4 Configuration Options

The following table describes all DISPLAY QSTATE configuration options and provides the command line, long form of each option illustrated in the DISPLAY QSTATE [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
QUEUE_ID	-qid	Queue identifier associated with the batch input session.

12.28 DISPLAY REPORTS - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.28.1 Description

The DISPLAY REPORTS command displays a list of ABAP reports that match the specified criteria.

12.28.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY REPORTS command, using the command line, long form of its [configuration options](#).

```
-display reports -abapname abapmask -count max_hit_count
```

12.28.3 Command Argument

The DISPLAY REPORTS command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY REPORTS command argument, **reports**, requests the display of a list of ABAP reports that match the specified criteria.

12.28.4 Configuration Options

The following table describes all DISPLAY REPORTS configuration options and provides the command line, long form of each option illustrated in the DISPLAY REPORTS [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
ABAP_NAME	abapname	Complete ABAP name or a mask used to select SAP ABAP reports that match the mask.
MAX_HIT_COUNT	-count	Maximum number of ABAP reports to be returned.

12.29 DISPLAY SELECT - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.29.1 Description

The DISPLAY SELECT command displays a variety of attributes for a list of SAP jobs that match the specified criteria.

12.29.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY SELECT command, using the command line, long form of its [configuration options](#).

```
-display select -jobname jobmask
  [-jobid idmask]
  [-selusername userid]
  [-fromdate date]
  [-todate date]
  [-fromtime time]
  [-totime time]
  [-nodate {yes|no}]
  [-withpred {yes|no}]
  [-released {yes|no}]
  [-scheduled {yes|no}]
  [-ready {yes|no}]
  [-running {yes|no}]
  [-finished {yes|no}]
```

```
[-aborted {yes|no}]
[-output output-field-list]
```

12.29.3 Command Argument

The DISPLAY SELECT command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY SELECT command argument, **select**, requests the display of all jobs matching the **jobmask** and any additional selection criteria specified. The default output for this command is the job name and job ID for each job found. However, additional fields can be printed using the **-output** option.

Note

This command is not available on SAP 3.1 and SAP 4.0 systems.

12.29.4 Configuration Options

The following table describes all DISPLAY SELECT configuration options and provides the command line, long form of each option illustrated in the DISPLAY SELECT [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
FROM_DATE	-fromdate	Earliest date to use for job selection or syslog request.
FROM_TIME	-fromtime	Earliest time to use for job selection or syslog request.
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.
NO_START_DATE	-nodate	Specification for whether or not to include jobs with no start date in selection criteria.
OUTPUT_FIELD_LIST	-output	Additional fields to write for the select command.
STATUS_ABORTED	-aborted	Specification for whether or not to include jobs with status aborted in selection criteria.
STATUS_FINISHED	-finished	Specification for whether or not to include jobs with status finished in selection criteria.
STATUS_READY	-ready	Specification for whether or not to include jobs with status ready in selection criteria.

Configuration Option Name	Command Line Long Form	Description
STATUS_RELEASED	-released	Specification for whether or not to include jobs with status released in selection criteria.
STATUS_RUNNING	-running	Specification for whether or not to include jobs with status running in selection criteria.
STATUS_SCHEDULED	-scheduled	Specification for whether or not to include jobs with status scheduled in selection criteria.
TO_DATE	-todate	Latest date to use for job selection or syslog request.
TO_TIME	-totime	Latest time to use for job selection or syslog request.
USER_NAME	-selusername	User ID associated with a job.
WITH_PREDECESSOR	-withpred	Specification for whether or not to include jobs with start after predecessor in selection criteria.

12.30 DISPLAY SELECTION SCREEN - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.30.1 Description

The DISPLAY SELECTION SCREEN command displays information about the selection fields of an ABAP program.

12.30.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY SELECTION SCREEN command, using the command line long form of its [configuration options](#).

```
-display selscreen -abapname abap_program_name
```

12.30.3 Command Argument

The DISPLAY CM PROFILES command can be expressed as either:

- -D: Short form
- -display: Long form

The DISPLAY SELECTION SCREEN command argument, **selscreen**, requests the display of selection field information for the specified ABAP program.

12.30.4 Configuration Options

The following table describes all DISPLAY SELECTION SCREEN configuration options and provides the command line, long form of each option illustrated in the DISPLAY SELECTION SCREEN [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
ABAP_NAME	-abapname	Name of ABAP program whose selection screen is to be displayed.

12.31 DISPLAY SPOOLLIST - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.31.1 Description

The DISPLAY SPOOLLIST command displays a spool list from an SAP system. The spool list can be identified by jobname/jobid/stepnumber or, by specifying the spool list ID.

12.31.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY SPOOLLIST command, using the command line long form of its [configuration options](#).

```
-display spoolist {-jobname jobname -jobid jobid -stepnum stepnumber | -spool_id id}
-max_spool_size size -maxspoolsizeexceededec exitcode
[-spool_codepage codepage]
[-spool_recv_buffer size]
[-transtab translation_table]
[-first_page page]
[-last_page page]
```

12.31.3 Command Argument

The DISPLAY SPOOLLIST command can be expressed as either:

- -D: Short form
- -display: Long form

The DISPLAY SPOOLLIST command argument, **spoolist**, requests the display of a job step's spoolist.

12.31.4 Configuration Options

The following table describes all DISPLAY SPOOLLIST configuration options and provides the command line, long form of each option illustrated in the DISPLAY SPOOLLIST [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
EXIT_MAX_SPOOL_SIZE_EXCEEDED	-maxspoolsizeexceededec	Minimum exit code that will be set if an attempt is made to return a spool list that exceeds the maximum size for job logs as specified by the MAX_SPOOL_LIST_SIZE USAP configuration option.
FIRST_PAGE	-first_page	Starting page from which a spool list will be returned.
LAST_PAGE	-last_page	Last page of a spool list to be returned.
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.
MAX_SPOOL_LIST_SIZE	-max_spool_size	Maximum size for spool lists.
SPOOL_CODEPAGE	-spool_codepage	Codepage used for transferring spool lists from SAP system.
SPOOL_ID	-spool_id	Spool request number in an SAP system.
SPOOL_RECEIVE_BUFFER	-spool_recv_buffer	Size of the blocks (number of pages) used when transferring spool lists.
STEP_NUMBER	-stepnum	Step number of the SAP job step.
TRANSLATION_TABLE	-transtab	Spoolist translation table file to use for formatting returned spoollists.

12.32 DISPLAY STATUS - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)
- [Exit Codes](#)

12.32.1 Description

The DISPLAY STATUS command displays the current status for an SAP job. The status is printed to standard output and the exit code of **usap** indicates the status. See [Universal Connector for SAP Exit Codes](#) for a complete list of job status exit codes.

12.32.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY STATUS command, using the command line, long form of its [configuration options](#).

```
-display status -jobname jobname -jobid jobid
  [-activeec exitcode]
  [-readyec exitcode]
  [-scheduledec exitcode]
  [-releasedec exitcode]
  [-terminatedec exitcode]
  [-finishedec exitcode]
```

12.32.3 Command Argument

The DISPLAY STATUS command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY STATUS command argument, **status**, requests a job status.

The status is printed to standard output and the exit code of USAP indicates the status. See Section 2.5 Exit Codes for a complete list of job status exit codes.

12.32.4 Configuration Options

The following table describes all DISPLAY STATUS configuration options and provides the command line, long form of each option illustrated in the DISPLAY STATUS [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
EXIT_JOB_ACTIVE	-activeec	USAP exit code for the SAP job active status.
EXIT_JOB_FINISHED	-finishedec	USAP exit code for the SAP job finished status.
EXIT_JOB_READY	-readyec	USAP exit code for the SAP job ready status.
EXIT_JOB_RELEASED	-releasedec	USAP exit code for the SAP job released status.
EXIT_JOB_SCHEDULED	-scheduledec	USAP exit code for the SAP job scheduled status.
EXIT_JOB_TERMINATED	-terminatedec	USAP exit code for the SAP job terminated status.
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.

12.32.5 Exit Codes

If the DISPLAY STATUS command is specified, Universal Connector will map the current status of the job to the user-definable job exit code parameters.

The following table illustrates this mapping; Universal Connector default values are listed in parentheses.

Process Chain Current Status in SAP	Exit Code
'X' - Aborted	pcaborted_exit_code (8)
'R' - Red	pcred_exit_code (4)
'A' - Active	pcactive_exit_code (10)
'G' - Green	pcgreen_exit_code (0)
Error in Universal Connector processing (see All Other Command Exit Codes)	> 200
InfoPackage Current Status in SAP	Exit Code
'Y' - Yellow (Active)	ipyellow_exit_code (10)
'R' - Red	ipred_exit_code (4)
'G' - Green	ipgreen_exit_code (0)
Error in Universal Connector processing (see All Other Command Exit Codes)	> 200

12.33 DISPLAY SYSLOG - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.33.1 Description

The DISPLAY SYSLOG command displays a portion of an SAP syslog that meets the specified date/time constraints.

12.33.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY SYSLOG command, using the command line, long form of its [configuration options](#).

```
-display syslog -fromdate date -todate date
    [-fromtime time]
    [-totime time]
    [-pagelimit limit]
    [-targetserver server
```

12.33.3 Command Argument

The DISPLAY SYSLOG command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY SYSLOG command argument, **syslog**, requests entries from an SAP System syslog for a specified date and time range.

12.33.4 Configuration Options

The following table describes all DISPLAY SYSLOG configuration options and provides the command line, long form of each option illustrated in the DISPLAY SYSLOG [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
FROM_DATE	-fromdate	Earliest date to use for job selection or syslog request.
FROM_TIME	-fromtime	Earliest time to use for job selection or syslog request.
PAGE_LIMIT	-pagelimit	Maximum number of pages that can be returned in the syslog report.
TARGET_SERVER	-targetserver	Name of the server whose syslog will be read.
TO_DATE	-todate	Latest date to use for job selection or syslog request.
TO_TIME	-totime	Latest time to use for job selection or syslog request.

12.34 DISPLAY VARIANT - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.34.1 Description

The DISPLAY VARIANT command displays the contents of a specified variant.

Note

DISPLAY VARIANT requires XBP interface 2.0.

(See [Client Fault Tolerance - Universal Connector](#) for information on XBP interface 2.0.)

12.34.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY VARIANT command, using the command line, long form of its [configuration options](#).

```
-display variant -variant variantname -varlang language
-abapname abapname
```

12.34.3 Command Argument

The DISPLAY VARIANT command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY VARIANT command argument, **variant**, displays the specified SAP variant.

12.34.4 Configuration Options

The following table describes all DISPLAY VARIANT configuration options and provides the command line, long form of each option illustrated in the DISPLAY VARIANT [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
ABAP_NAME	-abapname	Name of an ABAP program in an SAP system.
VARIANT	-variant	Pre-existing SAP variant whose contents will be displayed.
VARIANT_LANGUAGE	-varlang	Preferred language in which to return the variant description.

12.35 DISPLAY VARIANTS - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.35.1 Description

The DISPLAY VARIANTS command displays the variants available for the specified ABAP program.

12.35.2 Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY VARIANTS command, using the command line, long form of its [configuration options](#).

```
-display variants -abapname abapname -varselopt {A|B}
```

12.35.3 Command Argument

The DISPLAY VARIANTS command can be expressed as either:

- -D (Short form)
- -display (Long form)

The DISPLAY VARIANTS command argument, **variants**, displays the variants defined for ABAP program **abapname**.

- Using **-varselopt A** will display the variants that are available for batch and dialog mode.
- Using **-varselopt B** will display the variants that are available for batch mode only.

12.35.4 Configuration Options

The following table describes all DISPLAY VARIANTS configuration options and provides the command line, long form of each option illustrated in the DISPLAY VARIANTS [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
ABAP_NAME	-abapname	Name of an ABAP program in an SAP system.
VARIANT_SELECTION	-varselopt	Specification to display either variants available for batch and dialog mode or variants available only for batch mode.

12.36 GENERATE JOB DEFINITION FILE - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.36.1 Description

The GENERATE JOB DEFINITION FILE command generates a USAP job definition file based on a model SAP job. The generated definition file is written to standard output.

12.36.2 Command Line Syntax

The following figure illustrates the command line syntax of the GENERATE JOB DEFINITION FILE command, using the command line, long form of its [configuration options](#).

```
-generate jobdef -jobname jobname [-jobid jobid] [-model_status option] [-  
resolve_multi_model option]
```

12.36.3 Command Argument

The GENERATE JOB DEFINITION FILE command can be expressed as:

- -generate (Long form)

The GENERATE JOB DEFINITION FILE command argument, **jobdef**, generates a usap job definition file based on the specified SAP job definition. The generated job definition is printed to standard output.

This command option makes it easy to create complex job definitions based on pre-existing SAP jobs. It also eliminates typing errors that can be introduced by manually coding job definition files.

12.36.4 Configuration Options

The following table describes all GENERATE JOB DEFINITION FILE configuration options and provides the command line, long form of each option illustrated in the GENERATE JOB DEFINITION FILE [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
JOB_ID	-jobid	Job ID of an existing SAP job to select as the model job.
JOB_NAME	-jobname	Name of an existing SAP job to select as the model job.

Configuration Option Name	Command Line Long Form	Description
MODEL_STATUS	-model_status	For operations that work with model jobs without providing a job ID to explicitly target a specific job on the SAP system, restricts the model job candidates to the specified job status.
RESOLVE_MULTI_MODEL	-resolve_multi_model	For operations that work with model jobs without providing a job ID to explicitly target a specific job on the SAP system, controls the behavior when multiple candidate jobs are found.

12.37 GENERATE VARIANT DEFINITION FILE - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.37.1 Description

The GENERATE VARIANT DEFINITION FILE command generates a USAP variant definition file based on a model SAP variant. The generated definition file is written to standard output.

Note

GENERATE VARIANT DEFINITION FILE requires XBP interface 2.0.

(See the [Client Fault Tolerance - Universal Connector](#) for information on XBP interface 2.0.)

12.37.2 Command Line Syntax

The following figure illustrates the command line syntax of the GENERATE VARIANT DEFINITION FILE command, using the command line, long form of its [configuration options](#).

```
-generate vardef -variant variantname -abapname abapname
```

12.37.3 Command Argument

The GENERATE VARIANT DEFINITION FILE command can be expressed as:

- -generate (Long form)

The GENERATE VARIANT DEFINITION FILE command argument, **vardef**, generates a usap variant definition file based on the specified SAP variant. The generated variant definition is printed to standard output.

This command option makes it easy to create complex variant definitions based on pre-existing SAP variants. It also eliminates typing errors that can be introduced by manually coding variant definition files.

12.37.4 Configuration Options

The following table describes all GENERATE VARIANT DEFINITION FILE configuration options and provides the command line, long form of each option illustrated in the GENERATE VARIANT DEFINITION FILE [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
VARIANT	-variant	Pre-existing SAP variant name to use as the model variant.
ABAP_NAME	-abapname	Name of an ABAP program in an SAP system to which the model variant belongs.

12.38 INTERRUPT PROCESS CHAIN - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.38.1 Description

The INTERRUPT PROCESS CHAIN command removes the specified process chain from the schedule. Running processes will not be stopped.

Note

Interrupted process chains are not restartable.

12.38.2 Command Line Syntax

The following figure illustrates the command line syntax of the INTERRUPT PROCESS CHAIN command, using the command line, long form of its [configuration options](#).

`-interrupt_process_chain`

`-chainid`

chainid

12.38.3 Configuration Options

The following table describes all INTERRUPT PROCESS CHAIN configuration options and provides the command line, long form of each option illustrated in the INTERRUPT PROCESS CHAIN [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
<code>CHAIN_ID</code>	<code>-chainid</code>	ID of process chain that is to be interrupted.

12.38.4 Output

- stdout: nothing.
- stderr: UNV messages.

12.38.5 Exit Codes

- 0 on success.
- non-zero on error.

12.39 MASS ACTIVITY WAIT - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.39.1 Description

The MASS ACTIVITY WAIT command allows USAP to wait for (or reconnect and wait for) a started mass activity job and monitor it, and all its interval jobs, through completion.

12.39.2 Command Line Syntax

The following figure illustrates the command line syntax of the MASS ACTIVITY WAIT command, using the command line, long form of its [configuration options](#).

```

-mawait-jobname jobname -jobid jobid
  [-poll seconds]
  [-job_stat_check option]
  [-job_stat_check_interval seconds]
  [-joblog {yes|no}]
  [-applog {yes|no}]
  [-printapprc {yes|no}]
  [-useapprc {yes|no}]
  [-transtab translation_table]
  [-purge]
  [-syslog {yes|no}
    [-syslogpre seconds]
    [-syslogpost seconds]
  ]
  [-terminatedec exitcode]
  [-finishedec exitcode]
  [-maxspoolsizeexceedec exitcode]
    
```

12.39.3 Configuration Options

The following table describes all MASS ACTIVITY WAIT configuration options and provides the command line, long form of each option illustrated in the MASS ACTIVITY WAIT [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
MASS_ACTIVITY_WAIT	-mawait	Causes USAP to wait for the SAP mass activity jobs to complete processing.
ENABLE_JOB_STATUS_CHECK	-job_stat_check	Specification to enable or disable calls to SAP function module BAPI_XBP_JOB_STATUS_CHECK, which are used to synchronize the actual job status with the R/3 stored status.
EXIT_JOB_FINISHED	-finishedec	USAP exit code for the SAP job finished status.
EXIT_JOB_TERMINATED	-terminatedec	USAP exit code for the SAP job terminated status.
EXIT_MAX_SPOOL_SIZE_EXCEEDED	-maxspoolsizeexceedec	Minimum exit code that will be set if an attempt is made to return a spool list that exceeds the maximum size for job logs as specified by the MAX_SPOOL_LIST_SIZE USAP configuration option.
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.
PURGE_JOB	-purge	Purge job that has completed processing from SAP system.
RETURN_APPLICATION_LOG	-applog	Specification for whether or not the job's application log is returned.
RETURN_APPLICATION_RC	-printapprc	Specification for whether or not the job's application return codes are returned.
RETURN_JOB_LOG	-joblog	Specification for whether or not the job's joblog is returned.

Configuration Option Name	Command Line Long Form	Description
STATUS_CHECK_INTERVAL	-job_stat_check_interval	Length of time that can elapse, without a change in job status, before a call will be made to synchronize the actual job status with the SAP stored status.
SYSLOG	-syslog	Specification for whether or not a syslog report is generated on standard error if the job does not complete successfully.
SYSLOG_POST_TIME	-syslogpost	Length of time to add to the job end time when calculating the to time for the syslog report.
SYSLOG_PRE_TIME	-syslogpre	Length of time to subtract from the job release time when calculating the from time for the syslog report.
TRANSLATION_TABLE	-transtab	Spoolist translation table file to use for formatting returned spoolists.
USAP_POLL	-poll	Length of time to wait between job status calls to the SAP system.
USE_APPLICATION_RC	-useapprc	Specification for whether or not the job's application return codes are used to determine the exit code of the USAP job.

12.40 MODIFY JOB - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.40.1 Description

The MODIFY JOB command is used to modify an SAP job that already exists in an SAP system. A USAP job definition file is used to specify the modifications.

Job definition files are used to define new SAP jobs and to modify existing SAP jobs. The same syntactical rules apply to the job definition file in both cases with the following exceptions when modifying jobs:

1. SAP job identifier must be specified in order to identify the existing job to modify. The job identifier is specified in the job definition file using the JOBCOUNT keyword of the Job Header statement or the **-jobid** option of the MODIFY command. If both are used, the **-jobid** option overrides the JOBCOUNT value.
2. ABAP Step and External Step job definition statements must specify the step number of the existing job step to modify. The step number is specified using the STEP_NUMBER keyword of the ABAP Step and External Step job definition statements.

The parameter values specified in job definition file replace existing values in the SAP job definition. If a parameter is not specified in the job definition file, no change is made to the corresponding value in the existing SAP job definition.

See [Universal Connector for SAP Job Definition Files](#) for additional information on the job definition file.

12.40.2 Command Line Syntax

The following figure illustrates the command line syntax of the MODIFY JOB command, using the command line, long form of its [configuration options](#).

```
-modify filename/ddname
  [-jobid jobid]
  [-start
    [-immediate]
    [-targetserver server]
    [-wait
      [-poll seconds]
      [-joblog {yes|no}]
      [-spoollist {yes|no}]
      [-rawspool {yes|no}]
      [-purge]
      [-waitchild {yes|no}]
      [-joblogchild {yes|no|error}]
      [-spoollistchild {yes|no}]
      [-purgechild {yes|no}]
    ]
  ]
```

12.40.3 Command Argument

The MODIFY JOB command can be expressed as either:

- -M (Short form)
- -modify (Long form)

The MODIFY JOB command argument, *filename/ddname*, specifies the name of the job definition file that contains the modification information.

See [Universal Connector for SAP Job Definition Files](#) for additional information on the variant definition file.

12.40.4 Configuration Options

The following table describes all MODIFY JOB configuration options and provides the command line, long form of each option illustrated in the MODIFY JOB [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
IMMEDIATE_JOB	-immediate	Causes the job to be started immediately.
JOB_ID	-jobid	Job ID of an existing SAP job to be modified.
JOB_LOG_CHILD	-joblogchild	Controls the printing of job logs for child jobs.
PURGE_CHILD_JOBS	-purgechild	Controls the purging of child jobs.

Configuration Option Name	Command Line Long Form	Description
PURGE_JOB	-purge	Purge job that has completed processing from SAP system.
RAW_SPOOL	-rawspool	Specification for whether the SAP spool lists will be returned from the SAP system in raw or plain format.
RETURN_JOB_LOG	-joblog	Specification for whether or not the job's joblog is returned.
RETURN_SPOOL_LIST	-spoolist	Specification for whether or not the spoolists of all job steps are returned.
SPOOL_LIST_CHILD	-spoolistchild	Controls the printing of spoolists for child jobs.
START	-start	Starts the newly defined job.
TARGET_SERVER	-targetserver	Server on which the job will run.
USAP_POLL	-poll	Length of time to wait between job status calls to the SAP system.
WAIT	-wait	Wait for the SAP job to complete processing.
WAIT_FOR_CHILD_JOBS	-waitchild	Controls the monitoring of child jobs.

12.41 MODIFY VARIANT - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)

12.41.1 Description

The MODIFY VARIANT command is used to modify an SAP variant that already exists in an SAP system. A USAP variant definition file is used to specify the modifications.

Note

MODIFY VARIANT requires XBP interface 2.0.

(See [Client Fault Tolerance - Universal Connector](#) for information on XBP interface 2.0.)

Variant definition files are used to define new SAP variants and to modify existing SAP variants. The same syntactical rules apply to the variant definition file in both cases.

The parameter values specified in a variant definition file replace existing values in the SAP variant definition. If a parameter is not specified in the variant definition file, no change is made to the corresponding value in the existing SAP variant definition.

See [Variant Definition File - USAP](#) for additional information on the variant definition file.

12.41.2 Command Line Syntax

The following figure illustrates the command line syntax - using the command line, long form of the configuration options - of the MODIFY VARIANT command.

```
-modify filename/ddname
```

12.41.3 Command Argument

The MODIFY VARIANT command can be expressed as either:

- -M (Short form)
- -modify (Long form)

The MODIFY VARIANT command argument, *filename/ddname*, specifies the name of the variant definition file that contains the modification information.

See [Variant Definition File - USAP](#) for additional information on the variant definition file.

12.42 PURGE FS JOB NETWORK - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.42.1 Description

The PURGE FS JOB NETWORK command deletes a defined SAP FS job network.

12.42.2 Command Line Syntax

The following figure illustrates the command line syntax of the PURGE FS JOB NETWORK command, using the command line, long form of its [configuration options](#).

```
-purge  
  
-jnetid  
jobnetid  
  
-jnetpcid  
processid
```

12.42.3 Configuration Options

The following table describes all PURGE FS JOB NETWORK configuration options and provides the command line, long form of each option illustrated in the PURGE FS JOB NETWORK [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
JOB_NETWORK_ID	-jnetid	Network identifier for the pre-existing SAP FS job network being started.
JOB_PROCESS_ID	-jnetprcid	Process ID of an existing SAP FS job network process to start.

12.43 PURGE JOB - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.43.1 Description

The PURGE JOB command deletes a defined SAP job, its joblog, and all of its spoolists.

This command is not available on SAP 3.1 and SAP 4.0 systems.

12.43.2 Command Line Syntax

The following figure illustrates the command line syntax of the PURGE JOB command, using the command line, long form of its [configuration options](#).

```
-purge -jobname jobname -jobid jobid
```

12.43.3 Configuration Options

The following table describes all PURGE JOB configuration options and provides the command line, long form of each option illustrated in the PURGE JOB [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.

Configuration Option Name	Command Line Long Form	Description
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.

12.44 PURGE VARIANT - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.44.1 Description

The PURGE VARIANT command deletes a variant from an SAP system.

12.44.2 Command Line Syntax

The following figure illustrates the command line syntax of the PURGE VARIANT command, using the command line, long form of its [configuration options](#).

```
-purge -abapname abapname -variant variant
```

12.44.3 Configuration Options

The following table describes all PURGE VARIANT configuration options and provides the command line, long form of each option illustrated in the PURGE VARIANT [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
ABAP_NAME	-abapname	Name of the ABAP program for which the variant will be deleted.
VARIANT	-variant	Name of the variant to be deleted.

12.45 RAISE EVENT - USAP Command

- [Description](#)
- [Command Line Syntax](#)

- [Configuration Options](#)

12.45.1 Description

The RAISE EVENT command raises the specified SAP background processing event.

12.45.2 Command Line Syntax

The following figure illustrates the command line syntax of the RAISE EVENT command, using the command line, long form of its [configuration options](#).

```
-raise_bp_event
-event_id
id
-event_parm
parm
```

12.45.3 Configuration Options

The following table describes all RAISE EVENT configuration options and provides the command line, long form of each option illustrated in the RAISE EVENT [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
EVENT_ID	-event_id	Name of the event.
EVENT_PARAMETER	-event_parm	Optional parameter value for the event.

12.46 RESTART PROCESS CHAIN - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.46.1 Description

The RESTART PROCESS CHAIN command restarts failed and cancelled processes (R or X) in the specified process chain instance.

12.46.2 Command Line Syntax

The following figure illustrates the command line syntax of the RESTART PROCESS CHAIN command, using the command line, long form of its [configuration options](#).

```
-restart_process_chain
-chainid
chainid
-logid
logid
```

12.46.3 Configuration Options

The following table describes all RESTART PROCESS CHAIN configuration options and provides the command line, long form of each option illustrated in the RESTART PROCESS CHAIN [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
CHAIN_ID	-chainid	Chain ID of process chain to be restarted.
LOG_ID	-logid	Log ID of process chain to be restarted.

12.46.4 Output

- stdout: nothing.
- stderr: UNV messages.

12.46.5 Exit Codes

- 0 on success.
- non-zero on error.

12.47 RUN FS JOB NETWORK - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.47.1 Description

The RUN FS JOB NETWORK command performs the following actions:

1. Defines a new SAP FS job network based on a USAP FS Job Network definition file.
2. Starts the defined FS job network.
3. Waits for the started FS job network to complete.
4. Purges the FS job network from the SAP system.

The exit code of **usap** will indicate the completion status of the FS job network.

See WAIT for FS JOB NETWORK Exit Codes in [Universal Connector for SAP Exit Codes](#) for a complete list of job status exit codes.

12.47.2 Command Line Syntax

The following figure illustrates the command line syntax of the RUN FS JOB NETWORK command, using the command line, long form of its [configuration options](#).

```
-run {filename/ddname |
-jnetid
jobnetid
-jnetprcid
processid}
```

12.47.3 Command Argument

The RUN FS JOB command can be expressed as either:

- -R (Short form)
- -run (Long form)

The RUN FS JOB command argument, *filename/ddname*, specifies the name of the file that contains the FS job network definition.

See [FS Job Network Definition File - USAP](#) for additional information on the FS job network definition file.

12.47.4 Configuration Options

The following table describes all RUN FS JOB NETWORK configuration options and provides the command line, long form of each option illustrated in the RUN FS JOB NETWORK [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
JOB_NETWORK_ID	-jnetid	Network identifier for the pre-existing SAP FS job network being started.
JOB_PROCESS_ID	-jnetpcid	Process ID of an existing SAP FS job network process to start.

12.48 RUN INFOPACKAGE - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.48.1 Description

The RUN INFOPACKAGE command performs the following actions:

1. Starts an InfoPackage.
2. Waits for the InfoPackage request to complete.
3. Returns status messages for the completed Infopackage request.

12.48.2 Command Line Syntax

The following figure illustrates the command line syntax of the RUN INFOPACKAGE command, using the command line, long form of its [configuration options](#).

```
-run -infopackage mask -jobname jobname
```

12.48.3 Configuration Options

The following table describes all RUN INFOPACKAGE configuration options and provides the command line, long form of each option illustrated in the RUN INFOPACKAGE [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
INFO_PACKAGE	-infopackage	Name of the mask InfoPackage to select.
JOB_NAME	-jobname	Job name suffix to be given to the SAP batch job that processes the InfoPackage.

12.48.4 Output

- stdout: Request ID associated with the InfoPackage start.
- stderr: InfoPackage processing messages and UNV messages.

12.48.5 Exit Codes

- 0 on success.
- Non-zero on error.

12.49 RUN JOB - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.49.1 Description

The RUN JOB command performs the following actions:

1. Defines a new SAP, job based on either a job definition specification or an existing SAP job definition.
2. Starts the defined job.
3. Waits for the job to complete.
4. Prints the job's joblog to standard error and the spoolists to standard output.
5. Purges the job from the SAP system.

The exit code of USAP will indicate the completion status of the SAP job.

See **WAIT for JOB Exit Codes** in [Universal Connector for SAP Exit Codes](#) for a complete list of job status exit codes.

12.49.2 Command Line Syntax

The following figure illustrates the command line syntax of the RUN JOB command, using the command line, long form of its [configuration options](#).

```

-run {filename/ddname | -jobname jobname [-jobid jobid]}
  [-target_jobname jobname]
  [-poll seconds]
  [-job_stat_check option]
  [-job_stat_check_interval seconds]
  [-model_status option]
  [-resolve_multi_model option]
  [-targetserver server]
  [-target_variant job step,variant name;job step,variant name;...]
  [-immediate]
  [-activeec exitcode]
  [-readyec exitcode]
  [-scheduledec exitcode]
  [-releasedec exitcode]
  [-terminatedec exitcode]
  [-finishedec exitcode]
  [-max_log_size size]
  [-max_spool_size size]
  [-maxspoolsizeexceededec exitcode]
  [-first_page page]
  [-last_page page]
  [-server_stop_conditions codes]
  [-spool_codepage codepage]
  [-spool_recv_buffer size]
  [-bdcwait
    [-bdcjobnameptrn pattern]
    [-bdcjobidptrn pattern]
    [-bdcqidptrn pattern]
    [-qtobecreatedec exitcode]
    [-qunprocessedec exitcode]
    [-qinbackgroundec exitcode]
    [-qfinishedec exitcode]
    [-qerrorec exitcode]
  ]

```

12.49.3 Command Argument

The RUN JOB command can be expressed as either:

- -R (Short form)
- -run (Long form)

The RUN JOB command argument, *filename/ddname*, specifies the name of the file that contains the job definition.

See [Universal Connector for SAP Job Definition Files](#) for additional information on the job definition file.

12.49.4 Configuration Options

The following table describes all RUN JOB configuration options and provides the command line, long form of each option illustrated in the RUN JOB [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
BATCH_MONITOR	-bdcwait	Causes USAP to perform batch input monitoring for the started job.
ENABLE_JOB_STATUS_CHECK	-job_stat_check	Specification to enable or disable calls to SAP function module BAPI_XBP_JOB_STATUS_CHECK, which are used to synchronize the actual job status with the R/3 stored status.
EXIT_JOB_ACTIVE	-activeec	USAP exit code for the SAP job active status.
EXIT_JOB_FINISHED	-finishedec	USAP exit code for the SAP job finished status.
EXIT_JOB_READY	-readyec	USAP exit code for the SAP job ready status.
EXIT_JOB_RELEASED	-releasedec	USAP exit code for the SAP job released status.
EXIT_JOB_SCHEDULED	-scheduledec	USAP exit code for the SAP job scheduled status.
EXIT_JOB_TERMINATED	-terminatedec	USAP exit code for the SAP job terminated status.
EXIT_MAX_SPOOL_SIZE_EXCEEDED	-maxspoolsizeexceedec	Minimum exit code that will be set if an attempt is made to return a spool list that exceeds the maximum size for job logs as specified by the MAX_SPOOL_LIST_SIZE USAP configuration option.
EXIT_QUEUE_BACKGROUND	-qinbackgroundec	USAP exit code for the SAP queue state S (in background).
EXIT_QUEUE_CREATED	-qtobecreatedec	USAP exit code for the SAP queue state C (to be created).
EXIT_QUEUE_ERROR	-qerrorec	USAP exit code for the SAP queue state E (error).
EXIT_QUEUE_FINISHED	-qfinishedec	USAP exit code for the SAP queue state F (finished).
EXIT_QUEUE_UNPROCESSED	-qunprocessedec	USAP exit code for the SAP queue state [USAP:] (unprocessed).
FIRST_PAGE	-first_page	Starting page from which a spool list will be returned.
LAST_PAGE	-last_page	Last page of a spool list to be returned.
IMMEDIATE_JOB	-immediate	Causes the job to be started immediately.
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.
JOB_ID_PATTERN	-bdcjobidptrn	Locates the header record and determines the offset of the job ID in the RSBDCSUB batch input processing report.
JOB_NAME	-jobname	Existing SAP job name to use as a model for the new job definition.
JOB_NAME_PATTERN	-bdcjobnameptrn	Locates the header record and determines the offset of the job name in the RSBDCSUB batch input processing report.
MAX_JOB_LOG_SIZE	-max_log_size	Maximum size for job logs.
MAX_SPOOL_LIST_SIZE	-max_spool_size	Maximum size for spool lists.
MODEL_STATUS	-model_status	For operations that work with model jobs without providing a job ID to explicitly target a specific job on the SAP system, restricts the model job candidates to the specified job status.

Configuration Option Name	Command Line Long Form	Description
QUEUE_ID_PATTERN	-bdcqidptrn	Locates the header record and determines the offset of the queue ID in the RSBDCSUB batch input processing report.
RESOLVE_MULTI_MODEL	-resolve_multi_model	For operations that work with model jobs without providing a job ID to explicitly target a specific job on the SAP system, controls the behavior when multiple candidate jobs are found.
SERVER_STOP_CONDITIONS	-server_stop_conditions	Exit code(s) of the executing Universal Connector process that should trigger the locally running Universal Broker to cancel the corresponding SAP job.
SPOOL_CODEPAGE	-spool_codepage	Codepage used for transferring spool lists from SAP system.
SPOOL_RECEIVE_BUFFER	-spool_rcv_buffer	Size of the blocks (number of pages) used when transferring spool lists.
STATUS_CHECK_INTERVAL	-job_stat_check_interval	Length of time that can elapse, without a change in job status, before a call will be made to synchronize the actual job status with the SAP stored status.
TARGET_JOB_NAME	-target_jobname	Name to give the newly created job.
TARGET_SERVER	-targetserver	Server on which the job will run.
TARGET_VARIANT	-target_variant	One or more replacement variants for ABAP program job steps in an SAP job.
USAP_POLL	-poll	Length of time to wait between job status calls to the SAP system.

12.50 RUN PROCESS CHAIN - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.50.1 Description

The RUN PROCESS CHAIN command performs the following actions:

1. Starts a process chain.
2. Waits for the process chain to complete.
3. Returns the process chain log.
4. Returns process logs.
5. Returns process spool lists.

12.50.2 Command Line Syntax

The following figure illustrates the command line syntax of the RUN PROCESS CHAIN command, using the command line, long form of its [configuration options](#).

```
-run -chainid chainid
```

12.50.3 Configuration Options

The following table describes all RUN PROCESS CHAIN configuration options and provides the command line, long form of each option illustrated in the RUN PROCESS CHAIN [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
CHAIN_ID	-chainid	ID of process chain to run.

12.50.4 Output

- stdout: Spool lists generated by processes in the process chain, if requested.
- stderr: UNV messages.

12.50.5 Exit Codes

Use exit code mappings:

- 'R' - Red: pcredec.
- 'G' - Green: pcgreenec.
- 'X' - Aborted: pcabortedec.

12.51 SET CM CRITERIA - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.51.1 Description

The SET CM CRITERIA command sets the criteria for a profile.

12.51.2 Command Line Syntax

The following figure illustrates the command line syntax of the SET CM CRITERIA command, using the command line, long form of its [configuration options](#).

```
-set_cm_criteria filename/ddname -profile_id id -profile_type type
```

12.51.3 Command Argument

The SET CM CRITERIA command argument, *filename/ddname*, specifies the name of a file that contains an XML description of the criteria hierarchy.

Refer to SAP documentation for detailed information about the relevant Document Type Definition.

12.51.4 Configuration Options

The following table describes all SET CM CRITERIA configuration options and provides the command line, long form of each option illustrated in the SET CM CRITERIA [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
PROFILE_ID	-profile_id	ID of the profile whose criteria is to be set.
PROFILE_TYPE	-profile_type	Type of the profile for which the criteria is to be set. For the default criteria types provided by SAP, the values are: <ul style="list-style-type: none"> • EVTHIS - identifies a criteria type for event history. • EVHIRO - identifies a criteria type for the reorganization of raised events. • INTERC - identifies a criteria type for job interception.

12.52 START FS JOBNET - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.52.1 Description

The START FS JOBNET command starts a specified FS job network on an SAP system.

12.52.2 Command Line Syntax

The following figure illustrates the command line syntax of the START FS JOBNET command, using the command line, long form of its [configuration options](#).

```
-start -jnetid jobnet_id -jnetprcid jobnet_process_id
      [-wait
        [-poll seconds]
        [-purge]
      ]
```

12.52.3 Configuration Options

The following table describes all START FS JOBNET configuration options and provides the command line, long form of each option illustrated in the START FS JOBNET [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
JOB_NETWORK_ID	-jnetid	Network identifier for the pre-existing SAP FS job network being started.
JOB_PROCESS_ID	-jnetprcid	Process ID of an existing SAP FS job network process to start.
PURGE_JOB	-purge	Purge job that has completed processing from SAP system.
USAP_POLL	-poll	Length of time to wait between job status calls to the SAP system.
WAIT	-wait	Wait for the SAP job to complete processing.

12.53 START INFOPACKAGE - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.53.1 Description

The START INFOPACKAGE command performs the following actions:

1. Starts an InfoPackage request on the SAP system.

2. Optionally, waits for the InfoPackage request to complete.

12.53.2 Command Line Syntax

The following figure illustrates the command line syntax of the START INFOPACKAGE command, using the command line, long form of its [configuration options](#).

```
-start -infopackage mask -jobname jobname
```

12.53.3 Configuration Options

The following table describes all START INFOPACKAGE configuration options and provides the command line, long form of each option illustrated in the START INFOPACKAGE [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
INFO_PACKAGE	-infopackage	Name of the mask InfoPackage to select.
JOB_NAME	-jobname	Job name suffix to be given to the SAP batch job that processes the InfoPackage.

12.53.4 Output

- stdout: Request ID associated with the InfoPackage start.
- stderr: InfoPackage processing messages and UNV messages.

12.53.5 Exit Codes

- 0 on success.
- Non-zero on error.

12.54 START JOB - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.54.1 Description

The START JOB command starts a currently defined SAP job.

12.54.2 Command Line Syntax

The following figure illustrates the command line syntax of the START JOB command, using the command line, long form of its [configuration options](#).

```

-start -jobname jobname [-jobid jobid]
  [-immediate]
  [-targetserver server]
  [-resolve_multi_model option]
  [-wait
    [-poll seconds]
    [-joblog {yes|no}]
    [-spoollist {yes|no}]
    [-rawspool {yes|no}]
    [-purge]
    [-waitchild {yes|no}]
    [-joblogchild {yes|no}]
    [-spoollistchild {yes|no}]
    [-purgechild {yes|no}]
    [-terminatedec exitcode]
    [-finishedec exitcode]
  ]
  [-bdcwait          [-bdcjobnameptrn pattern]
    [-bdcjobidptrn pattern]
    [-bdcqidptrn pattern]
    [-qtobecreatedec exitcode]
    [-qunprocessedec exitcode]
    [-qinbackgroundec exitcode]
    [-qfinishedec exitcode]
    [-qerrorec exitcode]
  ]

```

12.54.3 Configuration Options

The following table describes all START JOB configuration options and provides the command line, long form of each option illustrated in the START JOB [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
BATCH_MONITOR	-bdcwait	Causes USAP to perform batch input monitoring for the job being started.
EXIT_JOB_FINISHED	-finishedec	USAP exit code for the SAP job finished status.
EXIT_JOB_TERMINATED	-terminatedec	USAP exit code for the SAP job terminated status.
EXIT_QUEUE_BACKGROUND	-qinbackgroundec	USAP exit code for the SAP queue state 'S' (in background).
EXIT_QUEUE_CREATED	-qtobecreatedec	USAP exit code for the SAP queue state 'C' (to be created).

Configuration Option Name	Command Line Long Form	Description
EXIT_QUEUE_ERROR	-qerrorec	USAP exit code for the SAP queue state 'E' (error).
EXIT_QUEUE_FINISHED	-qfinishedec	USAP exit code for the SAP queue state 'F' (finished).
EXIT_QUEUE_UNPROCESSED	-qunprocessedec	USAP exit code for the SAP queue state '' (unprocessed).
IMMEDIATE_JOB	-immediate	Causes the job to be started immediately.
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.
JOB_LOG_CHILD	-joblogchild	Controls the printing of job logs for child jobs.
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.
JOB_ID_PATTERN	-bdcjobidptrn	Locates the header record and determines the offset of the job ID in the RSBDCSUB batch input processing report.
JOB_NAME_PATTERN	-bdcjobnameptrn	Locates the header record and determines the offset of the job name in the RSBDCSUB batch input processing report.
PURGE_CHILD_JOBS	-purgechild	Controls the purging of child jobs.
PURGE_JOB	-purge	Purge job that has completed processing from SAP system.
QUEUE_ID_PATTERN	-bdcqidptrn	Locates the header record and determines the offset of the queue ID in the RSBDCSUB batch input processing report.
RAW_SPOOL	-rawspool	Specification for whether the SAP spool lists will be returned from the SAP system in raw or plain format.
RESOLVE_MULTI_MODEL	-resolve_multi_model	For operations that work with model jobs without providing a job ID to explicitly target a specific job on the SAP system, controls the behavior when multiple candidate jobs are found.
RETURN_JOB_LOG	-joblog	Specification for whether or not the job's joblog is returned.
RETURN_SPOOL_LIST	-spoolist	Specification for whether or not the spoolists of all job steps are returned.
SPOOL_LIST_CHILD	-spoolistchild	Controls the printing of spoolists for child jobs.
TARGET_SERVER	-targetserver	Server on which the job will run.
USAP_POLL	-poll	Length of time to wait between job status calls to the SAP system.
WAIT	-wait	Wait for the SAP job to complete processing.
WAIT_FOR_CHILD_JOBS	-waitchild	Controls the monitoring of child jobs.

12.55 START PROCESS CHAIN - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.55.1 Description

The START PROCESS CHAIN command starts the specified process chain on the SAP system.

12.55.2 Command Line Syntax

The following figure illustrates the command line syntax of the START PROCESS CHAIN command, using the command line, long form of its [configuration options](#).

```
-start -chainid chainid [-wait] [-chainlog {yes|no}] [-processlogs {yes|no}] [-joblog {yes|no}] [-spoolist {yes|no}] [-rawspool {yes|no}]
```

12.55.3 Configuration Options

The following table describes all START PROCESS CHAIN configuration options and provides the command line, long form of each option illustrated in the START PROCESS CHAIN [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
CHAIN_ID	-chainid	Chain ID of process chain to be restarted.
WAIT	-wait	Wait for the SAP job to complete processing.
CHAIN_LOG	-chainlog	Specification for whether or not the process chain log will be returned.
PROCESS_LOGS	-processlogs	Specification for whether or not the process logs will be returned.
RAW_SPOOL	-rawspool	Specification for whether the SAP spool lists will be returned from the SAP system in raw or plain format.
RETURN_JOB_LOG	-joblog	Specification for whether or not the job's job log is returned.
RETURN_SPOOL_LIST	-spoolist	Specification for whether or not the spoollists of all job steps are returned.

12.55.4 Output

- stdout: nothing.
- stderr: UNV messages.

12.55.5 Exit Codes

- 0 on success.
- non-zero on error.

12.56 SUBMIT FS JOBNET - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.56.1 Description

The SUBMIT FS JOBNET command defines a new FS jobnet to an SAP system.

12.56.2 Command Line Syntax

The following figure illustrates the command line syntax of the SUBMIT FS JOBNET command, using the command line, long form of its [configuration options](#).

```
-sub {filename/ddname | -jobname jobname -jobid jobid}
  [-start
    [-wait
      [-poll seconds]
      [-purge]
    ]
  ]
]
```

12.56.3 Command Argument

The SUBMIT FS JOBNET command can be expressed as either:

- -U (Short form)
- -sub (Long form)

The SUBMIT FS JOBNET command argument, *filename/ddname*, specifies the name of the file that contains the FS jobnet definition.

See [FS Job Network Definition File - USAP](#) for additional information on the variant definition file.

12.56.4 Configuration Options

The following table describes all SUBMIT FS JOBNET configuration options and provides the command line, long form of each option illustrated in the SUBMIT FS JOBNET [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.
PURGE_JOB	-purge	Purge job that has completed processing from SAP system.
START	-start	Starts the newly defined job.
USAP_POLL	-poll	Length of time to wait between job status calls to the SAP system.
WAIT	-wait	Wait for the SAP job to complete processing.

12.57 SUBMIT INTERCEPT CRITERIA TABLE - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)

12.57.1 Description

The SUBMIT INTERCEPT CRITERIA TABLE command appends or replaces the SAP intercept criteria table.

12.57.2 Command Line Syntax

The following figure illustrates the command line syntax of the SUBMIT INTERCEPT CRITERIA TABLE command.

```
-sub filename/ddname
```

12.57.3 Command Argument

The SUBMIT INTERCEPT CRITERIA TABLE command can be expressed as either:

- -U (Short form)
- -sub (Long form)

The SUBMIT INTERCEPT CRITERIA TABLE command argument, *filename/ddname*, specifies the name of the file that contains the intercept criteria table definition.

See [Job Intercept Table Definition File - USAP](#) for additional information on the variant definition file.

12.58 SUBMIT JOB - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.58.1 Description

The SUBMIT JOB command defines a new SAP job.

12.58.2 Command Line Syntax

The following figure illustrates the command line syntax of the SUBMIT JOB command, using the command line, long form of its [configuration options](#).

```
-sub {filename/ddname | -jobname jobname [-jobid jobid]}
  [-target_jobname jobname]
  [-model_status option]
  [-resolve_multi_model option]
  [-start
    [-immediate]
    [-targetserver server]
    [-target_variant job step,variant name;job step,variant name;...]]
  [-wait
    [-poll seconds]
    [-joblog {yes|no}]
    [-spoollist {yes|no}]
    [-rawspool {yes|no}]
    [-purge]
    [-waitchild {yes|no}]
    [-max_child_depth depth]
    [-joblogchild {yes|no}|error}]
    [-spoollistchild {yes|no}]
    [-purgechild {yes|no}]
```

```
] ]
```

12.58.3 Command Argument

The SUBMIT JOB command can be expressed as either:

- -U (Short form)
- -sub (Long form)

The SUBMIT JOB command argument, *filename/ddname*, specifies the name of the file that contains the job definition.

See [Universal Connector for SAP Job Definition Files](#) for additional information on the job definition file.

12.58.4 Configuration Options

The following table describes all SUBMIT JOB configuration options and provides the command line, long form of each option illustrated in the SUBMIT JOB [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
IMMEDIATE_JOB	-immediate	Causes the job to be started immediately.
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.
JOB_LOG_CHILD	-joblogchild	Controls the printing of job logs for child jobs.
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.
MAX_CHILD_DEPTH	-max_child_depth	Controls the maximum relationship depth that will be monitored by USAP.
MODEL_STATUS	-model_status	For operations that work with model jobs without providing a job ID to explicitly target a specific job on the SAP system, restricts the model job candidates to the specified job status.
PURGE_CHILD_JOBS	-purgechild	Controls the purging of child jobs.
PURGE_JOB	-purge	Purge job that has completed processing from SAP system.
RAW_SPOOL	-rawspool	Specification for whether the SAP spool lists will be returned from the SAP system in raw or plain format.
RESOLVE_MULTI_MODEL	-resolve_multi_model	For operations that work with model jobs without providing a job ID to explicitly target a specific job on the SAP system, controls the behavior when multiple candidate jobs are found.
RETURN_JOB_LOG	-joblog	Specification for whether or not the job's joblog is returned.
RETURN_SPOOL_LIST	-spoolist	Specification for whether or not the spoolists of all job steps are returned.
SPOOL_LIST_CHILD	-spoolistchild	Controls the printing of spoolists for child jobs.

Configuration Option Name	Command Line Long Form	Description
START	-start	Starts the newly defined job.
TARGET_JOB_NAME	-target_jobname	Name to give the newly created job.
TARGET_VARIANT	-target_variant	One or more replacement variants for ABAP program job steps in an SAP job.
WAIT	-wait	Wait for the SAP job to complete processing.
WAIT_FOR_CHILD_JOBS	-waitchild	Controls the monitoring of child jobs.

12.59 SUBMIT VARIANT - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)
- [Configuration Options](#)

12.59.1 Description

The SUBMIT VARIANT command defines a new variant on an SAP system.

12.59.2 Command Line Syntax

The following figure illustrates the command line syntax of the SUBMIT VARIANT command, using the command line, long form of its [configuration options](#).

```
-sub {filename/ddname | -abapname abapname -variant variant -target_variantname variantname}
```

12.59.3 Command Argument

The SUBMIT VARIANT command can be expressed as either:

- -U Short form
- -sub Long form

The SUBMIT VARIANT command argument, *filename/ddname*, specifies the name of the file that contains the variant definition.

Optionally, a pre-existing variant definition on the SAP system can be used as a model for the new variant definition. In this case, command arguments *abapname* and *variant* are used to identify the model variant and *target_variantname* is used to specify a name for the new variant definition.

See [Variant Definition File - USAP](#) for additional information on the variant definition file.

12.59.4 Configuration Options

The following table describes all SUBMIT VARIANT configuration options and provides the command line, long form of each option illustrated in the SUBMIT VARIANT [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
ABAP_NAME	-abapname	Name of the ABAP program whose variant will be copied.
VARIANT	-variant	Name of the variant to be copied.
TARGET_VARIANTNAME	-target_variantname	Name given to the copied variant.

12.60 SYNTAX - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Command Argument](#)

12.60.1 Description

The SYNTAX command checks the syntax of a USAP definition file.

12.60.2 Command Line Syntax

The following figure illustrates the command line syntax of the SYNTAX command.

```
-syntax filename/ddname
```

12.60.3 Command Argument

The SYNTAX command can be expressed as either:

- -X (Short form)
- -syntax (Long form)

The SYNTAX command argument, *filename/ddname*, specifies the name of the definition file that contains the job, variant, or FS job network definition.

- See [Universal Connector for SAP Job Definition Files](#) for additional information on the job definition file.
- See [Variant Definition File - USAP](#) for additional information on the variant definition file.
- See [FS Job Network Definition File - USAP](#) for additional information on the FS Job Network definition file.

12.61 WAIT for FS JOB NETWORK - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.61.1 Description

The WAIT for FS JOB NETWORK command allows USAP to reconnect to a started FS job network and monitor it through completion.

12.61.2 Command Line Syntax

The following figure illustrates the command line syntax of the WAIT for FS JOB NETWORK command, using the command line, long form of its [configuration options](#).

```
-wait-jnetid jobnetid -jnetprcid processid
    [-poll seconds]
    [-purge]
    [-syslog {yes|no}
        [-syslogpre seconds]
        [-syslogpost seconds]
    ]
    [-max_log_size size]
    [-max_spool_size size]
```

12.61.3 Configuration Options

The following table describes all WAIT for FS JOB NETWORK configuration options and provides the command line, long form of each option illustrated in the WAIT for FS JOB NETWORK [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
WAIT	-wait	Causes USAP to wait for the SAP job network to complete processing.
JOB_NETWORK_ID	-jnetid	Network identifier for the pre-existing SAP FS job network being started.
JOB_PROCESS_ID	-jnetprcid	Process ID of an existing SAP FS job network process to start.
MAX_JOB_LOG_SIZE	-max_log_size	Maximum size for job logs.
MAX_SPOOL_LIST_SIZE	-max_spool_size	Maximum size for spool lists.

Configuration Option Name	Command Line Long Form	Description
PURGE_JOB	-purge	Purge job that has completed processing from SAP system.
SYSLOG	-syslog	Specification for whether or not a syslog report is generated on standard error if the job does not complete successfully.
SYSLOG_POST_TIME	-syslogpost	Length of time to add to the job end time when calculating the to time for the syslog report.
SYSLOG_PRE_TIME	-syslogpre	Length of time to subtract from the job release time when calculating the from time for the syslog report.
USAP_POLL	-poll	Length of time to wait between job status calls to the SAP system.

12.62 WAIT for INFOPACKAGE - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.62.1 Description

The WAIT for INFOPACKAGE command waits for an InfoPackage to complete.

12.62.2 Command Line Syntax

The following figure illustrates the command line syntax of the WAIT for INFOPACKAGE command, using the command line, long form of its [configuration options](#).

```
-wait-requestid ID
```

12.62.3 Configuration Options

The following table describes all WAIT for INFOPACKAGE configuration options and provides the command line, long form of each option illustrated in the WAIT for INFOPACKAGE [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
WAIT	-wait	Causes USAP to wait for an InfoPackage to complete.

Configuration Option Name	Command Line Long Form	Description
REQUEST_ID	-requestid	Request ID for InfoPackage instance to wait for.

12.62.4 Output

- stdout: nothing.
- stderr: InfoPackage processing messages and UNV messages.

12.62.5 Exit Codes

If the WAIT for INFOPACKAGE command is specified, Universal Connector will map the status of the InfoPackage, upon its completion, to the user-definable InfoPackage exit code parameters.

The following table illustrates this mapping; Universal Connector default values are listed in parentheses.

InfoPackage Completion Status in SAP	Exit Code
'Y' - Yellow (Active)	ipyellow_exit_code (10)
'R' - Red	ipred_exit_code (4)
'G' - Green	ipgreen_exit_code (0)
Error in Universal Connector processing (see All Other Command Exit Codes)	> 200

12.63 WAIT for JOB - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)

12.63.1 Description

The WAIT for JOB command allows USAP to reconnect to a started job and monitor it through completion.

12.63.2 Command Line Syntax

The following figure illustrates the command line syntax of the WAIT for JOB command, using the command line, long form of its [configuration options](#).

```

-wait-jobname jobname -jobid jobid
  [-job_stat_check option]
  [-job_stat_check_interval seconds]
  [-joblog {yes|no}]
  [-applog {yes|no}]
  [-printapprc {yes|no}]
  [-useapprc {yes|no}]
  [-server_stop_conditions codes]
  [-spoollist {yes|no}]
  [-rawspool {yes|no}]
  [-spool_codepage codepage]
  [-spool_recv_buffer size]
  [-transtab translation_table]
  [-terminatedec exitcode]
  [-finishedec exitcode]
  [-poll seconds]
  [-purge]
  [-syslog {yes|no}
    [-syslogpre seconds]
    [-syslogpost seconds]
  ]
  [-waitchild {yes|no}]
  [-max_child_depth depth]
  [-joblogchild {yes|no|error}]
  [-spoollistchild {yes|no}]
  [-purgechild {yes|no}]
  [-max_log_size size]
  [-max_spool_size size]
  [-maxspoolsizeexceededec exitcode]
  [-first_page page]
  [-last_page page]
    
```

12.63.3 Configuration Options

The following table describes all WAIT for JOB configuration options and provides the command line, long form of each option illustrated in the WAIT for JOB [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
WAIT	-wait	Causes USAP to wait for the SAP job to complete processing.
ENABLE_JOB_STATUS_CHECK	-job_stat_check	Specification to enable or disable calls to SAP function module BAPI_XBP_JOB_STATUS_CHECK, which are used to synchronize the actual job status with the R/3 stored status.
EXIT_JOB_FINISHED	-finishedec	USAP exit code for the SAP job finished status.
EXIT_JOB_TERMINATED	-terminatedec	USAP exit code for the SAP job terminated status.
EXIT_MAX_SPOOL_SIZE_EXCEEDED	-maxspoolsizeexceededec	Minimum exit code that will be set if an attempt is made to return a spool list that exceeds the maximum size for job logs as specified by the MAX_SPOOL_LIST_SIZE USAP configuration option.

Configuration Option Name	Command Line Long Form	Description
FIRST_PAGE	-first_page	Starting page from which a spool list will be returned.
LAST_PAGE	-last_page	Last page of a spool list to be returned.
JOB_ID	-jobid	Job ID of an existing SAP job to use as a model for the new job definition.
JOB_LOG_CHILD	-joblogchild	Controls the printing of job logs for child jobs.
JOB_NAME	-jobname	Name of an existing SAP job to use as a model for the new job definition.
MAX_CHILD_DEPTH	-max_child_depth	Controls the maximum relationship depth that will be monitored by USAP.
MAX_JOB_LOG_SIZE	-max_log_size	Maximum size for job logs.
MAX_SPOOL_LIST_SIZE	-max_spool_size	Maximum size for spool lists.
PURGE_CHILD_JOBS	-purgechild	Controls the purging of child jobs.
PURGE_JOB	-purge	Purge job that has completed processing from SAP system.
RAW_SPOOL	-rawspool	Specification for whether the SAP spool lists will be returned from the SAP system in raw or plain format.
RETURN_APPLICATION_LOG	-applog	Specification for whether or not the job's application log is returned.
RETURN_APPLICATION_RC	-printapprc	Specification for whether or not the job's application return codes are returned.
RETURN_JOB_LOG	-joblog	Specification for whether or not the job's joblog is returned.
RETURN_SPOOL_LIST	-spoolist	Specification for whether or not the spoolists of all job steps are returned.
SERVER_STOP_CONDITIONS	-server_stop_conditions	Exit code(s) of the executing Universal Connector process that should trigger the locally running Universal Broker to cancel the corresponding SAP job.
SPOOL_CODEPAGE	-spool_codepage	Codepage used for transferring spool lists from SAP system.
SPOOL_LIST_CHILD	-spoolistchild	Controls the printing of spoolists for child jobs.
SPOOL_RECEIVE_BUFFER	-spool_rcv_buffer	Size of the blocks (number of pages) used when transferring spool lists.
STATUS_CHECK_INTERVAL	-job_stat_check_interval	Length of time that can elapse, without a change in job status, before a call will be made to synchronize the actual job status with the SAP stored status.
SYSLOG	-syslog	Specification for whether or not a syslog report is generated on standard error if the job does not complete successfully.
SYSLOG_POST_TIME	-syslogpost	Length of time to add to the job end time when calculating the to time for the syslog report.
SYSLOG_PRE_TIME	-syslogpre	Length of time to subtract from the job release time when calculating the from time for the syslog report.

Configuration Option Name	Command Line Long Form	Description
TRANSLATION_TABLE	-transtab	Spoolist translation table file to use for formatting returned spoolists.
USAP_POLL	-poll	Length of time to wait between job status calls to the SAP system.
USE_APPLICATION_RC	-useapprc	Specification for whether or not the job's application return codes are used to determine the exit code of the USAP job.
WAIT_FOR_CHILD_JOBS	-waitchild	Controls the monitoring of child jobs.

12.64 WAIT for PROCESS CHAIN - USAP Command

- [Description](#)
- [Command Line Syntax](#)
- [Configuration Options](#)
- [Output](#)
- [Exit Codes](#)

12.64.1 Description

The WAIT for PROCESS CHAIN command monitors the specified process chain to completion.

12.64.2 Command Line Syntax

The following figure illustrates the command line syntax of the WAIT for PROCESS CHAIN command, using the command line, long form of its [configuration options](#).

```
-wait-chainid ID -logid ID [-chainlog {yes|no}] [-processlogs {yes|no}] [-joblog {yes|no}]
] [-spoolist {yes|no}] [-rawspool {yes|no}] [-first_page page] [-last_page page] [-
spool_recv_buffer size]
```

12.64.3 Configuration Options

The following table describes all WAIT for PROCESS CHAIN configuration options and provides the command line, long form of each option illustrated in the WAIT for PROCESS CHAIN [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
WAIT	-wait	Causes USAP to monitor the specified process chain to completion.
CHAIN_ID	-chainid	Chain ID of process chain to be monitored to completion.

Configuration Option Name	Command Line Long Form	Description
CHAIN_LOG	-chainlog	Specification for whether or not the process chain log will be returned.
FIRST_PAGE	-first_page	Starting page from which a spool list will be returned.
LAST_PAGE	-last_page	Last page of a spool list to be returned.
SPOOL_RECEIVE_BUFFER	-spool_rcv_buffer	Size of the blocks (number of pages) used when transferring spool lists.
LOG_ID	-logid	Chain ID of process chain to be monitored to completion.
PROCESS_LOGS	-processlogs	Specification for whether or not the process logs will be returned.
RAW_SPOOL	-rawspool	Specification for whether the SAP spool lists will be returned from the SAP system in raw or plain format.
RETURN_JOB_LOG	-joblog	Specification for whether or not the job's job log is returned.
RETURN_SPOOL_LIST	-spoolist	Specification for whether or not the spoolists of all job steps are returned.

12.64.4 Output

- stdout: Spool lists (if specified).
- stderr: UNV messages and logs (if specified).

12.64.5 Exit Codes

If the WAIT for PROCESS CHAIN command is specified, Universal Connector will map the status of the job, upon its completion, to the user-definable Process Chain exit code parameters.

The following table illustrates this mapping; Universal Connector default values are listed in parentheses.

Process Chain Completion Status in SAP	Exit Code
'X' - Aborted	pcaborted_exit_code (8)
'R' - Red	pcrd_exit_code (4)
'A' - Active	pcactive_exit_code (10)
'G' - Green	pcgreen_exit_code (0)
Error in Universal Connector processing (see All Other Command Exit Codes)	> 200

13 Universal Connector for SAP Exit Codes

- [Overview](#)
- [WAIT for JOB Exit Codes](#)
- [WAIT for FS JOB NETWORK Exit Codes](#)
- [DISPLAY STATUS Exit Codes](#)
- [DISPLAY QSTATE Exit Codes](#)
- [All Other Command Exit Codes](#)

13.1 Overview

The exit code of Universal Connector for SAP depends on the command being issued.

This page identifies the exit codes for the various Universal Connector for SAP commands.

Note

The default values listed for the exit codes are the installed (configuration file) values. These values may be different than the internal default values (see the EXIT options in [Universal Connector for SAP Configuration Options](#)).

13.2 WAIT for JOB Exit Codes

If the WAIT for JOB command is specified, Universal Connector for SAP will map the job's status upon completion to the user definable job exit code parameters.

The following table illustrates this mapping; Universal Connector for SAP default values are listed in parentheses.

Job Completion Status in SAP	Exit Code
Terminated	terminated_exit_code (8)
Finished	finished_exit_code (0)
Unknown	22
Error in USAP processing (see #All Other Command Exit Codes).	> 200

13.3 WAIT for FS JOB NETWORK Exit Codes

If the WAIT for FS JOB NETWORK command is specified, USAP will map the job network's return code pair to the user definable job network return code parameters. In this case, the exit codes are hard coded and the return code pairs used in the matching process are user definable.

The following table illustrates this mapping; Universal Connector for SAP default values are listed in parentheses.

Job network return code pairs used for matching	Exit Code
job_net_rc_00 (02,00;02,02)	0
job_net_rc_04 (02,02)	4
job_net_rc_08 (02,04)	8
job_net_rc_16 (07,00;04,00;02,08)	16
Error in USAP processing (see #All Other Command Exit Codes).	> 200

13.4 DISPLAY STATUS Exit Codes

If the DISPLAY STATUS command is specified, Universal Connector for SAP will map the job's current status to the user definable job exit code parameters.

The following table illustrates this mapping; Universal Connector for SAP default values are listed in parentheses.

Job Current Status in SAP	Exit Code
Active	active_exit_code (10)
Ready	ready_exit_code (12)
Scheduled	scheduled_exit_code (14)
Released	released_exit_code (16)
Terminated	terminated_exit_code (8)
Finished	finished_exit_code (0)
Unknown	22
Error in USAP processing (see #All Other Command Exit Codes).	> 200

13.5 DISPLAY QSTATE Exit Codes

If the DISPLAY QSTATE command is specified, Universal Connector for SAP will map the queue's current state to the user definable **qstate** exit code parameters.

The following table illustrates this mapping; Universal Connector for SAP default values are listed in parentheses.

Queue State	Exit Code
'C' to be created	qtobecreated_exit_code (14)
' ' unprocessed	qunprocessed_exit_code (12)
'S' in background	qinbackground_exit_code (10)
'E' error	qerror_exit_code (8)
'F' finished	qfinished_exit_code (0)
Undefined	20
Error in USAP processing (see #All Other Command Exit Codes).	> 200

13.6 All Other Command Exit Codes

If Universal Connector for SAP is not performing the WAIT for JOB, WAIT for FS JOB NETWORK, DISPLAY STATUS, or DISPLAY QSTATE command, the exit code indicates the success of the requested actions.

The following table lists the Universal Connector for SAP exit codes.

Description	Exit Code
Successfully completed all requested actions.	0
An error occurred processing the requested actions. Messages are printed providing details about the error.	201
An error with product configuration options or command line options.	210
An error occurred in the initialization phase of message processing. It is possible the error prohibited messages from printing.	211

14 Universal Connector for SAP Configuration Options for Program Execution

14.1 Universal Connector Configuration Options for Program Execution

Many configuration options of Universal Connector for SAP are associated with one or more specific Universal Connector for SAP [commands](#).

However, some configuration options are not associated with commands, but with program execution. Some of these options are required for every execution of Universal Connector for SAP; others are optional for any execution.

These options are categorized into logical areas of application, as shown in the following table.

The name of each category is a link to the following information:

- **Description:** Description of the options in the category.
- **Options syntax:** Syntax of the options on the command line.
- **Options:** Description of the configuration options in the category and a link to detailed information about those options.

Note
 For information on configuration options that are associated with one or more specific commands, see [Universal Connector for SAP Commands](#).

14.2 Universal Connector for SAP Configuration Options for Program Execution - Categories

Option Categories	Description
Required	
HOST Options	Specifies the SAP host to which a connection should be made.
USER Options	Identifies the SAP user account with which the command executes.
Optional	
CFT (Client Fault Tolerant) Options	Configures client fault tolerant connection.
COMMAND FILE Options	Specifies an additional source of command options.
EVENT Options	Specifies USAP options required for event generation.
INFORMATIONAL Options	Requests information pertaining to the USAP program.

Option Categories	Description
INSTALLATION Options	Specifies USAP options required for installation.
LOCAL Options	Specifies USAP options required for local broker registration.
MESSAGE Options	Requests information pertaining to the USAP program.
RFC (Remote Function Call) Options	Configures fault tolerant RFC connection.

14.3 HOST Options - Universal Connector for SAP

- [Description](#)
- [Command Line Syntax](#)
- [HOST Options List](#)

14.3.1 Description

The HOST configuration options are required to establish a connection with an SAP system.

14.3.2 Command Line Syntax

The following figure illustrates the command line syntax of the [HOST options](#), using their command line, long form.

```
{-dest destination -client client | -ashost hostname -sysnr number -client client [-gwhost host] [-gwserv service]}
{-r3name name -mshost host [-group groupname]}
[-max_xbp version]
[-saplang language]
[-xmiaudit {0|1|2|3}]
```

14.3.3 HOST Options List

The following table describes all HOST configuration options and provides the command line, long form of each option illustrated in the HOST options [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
AS_HOST	-ashost	Host name of an SAP application server.
CLIENT	-client	SAP client number.

Configuration Option Name	Command Line Long Form	Description
DESTINATION	-dest	Name of a destination defined in the saprfc.ini file.
GROUP	-group	Name of the group of application servers for a Type B RFC connection.
GW_HOST	-gwhost	Host name of the SAP gateway for a Type A RFC connection.
GW_SERV	-gwserv	Service name of the SAP gateway for a Type A RFC connection.
LOGON_LANGUAGE	-saplang	SAP logon language used for the USAP session.
MAX_XBP	-max_xbp	Maximum version of the SAP XBP interface that will be used during USAP execution.
MS_HOST	-mshost	Host name of the message server for a Type B RFC connection.
R3_NAME	-r3name	System ID of the SAP system to which you want to connect for a Type B RFC connection.
SYSTEM_NUMBER	-sysnr	SAP system number of an SAP application server.
XMI_AUDIT_LEVEL	-xmiaudit	Sets the XMI audit level to be used for the execution of the command.

14.4 USER Options - Universal Connector for SAP

- [Description](#)
- [Command Line Syntax](#)
- [USER Options List](#)

14.4.1 Description

The USER options are required to establish an RFC connection to an SAP system. They establish the SAP user identity.

14.4.2 Command Line Syntax

The following figure illustrates the command line syntax of the [USER options](#), using their command line, long form.

```
-userid userid
-pwd password
```

14.4.3 USER Options List

The following table describes all USER options and provides the command line, long form of each option illustrated in the USER options [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
PASSWORD	-pwd	Password for the SAP user ID.
USER_ID	-userid	SAP user ID with which to logon to the SAP system.

14.5 CFT (Client Fault Tolerant) Options - Universal Connector for SAP

- [Description](#)
- [Command Line Syntax](#)
- [CFT Options List](#)

14.5.1 Description

The CFT (Client Fault Tolerant) options are used to configure a client fault tolerant job run. [Client fault tolerance](#) is requested for a Universal Connector job run by specifying a [COMMAND_ID](#).

14.5.2 Command Line Syntax

The following figure illustrates the command line syntax of the [CFT options](#), using their command line, long form.

```
-cmdid id
-restart {yes|no|auto}
-autorestartok {yes|no}
-cft_secure_cft {yes|no}
-cft_abap abap_program
-cft_target_host host
-cft_cmd_prefix command_prefix
-force {yes|no}
```

14.5.3 CFT Options List

The following table describes all CFT options and provides the command line, long form of each option illustrated in the CFT options [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
ALLOW_AUTO_RESTART	-autorestartok	Specification for whether or not a RESTART value of AUTO will be allowed.
CFT_ABAP_PROGRAM	-cft_abap	ABAP program to use for the command ID job step.
CFT_COMMAND_PREFIX	-cft_cmd_prefix	In pre-XBP 2.0 CFT mode, the prefix command required for the operating system of the target host.
CFT_TARGET_HOST	-cft_target_host	In pre-XBP 2.0 CFT mode, the target host to use for the command ID job step when the command ID option is used.
COMMAND_ID	-cmdid	Identifier used to identify the unit of work represented by a USAP command and the associated SAP job.
FORCE	-force	Specification for whether or not the process chain instance associated with a client fault tolerant process chain job is restarted on the SAP system.
RESTART	-restart	Specification for whether or not this execution of USAP is a restart of a previous client fault tolerant USAP command.
SECURE_CFT	-cft_secure_cft	Mode of client fault tolerance to be used for the command invocation.

14.6 COMMAND FILE Options - Universal Connector for SAP

- [Description](#)
- [Plain Text File](#)
 - [Command Line Syntax \(Plain Text Options\)](#)
 - [COMMAND FILE \(Plain Text\) Options List](#)
- [Encrypted File](#)
 - [Command Line Syntax \(Encrypted Options\)](#)
 - [COMMAND FILE \(Encrypted\) Options List](#)

14.6.1 Description

The COMMAND FILE options are used to specify a file as a source of configuration options used for a command execution. The options read from a command file are processed exactly like options from any other input source.

Encrypted command files are an excellent place to store sensitive data such as user IDs and passwords. Use the [Universal Encrypt](#) utility to encrypt a plain text command file.

Note

All options, including required and command-specific options, can be placed in a command file.

Universal Connector can process both plain text and encrypted command files. Either type of file can be used, but not both. If both are specified, the plain text file will be used.

14.6.2 Plain Text File

14.6.2.1 Command Line Syntax (Plain Text Options)

The following figure illustrates the command line syntax of the [COMMAND FILE \(Plain Text\) options](#), using their command line, long form.

```
-file [filename]
```

14.6.2.2 COMMAND FILE (Plain Text) Options List

The following table describes all COMMAND FILE (Plain Text) options and provides the command line, long form of each option illustrated in the COMMAND FILE (Plain Text) options [command line syntax](#), below.

Configuration Option Name	Command Line Long Form	Description
FILE_NAME	-file	Name of a plain text command file.

14.6.3 Encrypted File

14.6.3.1 Command Line Syntax (Encrypted Options)

The following figure illustrates the command line syntax of the [COMMAND FILE \(Encrypted\) options](#), using their command line, long form.

```
-encryptedfile [filename [-key key] ]
```

14.6.3.2 COMMAND FILE (Encrypted) Options List

The following table describes all COMMAND FILE (Encrypted) options and provides the command line, long form of each option illustrated in the COMMAND FILE (Encrypted) options [command line syntax](#), below.

Configuration Option Name	Command Line Long Form	Description
ENCRYPT_FILE	-encryptedfile	Name of an encrypted command file.
ENCRYPTION_KEY	-key	Key used to encrypt the command file.

14.7 EVENT Options - Universal Connector for SAP

- [Description](#)
- [Configuration File Syntax](#)
- [EVENT Options List](#)

14.7.1 Description

The EVENT options are required for event generation.

Note
 EVENT options can be specified only in the configuration file. They have no command line or environment variable parameters.

14.7.2 Configuration File Syntax

The following figure illustrates the configuration file syntax of the [EVENT options](#).

```
activity_monitoring {yes|no}
event_generation types
```

14.7.3 EVENT Options List

The following table describes all EVENT options and provides the configuration file keyword of each option illustrated in the EVENT options [configuration file syntax](#), below.

Configuration Option Name	Configuration File Keyword	Description
ACTIVITY_MONITORING	activity_monitoring	Specification for whether or not product activity monitoring events are generated.
EVENT_GENERATION	event_generation	Events to be generated as persistent events.

14.8 INFORMATIONAL Options - Universal Connector for SAP

- [Description](#)
- [Command Line Syntax](#)
- [INFORMATIONAL Options List](#)

14.8.1 Description

The INFORMATIONAL options request information pertaining to the USAP program.

14.8.2 Command Line Syntax

The following figure illustrates the command line syntax of the [INFORMATIONAL options](#), using their command line, long form.

```
-help-version
```

14.8.3 INFORMATIONAL Options List

The following table describes all INFORMATIONAL options and provides the command line, long form of each option illustrated in the INFORMATIONAL options [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
HELP	-help	Writes command line help.
VERSION	-version	Writes USAP version and copyright information.

14.9 INSTALLATION Options - Universal Connector for SAP

- [Description](#)
- [Configuration File Syntax](#)
- [INSTALLATION Options List](#)

14.9.1 Description

The INSTALLATION options are required for product installation.

Note

INSTALLATION options can be specified only in the configuration file. They have no command line or environment variable parameters.

14.9.2 Configuration File Syntax

The following figure illustrates the configuration file syntax of the [INSTALLATION options](#).

```
installation_directory directory
```

14.9.3 INSTALLATION Options List

The following table describes all INSTALLATION options and provides the configuration file keyword of each option illustrated in the INSTALLATION options [configuration file syntax](#), above.

Configuration Option Name	Configuration File Keyword	Description
INSTALLATION_DIRECTORY	installation_directory	Location in which USAP is installed.

14.10 LOCAL Options - Universal Connector for SAP

- [Description](#)
- [Command Line Syntax](#)
- [LOCAL Options List](#)

14.10.1 Description

The LOCAL options are required for local broker registration.

14.10.2 Command Line Syntax

The following table illustrates the command line syntax of the [LOCAL options](#), using their command line, long form.

```
-bif_directory directory
-plf_directory directory
-system_id ID
```

14.10.3 LOCAL Options List

The following table describes all LOCAL options and provides the command line, long form of each option illustrated in the LOCAL options [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
BIF_DIRECTORY	-bif_directory	For UNIX only: Broker Interface File (BIF) directory where the Universal Broker interface file is located.
PLF_DIRECTORY	-plf_directory	For UNIX only: Program Lock File (PLF) directory where the program lock files are located.
SYSTEM_ID	-system_id	For z/OS only: Local Universal Broker with which Universal Connector must register before the Manager performs any request.

14.11 MESSAGE Options - Universal Connector for SAP

- [Description](#)

- [Command Line Syntax](#)
- [MESSAGE Options List](#)

14.11.1 Description

The MESSAGE options specify different characteristics of **usap** messages.

14.11.2 Command Line Syntax

The following table illustrates the command line syntax of the [MESSAGE options](#), using their command line, long form.

```
-lang language
-level {trace|audit|info|warn|error}
-trace_file_lines lines
-trace_table size,condition
```

14.11.3 MESSAGE Options List

The following table describes all MESSAGE options and provides the command line, long form of each option illustrated in the MESSAGE options [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
MESSAGE_LANGUAGE	-lang	Language in which messages are written.
MESSAGE_LEVEL	-level	Level of messages to be written.
TRACE_FILE_LINES	-trace_file_lines	Maximum number of lines to write to the trace file.
TRACE_TABLE	-trace_table	Trace table size and under what conditions it is written to a file.

14.12 RFC (Remote Function Call) Options - Universal Connector for SAP

- [Description](#)
- [Command Line Syntax](#)
- [RFC Options List](#)

14.12.1 Description

The RFC (Remote Function Call) options are always used to configure a fault tolerant RFC connection. All RFC options have default values that are used if additional values are not provided.

14.12.2 Command Line Syntax

The following figure illustrates the command line syntax of the [RFC options](#), using their command line, long form.

```
-rfc_cfit symbol
-rfc_codepage codepage
-rfc_delta option
-rfc_listen_interval interval
-rfc_logon_retry_count count
-rfc_logon_retry_interval interval
-rfc_mysapso2 path
-rfc_no_compress option
-rfc_on_cce option
-rfc_pcs size
-rfc_retry_count count
-rfc_retry_interval interval
-rfc_timeout interval
-rfc_trace level
-rfc_trace_dir path
-rfc_x509cert path
-saprouter parameters
-snc_lib path
-snc_mode mode
-snc_myname token
-snc_partnername token
-snc_qop level
-snc_sso level
```

14.12.3 RFC Options List

The following table describes all RFC options and provides the command line, long form of each option illustrated in the RFC options [command line syntax](#), above.

Configuration Option Name	Command Line Long Form	Description
CFIT	-rfc_cfit	Substitute symbol to use if the ON_CCE option value is 2 (replace the character).
CODEPAGE	-rfc_codepage	As documented by SAP: The CODEPAGE option is similar to the PCS option. It is needed only if you want to connect to a non-Unicode back-end using a non-ISO-Latin-1 username or password. The RFC library will then use that codepage for the initial handshake, thus preserving the characters in username/password.

Configuration Option Name	Command Line Long Form	Description
DELTA	-rfc_delta	Specification for whether or not to use delta-manager when serializing / deserializing table parameters passed by using TABLES clause.
LISTEN_INTERVAL	-rfc_listen_interval	Number of seconds that will elapse between RFC listen calls.
LOGON_RETRY_COUNT	-rfc_logon_retry_count	Number of unsuccessful RFC logon retry attempts that can occur before USAP terminates the logon process and ends unsuccessfully.
LOGON_RETRY_INTERVAL	-rfc_logon_retry_interval	Number of seconds that will elapse between a failed RFC logon attempt and the retry of that logon attempt.
MYSAPSSO2	-rfc_mysapso2	Path to a file containing the credentials to log on with an SS02 ticket (Single-Sign-On) - instead of USER&PASSWORD - or with an "Assertion" ticket (starting with back-end release 7.00).
NO_COMPRESSION	-rfc_no_compress	Specification for whether or not the RC protocol compress tables.
ON_CCE	-rfc_on_cce	Specification for what the NW RFC library will do when it encounters a character that either does not exist in the target codepage, is a broken character or is a control character (0x00 - 0x19).
PCS	-rfc_pcs	<p>As documented by SAP: The PCS option specifies a Partner Character Size. It is rarely needed, as during the initial handshake, the RFC library obtains the correct value from the back-end and uses it from then on.</p> <p>However, a rare use case could be that the back-end is Unicode and you want to use a non-ISO-Latin-1 username or password for the initial logon. As the initial handshake is done with ISO-Latin-1, the characters in username/passwd would break, resulting in a refused logon. In that case, set PCS=2 and the RFC library will use Unicode for the initial handshake.</p>
RETRY_CALL_COUNT	-rfc_retry_count	Number of unsuccessful RFC call retry attempts that can occur before USAP terminates the RFC call retry process and ends unsuccessfully.
RETRY_CALL_INTERVAL	-rfc_retry_interval	Number of seconds that will elapse between a failed RFC call and the retry of that call.
RFC_TRACE	-rfc_trace	Trace level of all connections / destinations.
SAPROUTER	-saprouter	SAPRouter string for the NW RFC connection.
SNC_LIB	-snc_lib	Full path and name of a third-party security library to use for SNC communication (authentication, encryption, and signatures).
SNC_MODE	-snc_mode	Specification for whether or not SNC should be activated for the SAP RFC connection.
SNC_MYNAME	-snc_myname	Token/identifier representing the external RFC program.
SNC_PARTNERNAME	-snc_partnername	Token/identifier representing the back-end system.
SNC_QOP	-snc_qop	Quality of protection level.
SNC_SSO	-snc_sso	Specification for whether or not to use SNC single sign-on if SNC is enabled.
TIMEOUT_INTERVAL	-rfc_timeout	Number of seconds that can elapse before USAP considers an RFC call to have timed out.
TRACE_DIRECTORY	-rfc_trace_dir	Directory where RFC trace files will be written.

Configuration Option Name	Command Line Long Form	Description
USE_SYMBOLIC_NAMES	-rfc_use_symbolic_names	Specification for whether the NW RFC library, during group-logon, should use symbolic service names defined in /etc/services (such as sapgw33, or hard-coded port numbers derived from the instance number (such as 3300)).
X509CERT	-rfc_x509cert	Path to a file containing the credentials to log on with an X509 certificate ticket instead of USER&PASSWORD.

15 Universal Connector for SAP Configuration Options

- [Overview](#)
- [Configuration Options Information](#)
 - [Description](#)
 - [Usage](#)
 - [Values](#)
 - [<Additional Information>](#)
 - [Command Usage](#)
- [Configuration Options List](#)

15.1 Overview

This page provides links to detailed information for all configuration options of Universal Connector *for Use with SAP® ERP*. The options are listed alphabetically, without regard to any specific operating system.

15.2 Configuration Options Information

For each configuration option, these pages provides the following information.

15.2.1 Description

Describes the configuration option and how it is used.

15.2.2 Usage

Provides a table of the following information:

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	<Format / Value>					
Command Line, Long Form	<Format / Value>					
Environment Variable	<Format / Value>					
Configuration File Keyword	<Format / Value>					

15.2.2.1 Method

Identifies the different methods used to specify Universal Connector configuration options:

- Command Line Option, Short Form
- Command Line Option, Long Form
- Environment Variable
- Configuration File Keyword

Note

Each option can be specified using one or more methods.

15.2.2.2 Syntax

Identifies the syntax of each method that can be used to specify the option:

- Format: Specific characters that identify the option.
- Value: Type of value(s) to be supplied for this method.

Note

If a Method is not valid for specifying the option, the Syntax field contains **n/a**.

15.2.2.3 (Operating System)

Identifies the operating systems for which each method of specifying the option is valid:

- IBM i
- HP NonStop
- UNIX
- Windows
- z/OS

15.2.3 Values

Identifies all possible values for the specified value type.

Defaults are identified in **bold type**.

15.2.4 <Additional Information>

Identifies any additional information specific to the option.

15.2.5 Command Usage

Provides links to the Universal Connector commands that use the option.

If the option is associated with program execution, not commands, this section provides a link to the appropriate option category in [Universal Connector for SAP Configuration Options for Program Execution](#).

15.3 Configuration Options List

The following table identifies all Universal Connector configuration options.

Option	Description
ABAP_NAME	Name of an ABAP program in an SAP system.
ACTIVITY_MONITORING	Specification for whether or not product activity monitoring events are generated.
ALLOW_AUTO_RESTART	Specification for whether or not a RESTART value of AUTO will be allowed.
AS_HOST	Host name of an SAP application server for a Type A RFC connection.
BATCH_MONITOR	Causes USAP to perform batch input monitoring for the job being started.
BIF_DIRECTORY	Broker Interface Directory that specifies the location of the Universal Broker interface file.
CFIT	Substitute symbol to use if the ON_CCE option value is 2 (replace the character).
CFT_ABAP_PROGRAM	ABAP program to use for the command ID job step.
CFT_COMMAND_PREFIX	In pre-XBP 2.0 CFT mode, the prefix command required for the operating system of the target host.
CFT_TARGET_HOST	In pre-XBP 2.0 CFT mode, the target host to use for the command ID job step when the command ID option is used.
CLIENT	Host name of a specific SAP application server for a Type A RFC Connection.
CHAIN_DESCRIPTION	Text description mask for process chains to be displayed.
CHAIN_ID	ID mask of process chains to be displayed.
CHAIN_LOG	Specification for whether or not the process chain log will be returned.
CODEPAGE	As documented by SAP: The CODEPAGE option is similar to the PCS option. It is needed only if you want to connect to a non-Unicode back-end using a non-ISO-Latin-1 username or password. The RFC library will then use that codepage for the initial handshake, thus preserving the characters in username/password.
COMMAND_ID	Identifier used to identify the unit of work represented by a USAP command and the associated SAP job.
DATA_SOURCE	Data Source mask for which the InfoPackages were created.
DELTA	Specification for whether or not to use delta-manager when serializing / deserializing table parameters passed by using TABLES clause.
DESTINATION	Name of a destination defined in the saprfc.ini file.

Option	Description
DISABLE_USERPWD_PROMPT	Specifies whether or not the user wants to be prompted to authenticate with username/password.
DISPLAY_CLIENT	Identify a specific SAP client whose intercepted jobs will be reported.
ENABLE_JOB_STATUS_CHECK	Specification to enable or disable calls to SAP function module BAPL_XBP_JOB_STATUS_CHECK, which are used to synchronize the actual job status with the R/3 stored status.
ENCRYPT_FILE	Name of an encrypted text command file.
ENCRYPTION_KEY	Key used to encrypt the command file.
EVENT_ACTION	Specification for whether or not the status of return events should be changed on the SAP system.
EVENT_GENERATION	Events to be generated as persistent events.
EVENT_ID	Name of the event.
EVENT_PARAMETER	Optional parameter value for the event.
EVENT_SELECT_STATE	Event status of the events which should be read.
EXIT_JOB_ACTIVE	USAP exit code for the SAP job active status.
EXIT_JOB_FINISHED	USAP exit code for the SAP job finished status.
EXIT_JOB_READY	USAP exit code for the SAP job ready status.
EXIT_JOB_RELEASED	USAP exit code for the SAP job released status.
EXIT_JOB_SCHEDULED	USAP exit code for the SAP job scheduled status.
EXIT_JOB_TERMINATED	USAP exit code for the SAP job terminated status.
EXIT_MAX_SPOOL_SIZE_EXCEEDED	Minimum exit code that will be set if an attempt is made to return a spool list that exceeds the maximum size for job logs as specified by the MAX_SPOOL_LIST_SIZE USAP configuration option.
EXIT_QUEUE_BACKGROUND	USAP exit code for the SAP queue state S (in background).
EXIT_QUEUE_CREATED	USAP exit code for the SAP queue state C (to be created).
EXIT_QUEUE_ERROR	USAP exit code for the SAP queue state E (error).
EXIT_QUEUE_FINISHED	USAP exit code for the SAP queue state F (finished).
EXIT_QUEUE_UNPROCESSED	USAP exit code for the SAP queue state [] (unprocessed).
EXTERNAL_COMMAND	Complete command name or a mask used to select SAP external commands that match the mask.
FILE_NAME	Name of a plain text command file.
FIRST_PAGE	Starting page from which a spool list will be returned.
FORCE	Specification for whether or not the process chain instance associated with a client fault tolerant process chain job is restarted on the SAP system.
FROM_DATE	Earliest date to use for job selection or syslog request.
FROM_TIME	Earliest time to use for job selection or syslog request.

Option	Description
GROUP	Name of the group of application servers for a Type B RFC connection.
GW_HOST	Host name of the SAP gateway for a Type A RFC connection.
GW_SERV	Service name of the SAP gateway for a Type A RFC connection.
HELP	Displays a description of command line options and their format.
IMMEDIATE_JOB	Causes the job to be started immediately.
INFO_PACKAGE	Name of the mask InfoPackage to select.
INFO_SOURCE	InfoSource mask for which the InfoPackages were created.
INSTALLATION_DIRECTORY	Location in which USAP is installed.
JOB_ID	Job ID of an existing SAP job.
JOB_ID_PATTERN	Locates the header record and determines the offset of the job ID in the RSBDCSUB batch input processing report.
JOB_LOG_CHILD	Controls the writing of job logs for child jobs.
JOB_NAME	Name of an existing SAP job.
JOB_NAME_PATTERN	Locates the header record and determines the offset of the job name in the RSBDCSUB batch input processing report.
JOB_NETWORK_ID	Network identifier for the pre-existing SAP FS job network being started.
JOB_PROCESS_ID	Process ID of an existing SAP FS job network process to start.
JOB_STATUS	SM37-batch-status.
LAST_PAGE	Last page of a spool list to be returned.
LAYOUT_NAME	Complete layout name or a mask used to select printer layouts that match the mask.
LISTEN_INTERVAL	Number of seconds that will elapse between RFC listen calls.
LOG_ID	Log ID for process instance data.
LOGON_LANGUAGE	SAP logon language used for the USAP session.
LOGON_RETRY_COUNT	Number of unsuccessful RFC logon retry attempts that can occur before USAP terminates the logon process and ends unsuccessfully.
LOGON_RETRY_INTERVAL	Number of seconds that will elapse between a failed RFC logon attempt and the retry of that logon attempt.
LONG_DEVICE_NAME	Complete device name or a mask used to select SAP output devices that match the mask.
MASS_ACTIVITY_WAIT	Causes USAP to wait for the SAP mass activity jobs to complete processing.
MAX_CHILD_DEPTH	Controls the maximum relationship depth that will be monitored by USAP.
MAX_HIT_COUNT	Maximum number of ABAP reports to be returned.

Option	Description
MAX_JOB_LOG_SIZE	Maximum size for job logs.
MAX_SPOOL_LIST_SIZE	Maximum size for spool lists.
MAX_XBP	Maximum version of the SAP XBP interface that will be used during USAP execution.
MESSAGE_LANGUAGE	Language in which messages are written.
MESSAGE_LEVEL	Level of messages to written.
MODEL_STATUS	For operations that work with model jobs without providing a job ID to explicitly target a specific job on the SAP system, restricts the model job candidates to the specified job status.
MS_HOST	Host name of the message server for a Type B RFC connection.
MYSAPSSO2	Path to a file containing the credentials to log on with an SSO2 ticket (Single-Sign_On) - instead of USER&PASSWORD - or with an "Assertion" ticket (starting with back-end release 7.00).
NO_COMPRESSION	Specification for whether or not the RC protocol compress tables.
NO_START_DATE	Specification for whether or not to include jobs with no start date in selection criteria.
ON_CCE	Specification for what the NW RFC library will do when it encounters a character that either does not exist in the target codepage, is a broken character or is a control character (0x00 - 0x19).
OPERATING_SYSTEM	Name of the operating system for which external commands are searched.
OUTPUT_FIELD_LIST	Additional fields to write for the select command.
PAGE_LIMIT	Maximum number of pages that can be returned in the syslog report.
PASSWORD	Password for the SAP user ID.
PCS	<p>As documented by SAP: The PCS option specifies a Partner Character Size. It is rarely needed, as during the initial handshake, the RFC library obtains the correct value from the back-end and uses it from then on.</p> <p>However, a rare use case could be that the back-end is Unicode and you want to use a non-ISO-Latin-1 username or password for the initial logon. As the initial handshake is done with ISO-Latin-1, the characters in username/passwd would break, resulting in a refused logon. In that case, set PCS=2 and the RFC library will use Unicode for the initial handshake. </p>
PLF_DIRECTORY	Program Lock File directory that specifies the location of the USAP program lock file.
PRINTER_NAME	Name of a printer for which the print formats will be retrieved.
PROCESS_LOGS	Specification for whether or not the process logs will be returned.
PROFILE_ID	ID of the profile.
PROFILE_TYPE	Type of profile.
PURGE_BDC_MAP	Specification for whether or not to delete BDC Batch input session queues that have been processed successfully.
PURGE_CHILD_JOBS	Controls the purging of child jobs.
PURGE_JOB	Purge job that has completed processing from SAP system.

Option	Description
QUEUE_ID	Queue identifier associated with the batch input session.
QUEUE_ID_PATTERN	Locates the header record and determines the offset of the queue ID in the RSBDCSUB batch input processing report.
R3_NAME	System ID of the SAP system to which you want to connect for a Type B RFC connection.
RAW_SPOOL	Specification for whether the SAP spool lists will be returned from the SAP system in raw or plain format.
REQUEST_ID	Request ID for InfoPackage instance for which the status is to be displayed.
RESOLVE_MULTI_MODEL	For operations that work with model jobs without providing a job ID to explicitly target a specific job on the SAP system, controls the behavior when multiple candidate jobs are found.
RESTART	Specification for whether or not this execution of USAP is a restart of a previous client fault tolerant USAP command.
RETRY_CALL_COUNT	Number of unsuccessful RFC call retry attempts that can occur before USAP terminates the RFC call retry process and ends unsuccessfully.
RETRY_CALL_INTERVAL	Number of seconds that will elapse between a failed RFC call and the retry of that call.
RETURN_APPLICATION_LOG	Specification for whether or not the job's application log is returned.
RETURN_APPLICATION_RC	Specification for whether or not the job's application return codes are returned.
RETURN_JOB_LOG	Specification for whether or not the job's job log is returned.
RETURN_SPOOL_LIST	Specification for whether or not the spoollists of all job steps are returned.
RFC_TRACE	Trace level of all connections / destinations.
SAPROUTER	SAPRouter string for the NW RFC connection.
SECURE_CFT	Mode of client fault tolerance to be used for the command invocation.
SERVER_STOP_CONDITIONS	Exit code(s) of the executing Universal Connector process that should trigger the locally running Universal Broker to cancel the corresponding SAP job.
SNC_LIB	Full path and name of a third-party security library to use for SNC communication (authentication, encryption, and signatures).
SNC_MODE	Specification for whether or not SNC should be activated for the SAP RFC connection.
SNC_MYNAME	Token/identifier representing the external RFC program.
SNC_PARTNERNAME	Token/identifier representing the back-end system.
SNC_QOP	Quality of protection level.
SNC_SSO	Specification for whether or not to use SNC single sign-on if SNC is enabled.
SOURCE_SYSTEM	Source system mask for which the InfoPackages were created.
SPOOL_CODEPAGE	Codepage to be used for transferring spool lists from the SAP system.
SPOOL_ID	Spool list request number in an SAP system.

Option	Description
SPOOL_LIST_CHILD	Controls the printing of spoolists for child jobs.
SPOOL_RECEIVE_BUFFER	Size of the blocks (number of pages) used when transferring spool lists.
START	Starts the newly defined job.
STATUS_ABORTED	Specification for whether or not to include jobs with status aborted in selection criteria.
STATUS_CHECK_INTERVAL	Length of time that can elapse, without a change in job status, before a call will be made to synchronize the actual job status with the SAP stored status.
STATUS_FINISHED	Specification for whether or not to include jobs with status finished in selection criteria.
STATUS_READY	Specification for whether or not to include jobs with status ready in selection criteria.
STATUS_RELEASED	Specification for whether or not to include jobs with status released in selection criteria.
STATUS_RUNNING	Specification for whether or not to include jobs with status running in selection criteria.
STATUS_SCHEDULED	Specification for whether or not to include jobs with status scheduled in selection criteria.
STEP_NUMBER	Step number of the SAP job step.
SUBMIT	Defines a job to the SAP system.
SYSLOG	Requests entries from an SAP System syslog for a specified date and time range.
SYSLOG_POST_TIME	Length of time to add to the job end time when calculating the to time for the syslog report.
SYSLOG_PRE_TIME	Length of time to subtract from the job release time when calculating the from time for the syslog report.
SYSTEM_ID	Local Universal Broker with which USAP must register before the Manager performs any request.
SYSTEM_NUMBER	SAP system number of an SAP application server for a Type A RFC connection.
TARGET_JOB_NAME	Name to give the newly created job.
TARGET_SERVER	Server on which the job will run.
TARGET_VARIANT	One or more replacement variants for ABAP program job steps in an SAP job.
TARGET_VARIANTNAME	Name given to a copied VARIANT on an SAP system.
TECHNICAL_DEVICE_NAME	Complete device name or a mask used to select SAP output devices that match the mask.
TIMEOUT_INTERVAL	Number of seconds that can elapse before USAP considers an RFC call to have timed out.
TO_DATE	Latest date to use for job selection or syslog request.
TO_TIME	Latest time to use for job selection or syslog request.
TRACE_DIRECTORY	Directory where RFC trace files will be written.
TRACE_FILE_LINES	Maximum number of lines to write to the trace file.
TRACE_TABLE	Trace table size and under what conditions it is written to a file.

Option	Description
TRANSLATION_TABLE	Spoolist translation table file to use for formatting returned spoolists.
USAP_POLL	Length of time to wait between job status calls to the SAP system.
USE_APPLICATION_RC	Specification for whether or not the job's application return codes are used to determine the exit code of the Universal Connector job.
USE_SYMBOLIC_NAMES	Specification for whether the NW RFC library, during group-logon, should use symbolic service names defined in /etc/services (such as sapgw33, or hard-coded port numbers derived from the instance number (such as 3300).
USER_ID	SAP user ID with which to logon to the SAP system.
USER_NAME	User ID associated with a job.
VARIANT	Pre-existing SAP variant name to use as the model variant.
VARIANT_LANGUAGE	Preferred language in which to return the variant description.
VARIANT_SELECTION	Specification to display either variants available for batch and dialog mode or variants available only for batch mode.
VERSION	Writes USAP version and copyright information.
WAIT	Wait for the SAP job to complete processing.
WAIT_FOR_CHILD_JOBS	Controls the monitoring of child jobs.
WITH_PREDECESSOR	Specification for whether or not to include jobs with start after predecessor in selection criteria.
X509CERT	Path to a file containing the credentials to log on with an X509 certificate ticket instead of USER&PASSWORD.
XMI_AUDIT_LEVEL	Sets the XMI audit level to be used for the execution of the command.

15.4 ABAP_NAME - USAP configuration option

15.4.1 Description

The ABAP_NAME option specifies the name of an ABAP program in an SAP system.

Note

For the [DISPLAY REPORTS](#) command, ABAP_NAME is either a complete ABAP name or a mask used to select SAP ABAP reports that match the mask. A mask contains an asterisk (*) to represent 0 or more characters of an ABAP name.

15.4.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-a <i>abapname</i>			✓	✓	✓
Command Line, Long Form	-abapname <i>abapname</i>			✓	✓	✓
Environment Variable	USAPABAPNAME= <i>abapname</i>			✓	✓	
Configuration File Keyword	n/a					

15.4.3 Value

abapname is the name of an ABAP program.

Note

For the [GENERATE VARIANT DEFINITION FILE](#) command, *abapname* is the name of an ABAP program in an SAP system to which the model variant belongs.

15.4.4 Command Usage

The ABAP_NAME option is used in the following Universal Connector for SAP commands:

- [DISPLAY REPORTS](#)
- [DISPLAY SELECTION SCREEN](#)
- [DISPLAY VARIANT](#)
- [DISPLAY VARIANTS](#)
- [GENERATE VARIANT DEFINITION FILE](#)
- [PURGE VARIANT](#)
- [SUBMIT VARIANT](#)

15.5 ACTIVITY_MONITORING - USAP configuration option

15.5.1 Description

The ACTIVITY_MONITORING option specifies whether or not product activity monitoring events are generated.

15.5.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Long Form	n/a					
Environment Variable	n/a					
Configuration File Keyword	activity_monitoring <i>option</i>			✓	✓	✓

15.5.3 Values

option is the specification for whether or not product activity monitoring events are generated.

Valid values for *option* are:

- **yes**
Activate product activity monitoring events
- **no**
Deactivate product activity monitoring events

Default is yes.

15.5.4 Command Usage

The ACTIVITY_MONITORING option is an [EVENT](#) option.

EVENT options are associated with program execution, not commands. They are required for event generation, and can be specified only in the configuration file.

15.6 ALLOW_AUTO_RESTART - USAP configuration option

15.6.1 Description

The ALLOW_AUTO_RESTART option specifies whether or not a [RESTART](#) option value of **auto** will be allowed.

ALLOW_AUTO_RESTART provides some protection from the incorrect use of the [RESTART auto](#) value. When ALLOW_AUTO_RESTART is set to the default value (**no**) in the configuration file, it takes a conscious effort to override the option for a given command.

15.6.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	n/a					
Environment Variable	n/a					
Configuration File Keyword	activity_monitoring <i>option</i>			✓	✓	✓

15.6.3 Value

option is the specification for whether or not a RESTART option value of *AUTO* will be allowed.

Valid values for *option* are:

- **yes**
Universal Connector is restarting an existing unit of work represented by a command ID. The COMMAND_ID and client fault tolerant (CFT) options are required.
- **no**
Universal Connector is not restarting.

Default is no.

15.6.4 Command Usage

The ALLOW_AUTO_RESTART option is a [CFT \(Client Fault Tolerant\)](#) option.

CFT (Client Fault Tolerant) options are associated with program execution, not commands. They are used to configure a client fault tolerant job run.

15.7 ALLOW_VARIANT_TRUNCATION - USAP configuration option

15.7.1 Description

The allow_variant_truncation option specifies whether or not the user wants their variant name to be truncated to fit within the SAP max variant name length.

15.7.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	NONE					
Command Line, Long Form	-allow_variant_truncation opt			✓	✓	✓
Environment Variable	USAP_ALLOW_VARIANT_TRUNCATION opt			✓	✓	✓
Configuration File Keyword	allow_variant_truncation opt			✓	✓	✓

15.7.3 Value

opt is the specification for whether or not to allow truncation

Valid values for this option are:

- yes**
-Truncation is allowed and an overflow check will not be performed, allowing a variant name length that is greater than the

SAP max allowed length to pass

no

-Truncation is not allowed and an overflow check will be performed and will error if the variant name length is greater than the SAP max allowed length

Default value is no.

15.7.4 Command Usage

The ALLOW_VARIANT_TRUNCATION option is used in conjunction with other SAP commands that specify a variant name

15.8 AS_HOST - USAP configuration option

15.8.1 Description

The AS_HOST option specifies the host name of an SAP application server for a Type A RFC connection.

AS_HOST, in conjunction with the [SYSTEM_NUMBER](#) option, can be used instead of the [DESTINATION](#) option to define a connection to an SAP system.

15.8.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-ashost <i>hostname</i>			✓	✓	✓
Environment Variable	USAPASHOST <i>hostname</i>			✓	✓	
Configuration File Keyword	ashost <i>hostname</i>			✓	✓	✓

15.8.3 Value

hostname is the host name of an SAP application server.

15.8.4 Example

-ashost " /H/192.168.30.17/S/3297/H/155.56.49.28/H/cpcb701"

Note

The space following the opening quotation mark for the -ashost value is required for Universal Connector to properly parse a typical ahost value.

15.8.5 Command Usage

The AS_HOST option is a [HOST](#) option.

HOST options are associated with program execution, not commands. They are required to establish a connection with an SAP system.

15.9 BATCH_MONITOR - USAP configuration option

15.9.1 Description

The BATCH_MONITOR option causes Universal Connector for SAP to perform batch input monitoring for the job specified by the [JOB_NAME](#) and [JOB_ID](#) options.

Note

This requires that the job being started is a single step job executing ABAP program RSBDCSUB.

Universal Connector for SAP will wait for the job to complete.

- If the job completes unsuccessfully, Universal Connector for SAP will exit with Universal Connector for SAP **terminated** job status exit code.
- If the job completes successfully, Universal Connector for SAP will retrieve the spoolist generated by RSBDCSUB.
 - If RSBDCSUB does not select any sessions for processing, Universal Connector for SAP will issue a warning message and end with exit code 4.
 - If RSBDCSUB selects sessions for processing, Universal Connector for SAP extracts the session processing information from the RSBDCSUB spoolist and begins monitoring all session processing jobs kicked off by RSBDCSUB.

As each session processing job completes, Universal Connector for SAP retrieves the state of the corresponding queue and converts it to a Universal Connector for SAP queue state exit code. When all session processing jobs have completed, Universal Connector for SAP prints a completion status message to standard out and exits with the highest Universal Connector queue state exit code retrieved.

15.9.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-bdwait			✓	✓	✓

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.9.3 Value

(There are no values used with this option.)

15.9.4 Command Usage

The BATCH_MONITOR option is used in the following Universal Connector for SAP commands:

- [BDCWAIT](#)
- [START JOB](#)

15.10 BIF_DIRECTORY - USAP configuration option

15.10.1 Description

The BIF_DIRECTORY option specifies the Broker Interface File (BIF) directory where the Universal Broker interface file, **ubroker.bif**, is located.

15.10.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-bif_directory <i>directory</i>			✓		
Environment Variable	USAPBIFDIRECTORY= <i>directory</i>			✓		
Configuration File Keyword	n/a					

15.10.3 Values

directory is the name of the BIF directory.

Default = `/var/opt/universal`.

15.10.4 Command Usage

The BIF_DIRECTORY option is a [LOCAL](#) option.

LOCAL options are associated with program execution, not commands. They are required for local broker registration.

15.11 CFIT - USAP configuration option

15.11.1 Description

The CFIT (Conversion Fault Indicator Token) option specifies the substitute symbol to use if the [ON_CCE](#) option value is 2 (replace the character).

15.11.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_cfit <i>symbol</i>			✔	✔	
Environment Variable	USAP_RFC_CFIT= <i>symbol</i>			✔	✔	
Configuration File Keyword	rfc_cfit <i>symbol</i>			✔	✔	

15.11.3 Value

symbol specifies the substitute symbol to use if the [ON_CCE](#) option value is 2 (replace the character).

The substitute symbol must be specified as a hexadecimal value of a Unicode codepoint.

Default is 0x0023 ("# character").

15.11.4 Command Usage

The CFIT option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.12 CFT_ABAP_PROGRAM - USAP configuration option

15.12.1 Description

The CFT_ABAP_PROGRAM option specifies the ABAP program to use for the command ID job step.

CFT_ABAP_PROGRAM applies only when the secure CFT mode is used (see the [SECURE_CFT](#) option). It is ignored otherwise.

15.12.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-cft_abap <i>program</i>			✓	✓	✓
Environment Variable	USAP_CFT_ABAP= <i>program</i>			✓	✓	
Configuration File Keyword	cft_abap <i>program</i>			✓	✓	✓

15.12.3 Value

program is the ABAP program to use for the command ID job step.

Default = BTCTEST.

15.12.4 Command Usage

The CFT_ABAP_PROGRAM option is a [CFT \(Client Fault Tolerant\)](#) option.

CFT (Client Fault Tolerant) options are associated with program execution, not commands. They are used to configure a client fault tolerant job run.

15.13 CFT_COMMAND_PREFIX - USAP configuration option

15.13.1 Description

The CFT_COMMAND_PREFIX option specifies (in pre-XBP 2.0 CFT mode only) the command prefix required for the operating system of the target host.

CFT_COMMAND_PREFIX is used with (and only applies to) the [COMMAND_ID](#) option.

If the pre-XBP 2.0 CFT mode is not used, CFT_COMMAND_PREFIX is ignored.

See [Client Fault Tolerance Command Prefix](#) for additional information.

15.13.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-cft_cmd_prefix <i>prefix</i>			✓	✓	✓
Environment Variable	USAP_CFT_CMD_PREFIX <i>host</i>			✓	✓	

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Configuration File Keyword	cft_cmd_prefix <i>prefix</i>			✓	✓	✓

15.13.3 Value

prefix is the target host to use for the command ID job step when the command ID option is used.

Default is cmd/C.

15.13.4 Command Usage

The CFT_COMMAND_PREFIX option is a [CFT \(Client Fault Tolerant\)](#) option.

CFT (Client Fault Tolerant) options are associated with program execution, not commands. They are used to configure a client fault tolerant job run.

15.14 CFT_TARGET_HOST - USAP configuration option

15.14.1 Description

The CFT_TARGET_HOST option specifies (in pre-XBP 2.0 CFT mode only) the target host to use for the command ID job step when the command ID option is used.

If the pre-XBP 2.0 CFT mode is not used, CFT_TARGET_HOST is ignored (see [SECURE_CFT](#) option).

15.14.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-cft_target_host <i>host</i>			✓	✓	✓
Environment Variable	USAP_CFT_TARGET_HOST <i>host</i>			✓	✓	
Configuration File Keyword	cft_target_host <i>host</i>			✓	✓	✓

15.14.3 Value

host is the target host to use for the command ID job step when the command ID option is used.

15.14.4 Command Usage

The CFT_TARGET_HOST option is a [CFT \(Client Fault Tolerant\)](#) option.

CFT (Client Fault Tolerant) options are associated with program execution, not commands. They are used to configure a client fault tolerant job run.

15.15 CHAIN_DESCRIPTION - USAP configuration option

15.15.1 Description

The CHAIN_DESCRIPTION option specifies the text description mask for process chains to be displayed.

15.15.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-chaindesc <i>description</i>			✓	✓	✓
Environment Variable	USAPCHAINDESC= <i>description</i>			✓	✓	
Configuration File Keyword	n/a					

15.15.3 Value

description is the text description mask for process chains to be displayed.

The * wildcard is accepted.

15.15.4 Command Usage

The CHAIN_DESCRIPTION option is used in the following Universal Connector command:

- [DISPLAY PROCESS CHAINS](#)

15.16 CHAIN_ID - USAP configuration option

15.16.1 Description

The CHAIN_ID option specifies the ID of a process chain on the SAP system.

For the [DISPLAY PROCESS CHAINS](#) command, this is a mask that may select multiple process chains.

15.16.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-chainid <i>chainid</i>			✓	✓	✓
Environment Variable	USAPCHAINID= <i>chainid</i>			✓	✓	
Configuration File Keyword	n/a					

15.16.3 Value

chainid is the ID of a process chain.

For the [DISPLAY PROCESS CHAINS](#) command, this value can be a mask including the * wildcard.

15.16.4 Command Usage

The CHAIN_ID option is used in the following Universal Connector commands:

- [DISPLAY PROCESS CHAINS](#)
- [RUN PROCESS CHAIN](#)

15.17 CHAIN_LOG - USAP configuration option

15.17.1 Description

The CHAIN_LOG option specifies whether or not the process chain log will be returned.

15.17.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-chainlog <i>option</i>			✓	✓	✓
Environment Variable	USAPCHAINLOG= <i>option</i>			✓	✓	
Configuration File Keyword	-print_chainlog <i>option</i>			✓	✓	✓

15.17.3 Value

option is the specification for whether or not the process chain log will be returned.

Valid values for *option* are:

- **yes**
Process chain log will be returned.
- **no**
Process chain log will be not returned.

Default is yes.

15.17.4 Command Usage

The CHAIN_LOG option is used in the following Universal Connector commands:

- [START PROCESS CHAIN](#)
- [WAIT for PROCESS CHAIN](#)

15.18 CLIENT - USAP configuration option

15.18.1 Description

The CLIENT option specifies the SAP client number for a Type A RFC connection.

15.18.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-c <i>client</i>			✓	✓	✓
Command Line, Long Form	-client <i>client</i>			✓	✓	✓
Environment Variable	USAPCLIENT= <i>client</i>			✓	✓	
Configuration File Keyword	client <i>client</i>			✓	✓	✓

15.18.3 Value

client is the SAP client number.

15.18.4 Command Usage

The CLIENT option is a [HOST](#) option.

HOST options are associated with program execution, not commands. They are required to establish a connection with an SAP system.

15.19 CODEPAGE - USAP configuration option

15.19.1 Description

As documented by SAP: The CODEPAGE option is similar to the [PCS](#) option. It is needed only if you want to connect to a non-Unicode back-end using a non-ISO-Latin-1 username or password. The RFC library will then use that codepage for the initial handshake, thus preserving the characters in username/password.

15.19.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_codepage <i>codepage</i>			✓	✓	
Environment Variable	USAP_RFC_CODEPAGE= <i>codepage</i>			✓	✓	
Configuration File Keyword	rfc_codepage <i>codepage</i>			✓	✓	

15.19.3 Value

codepage is the codepage to use for the initial handshake:

1401	ISO-Latin-2
1500	ISO-Latin-5/Cyrillic
1600	ISO-Latin-3
1610	ISO-Latin-9/Turkish
1700	ISO-Latin-7/Greek
1800	ISO-Latin-8/Hebrew
1900	ISO-Latin-4/Lithuanian/Latvian
8000	Japanese
8300	Traditional Chinese
8400	Simplified Chinese
8500	Korean

8600	Thai
8700	ISO-Latin-6/Arabic

Note

These values can be customized in the bac-kend; however first consult the back-end system administrator.

15.19.4 Command Usage

The CODEPAGE option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.20 COMMAND_ID - USAP configuration option

15.20.1 Description

The COMMAND_ID option specifies an identifier used to identify the unit of work represented by a Universal Connector command and the associated SAP job.

15.20.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-cmdid <i>id</i>			✓	✓	✓
Environment Variable	USAPCMDID= <i>id</i>			✓	✓	
Configuration File Keyword	n/a					

15.20.3 Value

id is the identifier used to identify the unit of work represented by a USAP command and the associated SAP job.

id can be any value (maximum length of 50 characters).

If *id* contains spaces, it must be enclosed in double (") or single (') quotation marks.

15.20.4 Command Usage

The COMMAND_ID option is a [CFT \(Client Fault Tolerant\)](#) option.

CFT (Client Fault Tolerant) options are associated with program execution, not commands. They are used to configure a client fault tolerant job run.

15.21 DATA_SOURCE - USAP configuration option

15.21.1 Description

The DATA_SOURCE option specifies the Data Source mask for which the InfoPackages were created.

15.21.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-datasource <i>mask</i>			✓	✓	✓
Environment Variable	USAP_DATASOURCE= <i>mask</i>			✓	✓	
Configuration File Keyword	n/a					

15.21.3 Value

mask is the Data Source mask for which the InfoPackages were created.

Wildcards are accepted.

15.21.4 Command Usage

The DATA_SOURCE option is used in the following Universal Connector command:

- [DISPLAY INFOPACKAGES](#)

15.22 DELTA - USAP configuration option

15.22.1 Description

The DELTA option specifies whether or not to use delta-manager when serializing / deserializing table parameters passed by using TABLES clause.

15.22.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_delta <i>option</i>			✓	✓	
Environment Variable	USAP_RFC_DELTA= <i>option</i>			✓	✓	
Configuration File Keyword	rfc_delta <i>option</i>			✓	✓	

15.22.3 Value

option specifies whether or not to use delta-manager when serializing / deserializing table parameters passed by using TABLES clause:

- 0
Do not use delta-manager.
- 1
Use delta-manager

Default is 1.

15.22.4 Command Usage

The DELTA option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.23 DESTINATION - USAP configuration option

15.23.1 Description

The DESTINATION option specifies the name of a destination defined in the **saprfc.ini** file.

The **saprfc.ini** file must be in the current directory, or its full path must be specified in environment variable **RFI_INI**.

15.23.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-e <i>destination</i>			✓	✓	✓
Command Line, Long Form	-dest <i>destination</i>			✓	✓	✓

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Environment Variable	USAPDEST= <i>destination</i>			✓	✓	
Configuration File Keyword	Destination <i>destination</i>			✓	✓	✓

15.23.3 Value

destination is the name of a destination defined in the **saprfc.ini** file.

15.23.4 Command Usage

The DESTINATION option is a **HOST** option.

HOST options are associated with program execution, not commands. They are required to establish a connection with an SAP system.

15.24 DISABLE_USERPWD_PROMPT - USAP configuration option

15.24.1 Description

The `disable_userpwd_prompt` option specifies whether or not the user wants to be prompted to authenticate with username/password.

15.24.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	NONE					
Command Line, Long Form	-disable_userpwd_prompt opt			✓	✓	✓
Environment Variable	USAP_DISABLE_USERPWD_PROMPT opt			✓	✓	✓
Configuration File Keyword	disable_userpwd_prompt opt			✓	✓	✓

15.24.3 Value

opt is the specification for whether or not to be prompted for authentication with a username/password

Valid values for this option are:

yes

-The username/password authentication prompt is disabled and another form of authentication is required to login

no

-The username/password authentication prompt is not disabled and the user will be prompted for a username/password regardless if another form of authentication is provided

Default value is no.

15.24.4 Command Usage

The DISABLE_USERPWD_PROMPT option is used when authenticating with a certificate so that the user is not also prompted for a username/password login.

15.24.5 Notes

In order for certificate-based authentication to work the user must have a valid PSE file that can be used by USAP and can authenticate against the private key that is on the SAP system.

15.25 DISPLAY_CLIENT - USAP configuration option

15.25.1 Description

The DISPLAY_CLIENT option identifies a specific SAP client whose intercepted jobs will be reported. If a specific client is not specified with this option, intercepted jobs from all clients will be included in the report.

15.25.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-dspclient <i>client</i>			✓	✓	✓
Environment Variable	USAPDSPCLIENT <i>client</i>			✓	✓	
Configuration File Keyword	dspclient <i>client</i>			✓	✓	✓

15.25.3 Value

client is the specific SAP client whose intercepted jobs will be reported.

15.25.4 Command Usage

The DISPLAY_CLIENT option is used in the following Universal Connector command:

- [DISPLAY INTERCEPTED_JOBS](#)

15.26 ENABLE_JOB_STATUS_CHECK - USAP configuration option

15.26.1 Description

The ENABLE_JOB_STATUS_CHECK option enables or disables calls to SAP function module BAPI_XBP_JOB_STATUS_CHECK, which are used to synchronize the actual job status with the R/3 stored status.

If ENABLE_JOB_STATUS_CHECK is enabled, calls to BAPI_XBP_JOB_STATUS_CHECK will be made at the interval (number of seconds) specified by the [STATUS_CHECK_INTERVAL](#) configuration option, if there is no change in status.

15.26.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a			✓	✓	✓
Command Line, Long Form	-job_stat_check <i>option</i>			✓	✓	✓
Environment Variable	USAP_JOB_STAT_CHECK= <i>option</i>			✓	✓	
Configuration File Keyword	enable_job_stat_check <i>option</i>			✓	✓	✓

15.26.3 Value

option is the specification for whether or not calls to SAP function module BAPI_XBP_JOB_STATUS_CHECK are enabled or disabled.

Valid values for *option* are:

- **yes**
Job status check is enabled.
- **no**
Job status check is disabled.

Default is yes.

15.26.4 Command Usage

The ENABLE_JOB_STATUS_CHECK option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [MASS ACTIVITY WAIT](#)
- [RUN JOB](#)
- [WAIT for JOB](#)

15.27 ENCRYPT_FILE - USAP configuration option

15.27.1 Description

The ENCRYPT_FILE option specifies the file name (ddname for z/OS) of an encrypted text command file. If ENCRYPT_FILE does not specify a file name, the command file is read from stdin.

Note

If both the ENCRYPT_FILE and [FILE_NAME](#) options are used, ENCRYPT_FILE is ignored.

15.27.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-x <i>name</i>			✓	✓	✓
Command Line, Long Form	-encryptedfile <i>name</i>			✓	✓	✓
Environment Variable	USAPENCRYPTEDFILE= <i>name</i>			✓	✓	
Configuration File Keyword	n/a					

15.27.3 Value

name is the name (ddname for z/OS) of the encrypted text command file.

15.27.4 Command Usage

The ENCRYPT_FILE option is a [COMMAND FILE](#) option.

COMMAND FILE options are associated with program execution, not commands. They are used to specify a file as a source of configuration options used for a command execution.

15.28 ENCRYPTION_KEY - USAP configuration option

15.28.1 Description

The ENCRYPTION_KEY option specifies the key used to encrypt the command file.

This key acts much like a password for the encrypted command file. If a key was used to encrypt a command file (when Universal Encrypt was run), that same key must be specified to decrypt the file; otherwise, the decryption will fail.

If no key is specified, a default value is provided.

15.28.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-K <i>key</i>			✓	✓	✓
Command Line, Long Form	-key <i>key</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.28.3 Value

key is the name of the key used to encrypt the command file.

15.28.4 Command Usage

The ENCRYPTION_KEY option is a [COMMAND FILE](#) option.

COMMAND FILE options are associated with program execution, not commands. They are used to specify a file as a source of configuration options used for a command execution.

15.29 EVENT_ACTION - USAP configuration option

15.29.1 Description

The EVENT_ACTION option specifies whether or not the status of returned events should be changed in the SAP system.

15.29.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-event_action <i>action</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.29.3 Value

action is the action to take on the status changed events.

Valid values for *action* are:

- **C**
Sets the status of read events from NEW to CONFIRMED.
- **N**
Leaves the status of read events as NEW.

Default is N.

15.29.4 Command Usage

The EVENT_ACTION option is used in the following Universal Connector command:

- [DISPLAY EVENT HISTORY](#)

15.30 EVENT_GENERATION - USAP configuration option

15.30.1 Description

The EVENT_GENERATION option specifies which types of [events](#) are to be generated and processed as persistent events by the [Universal Event Subsystem](#) (UES).

A persistent event record is saved in a Universal Enterprise Controller (UEC) database, the [UES database](#) (*uec.evm.db*), for long-term storage.

For a list of all event types for all Universal Agent components, see [Event Definition Details](#).

15.30.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	n/a					
Environment Variable	n/a					
Configuration File Keyword	event_generation types			✓	✓	✓

15.30.3 Values

type specifies a comma-separated list of event types. It allows for all or a subset of all potential event message types to be selected.

Event type ranges can be specified by separating the lower and upper range values with a dash (-) character.

Event types can be selected for inclusion or exclusion:

- Inclusion operator is an asterisk (*).
- Exclusion operator is **X** or **x**.

15.30.4 Examples

- 100,101,102
Generate event types 100, 101, and 102.
- 100-102
Generate event types 100 through 102.
- 100-102,200
Generate event types 100 through 102 and 200.
- *
Generate all event types.
- *,X100
Generate all event types except for 100.
- x*
Generate no event types.
- *,X200-250,!300
Generate all event types except for 200 through 250 and 300.

Default is X* (no event types).

15.30.5 Command Usage

The EVENT_GENERATION option is an [EVENT](#) option.

EVENT options are associated with program execution, not commands. They are required for event generation, and can be specified only in the configuration file.

15.31 EVENT_ID - USAP configuration option

15.31.1 Description

The EVENT_ID option specifies the name of the event.

15.31.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-event_id <i>id</i>			✓	✓	✓
Environment Variable	USAPREVENTID= <i>id</i>			✓	✓	

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Configuration File Keyword	n/a					

15.31.3 Value

id is the name of the event.

15.31.4 Command Usage

The EVENT_ID option is used in the following Universal Connector commands:

- [DISPLAY EVENT HISTORY](#)
- [RAISE EVENT](#)

15.32 EVENT_PARAMETER - USAP configuration option

15.32.1 Description

The EVENT_PARAMETER option specifies the optional parameter value for the event.

15.32.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-event_parm <i>parm</i>			✓	✓	✓
Environment Variable	USAPREVENTPARAM= <i>parm</i>			✓	✓	
Configuration File Keyword	n/a					

15.32.3 Value

parm is the optional parameter value for the event.

15.32.4 Command Usage

The EVENT_PARAMETER option is used in the following Universal Connector commands:

- [DISPLAY EVENT HISTORY](#)
- [RAISE EVENT](#)

15.33 EVENT_SELECT_STATE - USAP configuration option

15.33.1 Description

The EVENT_SELECT_STATE option specifies the event status of the events which should be read.

15.33.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-event_select_action state			✔	✔	✔
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.33.3 Value

state is the action to take on the status changed events.

Valid values for state are:

- **N**
Return events that are in status NEW. This includes events that were newly logged and have not been read yet, or events that have been read but not marked as confirmed by the external scheduler.
- **C**
Return events which were marked by the external scheduler as CONFIRMED.
- **A**
Return events regardless of their status.

Default is A.

15.33.4 Command Usage

The EVENT_SELECT_STATE option is used in the following Universal Connector command:

- [DISPLAY EVENT HISTORY](#)

15.34 EXIT_JOB_ACTIVE - USAP configuration option

15.34.1 Description

The EXIT_JOB_ACTIVE option specifies the USAP exit code for the SAP job **active** status.

15.34.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-activeec <i>exitcode</i>			✓	✓	✓
Environment Variable	USAPACTIVEEXITCODE= <i>exitcode</i>			✓	✓	
Configuration File Keyword	active_exit_code <i>exitcode</i>			✓	✓	✓

15.34.3 Value

exitcode is the USAP exit code for the SAP job **active** status.

15.34.3.1 Defaults

- Internal default = 10.
- Configuration default = 10.

15.34.4 Command Usage

The EXIT_JOB_ACTIVE option is used in the following Universal Connector command:

- [DISPLAY STATUS](#)

15.35 EXIT_JOB_FINISHED - USAP configuration option

15.35.1 Description

The EXIT_JOB_FINISHED option specifies the USAP exit code for the SAP job **finished** status.

15.35.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-finishedec <i>exitcode</i>			✓	✓	✓
Environment Variable	USAPFINISHEDEXITCODE= <i>exitcode</i>			✓	✓	

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Configuration File Keyword	finished_exit_code <i>exitcode</i>			✓	✓	✓

15.35.3 Value

exitcode is the USAP exit code for the SAP job **finished** status.

15.35.3.1 Defaults

- Internal default = 20.
- Configuration default = 0.

15.35.4 Command Usage

The EXIT_JOB_FINISHED option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [DISPLAY STATUS](#)
- [MASS ACTIVITY WAIT](#)
- [RUN JOB](#)
- [START JOB](#)
- [WAIT for JOB](#)

15.36 EXIT_JOB_READY - USAP configuration option

15.36.1 Description

The EXIT_JOB_READY option specifies the USAP exit code for the SAP job **ready** status.

15.36.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-readyec <i>exitcode</i>			✓	✓	✓
Environment Variable	USAPREADYEXITCODE= <i>exitcode</i>			✓	✓	
Configuration File Keyword	ready_exit_code <i>exitcode</i>			✓	✓	✓

15.36.3 Value

exitcode is the USAP exit code for the SAP job **ready** status.

15.36.3.1 Defaults

- Internal default = 12.
- Configuration default = 12.

15.36.4 Command Usage

The EXIT_JOB_READY option is used in the following Universal Connector commands:

- [DISPLAY STATUS](#)
- [RUN JOB](#)

15.37 EXIT_JOB_RELEASED - USAP configuration option

15.37.1 Description

The EXIT_JOB_RELEASED option specifies the USAP exit code for the SAP job **released** status.

15.37.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-releasedec <i>exitcode</i>			✓	✓	✓
Environment Variable	USAPRELEASEDEXITCODE= <i>exitcode</i>			✓	✓	
Configuration File Keyword	released_exit_code <i>exitcode</i>			✓	✓	✓

15.37.3 Value

exitcode is the USAP exit code for the SAP job **released** status.

15.37.3.1 Defaults

- Internal default = 16.
- Configuration default = 16.

15.37.4 Command Usage

The EXIT_JOB_RELEASED option is used in the following Universal Connector commands:

- [DISPLAY STATUS](#)
- [RUN JOB](#)

15.38 EXIT_JOB_SCHEDULED - USAP configuration option

15.38.1 Description

The EXIT_JOB_SCHEDULED option specifies the USAP exit code for the SAP job **scheduled** status.

15.38.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-scheduledec <i>exitcode</i>			✓	✓	✓
Environment Variable	USAPCHEDULEDEXITCODE= <i>exitcode</i>			✓	✓	
Configuration File Keyword	scheduled_exit_code <i>exitcode</i>			✓	✓	✓

15.38.3 Value

exitcode is the USAP exit code for the SAP job **scheduled** status.

15.38.3.1 Defaults

- Internal default = 14.
- Configuration default = 14.

15.38.4 Command Usage

The EXIT_JOB_SCHEDULED option is used in the following Universal Connector commands:

- [DISPLAY STATUS](#)
- [RUN JOB](#)

15.39 EXIT_JOB_TERMINATED - USAP configuration option

15.39.1 Description

The EXIT_JOB_TERMINATED option specifies the USAP exit code for the SAP job **terminated** status.

15.39.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-terminatedec <i>exitcode</i>			✓	✓	✓
Environment Variable	USAPTERMINATEDEXITCODE= <i>exitcode</i>			✓	✓	
Configuration File Keyword	terminated_exit_code <i>exitcode</i>			✓	✓	✓

15.39.3 Value

exitcode is the USAP exit code for the SAP job **terminated** status.

15.39.3.1 Defaults

- Internal default = 18.
- Configuration default = 8.

15.39.4 Command Usage

The EXIT_JOB_TERMINATED option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [DISPLAY STATUS](#)
- [MASS ACTIVITY WAIT](#)
- [RUN JOB](#)
- [START JOB](#)
- [WAIT for JOB](#)

15.40 EXIT_MAX_SPOOL_SIZE_EXCEEDED - USAP configuration option

15.40.1 Description

The EXIT_MAX_SPOOL_SIZE_EXCEEDED option specifies the minimum exit code that will be set if an attempt is made to return a spool list that exceeds the maximum size for job logs as specified by the [MAX_SPOOL_LIST_SIZE](#) USAP configuration option. Other conditions encountered may cause the exit code to go higher, but it will never go lower.

15.40.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-maxspoolsizeexceededec <i>exitcode</i>			✓	✓	✓
Environment Variable	USAPMAXSPOOLSIZEEXCEEDED EXITCODE= <i>exitcode</i>			✓	✓	
Configuration File Keyword	max_spool_size_exceeded_exit_c ode <i>exitcode</i>			✓	✓	✓

15.40.3 Value

exitcode is the USAP exit code for the warning condition UNV3069W, which indicates that the requested spool list exceeds the user specified maximum size limit.

15.40.3.1 Defaults

Windows	1
UNIX	1
z/OS	4

15.40.4 Command Usage

The EXIT_JOB_TERMINATED option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [DISPLAY SPOOLLIST](#)
- [MASS ACTIVITY WAIT](#)
- [RUN JOB](#)
- [WAIT for JOB](#)

15.41 EXIT_QUEUE_BACKGROUND - USAP configuration option

15.41.1 Description

The EXIT_QUEUE_BACKGROUND option specifies the USAP exit code for the SAP queue state **S** (in background).

15.41.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-qinbackgroundec <i>exitcode</i>			✓	✓	✓
Environment Variable	USAPINBACKGROUNDEXITCO DE= <i>exitcode</i>			✓	✓	
Configuration File Keyword	-qinbackground_exit_code <i>exitcode</i>			✓	✓	✓

15.41.3 Value

exitcode is the USAP exit code for the SAP queue state **S** (in background).

15.41.3.1 Defaults

- Internal default = 14.
- Configuration default = 10.

15.41.4 Command Usage

The EXIT_QUEUE_BACKGROUND option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [RUN JOB](#)
- [START JOB](#)

15.42 EXIT_QUEUE_CREATED - USAP configuration option

15.42.1 Description

The EXIT_QUEUE_CREATED option specifies the USAP exit code for the SAP queue state **C** (to be created).

15.42.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-qtobecreatedec <i>exitcode</i>			✓	✓	✓
Environment Variable	USAPTOBECREATEDEXITCODE = <i>exitcode</i>			✓	✓	
Configuration File Keyword	-qtobecreated_exit_code <i>exitcode</i>			✓	✓	✓

15.42.3 Value

exitcode is the USAP exit code for the SAP queue state **C** (created).

15.42.3.1 Defaults

- Internal default = 10.
- Configuration default = 14.

15.42.4 Command Usage

The EXIT_QUEUE_CREATED option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [RUN JOB](#)
- [START JOB](#)

15.43 EXIT_QUEUE_ERROR - USAP configuration option

15.43.1 Description

The EXIT_QUEUE_ERROR option specifies the USAP exit code for the SAP queue state **E** (error).

15.43.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-qerrorec <i>exitcode</i>			✓	✓	✓

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Environment Variable	USAPERROREXITCODE= <i>exitcode</i>			✓	✓	
Configuration File Keyword	-qerror_exit_code <i>exitcode</i>			✓	✓	✓

15.43.3 Value

exitcode is the USAP exit code for the SAP queue state **E** (error).

15.43.3.1 Defaults

- Internal default = 18.
- Configuration default = 8.

15.43.4 Command Usage

The EXIT_QUEUE_ERROR option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [RUN JOB](#)
- [START JOB](#)

15.44 EXIT_QUEUE_FINISHED - USAP configuration option

15.44.1 Description

The EXIT_QUEUE_FINISHED option specifies the USAP exit code for the SAP queue state **F** (finished).

15.44.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-qfinishedec <i>exitcode</i>			✓	✓	✓
Environment Variable	USAPFINISHEDEXITCODE= <i>exitcode</i>			✓	✓	
Configuration File Keyword	-qfinished_exit_code <i>exitcode</i>			✓	✓	✓

15.44.3 Value

exitcode is the USAP exit code for the SAP queue state **F** (finished).

15.44.3.1 Defaults

- Internal default = 16.
- Configuration default = 0.

15.44.4 Command Usage

The EXIT_QUEUE_FINISHED option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [RUN JOB](#)
- [START JOB](#)

15.45 EXIT_QUEUE_UNPROCESSED - USAP configuration option

15.45.1 Description

The EXIT_QUEUE_UNPROCESSED option specifies the USAP exit code for the SAP queue state [] (unprocessed).

15.45.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-qunprocessedec <i>exitcode</i>			✓	✓	✓
Environment Variable	USAPUNPROCSSEDEXITCODE = <i>exitcode</i>			✓	✓	
Configuration File Keyword	-qunprocessed_exit_code <i>exitcode</i>			✓	✓	✓

15.45.3 Value

exitcode is the USAP exit code for the SAP queue state [] (unprocessed).

15.45.3.1 Defaults

- Internal default = 12.
- Configuration default = 12.

15.45.4 Command Usage

The EXIT_QUEUE_UNPROCESSED option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [RUN JOB](#)
- [START JOB](#)

15.46 EXTERNAL_COMMAND - USAP configuration option

15.46.1 Description

The EXTERNAL_COMMAND option specifies the name of a command or a mask used to select SAP external commands that match the mask.

15.46.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-cmd <i>name</i>			✓	✓	✓
Environment Variable	USAPCMD= <i>name</i>			✓	✓	
Configuration File Keyword	n/a					

15.46.3 Value

name is the name of a command or a mask used to select SAP external commands that match the mask.

A mask contains an asterisk (*) to represent 0 or more characters of a command name.

15.46.4 Command Usage

The EXTERNAL_COMMAND option is used in the following Universal Connector command:

- [DISPLAY COMMANDS](#)

15.47 FILE_NAME - USAP configuration option

15.47.1 Description

The FILE_NAME option specifies the file name (ddname for z/OS) of a plain text command file.

If FILE_NAME does not specify a file name, the command file is read from stdin.

Note

If both the FILE_NAME and ENCRYPT_FILE options are used, ENCRYPT_FILE is ignored.

15.47.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-f <i>name</i>			✓	✓	✓
Command Line, Long Form	-file <i>name</i>			✓	✓	✓
Environment Variable	USAPFILE= <i>name</i>			✓	✓	
Configuration File Keyword	n/a					

15.47.3 Value

name is the name (ddname for z/OS) of the plain text command file.

15.47.4 Command Usage

The FILE_NAME option is a [COMMAND FILE](#) option.

COMMAND FILE options are associated with program execution, not commands. They are used to specify a file as a source of configuration options used for a command execution.

15.48 FIRST_PAGE - USAP configuration option

15.48.1 Description

The FIRST_PAGE option specifies the starting page from which a spool list will be returned.

15.48.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-first_page <i>page</i>			✓	✓	✓

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Environment Variable	USAPFIRSTPAGE= <i>page</i>			✓	✓	
Configuration File Keyword	n/a					

15.48.3 Value

page is the starting page from which a spool list will be returned.

A relative offset from the last page can be specified by prefixing a negative number with an asterisk.

For example, the last five pages of a spool list could be retrieved by specifying:

```
-first_page *-5
```

Valid values for list are *- **2147483647** to **2147483647**.

Default is 0 - which essentially is equivalent to 1.

15.48.4 Command Usage

The FIRST_PAGE option is used in the following Universal Connector commands:

- [DISPLAY SPOOLLIST](#)
- [RUN JOB](#)
- [WAIT for JOB](#)
- [WAIT for PROCESS CHAIN](#)

15.49 FORCE - USAP configuration option

15.49.1 Description

The FORCE option specifies whether or not the process chain instance associated with a client fault tolerant process chain job is restarted on the SAP system.

See [Client Fault Tolerance - Universal Connector Process Chains](#) for details on the client fault tolerant feature.

15.49.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Window	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-force <i>option</i>			✓	✓	✓
Environment Variable	USAP_FORCE_RESTART= <i>option</i> n			✓	✓	
Configuration File Keyword	force_restart <i>option</i>			✓	✓	✓

15.49.3 Value

option is the specification for whether or not this execution of Universal Connector will restart the SAP process chain instance.

Valid values for option are:

- **yes**
Universal Connector will restart the SAP process chain instance associated with the unit of work represented by a command ID. The [COMMAND_ID](#) and [CFT \(Client Fault Tolerant\)](#) configuration options are required.
- **no**
Universal Connector will not restart the SAP process chain instance associated with the unit of work represented by a command ID.

Default is no.

15.49.4 Command Usage

The FORCE option is a [CFT \(Client Fault Tolerant\)](#) option.

CFT (Client Fault Tolerant) options are associated with program execution, not commands. They are used to configure a client fault tolerant process chain job run.

15.50 FROM_DATE - USAP configuration option

15.50.1 Description

The FROM_DATE option specifies the earliest date to use for job selection or syslog request.

15.50.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-fromdate <i>date</i>			✓	✓	✓
Environment Variable	USAPFROMDATE= <i>date</i>			✓	✓	
Configuration File Keyword	n/a					

15.50.3 Value

date is the earliest date to use for job selection or syslog request.

The format of *date* is:

YYYY/MM/DD

15.50.4 Command Usage

The FROM_DATE option is used in the following Universal Connector commands:

- [DISPLAY SELECT](#)
- [DISPLAY SYSLOG](#)

15.51 FROM_TIME - USAP configuration option

15.51.1 Description

The FROM_TIME option specifies the earliest time to use for job selection or syslog request.

15.51.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-fromtime <i>time</i>			✓	✓	✓
Environment Variable	USAPFROMTIME= <i>time</i>			✓	✓	✓
Configuration File Keyword	n/a					

15.51.3 Value

time is the earliest time to use for job selection or syslog request.

The format of *time* is:

HH:MM:SS

15.51.4 Command Usage

The FROM_TIME option is used in the following Universal Connector commands:

- [DISPLAY SELECT](#)
- [DISPLAY SYSLOG](#)

15.52 GROUP - USAP configuration option

15.52.1 Description

The GROUP option specifies the name of the group of application servers for a Type B RFC connection.

15.52.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-group <i>groupname</i>			✓	✓	✓
Environment Variable	USAPGROUP <i>groupname</i>			✓	✓	
Configuration File Keyword	group <i>groupname</i>			✓	✓	✓

15.52.3 Value

groupname is the the name of the group of application servers.

15.52.4 Command Usage

The GROUP option is a [HOST](#) option.

HOST options are associated with program execution, not commands. They are required to establish a connection with an SAP system.

15.53 GW_HOST - USAP configuration option

15.53.1 Description

The GW_HOST option specifies the host name of the SAP gateway for a Type A RFC connection.

15.53.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-gwhost <i>host</i>			✓	✓	✓
Environment Variable	USAPGWHOST <i>host</i>			✓	✓	
Configuration File Keyword	gwhost <i>host</i>			✓	✓	✓

15.53.3 Value

host is the host name of the SAP gateway.

15.53.4 Command Usage

The GW_HOST option is a [HOST](#) option.

HOST options are associated with program execution, not commands. They are required to establish a connection with an SAP system.

15.54 GW_SERV - USAP configuration option

15.54.1 Description

The GW_SERV option specifies the service name of the SAP gateway for a Type A RFC connection.

15.54.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-gwserv <i>service</i>			✓	✓	✓
Environment Variable	USAPGWSERV <i>service</i>			✓	✓	
Configuration File Keyword	gwserv <i>service</i>			✓	✓	✓

15.54.3 Value

service is the service name of the SAP gateway.

15.54.4 Command Usage

The GW_SERV option is a [HOST](#) option.

HOST options are associated with program execution, not commands. They are required to establish a connection with an SAP system.

15.55 HELP - USAP configuration option

15.55.1 Description

The HELP option displays a description of the Universal Connector command line options and their format.

15.55.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-h			✓	✓	✓
Command Line, Long Form	-help			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.55.3 Value

(There are no values required for this option.)

15.55.4 Command Usage

The HELP option is an [INFORMATIONAL](#) option.

INFORMATIONAL options are associated with program execution, not commands. They request information pertaining to the USAP program.

15.56 IMMEDIATE_JOB - USAP configuration option

15.56.1 Description

The IMMEDIATE_JOB option causes the job to be started immediately.

If the job cannot be started immediately, an error is returned and the job does not wait to start.

The default is to start a job "as soon as possible." In the default case, if the SAP system is unable to start the job, it will keep the job in a waiting state and start it whenever possible.

15.56.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-i			✓	✓	✓
Command Line, Long Form	-immediate			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.56.3 Value

(There are no values used with this option.)

15.56.4 Command Usage

The IMMEDIATE_JOB option is used in the following Universal Connector commands:

- [MODIFY JOB](#)
- [RUN JOB](#)
- [START JOB](#)
- [SUBMIT JOB](#)

15.57 INFO_PACKAGE - USAP configuration option

15.57.1 Description

The INFO_PACKAGE option specifies the name or mask of the InfoPackage to select.

15.57.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-infopackage <i>mask</i>			✓	✓	✓
Environment Variable	USAP_INFOPACKAGE= <i>mask</i>			✓	✓	
Configuration File Keyword	n/a					

15.57.3 Value

mask is the name or mask of the InfoPackage.

Wildcards are accepted for the [DISPLAY INFOPACKAGES](#) command.

15.57.4 Command Usage

The INFO_PACKAGE option is used in the following Universal Connector commands:

- [DISPLAY INFOPACKAGES](#)
- [RUN INFOPACKAGE](#)
- [START INFOPACKAGE](#)

15.58 INFO_SOURCE - USAP configuration option

15.58.1 Description

The INFO_SOURCE option specifies the InfoSource mask for which the InfoPackages were created.

15.58.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-infosource <i>mask</i>			✓	✓	✓
Environment Variable	USAP_INFOSOURCE= <i>mask</i>			✓	✓	
Configuration File Keyword	n/a					

15.58.3 Value

mask is the InfoSource mask for which the InfoPackages were created.

Wildcards are accepted.

15.58.4 Command Usage

The INFO_SOURCE option is used in the following Universal Connector command:

- [DISPLAY INFOPACKAGES](#)

15.59 INSTALLATION_DIRECTORY - USAP configuration option

15.59.1 Description

The `INSTALLATION_DIRECTORY` option specifies the location in which Universal Connector is installed.

15.59.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	n/a					
Environment Variable	n/a					
Configuration File Keyword	<code>installation_directory</code> <i>directory</i>			✔	✔	

15.59.3 Values

directory is the path name for the Universal Connector installation file.

15.59.3.1 Defaults

UNIX	<code>/opt/universal/usap</code>
Windows 64-bit install	<code>C:\Program Files\Universal\UagSrv</code>

15.59.4 Command Usage

The `INSTALLATION_DIRECTORY` option is an [INSTALLATION](#) option.

`INSTALLATION` options are associated with program execution, not commands. They are required for product installation.

15.60 JOB_ID - USAP configuration option

15.60.1 Description

The `JOB_ID` option specifies the job ID of an SAP job.

The type of job depends on the command being used, as shown in the following table.

Command	Type of Job
RUN JOB SUBMIT JOB MASS ACTIVITY WAIT	ID of an existing SAP job to use as a model for the new job definition.
MODIFY JOB	ID of an existing SAP job to be modified. The job ID can be specified on the command line or in the job definition file. The command line job ID will override the job definition file job ID when both are present.
START JOB	ID of an existing SAP job to start.
WAIT for JOB	ID of a started SAP job.
BDCWAIT	ID of a started SAP job. It must be a single step job that executes ABAP program RSBDCSUB.
ABORT	ID of an existing SAP job to abort.
PURGE JOB	ID of an existing SAP job to purge.
DISPLAY JOBLIST DISPLAY SPOOLLIST DISPLAY STATUS DISPLAY JOBDEF	ID of an existing SAP job to select.
DISPLAY_SELECT	Either a complete job ID or a job ID mask used to select SAP jobs that match the mask. A mask contains an asterisk (*) to represent 0 or more characters of a job ID.
GENERATE JOB DEFINITION FILE	ID of an existing SAP job to select as the model job.

15.60.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-b <i>jobid</i>			✓	✓	✓
Command Line, Long Form	-jobid <i>jobid</i>			✓	✓	✓
Environment Variable	USAPJOBID= <i>jobid</i>			✓	✓	
Configuration File Keyword	n/a					

15.60.3 Value

jobid is the ID of the SAP job.

15.60.4 Command Usage

The JOB_ID option is used in the Universal Connector commands listed under [Description](#), above.

15.61 JOB_ID_PATTERN - USAP configuration option

15.61.1 Description

The JOB_ID_PATTERN option specifies the character pattern used to locate the header record and determine the offset of the job id in the RSBDCSUB batch input processing report.

The format of the RSBDCSUB report is somewhat dependant on the language parameter for the job step that executes it. Therefore, it may be necessary to adjust the character pattern specified by JOB_ID_PATTERN based on the value of the SAP job step language parameter being used.

15.61.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-bdcjobidptrn <i>pattern</i>			✓	✓	✓
Environment Variable	USAPBDCJOBIDPTRN= <i>pattern</i>			✓	✓	
Configuration File Keyword	bdc_jobid_ptrn <i>pattern</i>			✓	✓	✓

15.61.3 Value

pattern is the character pattern that is used to locate the header record and determine the offset of the job ID.

Default is Job no.

15.61.4 Command Usage

The JOB_ID_PATTERN option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [RUN JOB](#)
- [START JOB](#)

15.62 JOB_LOG_CHILD - USAP configuration option

15.62.1 Description

The JOB_LOG_CHILD option specifies whether or not job logs for child jobs are returned (that is, printed to standard error).

Note

JOB_LOG_CHILD is evaluated only when both the [RETURN_JOB_LOG](#) and [WAIT_FOR_CHILD_JOBS](#) options are set to **yes**.

15.62.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-joblogchild <i>option</i>			✓	✓	✓
Environment Variable	USAPJOBLOGCHILD= <i>option</i>			✓	✓	
Configuration File Keyword	print_joblog_for_child_jobs <i>option</i>			✓	✓	✓

15.62.3 Value

option is the specification for whether or not job logs for child jobs are returned.

Valid values for *option* are:

- **yes**
Job logs will be returned for all child jobs.
- **error**
Job logs will only be returned for child jobs that did not complete successfully.
- **no**
Job logs will not be returned for child jobs.

Default is yes.

15.62.4 Command Usage

The JOB_LOG_CHILD option is used in the following Universal Connector commands:

- [MODIFY JOB](#)
- [START JOB](#)
- [SUBMIT JOB](#)
- [WAIT for JOB](#)

15.63 JOB_NAME - USAP configuration option

15.63.1 Description

The JOB_NAME option specifies the name of an SAP job.

The type of job depends on the command being used, as shown in the following table.

Command	Type of Job
RUN JOB SUBMIT JOB MASS ACTIVITY WAIT	Name of an existing SAP job to use as a model for the new job definition.
START JOB	Name of an existing SAP job to start.
RUN INFOPACKAGE START INFOPACKAGE	Job name suffix to be given to the SAP batch job that processes the InfoPackage request.
WAIT for JOB	Name of a started SAP job.
BDCWAIT	Name of a started SAP job. It must be a single step job that executes ABAP program RSBDCSUB.
ABORT	Name of an existing SAP job to abort.
PURGE JOB	Name of an existing SAP job to purge.
DISPLAY JOBLIST DISPLAY SPOOLIST DISPLAY STATUS DISPLAY JOBDEF	Name of an existing SAP job to select.
DISPLAY SELECT	Either a complete job name or a job name mask used to select SAP jobs that match the mask. A mask contains an asterisk (*) to represent 0 or more characters of a job name.
GENERATE JOB DEFINITION FILE	Name of an existing SAP job to select as the model job.

15.63.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-j <i>jobname</i>			✓		✓
Command Line, Long Form	-jobname <i>jobname</i>			✓		✓
Environment Variable	USAPJOBNAME= <i>jobname</i>			✓		
Configuration File Keyword	n/a					

15.63.3 Value

jobname is the name of the SAP job.

15.63.4 Command Usage

The JOB_NAME option is used in the Universal Connector commands listed under [Description](#), above.

15.64 JOB_NAME_PATTERN - USAP configuration option

15.64.1 Description

The JOB_NAME_PATTERN option specifies a character pattern that is used to locate the header record and determine the offset of the job name in the RSBDCSUB batch input processing report.

The format of the RSBDCSUB report is somewhat dependant on the language parameter for the job step that executes it. Therefore, it may be necessary to adjust the character pattern specified by JOB_NAME_PATTERN based on the value of the SAP job step language parameter being used.

15.64.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-bdcjobnameptrn <i>pattern</i>			✓	✓	✓
Environment Variable	USAPBDCJOBNAMEPTRN= <i>pattern</i>			✓	✓	
Configuration File Keyword	bdc_jobname_ptrn <i>pattern</i>			✓	✓	✓

15.64.3 Value

pattern is the character pattern that is used to locate the header record and determine the offset of the job name.

Default is "|Session".

15.64.4 Command Usage

The JOB_NAME_PATTERN option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [RUN JOB](#)
- [START JOB](#)

15.65 JOB_NETWORK_ID - USAP configuration option

15.65.1 Description

The JOB_NETWORK_ID option specifies the network identifier for the pre-existing SAP FS job network being started.

Note

For the [PURGE FS JOB NETWORK](#) command, JOB_NETWORK_ID specifies the network identifier for the pre-existing SAP FS job network to purge.

15.65.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-jnetid <i>jobnetid</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.65.3 Value

jobnetid is the network identifier for the pre-existing SAP job network.

15.65.4 Command Usage

The JOB_NETWORK_ID option is used in the following Universal Connector commands:

- [PURGE FS JOB NETWORK](#)
- [RUN FS JOB NETWORK](#)
- [START FS JOBNET](#)
- [WAIT for FS JOB NETWORK](#)

15.66 JOB_PROCESS_ID - USAP configuration option

15.66.1 Description

The JOB_PROCESS_ID option specifies the process ID of an existing SAP FS job network process to start.

Note

For the [PURGE FS JOB NETWORK](#) command, JOB_PROCESS_ID specifies the process ID of an existing SAP FS job network process to purge.

15.66.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-jnetprcid <i>processid</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.66.3 Value

processid is the process ID of an existing SAP FS job network process.

15.66.4 Command Usage

The JOB_PROCESS_ID option is used in the following Universal Connector commands:

- [PURGE FS JOB NETWORK](#)
- [RUN FS JOB NETWORK](#)
- [START FS JOBNET](#)
- [WAIT for FS JOB NETWORK](#)

15.67 JOB_STATUS - USAP configuration option

15.67.1 Description

The JOB_STATUS option specifies the SM37-batch-status.

15.67.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-jobstatus <i>status</i>			✓	✓	✓
Environment Variable	USAP_JOBSTATUS= <i>status</i>			✓	✓	
Configuration File Keyword	n/a					

15.67.3 Value

status is the SM37-batch-status.

Valid values for *status* are:

- S: Loading job is scheduled.
- R: Loading job is currently running.
- F: Loading job is complete.
- A: Loading job is terminated.

15.67.4 Command Usage

The JOB_STATUS option is used in the following Universal Connector command:

- [DISPLAY INFOPACKAGES](#)

15.68 LAST_PAGE - USAP configuration option

15.68.1 Description

The LAST_PAGE option specifies the last page of a spool list to be returned.

15.68.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-last_page <i>page</i>			✓	✓	✓
Environment Variable	USAPLASTPAGE= <i>page</i>			✓	✓	
Configuration File Keyword	n/a					

15.68.3 Value

page is the last page of a spool list to be returned.

A value of zero will resolve to the actual last page of the spool list.

Valid values for list are **0** to **2147483647**.

Default is 0 - which will resolve to the last page of the spool list.

15.68.4 Command Usage

The LAST_PAGE option is used in the following Universal Connector commands:

- [DISPLAY SPOOLIST](#)
- [RUN JOB](#)
- [WAIT for JOB](#)
- [WAIT for PROCESS CHAIN](#)

15.69 LAYOUT_NAME - USAP configuration option

15.69.1 Description

The LAYOUT_NAME option specifies either a complete layout name or a mask used to select printer layouts that match the mask.

15.69.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-layout <i>name</i>			✓	✓	✓
Environment Variable	USAPLAYOUT= <i>name</i>			✓	✓	
Configuration File Keyword	n/a					

15.69.3 Value

name is either a complete layout name or a mask used to select printer layouts that match the mask.

A mask contains an asterisk (*) to represent 0 or more characters of a layout name.

15.69.4 Command Usage

The LAYOUT_NAME option is used in the following Universal Connector command:

- [DISPLAY PRINT_FORMATS](#)

15.70 LISTEN_INTERVAL - USAP configuration option

15.70.1 Description

The LISTEN_INTERVAL option specifies the number of seconds that will elapse between RFC listen calls.

Listen calls are polling calls that are performed repetitively to determine if an RFC event is available.

15.70.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_listen_interval <i>interval</i>			✓	✓	✓
Environment Variable	USAP_RFC_LISTEN_INTERVAL = <i>interval</i>			✓	✓	
Configuration File Keyword	rfc_listen_interval <i>interval</i>			✓	✓	✓

15.70.3 Value

interval is the number of seconds that will elapse between RFC listen calls.

Default value is 1.

15.70.4 Command Usage

The LISTEN_INTERVAL option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are always used to configure a fault tolerant RFC connection.

15.71 LOG_ID - USAP configuration option

15.71.1 Description

The LOG_ID option specifies the log ID for process instance data.

15.71.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-logid <i>logid</i>			✓	✓	✓
Environment Variable	USAPLOGID= <i>logid</i>			✓	✓	
Configuration File Keyword	n/a					

15.71.3 Value

logid is the log ID for process instance data.

15.71.4 Command Usage

The LOG_ID option is used in the following Universal Connector commands:

- [DISPLAY PROCESS CHAIN](#)
- [DISPLAY PROCESS CHAIN LOG](#)
- [DISPLAY PROCESS CHAIN STATUS](#)
- [RESTART PROCESS CHAIN](#)
- [WAIT for PROCESS CHAIN](#)

15.72 LOGON_LANGUAGE - USAP configuration option

15.72.1 Description

The LOGON_LANGUAGE option specifies the SAP logon language used for the USAP session.

15.72.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-saplang <i>language</i>			✓	✓	✓
Environment Variable	USAPLANG= <i>language</i>			✓	✓	
Configuration File Keyword	sap_language <i>language</i>			✓	✓	✓

15.72.3 Value

language is the SAP logon language used for the USAP session.

Valid values for *language* are:

- Any valid 1-character SAP language identifier
- Any valid 2-character ISO language identifier
- " " (no value)

This prevents Universal Connector from explicitly setting the SAP language for the RFC communication session with the SAP system. The result is that the SAP system uses the default language set up for the user ID.

Default is EN (English).

15.72.4 Command Usage

The LOGON_LANGUAGE option is a [HOST](#) option.

HOST options are associated with program execution, not commands. They are required to establish a connection with an SAP system.

15.73 LOGON_RETRY_COUNT - USAP configuration option

15.73.1 Description

The LOGON_RETRY_COUNT option specifies the number of unsuccessful RFC logon retry attempts that can occur before USAP terminates the logon process and ends unsuccessfully.

15.73.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_logon_retry_count <i>count</i>			✓	✓	✓
Environment Variable	USAP_RFC_LOGON_RETRY_COUNT= <i>count</i>			✓	✓	
Configuration File Keyword	rfc_logon_retry_count <i>count</i>			✓	✓	✓

15.73.3 Value

count is the number of unsuccessful RFC logon retry attempts that can occur before USAP terminates the logon process and ends unsuccessfully.

Default value is 10.

15.73.4 Command Usage

The LOGON_RETRY_COUNT option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are always used to configure a fault tolerant RFC connection.

15.74 LOGON_RETRY_INTERVAL - USAP configuration option

15.74.1 Description

The LOGON_RETRY_INTERVAL option specifies the number of seconds that will elapse between a failed RFC logon attempt and the retry of that logon attempt.

15.74.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_logon_retry_interval <i>interval</i>			✓	✓	✓
Environment Variable	USAP_RFC_LOGON_RETRY_INTERVAL= <i>interval</i>			✓	✓	
Configuration File Keyword	rfc_logon_retry_interval <i>interval</i>			✓	✓	✓

15.74.3 Value

interval is the number of seconds that will elapse between a failed RFC logon attempt and the retry of that logon attempt.

Default value is 10.

15.74.4 Command Usage

The LOGON_RETRY_INTERVAL option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are always used to configure a fault tolerant RFC connection.

15.75 LONG_DEVICE_NAME - USAP configuration option

15.75.1 Description

The LONG_DEVICE_NAME option specifies either a complete device name or a mask used to select SAP output devices that match the mask.

15.75.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-long_name <i>name</i>			✓	✓	✓
Environment Variable	USAPLONGNAME= <i>name</i>			✓	✓	
Configuration File Keyword	n/a					

15.75.3 Value

name is either a complete device name or a mask used to select SAP output devices that match the mask.

A mask contains an asterisk (*) to represent 0 or more characters of a device name.

15.75.4 Command Usage

The LONG_DEVICE_NAME option is used in the following Universal Connector command:

- [DISPLAY OUTPUT_DEVICES](#)

15.76 MASS_ACTIVITY_WAIT - USAP configuration option

15.76.1 Description

The MASS_ACTIVITY_WAIT option causes USAP to wait for the SAP mass activity jobs to complete processing.

When MASS_ACTIVITY_WAIT is used, the exit code of USAP indicates the completion status of the mass activity. (See [Universal Connector for SAP Exit Codes](#) for a complete list of job status exit codes.)

The MASS_ACTIVITY_WAIT option also allows USAP to return the job log, application log, and spool lists for the job. [RETURN_JOB_LOG](#) controls the return of the job log, [RETURN_APPLICATION_LOG](#) controls the return of the application log, and [RETURN_SPOOL_LIST](#) controls the return of the spool list.

15.76.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-mawait			✓	✓	✓
Environment Variable	n/a					

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Configuration File Keyword	n/a					

15.76.3 Value

(There are no values used with this option.)

15.76.4 Command Usage

The MASS_ACTIVITY_WAIT option is used in the following Universal Connector command:

- [MASS ACTIVITY WAIT](#)

15.77 MAX_CHILD_DEPTH - USAP configuration option

15.77.1 Description

The MAX_CHILD_DEPTH option specifies the maximum relationship depth that will be monitored by Universal Connector.

15.77.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-max_child_depth <i>depth</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	max_child_depth <i>depth</i>			✓	✓	✓

15.77.3 Value

depth is the specification for the maximum relationship depth.

Valid values for *depth* are **1** to **999**.

If *depth* is **1**, Universal Connector only will check for and monitor jobs created by the initial parent job. Jobs created by child jobs will not be detected or monitored.

Default is 999.

15.77.4 Command Usage

The MAX_CHILD_DEPTH option is used in the following Universal Connector commands:

- [SUBMIT JOB](#)

- [WAIT for JOB](#)

15.78 MAX_HIT_COUNT - USAP configuration option

15.78.1 Description

The MAX_HIT_COUNT option specifies the maximum number of ABAP reports to be returned.

15.78.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-count <i>number</i>			✓	✓	✓
Environment Variable	USAPCOUNT= <i>number</i>			✓	✓	
Configuration File Keyword	count <i>number</i>			✓	✓	✓

15.78.3 Value

number is the maximum number of ABAP reports to be returned.

Default is 999.

15.78.4 Command Usage

The MAX_HIT_COUNT option is used in the following Universal Connector command:

- [DISPLAY REPORTS](#)

15.79 MAX_JOB_LOG_SIZE - USAP configuration option

15.79.1 Description

The MAX_JOB_LOG_SIZE option specifies the maximum size for job logs.

Job logs exceeding the maximum size will not be transferred.

If a job log exceeds the configured MAX_JOB_LOG_SIZE, the UNV3064W warning message is issued and the USAP exit code is set to a WARNING (1 on Windows and UNIX, 4 on z/OS).

For example:

```
UNV3064W Job log exceeds user specified maximum size limit of 1055 bytes.
UNV3065I   Job.....: BTCSP00L/17031600
UNV3066I   TemSe object name.....: JOBLGX17031600X56330
UNV3067I   SAP R/3 client.....: 800
UNV3068I   Size of job log.....: 1056 bytes
```

A calculation then is made to determine the maximum lines that should be able to be safely retrieved - per the configured MAX_JOB_LOG_SIZE.

Informational message UNV5891I is issued to inform that the last n number of lines will be retrieved for the job log.

For example:

```
UNV5891I Retrieving last 1024 lines of the job log.
```

15.79.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-max_log_size size			✓	✓	✓
Environment Variable	USAPMAXLOGSIZE=size			✓	✓	
Configuration File Keyword	max_log_size size			✓	✓	✓

15.79.3 Value

size is the maximum size for job logs.

size can be suffixed with either:

- **M** (for megabytes)
- **K** (for kilobytes)

Default is 1536M.

15.79.4 Command Usage

The MAX_JOB_LOG_SIZE option is used in the following Universal Connector commands:

- [DISPLAY JOBLOG](#)
- [RUN JOB](#)
- [WAIT for JOB](#)
- [WAIT for FS JOB NETWORK](#)

15.80 MAX_SPOOL_LIST_SIZE - USAP configuration option

15.80.1 Description

The MAX_SPOOL_LIST_SIZE option specifies the maximum size for job logs. Spool lists exceeding the maximum size will not be transferred.

15.80.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-max_spool_size size			✓	✓	✓
Environment Variable	USAPMAXSPOOLSIZE=size			✓	✓	
Configuration File Keyword	max_spool_size size			✓	✓	✓

15.80.3 Value

size is the maximum size for spool lists.

size can be suffixed with either:

- **M** (for megabytes)
- **K** (for kilobytes)

Default is 1536M.

15.80.4 Command Usage

The MAX_SPOOL_LIST_SIZE option is used in the following Universal Connector commands:

- [DISPLAY SPOOLLIST](#)
- [RUN JOB](#)
- [WAIT for JOB](#)
- [WAIT for FS JOB NETWORK](#)

15.81 MAX_XBP - USAP configuration option

15.81.1 Description

The MAX_XBP option specifies the maximum version of the SAP XBP interface that will be used during Universal Connector execution.

15.81.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-maxxbp <i>version</i>			✓	✓	✓
Environment Variable	USAPMAXXBP <i>version</i>			✓	✓	
Configuration File Keyword	max_xbp <i>version</i>			✓	✓	✓

15.81.3 Value

version is the maximum version of the SAP XBP interface that will be used during Universal Connector execution.

Valid values for *version* are:

- 1.0
- 2.0

If no value is specified, Universal Connector will use 3.0 by default. A value of 1.0 or 2.0 would be required to set the max XBP to something lower than the default (3.0 is currently the highest level offered by SAP).

15.81.4 Command Usage

The MAX_XBP option is a [HOST](#) option.

HOST options are associated with program execution, not commands. They are required to establish a connection with an SAP system.

15.82 MESSAGE_LANGUAGE - USAP configuration option

15.82.1 Description

The MESSAGE_LANGUAGE option specifies the language in which messages are written.

15.82.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-L <i>language</i>			✓	✓	✓
Command Line, Long Form	-lang <i>language</i>			✓	✓	✓
Environment Variable	USAPLANG= <i>language</i>			✓	✓	

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Configuration File Keyword	language <i>language</i>			✓	✓	✓

15.82.3 Value

language is the language in which messages are written.

The first three characters of the language are used as a three-character suffix to form the name of a Universal Message Catalog (UMC) file. UMC files are in the **nls** product directory.

Default is ENGLISH.

15.82.4 Command Usage

The MESSAGE_LANGUAGE option is a [MESSAGE](#) option.

MESSAGE options are associated with program execution, not commands. They specify different characteristics of **usap** messages.

15.83 MESSAGE_LEVEL - USAP configuration option

15.83.1 Description

The MESSAGE_LEVEL option specifies level of messages to write.

15.83.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-l <i>level</i>			✓	✓	✓
Command Line, Long Form	-level <i>level</i>			✓	✓	✓
Environment Variable	USAPLEVEL= <i>level</i>			✓	✓	
Configuration File Keyword	message_level <i>level</i>			✓	✓	✓

15.83.3 Value

level is the level of messages to write.

Valid values for level are:

- **trace**
Activates tracing and generates a trace file to which USAP writes trace messages used for debugging.

Note

Use **trace** only as directed by Stonebranch, Inc. Customer Support.

- **audit**
Issues audit, informational, warning, and error messages.
- **info**
Issues informational, warning, and error messages.
- **warn**
Issues warning and error messages.
- **error**
Issues error messages only.

15.83.3.1 Default

UNIX	Default is warn .
Windows	Default is warn .
z/OS	Default is info .

15.83.4 Command Usage

The MESSAGE_LEVEL option is a [MESSAGE](#) option.

MESSAGE options are associated with program execution, not commands. They specify different characteristics of **usap** messages.

15.84 MODEL_STATUS - USAP configuration option

15.84.1 Description

For operations that work with model jobs without providing a job ID to explicitly target a specific job on the SAP system, the MODEL_STATUS option restricts the model job candidates to the specified job status.

15.84.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Long Form	-model_status <i>option</i>			✓	✓	✓
Environment Variable	USAPMODELSTATUS= <i>option</i>			✓	✓	✓
Configuration File Keyword	model_status <i>option</i>			✓	✓	✓

15.84.3 Value

option is the job status that candidate model jobs should be restricted to.

Valid values for *option* are:

- **scheduled**
Only jobs with a status of scheduled will be considered for selection as the model job.
- **finished**
Only jobs with a status of finished will be considered for selection as the model job.
- **any**
Jobs with any status will be considered for selection as the model job.

Default is scheduled.

15.84.4 Command Usage

The MODEL_STATUS option is used in the following Universal Connector for SAP commands:

- [RUN JOB](#)
- [SUBMIT JOB](#)
- [GENERATE JOB DEFINITION FILE](#)

15.85 MS_HOST - USAP configuration option

15.85.1 Description

The MS_HOST option specifies the host name of the message server for a Type B RFC connection.

15.85.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-mshost <i>host</i>			✓	✓	✓
Environment Variable	USAPMSHOST <i>host</i>			✓	✓	

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Configuration File Keyword	mshost <i>host</i>			✓	✓	✓

15.85.3 Value

host is the the host name of the message server.

15.85.4 Command Usage

The MS_HOST option is a [HOST](#) option.

HOST options are associated with program execution, not commands. They are required to establish a connection with an SAP system.

15.86 MYSAPSSO2 - USAP configuration option

15.86.1 Description

The MYSAPSSO2 option specifies the path to a file containing the credentials to log on with an SSO2 ticket (Single-Sign_On) - instead of USER&PASSWORD - or with an "Assertion" ticket (starting with back-end release 7.00).

15.86.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_mysapssso2 <i>path</i>			✓	✓	
Environment Variable	USAP_RFC_MYSAPSSO2= <i>path</i>			✓	✓	
Configuration File Keyword	rfc_mysapssso2 <i>path</i>			✓	✓	

15.86.3 Value

path specifies the path to a file containing the credentials to log on with an SSO2 ticket (Single-Sign_On) - instead of USER&PASSWORD - or with an "Assertion" ticket (starting with back-end release 7.00).

15.86.4 Command Usage

The MYSAPSSO2 option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.87 NO_COMPRESSION - USAP configuration option

15.87.1 Description

The NO_COMPRESSION option specifies whether or not the RC protocol compress tables.

By default, the RFC protocol compresses tables when they reach a size of 8KB or more. However, you may want to turn compression off; for example, if you are transporting huge integer/binary tables with "random" data, where compression would have no effect except for burning CPU.

15.87.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_no_compress <i>option</i>			✓	✓	
Environment Variable	USAP_RFC_NO_COMPRESS= <i>option</i>			✓	✓	
Configuration File Keyword	rfc_no_compress <i>option</i>			✓	✓	

15.87.3 Value

option specifies whether or not the RC protocol compress tables.

- 0 = RFC compression is on.
- 1 = RFC compression is off.

Default is 10 (On).

15.87.4 Command Usage

The NO_COMPRESSION option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.88 NO_START_DATE - USAP configuration option

15.88.1 Description

The NO_START_DATE option specifies whether or not to include jobs with no start date in selection criteria.

15.88.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-nodate <i>option</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.88.3 Value

option is the specification for whether or not to include jobs with no start date in selection criteria.

Valid values for *option* are:

- **yes**
Include jobs with no start date in selection criteria.
- **no**
Do not include jobs with no start date in selection criteria.

Default is yes.

15.88.4 Command Usage

The NO_START_DATE option is used in the following Universal Connector command:

- [DISPLAY SELECT](#)

15.89 ON_CCE - USAP configuration option

15.89.1 Description

The ON_CCE (On Character Conversion Error) option specifies what the NW RFC library will do when it encounters a character that either:

- Does not exist in the target codepage.
- Is a broken character.
- Is a control character (0x00 - 0x19).

15.89.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Long Form	<code>-rfc_on_cce option</code>			✓	✓	
Environment Variable	<code>USAP_RFC_ON_CCE=option</code>			✓	✓	
Configuration File Keyword	<code>rfc_on_cce option</code>			✓	✓	

15.89.3 Value

option specifies what the NW RFC library will do when it encounters a character that either:

- Does not exist in the target codepage.
- Is a broken character.
- Is a control character (0x00 - 0x19)

0	Abort with an error message (default behavior). In this case, control characters (for example: tabulator, carriage return, or linefeed characters) are not considered "illegal" and will therefore not cause an abort.
1	Copy the character in a "round-trip compatible way". The resulting output character may be "garbage" in the target codepage, but when converted back to the source codepage, it will be the original character.
2	Replace the character with a substitute symbol (usually a # character). In this case, the control characters are replaced as well. If you need the control characters, then you will have to use option 0 or 1, depending on whether you want the NW RFC library to abort the call in case of broken characters or not.

15.89.4 Command Usage

The ON_CCE option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.90 OPERATING_SYSTEM - USAP configuration option

15.90.1 Description

The OPERATING_SYSTEM option specifies the name of the operating system for which external commands are searched.

15.90.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	<code>n/a</code>					
Command Line, Long Form	<code>-opsys name</code>			✓	✓	✓

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Environment Variable	USAPOPSYS= <i>name</i>			✓	✓	
Configuration File Keyword	opsys			✓	✓	✓

15.90.3 Value

name is the name of the operating system for which external commands are searched.

Default is *.

15.90.4 Command Usage

The OPERATING_SYSTEM option is used in the following Universal Connector command:

- [DISPLAY COMMANDS](#)

15.91 OUTPUT_FIELD_LIST - USAP configuration option

15.91.1 Description

The OUTPUT_FIELD_LIST option specifies additional fields to display for the **select** command.

15.91.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-output <i>list</i>			✓	✓	✓
Environment Variable	USAPOUTPUT= <i>list</i>			✓	✓	
Configuration File Keyword	output			✓	✓	✓

15.91.3 Value

list is the additional fields to display.

list is a comma-separated list of fields, with no spaces between the field names and the commas.

The fields correspond with the field names in the BAPIXMJOB structure defined in the SAP system, as shown in the following table.

Field Name	Field Description
JOBNAME	Background job name
JOBCOUNT	Batch job number
STPCOUNT	Job step ID number
SDLSTRDT	Planned start date for batch job
SDLSTRTTM	Planned start time for batch job
BTCSYSTEM	Target system to run background job
SDLDATE	Date of job/step scheduling
SDLTIME	Time of a scheduled job/step
SDLUNAME	Initiator of job step scheduling
LASTCHDATE	Date of last job change
LASTCHTIME	Time of last job change
LASTCHNAME	Last job change made by
RELDATE	Release date for batch schedule
RELTIME	Release time of scheduled batch job
RELUNAME	User that released scheduled batch job
STRDATE	Job start date
STRTIME	Batch job start time
ENDDATE	Job end date
ENDTIME	Batch job end time
PERIODIC	Periodic jobs indicator ('X')
STATUS	Status of batch job
AUTHCKNAM	Background user name for authorization check
AUTHCKMAN	Background client for authorization check
SUCCNUM	Number of subsequent jobs
PREDNUM	Number of previous jobs
LASTSTRDT	Latest run date for batch job
LASTSTRTTM	Latest run time for batch job
WPNUMBER	Work process number
WPPROCID	Work process ID

Field Name	Field Description
EVENTID	Background event ID
EVENTPARM	Background event parameters (for example, Jobname/Jobcount)
JOBCLASS	Job classification
CALENDARID	Factory calendar ID for background processing
EXECSERVER	Server name
REAXSERVER	Server name

15.91.4 Command Usage

The OUTPUT_FILED_LIST option is used in the following Universal Connector command:

- [DISPLAY SELECT](#)

15.92 PAGE_LIMIT - USAP configuration option

15.92.1 Description

The PAGE_LIMIT option specifies the maximum number of pages that can be returned in the syslog report.

15.92.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-pagelimit <i>limit</i>			✓	✓	✓
Environment Variable	USAPPAGELIMIT= <i>limit</i>			✓	✓	
Configuration File Keyword	n/a					

15.92.3 Value

limit is the maximum number of pages that can be returned in the syslog report.

Valid values for list are **1** to **999**.

Default is 999.

15.92.4 Command Usage

The PAGE_LIMIT option is used in the following Universal Connector command:

- [DISPLAY SYSLOG](#)

15.93 PASSWORD - USAP configuration option

15.93.1 Description

The PASSWORD option specifies the password for the SAP user ID.

If the password is not specified and the command is executed from a console, Universal Connector prompts for a password.

15.93.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-w <i>password</i>			✓	✓	✓
Command Line, Long Form	-pwd <i>password</i>			✓	✓	✓
Environment Variable	USAPPWD= <i>password</i>			✓	✓	
Configuration File Keyword	password <i>password</i>			✓	✓	✓

15.93.3 Value

password is the password for the SAP user ID.

15.93.4 Command Usage

The PASSWORD option is a [USER](#) option.

USER options are associated with program execution, not commands. They are required to establish an RFC connection to an SAP system.

15.94 PCS - USAP configuration option

15.94.1 Description

As documented by SAP: The PCS option specifies a Partner Character Size. It is rarely needed, as during the initial handshake, the RFC library obtains the correct value from the back-end and uses it from then on.

However, a rare use case could be that the back-end is Unicode and you want to use a non-ISO-Latin-1 username or password for the initial logon. As the initial handshake is done with ISO-Latin-1, the characters in username/passwd would break, resulting in a refused logon. In that case, set PCS=2 and the RFC library will use Unicode for the initial handshake.

15.94.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_pcs size			✓	✓	
Environment Variable	USAP_RFC_PCS=size			✓	✓	
Configuration File Keyword	rfc_pcs size			✓	✓	

15.94.3 Value

size is the Partner Character Size.

15.94.4 Command Usage

The PCS option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.95 PLF_DIRECTORY - USAP configuration option

15.95.1 Description

The PLF_DIRECTORY option specifies the Program Lock File (PLF) directory where the program lock files are located.

A program lock file is created and used by USAP process to store manager process termination information for the Universal Broker.

15.95.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-plf_directory directory			✓		
Environment Variable	USAPPLFDIRECTORY=directory			✓		
Configuration File Keyword	n/a					

15.95.3 Values

directory is the name of the PLF directory.

Default is= `/var/opt/universal/tmp`.

15.95.4 Command Usage

The PLF_DIRECTORY option is a [LOCAL](#) option.

LOCAL options are associated with program execution, not commands. They are required for local broker registration.

15.96 PRINTER_NAME - USAP configuration option

15.96.1 Description

The PRINTER_NAME option specifies the name of a printer for which the print formats will be retrieved.

15.96.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-printer <i>name</i>			✓	✓	✓
Environment Variable	USAPPRINTER= <i>name</i>			✓	✓	
Configuration File Keyword	n/a					

15.96.3 Value

name is name of a printer for which the print formats will be retrieved.

15.96.4 Command Usage

The PRINTER_NAME option is used in the following Universal Connector command:

- [DISPLAY PRINT_FORMATS](#)

15.97 PROCESS_LOGS - USAP configuration option

15.97.1 Description

The PROCESS_LOGS option specifies whether or not the process logs will be returned.

15.97.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-processlogs <i>option</i>			✓	✓	✓
Environment Variable	USAPPROCESSLOGS= <i>option</i>			✓	✓	
Configuration File Keyword	-print_processlogs <i>option</i>			✓	✓	✓

15.97.3 Value

option is the specification for whether or not the process logs will be returned.

Valid values for *option* are:

- **yes**
Process logs will be returned.
- **no**
Process logs will be not returned.

Default is yes.

15.97.4 Command Usage

The PROCESS_LOGS option is used in the following Universal Connector commands:

- [START PROCESS CHAIN](#)
- [WAIT for PROCESS CHAIN](#)

15.98 PROFILE_ID - USAP configuration option

15.98.1 Description

The PROFILE_ID option specifies the ID of the SAP Criteria Manager profile that will be the target of the command.

15.98.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-profile_id <i>profile</i>			✔	✔	✔
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.98.3 Value

id is the ID of an SAP Criteria Manager profile that will be the target of the command..

15.98.4 Command Usage

The PROFILE_ID option is used in the following Universal Connector commands:

- [ACTIVATE CM PROFILE](#)
- [DELETE CM PROFILE](#)
- [DISPLAY CM CRITERIA](#)
- [SET CM CRITERIA](#)

15.99 PROFILE_TYPE - USAP configuration option

15.99.1 Description

The PROFILE_TYPE option specifies the type of a Criteria Manager profile that will be the target of the command.

15.99.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-profile_type <i>type</i>			✔	✔	✔
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.99.3 Value

type is the type of Criteria Manager profile that will be the target of the command.

For the default criteria types provided by SAP, the values are:

- EVTHIS - identifies a criteria type for event history.
- EVHIRO - identifies a criteria type for the reorganization of raised events.
- INTERC - identifies a criteria type for job interception.

15.99.4 Command Usage

The PROFILE_TYPE option is used in the following Universal Connector commands:

- [ACTIVATE CM PROFILE](#)
- [DEACTIVATE CM PROFILE](#)
- [DELETE CM PROFILE](#)
- [DISPLAY CM CRITERIA](#)
- [DISPLAY CM PROFILES](#)
- [SET CM CRITERIA](#)

15.100 PURGE_BDC_MAP - USAP configuration option

15.100.1 Description

The PURGE_BDC_MAP option specifies whether or not Universal Connector will delete the batch input session queues that have been processed successfully.

15.100.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-purge_bdc_map <i>option</i>			✓	✓	✓
Environment Variable	USAP_PURGE_BDC_MAP= <i>option</i>			✓	✓	
Configuration File Keyword	purge_bdc_map <i>option</i>			✓	✓	✓

15.100.3 Value

option is the specification for whether or not Universal Connector will delete the batch input session queues.

Valid values for *option* are:

- **yes**
Delete the batch input session queues
- **no**
Do not delete the batch input session queues

15.100.4 Command Usage

The PURGE_BDC_MAP option is used in the following Universal Connector command:

- [BDCWAIT](#)

15.101 PURGE_CHILD_JOBS - USAP configuration option

15.101.1 Description

The PURGE_CHILD option specifies whether or not all child jobs are purged from the SAP system.

Note

PURGE_CHILD is evaluated only when the PURGE command is being used.

15.101.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-purgechild <i>option</i>			✓	✓	✓
Environment Variable	USAPPURGECHILD= <i>option</i>			✓	✓	
Configuration File Keyword	purge_child_jobs <i>option</i>			✓	✓	✓

15.101.3 Value

option is the specification for whether or not all child jobs are purged.

Valid values for options are:

- **yes**
All child jobs are purged.
- **no**
Child jobs are not purged.

Default is yes.

15.101.4 Command Usage

The PURGE_CHILD_JOBS option is used in the following Universal Connector commands:

- [MODIFY JOB](#)
- [START JOB](#)
- [SUBMIT JOB](#)
- [WAIT for JOB](#)

15.102 PURGE_JOB - USAP configuration option

15.102.1 Description

The PURGE_JOB option specifies that when the job completes processing, it is purged from the SAP system,

(When used with the [BDCWAIT](#) command, PURGE_JOB specifies that when the job specified on the USAP command line (parent job) completes, and all child jobs created by RSBDCSUB have completed, the parent and child jobs are purged from the SAP system.)

15.102.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-P			✓	✓	✓
Command Line, Long Form	-purge			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.102.3 Value

(There are no values used with this option.)

15.102.4 Command Usage

The PURGE_JOB option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [MASS ACTIVITY WAIT](#)
- [MODIFY JOB](#)
- [START FS JOBNET](#)
- [START JOB](#)
- [SUBMIT JOB](#)
- [SUBMIT FS JOBNET](#)
- [WAIT for JOB](#)

- [WAIT for FS JOB NETWORK](#)

15.103 QUEUE_ID - USAP configuration option

15.103.1 Description

The QUEUE_ID option specifies the queue identifier associated with the batch input session.

15.103.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-q <i>queueid</i>			✓	✓	✓
Command Line, Long Form	-qid <i>queueid</i>			✓	✓	✓
Environment Variable	USAPQID= <i>queueid</i>			✓	✓	
Configuration File Keyword	n/a					

15.103.3 Value

queueid is the queue identifier associated with the batch input session.

15.103.4 Command Usage

The QUEUE_ID option is used in the following Universal Connector command:

- [DISPLAY QSTATE](#)

15.104 QUEUE_ID_PATTERN - USAP configuration option

15.104.1 Description

The QUEUE_ID_PATTERN option specifies a character pattern used to locate the header record and determine the offset of the queue ID in the RSBDCSUB batch input processing report.

The format of the RSBDCSUB report is somewhat dependant on the language parameter for the job step that executes it. Therefore, it may be necessary to adjust the character pattern specified by QUEUE_ID_PATTERN based on the value of the SAP job step language parameter being used.

15.104.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-bdcqidptrn <i>pattern</i>			✓	✓	✓
Environment Variable	USAPBDCQIDPTRN= <i>pattern</i>			✓	✓	
Configuration File Keyword	bdc_qid_ptrn <i>pattern</i>			✓	✓	✓

15.104.3 Value

pattern is the character pattern that is used to locate the header record and determine the offset of the queue ID.

Default is "|Queue ID".

15.104.4 Command Usage

The QUEUE_ID_PATTERN option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [RUN JOB](#)
- [START JOB](#)

15.105 R4_NAME - USAP configuration option

15.105.1 Description

The R3_NAME option specifies the system ID of the SAP system to which you want to connect for a Type B RFC connection.

15.105.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-r3name <i>name</i>			✓	✓	✓
Environment Variable	USAPR3NAME <i>name</i>			✓	✓	
Configuration File Keyword	r3name <i>name</i>			✓	✓	✓

15.105.3 Value

`_name_` is the system ID of the SAP system to which you want to connect.

15.105.4 Command Usage

The R3_NAME option is a [HOST](#) option.

HOST options are associated with program execution, not commands. They are required to establish a connection with an SAP system.

15.106 RAW_SPOOL - USAP configuration option

15.106.1 Description

The RAW_SPOOL option specifies whether the SAP spool lists will be returned from the SAP system in **raw** or **plain** format.

The raw format contains SAP formatting characters; the plain format is pre-formatted at the SAP system.

The raw format generally allows greater formatting control (via the Universal Connector [translation table](#)). However, on occasion, the SAP system has been found to produce errors in the **raw** formatting of spool lists. In these cases, RAW_SPOOL would serve as a workaround.

15.106.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	<code>-rawspool option</code>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	<code>rawspool option</code>			✓	✓	✓

15.106.3 Value

`option` is the specification for whether spool lists are returned in **raw** or **plain** format.

Valid values for `option` are:

- **yes**
Spool lists are returned in **raw** format.
- **no**
Spool lists are returned in **plain** format.

Default is yes.

15.106.4 Command Usage

The RAW_SPOOL option is used in the following Universal Connector commands:

- [MODIFY JOB](#)
- [START JOB](#)
- [START PROCESS CHAIN](#)
- [SUBMIT JOB](#)
- [WAIT for JOB](#)
- [WAIT for PROCESS CHAIN](#)

15.107 REQUEST_ID - USAP configuration option

15.107.1 Description

The REQUEST_ID option specifies the Request ID for an InfoPackage instance.

15.107.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-requestid <i>ID</i>			✓	✓	✓
Environment Variable	USAP_REQUEST= <i>ID</i>			✓	✓	
Configuration File Keyword	n/a					

15.107.3 Value

ID is the the Request ID for an InfoPackage instance.

15.107.4 Command Usage

The REQUEST_ID option is used in the following Universal Connector commands:

- [DISPLAY INFOPACKAGE STATUS](#)
- [WAIT for INFOPACKAGE](#)

15.108 RESOLVE_MULTI_MODEL - USAP configuration option

15.108.1 Description

For operations that work with model jobs without providing a job ID to explicitly target a specific job on the SAP system, the RESOLVE_MULTI_MODEL option controls the behavior when multiple candidate jobs are found.

If multiple candidate model jobs exist on the system (that is, matching the specified job name, job owner, and job status):

- A value of **no** will prevent the selection of a model job and the operation will complete with an error condition.
- A value of **yes** will cause Universal Connector for SAP to choose the candidate model job with the newest change date/time.

15.108.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-resolve_multi_model <i>option</i>			✓	✓	✓
Environment Variable	USAPRESOLVEMULTIMODEL = <i>option</i>			✓	✓	✓
Configuration File Keyword	-resolve_multi_model <i>option</i>			✓	✓	✓

15.108.3 Value

option controls how Universal Connector for SAP handles the case where multiple candidate jobs exist on the SAP system.

Valid values for *option* are:

- **yes**
Universal Connector for SAP will evaluate the list of candidate jobs and determine the best match.
- **no**
Multiple candidate jobs will be considered an error condition.

Default is no.

15.108.4 Command Usage

The RESOLVE_MULTI_MODEL option is used in the following Universal Connector for SAP commands:

- [RUN JOB](#)
- [SUBMIT JOB](#)
- [START JOB](#)
- [GENERATE JOB DEFINITION FILE](#)

15.109 RESTART - USAP configuration option

15.109.1 Description

The RESTART option specifies whether or not this execution of Universal Connector is a restart of a previous client fault tolerant Universal Connector command.

See [Client Fault Tolerance - Universal Connector](#) for details on the client fault tolerant feature.

15.109.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-restart <i>option</i>			✓	✓	✓
Environment Variable	USAPRESTART= <i>option</i>			✓	✓	
Configuration File Keyword	restart <i>option</i>			✓	✓	✓

15.109.3 Value

option is the specification for whether or not this execution of USAP is a restart.

Valid values for *option* are:

- **yes**
 Universal Connector is restarting an existing unit of work represented by a command ID.
 - For jobs, the [COMMAND_ID](#) and [Client Fault Tolerant \(CFT\) options](#) configuration options are required.
 - For process chains, the [CHAIN_ID](#) and [LOG_ID](#) configuration options are required.
- **no**
 Universal Connector is not restarting.
- **auto**
 Universal Connector checks the SAP system to determine if a job associated with the [COMMAND_ID](#) option already exists.
 - If a matching command ID job is found, Universal Connector will work with the found job and take the appropriate actions to satisfy the command line - starting the job if necessary, monitoring, returning output, etc.
 - If a matching command ID job is not found, Universal Connector does not perform a restart and executes the command line as a new unit of work.
 The [COMMAND_ID](#) and [Client Fault Tolerant \(CFT\) options](#) are required.

Default is no.

Note

If you select the **auto** value, Universal Connector will not start a new instance of a job on the SAP system if a job matching the job name/command ID exists in the SAP system. Universal Connector will continue to reconnect to the existing SAP job. Without considering the behavior resulting from the use of **auto**, it may be possible for one to assume that a job has been run multiple times when, in fact, Universal Connector has been reconnecting to the same job instance. Informational messages are printed by Universal Connector to standard error to indicate the reconnected status but, if the message level is not set to **info**, the messages will not be seen.

Given the possibility for confusion surrounding the use of **auto**, the [ALLOW_AUTO_RESTART](#) option lets you control the use of **auto**.

15.109.4 Command Usage

The RESTART option is a [CFT \(Client Fault Tolerant\)](#) option.

CFT (Client Fault Tolerant) options are associated with program execution, not commands. They are used to configure a client fault tolerant job run.

15.110 RETRY_CALL_COUNT - USAP configuration option

15.110.1 Description

The RETRY_CALL_COUNT option specifies the number of unsuccessful RFC call retry attempts that can occur before USAP terminates the RFC call retry process and ends unsuccessfully.

15.110.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_retry_count <i>interval</i>			✓	✓	✓
Environment Variable	USAP_RFC_RETRY_COUNT= <i>interval</i>			✓	✓	
Configuration File Keyword	rfc_retry_count <i>interval</i>			✓	✓	✓

15.110.3 Value

interval is the number of unsuccessful RFC call retry attempts that can occur before USAP terminates the RFC call retry process and ends unsuccessfully.

Default is 10.

15.110.4 Command Usage

The RETRY_CALL_COUNT option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are always used to configure a fault tolerant RFC connection.

15.111 RETRY_CALL_INTERVAL - USAP configuration option

15.111.1 Description

The RETRY_CALL_INTERVAL option specifies the number of seconds that will elapse between a failed RFC call and the retry of that call.

15.111.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_retry_interval <i>interval</i>			✓	✓	✓
Environment Variable	USAP_RFC_RETRY_INTERVAL= <i>interval</i>			✓	✓	
Configuration File Keyword	rfc_retry_interval <i>interval</i>			✓	✓	✓

15.111.3 Value

interval is the number of seconds that will elapse between a failed RFC call and the retry of that call.

Default is 10.

15.111.4 Command Usage

The RETRY_CALL_INTERVAL option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are always used to configure a fault tolerant RFC connection.

15.112 RETURN_APPLICATION_LOG - USAP configuration option

15.112.1 Description

The RETURN_APPLICATION_LOG option specifies whether or not the job's application log is returned (provided that an application log was created for the job).

15.112.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-applog <i>option</i>			✓	✓	✓
Environment Variable	USAPAPPLLOG= <i>option</i>			✓	✓	
Configuration File Keyword	print_applog <i>option</i>			✓	✓	✓

15.112.3 Value

option is the specification for whether or not the application log is returned.

Valid values for *option* are:

- **yes**
Application log is returned to standard error.
- **no**
Application log is not returned.

Default is yes.

15.112.4 Command Usage

The RETURN_APPLICATION_LOG option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [MASS ACTIVITY WAIT](#)
- [WAIT for JOB](#)

15.113 RETURN_APPLICATION_RC - USAP configuration option

15.113.1 Description

The RETURN_APPLICATION_RC option specifies whether or not the job's application return codes are returned (provided that application return codes were set for the job).

15.113.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-printapprc <i>option</i>			✓	✓	✓
Environment Variable	USAPPRINTAPPRC= <i>option</i>			✓	✓	
Configuration File Keyword	print_app_rc <i>option</i>			✓	✓	✓

15.113.3 Value

option is the specification for whether or not the application return codes are returned.

Valid values for *option* are:

- **yes**
Application return codes are returned to standard error.
- **no**
Application return codes are not returned.

Default is yes.

15.113.4 Command Usage

The RETURN_APPLICATION_RC option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [MASS ACTIVITY WAIT](#)
- [WAIT for JOB](#)

15.114 RETURN_JOB_LOG - USAP configuration option

15.114.1 Description

The RETURN_JOB_LOG option specifies whether or not the job's job log is returned.

15.114.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-g <i>option</i>			✓	✓	✓
Command Line, Long Form	-joblog <i>option</i>			✓	✓	✓
Environment Variable	USAPJOBLOG= <i>option</i>			✓	✓	
Configuration File Keyword	print_joblog <i>option</i>			✓	✓	✓

15.114.3 Value

option is the specification for whether or not the job log is returned.

Valid values for *option* are:

- **yes**
Job log is returned to standard out.
- **no**
Job log is not returned.

Default is yes.

15.114.4 Command Usage

The RETURN_JOB_LOG option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [MASS ACTIVITY WAIT](#)
- [MODIFY JOB](#)
- [START JOB](#)
- [START PROCESS CHAIN](#)
- [SUBMIT JOB](#)
- [WAIT for JOB](#)
- [WAIT for PROCESS CHAIN](#)

15.115 RETURN_SPOOL_LIST - USAP configuration option

15.115.1 Description

The RETURN_SPOOL_LIST option specifies whether or not the spool lists of all job steps are returned.

15.115.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-s <i>option</i>			✓	✓	✓
Command Line, Long Form	-spoolist <i>option</i>			✓	✓	✓
Environment Variable	USAPSPOLLIST= <i>option</i>			✓	✓	
Configuration File Keyword	print_spoolist <i>option</i>			✓	✓	✓

15.115.3 Value

option is the specification for whether or not the spool lists are returned.

Valid values for *option* are:

- **yes**
Spool lists are returned to standard out.
- **no**
Spool lists are not returned.

Default is yes.

15.115.4 Command Usage

The RETURN_SPOOL_LIST option is used in the following Universal Connector commands:

- [MODIFY JOB](#)
- [START JOB](#)
- [START PROCESS CHAIN](#)
- [SUBMIT JOB](#)
- [WAIT for JOB](#)
- [WAIT for PROCESS CHAIN](#)

15.116 RFC_TRACE - USAP configuration option

15.116.1 Description

The RFC_TRACE option specifies the trace level of all connections / destinations.

15.116.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_trace <i>level</i>			✓	✓	
Environment Variable	USAP_RFC_TRACE= <i>level</i>			✓	✓	
Configuration File Keyword	rfc_trace <i>level</i>			✓	✓	

15.116.3 Value

level is the trace level of all connections / destinations.

Valid values for *level* are:

- 0 (off)
- 1 (brief)
- 2 (verbose)
- 3 (full)

Default is 0 (off).

15.116.4 Command Usage

The RFC_TRACE option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.117 SAPROUTER - USAP configuration option

15.117.1 Description

The SAPROUTER option specifies the SAPRouter string for the NW RFC connection.

15.117.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-saprouter <i>parameters</i>			✓	✓	
Environment Variable	USAPSAPROUTER= <i>parameters</i>			✓	✓	

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Configuration File Keyword	saprouter <i>parameters</i>			✓	✓	

15.117.3 Value

parameters is the SAPRouter string to be used for the NW RFC connection.

It uses the following format:

```
/H/hostname/S/portnumber/H/
```

15.117.4 Command Usage

The SAPROUTER option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.118 SECURE_CFT - USAP configuration option

15.118.1 Description

The SECURE_CFT option specifies the mode of client fault tolerance that will be used for the command invocation.

15.118.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-cft_secure_cft <i>option</i>			✓	✓	✓
Environment Variable	USAP_CFT_SECURE_CFT= <i>option</i>			✓	✓	
Configuration File Keyword	cft_secure_cft <i>option</i>			✓	✓	✓

15.118.3 Value

option is the mode of client fault tolerance that will be used for the command invocation.

Valid values for *option* are:

- **yes**
Secure CFT will be used for the command. See [Client Fault Tolerance - Universal Connector](#) for details on the secure CFT mode.

- **no**
Original pre-XBP 2.0 CFT will be used for the command. See [Client Fault Tolerance - Universal Connector](#) for details on the pre-XBP 2.0 CFT mode.

Default is yes.

15.118.4 Command Usage

The SECURE_CFT option is a [CFT \(Client Fault Tolerant\)](#) option.

CFT (Client Fault Tolerant) options are associated with program execution, not commands. They are used to configure a client fault tolerant job run.

15.119 SERVER_STOP_CONDITIONS - USAP configuration option

15.119.1 Description

The SERVER_STOP_CONDITIONS option specifies one or more exit codes of the executing Universal Connector process that should trigger the locally running Universal Broker to cancel the corresponding SAP job.

15.119.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-server_stop_conditions <i>codes</i>					✓
Environment Variable	USAPSERVERSTOPCONDITION S= <i>codes</i>					✓
Configuration File Keyword	server_stop_conditions <i>codes</i>					✓

15.119.3 Values

codes is an exit code, or a comma-separated list of exit codes, that should cause the SAP job to be cancelled.

z/OS ABEND codes are specified in two different formats:

- System ABEND code: Starts with S followed by a 3-character hexadecimal value.
- User ABEND code: Starts with U followed by a 4-character decimal value.

For example, when a job is terminated with the CANCEL console command, the job ends with a system ABEND code of S222.

There is no default.

15.119.4 Command Usage

The SERVER_STOP_CONDITIONS option is used in the following Universal Connector commands:

- [RUN JOB](#)
- [WAIT for JOB](#)

15.120 SNC_LIB - USAP configuration option

15.120.1 Description

The SNC_LIB option specifies the full path and name of a third-party security library to use for SNC communication (authentication, encryption, and signatures).

15.120.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-snc_lib <i>path</i>			✓	✓	
Environment Variable	USAP_SNC_LIB= <i>path</i>			✓	✓	
Configuration File Keyword	snc_lib <i>path</i>			✓	✓	

15.120.3 Value

path is the full path and name of a third-party security library to use for SNC communication (authentication, encryption, and signatures).

15.120.4 Command Usage

The SNC_LIB option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.121 SNC_MODE - USAP configuration option

15.121.1 Description

The SNC_MODE option specifies whether or not SNC should be activated for the SAP RFC connection.

15.121.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-snc_mode <i>mode</i>			✓	✓	
Environment Variable	USAP_SNC_MODE= <i>mode</i>			✓	✓	
Configuration File Keyword	snc_mode <i>mode</i>			✓	✓	

15.121.3 Value

mode is the SNC mode that will be set for the SAP RFC connection.

Valid values for *mode* are:

- 0 (SNC off)
- 1 (SNC on)

If unspecified, the SAP NW RFC internal default (0) applies.

15.121.4 Command Usage

The SNC_MODE option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.122 SNC_MYNAME - USAP configuration option

15.122.1 Description

The SNC_MYNAME option specifies the token/identifier representing the external RFC program.

15.122.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-snc_myname <i>token</i>			✓	✓	
Environment Variable	USAP_SNC_MYNAME= <i>token</i>			✓	✓	
Configuration File Keyword	snc_myname <i>token</i>			✓	✓	

15.122.3 Value

token is the token/identifier representing the external RFC program.

15.122.4 Command Usage

The SNC_MYNAME option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.123 SNC_PARTNERNAME - USAP configuration option

15.123.1 Description

The SNC_PARTNERNAME option specifies the token/identifier representing the back-end system.

15.123.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-snc_partnername <i>token</i>			✓	✓	
Environment Variable	USAP_SNC_PARTNERNAME= <i>token</i>			✓	✓	
Configuration File Keyword	snc_partnername <i>token</i>			✓	✓	

15.123.3 Value

token is the token/identifier representing the back-end system.

15.123.4 Command Usage

The SNC_PARTNERNAME option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.124 SNC_QOP - USAP configuration option

15.124.1 Description

The SNC_QOP option specifies the quality of protection level.

15.124.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-snc_qop <i>level</i>			✓	✓	
Environment Variable	USAP_SNC_QOP= <i>level</i>			✓	✓	
Configuration File Keyword	snc_qop <i>level</i>			✓	✓	

15.124.3 Value

level is the quality of protection level:

- 1 (Digital signature)
- 2 (Digital signature and encryption)
- 3 (Digital signature, encryption, and user authentication)
- 8 (Default value defined by back-end system)
- 9 (Maximum value that the current security product supports)

15.124.4 Command Usage

The SNC_QOP option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.125 SNC_SSO - USAP configuration option

15.125.1 Description

The SNC_SSO option specifies whether or not to use SNC single sign-on if SNC is enabled.

15.125.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-snc_sso <i>option</i>			✓	✓	
Environment Variable	USAP_SNC_SSO= <i>option</i>			✓	✓	
Configuration File Keyword	snc_sso <i>option</i>			✓	✓	

15.125.3 Value

option is the specification for whether or not to use SNC single sign-on if SNC is enabled.

- 0 = Do not use SNC single sign-on.
- 1 = Use SNC single sign-on.

Default is 1.

15.125.4 Command Usage

The SNC_QOP option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.126 SOURCE_SYSTEM - USAP configuration option

15.126.1 Description

The SOURCE_SYSTEM option specifies the source system mask for which the InfoPackages were created.

15.126.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-source_system <i>mask</i>			✓	✓	✓
Environment Variable	USAP_SOURCE_SYSTEM= <i>mask</i>			✓	✓	
Configuration File Keyword	n/a					

15.126.3 Value

mask is the source system mask for which the InfoPackages were created.

Wildcards are accepted.

15.126.4 Command Usage

The SOURCE_SYSTEM option is used in the following Universal Connector command:

- [DISPLAY INFOPACKAGES](#)

15.127 SPOOL_CODEPAGE - USAP configuration option

15.127.1 Description

The SPOOL_CODEPAGE option specifies the codepage that will be used for transferring spool lists from the SAP system.

15.127.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-spool_codepage <i>codepage</i>			✓	✓	✓
Environment Variable	USAPSPPOOLCODEPAGE= <i>codepage</i>			✓	✓	
Configuration File Keyword	spool_codepage <i>codepage</i>			✓	✓	✓

15.127.3 Value

codepage is the codepage that will be used for transferring spool lists from the SAP system.

Valid values for *codepage* are any valid SAP codepage.

In addition, two special values can be used to specify the UTF-8 codepage:

- **UTF-8**
- **UTF8**

These values are equivalent to specifying **4110** (the SAP codepage for UTF-8).

15.127.4 Command Usage

The SPOOL_CODEPAGE option is used in the following Universal Connector commands:

- [DISPLAY SPOOLLIST](#)
- [RUN JOB](#)
- [WAIT for JOB](#)

15.128 SPOOL_ID - USAP configuration option

15.128.1 Description

The SPOOL_ID option specifies the spool list request number in an SAP system.

15.128.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-spool_id <i>id</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.128.3 Value

id is the ID of a spool list in an SAP system.

15.128.4 Command Usage

The SPOOL_ID option is used in the following Universal Connector command:

- [DISPLAY SPOOLLIST](#)

15.129 SPOOL_LIST_CHILD - USAP configuration option

15.129.1 Description

The SPOOL_LIST_CHILD option specifies whether or not spool lists for child jobs are returned (that is, printed to standard out).

Note

SPOOL_LIST_CHILD is evaluated only when both the [WAIT_FOR_CHILD_JOBS](#) and [RETURN_SPOOL_LIST](#) options are set to **yes**.

15.129.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-spoolistchild <i>option</i>			✓	✓	✓

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Environment Variable	USAPSPOLLISTCHILD= <i>option</i>			✓	✓	
Configuration File Keyword	print_spoollist_for_child_jobs <i>option</i>			✓	✓	✓

15.129.3 Value

option is the specification for whether or not job logs for child jobs are returned.

Valid values for *option* are:

- **yes**
Spool list for each step of every child job is returned.
- **no**
Spool lists for child jobs are not be returned.

Default is yes.

15.129.4 Command Usage

The SPOOL_LIST_CHILD option is used in the following Universal Connector commands:

- [MODIFY JOB](#)
- [START JOB](#)
- [SUBMIT JOB](#)
- [WAIT for JOB](#)

15.130 SPOOL_RECEIVE_BUFFER - USAP configuration option

15.130.1 Description

The SPOOL_RECEIVE_BUFFER option specifies the size of the blocks (number of pages) used when transferring spool lists.

Page sizes can vary depending on the "lines per page" specified for the job step. Therefore, the number of pages that can be transferred in a single SPOOL_RECEIVE_BUFFER can vary.

For a spool list to be considered transferrable, at least one spool list page must be able to fit in the SPOOL_RECEIVE_BUFFER.

15.130.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-spool_recv_buffer size			✓	✓	✓
Environment Variable	USAPSPOLLRECVBUFFER= <i>size</i>			✓	✓	

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Configuration File Keyword	n/a					

15.130.3 Value

size is the maximum block size (in bytes) to use for spool list transfers.

size also can be suffixed either with:

- M (for megabytes)
- K (for kilobytes)

Default is 1536M.

15.130.4 Command Usage

The SPOOL_RECEIVE_BUFFER option is used in the following Universal Connector commands:

- [DISPLAY SPOOLLIST](#)
- [RUN JOB](#)
- [WAIT for JOB](#)
- [WAIT for PROCESS CHAIN](#)

15.131 START - USAP configuration option

15.131.1 Description

The START option starts the newly defined job.

(For the [MODIFY JOB](#) command, START starts the modified job.)

15.131.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-S			✓	✓	✓
Command Line, Long Form	-start			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.131.3 Value

(There are no values used with this option.)

15.131.4 Command Usage

The START option is used in the following Universal Connector commands:

- [MODIFY JOB](#)
- [SUBMIT JOB](#)
- [SUBMIT FS JOBNET](#)

15.132 STATUS_ABORTED - USAP configuration option

15.132.1 Description

The STATUS_ABORTED option specifies whether or not to include jobs with status **aborted** in selection criteria.

15.132.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-aborted <i>option</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.132.3 Value

option is the specification for whether or not to include jobs with status **aborted** in selection criteria.

Valid values for option are:

- **yes**
Include jobs with status **aborted** in selection criteria.
- **no**
Do not include jobs with status **aborted** in selection criteria.

Default is yes.

15.132.4 Command Usage

The STATUS_ABORTED option is used in the following Universal Connector command:

- [DISPLAY SELECT](#)

15.133 STATUS_CHECK_INTERVAL - USAP configuration option

15.133.1 Description

The STATUS_CHECK_INTERVAL option specifies the number of seconds that can elapse, without a change in job status, before a call is made to synchronize the actual job status with the SAP stored status.

The job status synchronization is achieved by calling SAP function module BAPI_XBP_JOB_STATUS_CHECK. This addresses the unlikely scenario where an error condition in the SAP system prevents a completed job status from being written to the SAP database.

15.133.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a			✓	✓	✓
Command Line, Long Form	-job_stat_check_interval <i>seconds</i>			✓	✓	✓
Environment Variable	USAPJOBSTATCHECKINTERVAL= <i>seconds</i>			✓	✓	
Configuration File Keyword	job_stat_check_interval <i>seconds</i>			✓	✓	✓

15.133.3 Value

seconds is the number of seconds that can elapse before a call is made to synchronize the actual job status with the SAP stored status.

Default is 600.

15.133.4 Command Usage

The STATUS_CHECK_INTERVAL option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [MASS ACTIVITY WAIT](#)
- [RUN JOB](#)
- [WAIT for JOB](#)

15.134 STATUS_FINISHED - USAP configuration option

15.134.1 Description

The STATUS_FINISHED option specifies whether or not to include jobs with status **finished** in selection criteria.

15.134.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-finished <i>option</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.134.3 Value

option is the specification for whether or not to include jobs with status **finished** in selection criteria.

Valid values for *option* are:

- **yes**
Include jobs with status **finished** in selection criteria.
- **no**
Do not include jobs with status **finished** in selection criteria.

Default is yes.

15.134.4 Command Usage

The STATUS_FINISHED option is used in the following Universal Connector command:

- [DISPLAY SELECT](#)

15.135 STATUS_READY - USAP configuration option

15.135.1 Description

The STATUS_READY option specifies whether or not to include jobs with status **ready** in selection criteria.

15.135.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-ready <i>option</i>			✓	✓	✓
Environment Variable	n/a					

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Configuration File Keyword	n/a					

15.135.3 Value

option is the specification for whether or not to include jobs with status **ready** in selection criteria.

Valid values for option are:

- **yes**
Include jobs with status **ready** in selection criteria.
- **no**
Do not include jobs with status **ready** in selection criteria.

Default is yes.

15.135.4 Command Usage

The STATUS_READY option is used in the following Universal Connector command:

- [DISPLAY SELECT](#)

15.136 STATUS_RELEASED - USAP configuration option

15.136.1 Description

The STATUS_RELEASED option specifies whether or not to include jobs with status **released** in selection criteria.

15.136.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-released <i>option</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.136.3 Value

option is the specification for whether or not to include jobs with status **released** in selection criteria.

Valid values for option are:

- **yes**
Include jobs with status **released** in selection criteria.
- **no**
Do not include jobs with status **released** in selection criteria.

Default is **yes**.

15.136.4 Command Usage

The STATUS_RELEASED option is used in the following Universal Connector command:

- [DISPLAY SELECT](#)

15.137 STATUS_RUNNING - USAP configuration option

15.137.1 Description

The STATUS_RUNNING option specifies whether or not to include jobs with status **running** in selection criteria.

15.137.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-running <i>option</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.137.3 Value

option is the specification for whether or not to include jobs with status **running** in selection criteria.

Valid values for option are:

- **yes**
Include jobs with status **running** in selection criteria.
- **no**
Do not include jobs with status **running** in selection criteria.

Default is **yes**.

15.137.4 Command Usage

The STATUS_RUNNING option is used in the following Universal Connector command:

- [DISPLAY SELECT](#)

15.138 STATUS_SCHEDULED - USAP configuration option

15.138.1 Description

The STATUS_SCHEDULED option specifies whether or not to include jobs with status **scheduled** in selection criteria.

15.138.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-scheduled <i>option</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.138.3 Value

option is the specification for whether or not to include jobs with status **scheduled** in selection criteria.

Valid values for option are:

- **yes**
Include jobs with status **scheduled** in selection criteria.
- **no**
Do not include jobs with status **scheduled** in selection criteria.

Default is yes.

15.138.4 Command Usage

The STATUS_SCHEDULED option is used in the following Universal Connector command:

- [DISPLAY SELECT](#)

15.139 STEP_NUMBER - USAP configuration option

15.139.1 Description

The STEP_NUMBER option specifies the step number of the SAP job step.

15.139.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-n <i>stepnumber</i>			✓	✓	✓
Command Line, Long Form	-stepnum <i>stepnumber</i>			✓	✓	✓
Environment Variable	USAPSTEPNUM= <i>stepnum</i>			✓	✓	
Configuration File Keyword	n/a					

15.139.3 Value

stepnum is the step number of the SAP job step.

15.139.4 Command Usage

The STEP_NUMBER option is used in the following Universal Connector command:

- [DISPLAY SPOOLLIST](#)

15.140 SUBMIT - USAP configuration option

15.140.1 Description

The SUBMIT option defines a job to the SAP system.

15.140.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-U <i>ddname / filename</i>			✓	✓	✓
Command Line, Long Form	-sub <i>ddname / filename</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.140.3 Value

ddname / filename is the name of the file containing the job definition.

15.140.4 Command Usage

The SUBMIT option is used in the following Universal Connector commands:

- [SUBMIT INTERCEPT CRITERIA TABLE](#)
- [SUBMIT JOB](#)
- [SUBMIT VARIANT](#)
- [SUBMIT FS JOBNET](#)

15.141 SYSLOG - USAP configuration option

15.141.1 Description

The SYSLOG option specifies whether or not to generate a syslog report.

SYSLOG is used when Universal Connector is directed to wait for job completion.

15.141.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	<i>-y option</i>			✓	✓	✓
Command Line, Long Form	<i>-syslog option</i>			✓	✓	✓
Environment Variable	<i>USAPSYSLOG=option</i>			✓	✓	
Configuration File Keyword	<i>print_syslog option</i>			✓	✓	✓

15.141.3 Value

option is the specification for whether or not to generate a syslog report.

Valid values for option are:

- **yes**
Generate a syslog report on standard error.
- **no**
Do not generate a syslog report.

Default is yes.

15.141.4 Command Usage

The SYSLOG option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [MASS ACTIVITY WAIT](#)

- [WAIT for JOB](#)
- [WAIT for FS JOB NETWORK](#)

15.142 SYSLOG_POST_TIME - USAP configuration option

15.142.1 Description

The SYSLOG_POST_TIME option specifies the number of seconds to add to the job end time when calculating the **to** time for the syslog report.

This will cause USAP to sleep for the specified number of seconds after a job ends and before retrieving the syslog. This is useful for allowing the SAP system time to log all relevant messages.

Note

SYSLOG_POST_TIME is used only when the [STATUS_READY](#) option is set to **yes**.

15.142.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-syslogpost <i>seconds</i>			✓	✓	✓
Environment Variable	USAPSYSLOGPOST <i>seconds</i>			✓	✓	
Configuration File Keyword	syslog_post_time <i>seconds</i>			✓	✓	✓

15.142.3 Value

seconds is the number of seconds to add to the job end time.

Default is 15.

15.142.4 Command Usage

The SYSLOG_POST_TIME option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [MASS ACTIVITY WAIT](#)
- [WAIT for JOB](#)
- [WAIT for FS JOB NETWORK](#)

15.143 SYSLOG_PRE_TIME - USAP configuration option

15.143.1 Description

The SYSLOG_PRE_TIME option specifies the number of seconds to subtract from the job release time when calculating the **from** time for the syslog report.

This can be used to obtain error messages that may have been generated prior to job release.

Note

SYSLOG_PRE_TIME is used only when the [STATUS_READY](#) option is set to **yes**.

15.143.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-syslogpre <i>seconds</i>			✓	✓	✓
Environment Variable	USAPSYSLOGPRE <i>seconds</i>			✓	✓	
Configuration File Keyword	syslog_pre_time <i>seconds</i>			✓	✓	✓

15.143.3 Value

seconds is the number of seconds to subtract from the job release time.

Default is 0.

15.143.4 Command Usage

The SYSLOG_PRE_TIME option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [MASS ACTIVITY WAIT](#)
- [WAIT for JOB](#)
- [WAIT for FS JOB NETWORK](#)

15.144 SYSTEM_ID - USAP configuration option

15.144.1 Description

The SYSTEM_ID option identifies the local Universal Broker with which Universal Connector must register before the Manager performs any request.

Each Universal Broker running on a system is configured with a system identifier that uniquely identifies the Broker.

15.144.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-system_id <i>ID</i>					
Environment Variable	USAPSYSTEMID= <i>ID</i>					
Configuration File Keyword	n/a					

15.144.3 Values

ID is the system identifier of the local Universal Broker.

(Refer to the local Universal Broker administrator for the appropriate system ID to use.)

15.144.4 Command Usage

The SYSTEM_ID option is a [LOCAL](#) option.

LOCAL options are associated with program execution, not commands. They are required for local broker registration.

15.145 SYSTEM_NUMBER - USAP configuration option

15.145.1 Description

The SYSTEM_NUMBER option specifies the SAP system number of an SAP application server for a Type A RFC connection.

SYSTEM_NUMBER, in conjunction with the [AS_HOST](#) option, can be used instead of the [DESTINATION](#) option to define a connection to an SAP system.

15.145.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-sysnr <i>number</i>			✓	✓	✓
Environment Variable	USAPSYSNR <i>number</i>			✓	✓	
Configuration File Keyword	sysnr <i>number</i>			✓	✓	✓

15.145.3 Value

number is the SAP system number of an SAP application server.

15.145.4 Command Usage

The SYSTEM_NUMBER option is a [HOST](#) option.

HOST options are associated with program execution, not commands. They are required to establish a connection with an SAP system.

15.146 TARGET_JOB_NAME - USAP configuration option

15.146.1 Description

The TARGET_JOB_NAME option specifies the name to give the newly created job.

15.146.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-target_jobname <i>jobname</i>			✓	✓	✓
Environment Variable	USAPTARGETJOBNAME= <i>jobname</i>			✓	✓	
Configuration File Keyword	n/a					

15.146.3 Value

jobname is the name for the newly created job.

Default is original jobname.

15.146.4 Command Usage

The TARGET_JOB_NAME option is used in the following Universal Connector commands:

- [RUN JOB](#)
- [SUBMIT JOB](#)

15.147 TARGET_SERVER - USAP configuration option

15.147.1 Description

The TARGET_SERVER option specifies the server on which the job will run.

(For the [DISPLAY SYSLOG](#) command, TARGET_SERVER specifies the name of the server whose SYSLOG will be read.)

Note

TARGET_SERVER is not available on SAP 3.1 and 4.0 systems.

15.147.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-r <i>server</i>			✓	✓	✓
Command Line, Long Form	-targetserver <i>server</i>			✓	✓	✓
Environment Variable	USAPTARGETSRV= <i>server</i>			✓	✓	
Configuration File Keyword	n/a					

15.147.3 Value

server is the server on which the job will run.

Default is the current server when used with the [DISPLAY SYSLOG](#) command.

15.147.4 Command Usage

The TARGET_SERVER option is used in the following Universal Connector commands:

- [DISPLAY SYSLOG](#)
- [MODIFY JOB](#)
- [RUN JOB](#)

- [START JOB](#)

15.148 TARGET_VARIANT - USAP configuration option

15.148.1 Description

The TARGET_VARIANT option specifies one or more replacement variants for ABAP program job steps in an SAP job.

Each execution of an ABAP program (job step) in an SAP job can use a single variant that contains parameters specific to that program. TARGET_VARIANT specifies variants that can be used as replacement variants for one or more of these job steps in single SAP job execution.

When a user RUNs or SUBMITs a predefined SAP job that specifies TARGET_VARIANT, Universal Connector first performs a copy of the template job, then performs the variant substitution.

15.148.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					✓
Command Line, Long Form	-target_variant <i>job step, variant name; [USAP:job step, variant name]...</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.148.3 Value

Each target variant contains a pair of values:

- *job step* is the number of the job step (ABAP program) in the SAP job.
- *variant name* is the name of the replacement variable for that job step.

Each *job step / variant name* in a target variant is separated by a comma (,). Each target variant is separated by a semicolon (;).

For example:

- `-target_variant 1,var1`
- `-target_variant 1,var1;3,var2;7,var3`

15.148.4 Command Usage

The TARGET_VARIANT option is used in the following Universal Connector commands:

- [RUN JOB](#)
- [SUBMIT JOB](#)

15.149 TARGET_VARIANTNAME - USAP configuration option

15.149.1 Description

The TARGET_VARIANTNAME option specifies the name given to a copied [VARIANT](#) on an SAP system.

15.149.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-target_variantname variantname			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.149.3 Value

variantname is the name given to the copied [VARIANT](#).

15.149.4 Command Usage

The TARGET_VARIANTNAME option is used in the following Universal Connector command:

- [SUBMIT VARIANT](#)

15.150 TECHNICAL_DEVICE_NAME - USAP configuration option

15.150.1 Description

The TECHNICAL_DEVICE_NAME option specifies either a complete device name or a mask used to select SAP output devices that match the mask.

15.150.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-short_name <i>name</i>			✓	✓	✓

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Environment Variable	USAPSHORTNAME= <i>name</i>			✓	✓	
Configuration File Keyword	n/a					

15.150.3 Value

name is either a complete device name or a mask used to select SAP output devices that match the mask.

A mask contains an asterisk (*) to represent 0 or more characters of a device name.

15.150.4 Command Usage

The TECHNICAL_DEVICE_NAME option is used in the following Universal Connector command:

- [DISPLAY OUTPUT_DEVICES](#)

15.151 TIMEOUT_INTERVAL - USAP configuration option

15.151.1 Description

The TIMEOUT_INTERVAL option specifies the number of seconds that can elapse before Universal Connector considers an RFC call to have timed out.

This sets a time constraint on all RFC functions, with the exception of a blocking RFC connect call.

15.151.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_timeout <i>interval</i>			✓	✓	✓
Environment Variable	USAP_RFC_TIMEOUT= <i>interval</i>			✓	✓	
Configuration File Keyword	rfc_timeout <i>interval</i>			✓	✓	✓

15.151.3 Value

interval is the number of seconds that can elapse before Universal Connector considers an RFC call to have timed out.

Default is 120.

15.151.4 Command Usage

The TIMEOUT_INTERVAL option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are always used to configure a fault tolerant RFC connection.

15.152 TO_DATE - USAP configuration option

15.152.1 Description

The TO_DATE option specifies the latest date to use for job selection or syslog request.

15.152.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-todate <i>date</i>			✓	✓	✓
Environment Variable	USAPTODATE= <i>date</i>			✓	✓	
Configuration File Keyword	n/a					

15.152.3 Value

date is the latest date to use for job selection or syslog request.

The format of *date* is:

YYYY/MM/DD

15.152.4 Command Usage

The TO_DATE option is used in the following Universal Connector commands:

- [DISPLAY SELECT](#)
- [DISPLAY SYSLOG](#)

15.153 TO_TIME - USAP configuration option

15.153.1 Description

The TO_TIME option specifies the latest time to use for job selection or syslog request.

15.153.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-totime <i>time</i>			✓	✓	✓
Environment Variable	USAPTOTIME= <i>time</i>			✓	✓	✓
Configuration File Keyword	n/a					

15.153.3 Value

time is the latest time to use for job selection or syslog request.

The format of *time* is:

HH:MM:SS

15.153.4 Command Usage

The TO_TIME option is used in the following Universal Connector commands:

- [DISPLAY SELECT](#)
- [DISPLAY SYSLOG](#)

15.154 TRACE_DIRECTORY - USAP configuration option

15.154.1 Description

The TRACE_DIRECTORY option specifies the directory where RFC trace files will be written.

15.154.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_trace_dir <i>path</i>					✓
Environment Variable	n/a					
Configuration File Keyword	rfc_trace_dir <i>path</i>					✓

15.154.3 Value

path is the directory where RFC trace files will be written.

A value of `.` will cause the trace files to be created or appended in the home directory of the user under which Universal Connector is running.

Default is /tmp.

15.154.4 Command Usage

The TRACE_DIRECTORY option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are always used to configure a fault tolerant RFC connection.

15.155 TRACE_FILE_LINES - USAP configuration option

15.155.1 Description

The TRACE_FILE_LINES option specifies the maximum number of lines to write to the trace file.

A trace file is generated when the [MESSAGE_LEVEL](#) option is set to **trace**. The trace file will wrap around when the maximum number of lines has been reached and start writing trace entries after the trace header lines.

z/OS

In order for the trace file to wrap, the data set must support repositioning. Only sequential, fixed record format data sets support repositioning.

15.155.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-tracefilelines <i>lines</i>			✓	✓	✓
Environment Variable	USAPTRACEFILELINES <i>lines</i>			✓	✓	
Configuration File Keyword	trace_file_lines <i>lines</i>			✓	✓	✓

15.155.3 Value

lines is the maximum number of lines to write to the trace file.

Default is 500,000,000.

15.155.4 Command Usage

The TRACE_FILE_LINES option is a [MESSAGE](#) option.

MESSAGE options are associated with program execution, not commands. They specify different characteristics of **usap** messages.

15.156 TRACE_TABLE - USAP configuration option

15.156.1 Description

The TRACE_TABLE option specifies the size of a wrap-around trace table, and under what conditions the table is written to a file when the process ends.

Trace data can be written to a file / data set as it is produced, or it can be written to a table maintained in memory.

The trace table is written to a file / data set when the program ends under the conditions specified in this option. Tracing is activated, and a trace file is generated, when the [MESSAGE_LEVEL](#) option is set to **trace**.

15.156.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-trace_table size, condition			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	trace_table size, condition			✓	✓	✓

15.156.3 Values

size is the size (in bytes) of the table.

The size can be suffixed with either of the following characters:

- **M**
Indicates that the size is specified in megabytes.
- **K**
Indicates that the size is specified in kilobytes.

For example, 50M indicates that 50 X 1,048,576 bytes of memory is allocated for the trace table.

Default is 0 (trace table is not used).

condition is the condition under which the trace table is written.

Valid values for *condition* are:

- **error**
Write the trace table if the program ends with a non-zero exit code.
- **always**
Write the trace table when the program ends regardless of the exit code.
- **never**
Never write the trace table.

Default is never.

15.156.4 Command Usage

The TRACE_TABLE option is a [MESSAGE](#) option.

MESSAGE options are associated with program execution, not commands. They specify different characteristics of **usap** messages.

15.157 TRANSLATION_TABLE - USAP configuration option

15.157.1 Description

The TRANSLATION_TABLE option specifies the spool list translation table file to use for formatting returned spool lists.

The Spoolist Translate Table (STT) files are used to format raw (SAP internal format) spoolists. The STT files are located in the NLS subdirectory of the installation directory.

15.157.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-t <i>translation_table</i>			✓	✓	✓
Command Line, Long Form	-transtab <i>translation_table</i>			✓	✓	✓
Environment Variable	USAPTRANSTAB= <i>translation_table</i>			✓	✓	
Configuration File Keyword	<i>translation_table</i> <i>translation_table</i>			✓	✓	✓

15.157.3 Value

translation_table is the base file name of the translation table (STT) file to use for formatting returned spool lists.

All STT files end with an extension of **.stt**.

Default is default.

(The **default** translation table contains translations for the standard SAP formatting codes to appropriate ASCII character representations.)

15.157.4 Command Usage

The TRANSLATION_TABLE option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [DISPLAY SPOOLLIST](#)
- [MASS ACTIVITY WAIT](#)
- [WAIT for JOB](#)

15.158 USAP_POLL - USAP configuration option

15.158.1 Description

The USAP_POLL option specifies the number of seconds to wait between job status calls to the SAP system. These status calls are used to monitor the SAP job and, therefore, are made repeatedly until the job completes.

15.158.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-p <i>seconds</i>			✓	✓	✓
Command Line, Long Form	-poll <i>seconds</i>			✓	✓	✓
Environment Variable	USAPPOLL= <i>seconds</i>			✓	✓	
Configuration File Keyword	poll_time <i>seconds</i>			✓	✓	✓

15.158.3 Value

seconds is the number of seconds to wait between job status calls.

Default is 10.

15.158.4 Command Usage

The USAP_POLL option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [MASS ACTIVITY WAIT](#)
- [MODIFY JOB](#)
- [RUN JOB](#)

- [START FS JOBNET](#)
- [START JOB](#)
- [SUBMIT FS JOBNET](#)
- [WAIT for JOB](#)
- [WAIT for FS JOB NETWORK](#)

15.159 USE_APPLICATION_RC - USAP configuration option

15.159.1 Description

The USE_APPLICATION_RC option specifies whether or not the job's application return codes are used to determine the exit code of the Universal Connector job.

If USE_APPLICATION_RC is turned on, Universal Connector will merge the SAP job's application return codes with other factors that can affect the exit code of the Universal Connector job. In the merge process, the highest value recorded is used as the exit code.

15.159.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-useapprc <i>option</i>			✓	✓	✓
Environment Variable	USAPUSEAPPRC= <i>option</i>			✓	✓	
Configuration File Keyword	use_app_rc <i>option</i>			✓	✓	✓

15.159.3 Value

option is the specification for whether or not the application return codes will be merged with the Universal Connector exit code.

Valid values for *option* are:

- **yes**
Application return codes are merged with the Universal Connector exit code.
- **no**
Application return codes are not merged with the Universal Connector exit code.

Default is no.

15.159.4 Command Usage

The USE_APPLICATION_RC option is used in the following Universal Connector commands:

- [BDCWAIT](#)
- [MASS ACTIVITY WAIT](#)

- [WAIT for JOB](#)

15.160 USE_SYMBOLIC_NAMES - USAP configuration option

15.160.1 Description

The USE_SYMBOLIC_NAMES option specifies whether the NW RFC library, during group-logout, should use symbolic service names defined in `/etc/services` (such as `sapgw33`), or hard-coded port numbers derived from the instance number (such as 3300).

15.160.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	<code>-rfc_use_symbolic_names option</code>			✓	✓	
Environment Variable	<code>USAP_RFC_USE_SYMBOLIC_NAMES=option</code>			✓	✓	
Configuration File Keyword	<code>rfc_use_symbolic_names option</code>			✓	✓	

15.160.3 Value

option specifies whether the NW RFC library, during group-logout, should use symbolic service names defined in `/etc/services` or hard-coded port numbers derived from the instance number.

or not to use delta-manager when serializing / deserializing table parameters passed by using TABLES clause:

- 0
Use port numbers.
- 1
Use service names.

Default is 1.

15.160.4 Command Usage

The USE_SYMBOLIC_NAMES option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.161 USER_ID - USAP configuration option

15.161.1 Description

The USER_ID option specifies the SAP user ID with which to logon to the SAP system.

If the user ID is not specified and the command is executed from a console, Universal Connector prompts for a user ID.

15.161.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-u <i>userid</i>			✓	✓	✓
Command Line, Long Form	-userid <i>userid</i>			✓	✓	✓
Environment Variable	USAPUSERID= <i>userid</i>			✓	✓	
Configuration File Keyword	userid <i>userid</i>			✓	✓	✓

15.161.3 Value

userid is the SAP user ID with which to logon to the SAP system.

15.161.4 Command Usage

The USER_ID option is a [USER](#) option.

USER options are associated with program execution, not commands. They are required to establish an RFC connection to an SAP system.

15.162 USER_NAME - USAP configuration option

15.162.1 Description

The USER_NAME option specifies the user ID associated with a job.

15.162.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Long Form	-selusername <i>userid</i>			✓	✓	✓
Environment Variable	USAPSELUSERNAME= <i>userid</i>			✓	✓	
Configuration File Keyword	n/a					

15.162.3 Value

userid is the user ID.

userid is either:

- Complete user ID
- User ID mask

Note

A mask contains an asterisk (*) to represent 0 or more characters of a user ID.

15.162.3.1 Default

User ID with which Universal Connector currently is running.

15.162.4 Command Usage

The USER_NAME option is used in the following Universal Connector command:

- [DISPLAY SELECT](#)
- [GENERATE JOB DEFINITION FILE](#)
- [RUN JOB](#)
- [START JOB](#)
- [SUBMIT JOB](#)

15.163 VARIANT - USAP configuration option

15.163.1 Description

The VARIANT option specifies the pre-existing SAP variant whose contents will be displayed.

15.163.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-V <i>variant</i>			✓	✓	✓
Command Line, Long Form	-variant <i>variant</i>			✓	✓	✓
Environment Variable	USAPVARIANT= <i>variant</i>			✓	✓	
Configuration File Keyword	n/a					

15.163.3 Value

variant is the pre-existing SAP variant.

15.163.4 Command Usage

The VARIANT option is used in the following Universal Connector commands:

- [DISPLAY VARIANT](#)
- [GENERATE VARIANT DEFINITION FILE](#)
- [PURGE VARIANT](#)
- [SUBMIT VARIANT](#)

15.164 VARIANT_LANGUAGE - USAP configuration option

15.164.1 Description

The VARIANT_LANGUAGE option specifies the preferred language in which to return the variant description.

The option is only effective if a variant description exists on the SAP system in the language specified.

15.164.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-varlang <i>language</i>			✓	✓	✓
Environment Variable	USAPVARLANG <i>language</i>			✓	✓	
Configuration File Keyword	variant_language <i>language</i>			✓	✓	✓

15.164.3 Value

language is the language in which to return the variant description.

Default is EN.

15.164.4 Command Usage

The VARIANT_LANGUAGE option is used in the following Universal Connector command:

- [DISPLAY VARIANT](#)

15.165 VARIANT_SELECTION - USAP configuration option

15.165.1 Description

The VARIANT_SELECTION option specifies the display of available variants.

15.165.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-varselopt <i>option</i>			✓	✓	✓
Environment Variable	USAPVARSELOPT= <i>option</i>			✓	✓	
Configuration File Keyword	n/a					

15.165.3 Value

option is the variant selection option.

Valid values for *option* are:

- **A**
Display variants that are available for batch and dialog modes.
- **B**
Displays variants that are available for batch mode only.

15.165.4 Command Usage

The VARIANT_SELECTION option is used in the following Universal Connector command:

- [DISPLAY VARIANTS](#)

15.166 VERSION - USAP configuration option

15.166.1 Description

The VERSION option writes Universal Connector version and copyright information.

15.166.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-v			✓	✓	✓
Command Line, Long Form	-version			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.166.3 Value

(There are no values required for this option.)

15.166.4 Command Usage

The VERSION option is an [INFORMATIONAL](#) option.

INFORMATIONAL options are associated with program execution, not commands. They request information pertaining to the USAP program.

15.167 WAIT - USAP configuration option

15.167.1 Description

The WAIT option causes Universal Connector to wait for the SAP job to complete processing.

Note

This option can cause Universal Connector to wait for different processes, depending on the command in which it is used. See the links to these commands in [#Command Usage](#), below.

When WAIT is used, the exit code of Universal Connector indicates the completion status of the SAP job / network. (See [Universal Connector for SAP Exit Codes](#) for a complete list of job status exit codes.)

It also allows Universal Connector to return the joblog and spoolists for the job:

- [RETURN_JOB_LOG](#) controls the return of the joblog.
- [RETURN_SPOOL_LIST](#) controls the return of the spoolist.

15.167.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	-W			✓	✓	✓
Command Line, Long Form	-wait			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.167.3 Value

(There are no values used with this option.)

15.167.4 Command Usage

The WAIT option is used in the following Universal Connector commands:

- [MODIFY JOB](#)
- [START FS JOBNET](#)
- [START JOB](#)
- [START PROCESS CHAIN](#)
- [SUBMIT JOB](#)
- [SUBMIT FS JOBNET](#)
- [WAIT for JOB](#)
- [WAIT for FS JOB NETWORK](#)
- [WAIT for INFOPACKAGE](#)
- [WAIT for PROCESS CHAIN](#)

15.168 WAIT_FOR_CHILD_JOBS - USAP configuration option

15.168.1 Description

The WAIT_FOR_CHILD_JOBS option specifies whether or not to monitor child jobs.

WAIT_FOR_CHILD_JOBS is dependent on a Universal Connector WAIT or RUN command. It is evaluated only when the WAIT command is being used.

When WAIT_FOR_CHILD_JOBS is used, Universal Connector will exit with most significant completion status received from all monitored jobs.

15.168.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-waitchild <i>option</i>			✓	✓	✓
Environment Variable	USAPWAITCHILD= <i>option</i>					
Configuration File Keyword	wait_for_child_jobs <i>option</i>			✓	✓	✓

15.168.3 Value

option is the specification for whether or not to monitor child jobs.

Valid values for *option* are:

- **yes**
USAP will monitor all child jobs to completion.
- **no**
USAP will not monitor child jobs.

Default = yes.

15.168.4 Command Usage

The WAIT_FOR_CHILD_JOBS option is used in the following Universal Connector commands:

- [MODIFY JOB](#)
- [START JOB](#)
- [SUBMIT JOB](#)
- [WAIT for JOB](#)

15.169 WITH_PREDECESSOR - USAP configuration option

15.169.1 Description

The WITH_PREDECESSOR option specifies whether or not to include jobs with start after predecessor in selection criteria.

15.169.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-withpred <i>option</i>			✓	✓	✓
Environment Variable	n/a					
Configuration File Keyword	n/a					

15.169.3 Value

option is the specification for whether or not to include jobs with start after predecessor in selection criteria.

Valid values for *option* are:

- **yes**
Include jobs with start after predecessor in selection criteria.
- **no**
Do not include jobs with start after predecessor in selection criteria.

Default is yes.

15.169.4 Command Usage

The WITH_PREDECESSOR option is used in the following Universal Connector command:

- [DISPLAY SELECT](#)

15.170 X509CERT - USAP configuration option

15.170.1 Description

The X509CERT option specifies the path to a file containing the credentials to log on with an X509 certificate ticket instead of USER&PASSWORD.

The certificate must be Base64-encoded and mapped to a valid user in the back-end's user configuration.

15.170.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-rfc_x509cert <i>path</i>			✓	✓	
Environment Variable	USAP_RFC_X509CERT= <i>path</i>			✓	✓	
Configuration File Keyword	rfc_x509cert <i>path</i>			✓	✓	

15.170.3 Value

path specifies the path to a file containing the credentials to log on with an X509 certificate ticket instead of USER&PASSWORD.

15.170.4 Command Usage

The X509CERT option is an [RFC \(Remote Function Call\)](#) option.

RFC options are associated with program execution, not commands. They are used to configure the SAP NW RFC connection.

15.171 XMI_AUDIT_LEVEL - USAP configuration option

15.171.1 Description

The XMI_AUDIT_LEVEL option sets the XMI audit level to be used for the execution of the command.

15.171.2 Usage

Method	Syntax	IBM i	HP NonStop	UNIX	Windows	z/OS
Command Line, Short Form	n/a					
Command Line, Long Form	-xmiaudit <i>level</i>			✓	✓	✓
Environment Variable	USAPXMIAUDIT= <i>level</i>			✓	✓	
Configuration File Keyword	xmi_audit_level <i>level</i>			✓	✓	✓

15.171.3 Value

level is the XMI audit level to be used for the execution of the command.

Valid values for *level* are 0, 1, 2, and 3. The amount of information logged in the XMI log increases with higher audit level values.

Default is 0.

15.171.4 Command Usage

The XML_AUDIT_LEVEL option is a [HOST](#) option.

HOST options are associated with program execution, not commands. They are required to establish a connection with an SAP system.

16 Universal Connector for SAP Job Definition Files

16.1 Universal Connector for SAP Job Definition Files

Job definition files contain statements that specify the attributes of jobs. These job definitions are used by the SUBMIT, MODIFY, and RUN commands to define or modify jobs in an SAP system.

Universal Connector for SAP supports several different job types. The following pages provide a detailed description of the syntax options and requirements for each type of job definition.

- [Standard Universal Connector for SAP Job Definition File Syntax](#)
- [Sample Universal Connector for SAP Job Definition File](#)
- [Sample Universal Connector for SAP Job Definition File with Temporary Variants](#)
- [Variant Definition File - USAP](#)
- [Job Intercept Table Definition File - USAP](#)
- [FS Job Network Definition File - USAP](#)
- [Spoolist Translation Tables - USAP](#)

16.2 Standard Universal Connector for SAP Job Definition File Syntax

16.2.1 Standard Universal Connector for SAP Job Definition File Syntax

The standard Universal Connector for SAP job is equivalent to defining a background job SAP via transaction SM36.

There are five types of statements used to define a standard USAP job:

1. [Job Header statement](#)
2. [ABAP Step statement](#)
3. [Temporary Variant Content statement](#)
4. [External Step statement](#)
5. [External Command Step statement](#)

A job definition requires a Job Header statement followed by one or more ABAP Step statements.

Statements are made up of keyword = value assignments and are terminated with a semi-colon (;). Each statement type has a specific unique keyword that is required to start the keyword = value assignment list.

The following figure illustrates the syntax of a Universal Connector for SAP standard job definition.

```
Job_Header_Statement Step_Statement [Step_Statements]
```

16.2.2 Keywords for Job Header Statement

16.2.2.1 Keywords for Job Header Statement

The following table identifies:

- Keywords for a Job Header statement
- Maximum length of the associated values
- Specification for whether or not the values are required
- Any restricted value sets.

The first keyword in each table is the keyword required to start the corresponding statement.

Keyword	Length	Required	Restricted Values / Description
JOBNAME	32	Yes	
TARGET_SERVER	20	No	
JOBCOUNT	8	No	This keyword is useful only for the modify command. In all other cases, it is ignored; it will not cause a syntax error.
JOB_CLASS	1	No	A, B, C This keyword is only valid if at least one of the following requirements is met: <ol style="list-style-type: none"> 1. Job definition file is being used with an SAP 46C system with support package SAPKB46C44. 2. Job definition file is being used with an SAP 610 system with support package SAPKB61033. 3. Job definition file is being used with an SAP 620 system with support package SAPKB62023.
LANGUAGE	2	No	This keyword is the SAP system language desired when using the E-Mail Notification functionality on select SAP systems (must be either an ISO language code or a single-byte SAP language code).
NOTIFY_TYPE	1	No	This keyword is the desired notification type for the E-Mail Notification functionality on select SAP systems. Valid values for this keyword are: <ul style="list-style-type: none"> • "A" → enables notification for only job canceled • "F" → enables notification for job canceled and completed Any other value provided will disable the E-Mail Notification.
EMAIL_ADDRESSES	12750	No	This keyword is a semi-colon-separated list of E-Mail addresses that will receive the E-Mail Notification if enabled.
The following keywords represent SAP job start conditions.			
SDLSTRDT	8	No	YYYYMMDD

SDLSTRTTM	6	No	HHMMSS
LASTSTRTDT	8	No	YYYYMMDD
LASTSTRTTM	6	No	HHMMSS
PREDJOB	32	No	
PREDJOBCNT	8	No	
EVENTID	32	No	
EVENTPARM	64	No	
CHECKSTAT	1	No	'X' = Check job status for subsequent job start. ' ' = Do not check job status for subsequent job start.
PERIODIC	1	No	'X' = Job is periodic. ' ' = Job is not periodic.
CALENDARID	2	No	
PRDMINS	2	No	00-99
PRDHOURS	2	No	00-99
PRDDAYS	3	No	00-999
PRDWEEKS	2	No	00-99
PRDMONTHS	2	No	00-99
WDAYNO	2	No	00-99
WDAYCDIR	1	No	Work day relative to: '1' = Beginning of month. '2' = End of month.
PRDBEHAV	1	No	Start Date Restrictions: ' ' = Always execute job. 'D' = Do not execute job on Sundays or holidays. 'B' = Move job to previous day. 'A' = Move job to next work day.
NOTBEFORE	8	No	YYMMDD
The following keywords represent SAP spool list recipient (XBP 2.0 format). The values for these keywords must be supplied in internal format.			
LOGSYS	10	No	
OBJTYPE	10	No	
OBJKEY	70	No	
DESCRIBE	10	No	

<p>The following keywords represent an SAP spool list recipient (XBP 3.0 format). The values for these keywords are specified in a format that more closely matches the job definition interface of the SAP Front End GUI. This is a user friendly replacement for the XBP 2.0 format above.</p>			
RECIPIENT	241	No	Recipient Address
REC_TYPE	1	No	Recipient type. The following recipient types are supported: <ul style="list-style-type: none"> • 'B' = SAP Office user name • 'P' = personal distribution list • 'C' = shared distribution list • 'F' = fax number
COPY	1	No	Send copy.
BLIND_COPY	1	No	Send Blind copy.
EXPRESS	1	No	Send express.
NO_FORWARDING	1	No	No forwarding is allowed (for external recipients only).
DELIVER	1	No	Report send status (for external recipients only). The following values are possible: <ul style="list-style-type: none"> • " " = use system default. • "A" = always report send status. • "E" = report send status only in case of an error. • "N" = never report send status.
NO_PRINT	1	No	Printing not allowed.
MAILSTATUS	1	No	Report status by email (for external recipients only). The following values are possible: <ul style="list-style-type: none"> • " " = Use system default. • "A" = Always send status e-mail. • "E" = Send status e-mail only in case of error. • "N" = Never send status e-mail.

16.2.3 Keywords for ABAP Step Statement

16.2.3.1 Keywords for ABAP Step Statement

The first keyword in the table is the keyword required to start the corresponding statement.

Note

[Temporary variants](#) can be supplied for ABAP steps by defining inline variant content statements following the ABAP step statements to which they pertain.

Keyword	Length	Required	Restricted Values / Description
ABAP_STEP	40	Yes	
STEP_NUMBER	8	Yes	This keyword is only required and useful for the MODIFY command. It is ignored in all other cases and will not cause a syntax error.
ABAP_PROGRAM_NAME	40	Yes	
SAP_USER_NAME	12	No	
LANGUAGE	1	No	
VARIANT_NAME	14	No	
The following keywords represent SAP printing parameters.			
OUTPUT_DEVICE	4	No	
PRINT_IMMEDIATELY	1	No	'X' = Output. ' ' = Do not output.
RELEASE	1	No	'X' = Delete after output.
COPIES	3	No	
ARCHIVING_MODE	1	No	'1' = only print the document. '2' = only archive the document. '3' = both print and archive the document.
SAP_BANNER	1	No	' ' = no cover sheet. 'X' = output cover sheet. 'D' = cover sheet output depends on the setting of the output device (printer) being used.
BANNER_PAGE	1	No	' ' = no cover sheet. 'X' = output cover sheet.
PRUNX	1	No	This keyword controls the printing of an "OS Cover Sheet." ' ' = Do not Print. 'X' = Print. 'D' = OS Cover Sheet output is default system administrator settings.
EXPIRATION	1	No	
RECIPIENT	12	No	
NUM_LINES	10	No	
NUM_COLUMNS	10	No	
AUTHORIZATION	12	No	

PLIST	12	No	<p>Spool Request Name</p> <p>This keyword is valid only if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
PRTXT	68	No	<p>Spoolist Title</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
PRNEW	1	No	<p>New Spool Request:</p> <p>'X' = Create a new spoolist for each spoolist generated. ' ' = Append all spoolists.</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
PRABT	12	No	<p>Department</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
PAART	16	No	<p>Print format</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
PRDSN	6	No	<p>Spool Data Set</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
PTYPE	12	No	<p>Spool Request Type</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
FOOTL	1	No	<p>Footer:</p> <p>'X' = yes. ' ' = no.</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
<p>The following keywords represent SAP extended print parameters.</p>			

MAIL	12750	No	The mail address for an email printer. Valid values are a semi-colon-separated list of email addresses.
TEXT	1	No	Text only 'X' = yes. ' ' = no.
NOSHADE	1	No	The suppression of colors/shading in the printout. 'X' = yes. ' ' = no.
NOFRAME	1	No	No frame characters. 'X' = yes. ' ' = no.
SMS	1	No	Include structure information in the Spool List, 'X' = yes. ' ' = no.
MXLSZ	1	No	Maximum width of 255 characters in the Spool Request. 'X' = yes. ' ' = no.
SPOOLPAGE1	8	No	The starting page for spool output.
SPOOLPAGE2	8	No	The final page for spool output.
The following keywords represent SAP archiving parameters.			
SAP_OBJECT	10	No	Object Type
AR_OBJECT	10	No	Document Type
INFO	3	No	Info Field
ARCHIV_ID	2	No	Target Storage System This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.
DOC_TYPE	20	No	Document Class This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.
RPC_HOST	32	No	RPC Host This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.

RPC_SERVIC	32	No	<p>RPC Service / RFC Destination</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
AR_INTERFACE	14	No	<p>Communication Component</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
MANDANT	3	No	<p>Client</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
REPORT	40	No	<p>Report Name</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
ARCTEXT	40	No	<p>Text Information</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
DATUM	8	No	<p>Archiving Date</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
ARCUSER	12	No	<p>Data Element for User</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
PRINTER	4	No	<p>Target Printer</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>
FORMULAR	16	No	<p>Output Format</p> <p>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.</p>

ARCHIVPATH	70	No	Standard Archive Path This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.
PROTOKOLL	8	No	Storage Connection Protocol This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.
VERSION	4	No	Version Number This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system. The XBP 2.0 interface will be used if present.

16.2.4 Keywords for Temporary Variant Content Statement

16.2.4.1 Keywords for Temporary Variant Content Statement

Universal Connector supports SAP temporary variants via an inline variant definition. Inline variant definitions are added to a job definition file following the ABAP Step Statement to which they are associated.

Inline variant definitions are similar in structure and syntax to the standard [\[USAP Variant Definitions\]](#). However, Inline variant definitions are comprised solely of Variant Content Statements.

Inline variant definitions are made up of keyword = value assignments and are terminated with a semi-colon (;).

The following table lists the keywords available for the Inline Variant Content statement, the maximum length of the associated values, whether or not they are required, and any restricted value sets.

The first keyword in the table is the keyword required to start the statement.

Keyword	Length	Required	Restricted Values / Description
SELNAME	8	Yes	
KIND	1	Yes	Field Type: <ul style="list-style-type: none"> 'P' = Field type is a parameter. 'S' = Field Type is a selection option.
SIGN	1	Yes	Selection sign: <ul style="list-style-type: none"> 'I' = Include values based on field selection criteria. 'E' = Exclude values based on field selection criteria.
OPTION	2	Yes	Selection option: <ul style="list-style-type: none"> 'CP' = Pattern. 'EQ' = Single value. 'GE' = Greater than or equal to. 'LE' = Less than or equal to. 'GT' = Greater than. 'LT' = Less than. 'NE' = Not equal to.

Keyword	Length	Required	Restricted Values / Description
LOW	45	No	Selection value.
HIGH	45	No	Selection value.

16.2.5 Keywords for External Step Statement

16.2.5.1 Keywords for External Step Statement

The following table identifies:

- Keywords for an External Step statement
- Maximum length of the associated values
- Specification for whether or not the values are required
- Any restricted value sets.

The first keyword in each table is the keyword required to start the corresponding statement.

Keyword	Length	Required	Restricted Values / Description
EXTERNAL_STEP	40	Yes	
STEP_NUMBER	8	Yes	This keyword is required (and useful) only for the Modify command. In all other cases, it is ignored and will not cause a syntax error.
PROGRAM_NAME	128	Yes	
PROGRAM_PARAMETERS	255	No	
SAP_USER_NAME	12	No	
TARGET_HOST	32	Yes	
WAIT_FOR_TERMINATION	1	No	' ' or 'W' = Don't wait. 'X' or 'C' = Wait. 'E' = The external program signals its time limitation over a Event to the SAP system.
CONNCTL	1	No	'R' = Communication way is held after starting the external program. 'H' = Communication way is diminished after starting the external program.
STDINCTL	1	No	'N' = No change. 'C' = Standard input closes. 'R' = Return standard input.

Keyword	Length	Required	Restricted Values / Description
STDOUTCNTL	1	No	'N' = No change. 'C' = Standard output expenditure closes. 'R' = Return standard output expenditure. 'T' = Return standard output into the trace file. 'M' = Write standard output expenditure into main storage.
STDERRCNTL	1	No	'N' = No change. 'C' = Standard error expenditure closes. 'R' = Return standard error expenditure. 'M' = Write standard error expenditure into main storage.
TRACECNTL	1	No	'0' = Level 0, no trace. '1' = Level 1, function call trace. '2' = Level 2, minutes trace. '3' = Level 3, expression of all messages.

16.2.6 Keywords for External Command Step Statement

16.2.6.1 Keywords for External Command Step Statement

The following table identifies:

- Keywords for an External Command Step statement
- Maximum length of the associated values
- Specification for whether or not the values are required
- Any restricted value sets.

The first keyword in each table is the keyword required to start the corresponding statement.

Keyword	Length	Required	Restricted Values / Description
COMMAND_STEP	40	Yes	
STEP_NUMBER	8	Yes	This keyword is required (and useful) only for the Modify command. In all other cases, it is ignored and will not cause a syntax error.
COMMAND_NAME	128	Yes	
COMMAND_PARAMETERS	255	No	
SAP_USER_NAME	12	No	
TARGET_HOST	32	Yes	
OPSYSTEM	10	Yes	

Keyword	Length	Required	Restricted Values / Description
WAIT_FOR_TERMINATION	1	No	' ' or 'W' = Don't wait. 'X' or 'C' = Wait. 'E' = The external program signals its time limitation over a Event to the SAP system.
CONNCTL	1	No	'R' = Communication way is held after starting the external program. 'H' = Communication way is diminished after starting the external program.
STDINCTL	1	No	'N' = No change. 'C' = Standard input closes. 'R' = Return standard input.
STDOUTCTL	1	No	'N' = No change. 'C' = Standard output expenditure closes. 'R' = Return standard output expenditure. 'T' = Return standard output into the trace file. 'M' = Write standard output expenditure into main storage.
STDERRCTL	1	No	'N' = No change. 'C' = Standard error expenditure closes. 'R' = Return standard error expenditure. 'M' = Write standard error expenditure into main storage.
TRACECTL	1	No	'0' = Level 0, no trace. '1' = Level 1, function call trace. '2' = Level 2, minutes trace. '3' = Level 3, expression of all messages.

16.3 Sample Universal Connector for SAP Job Definition File

16.3.1 Sample Universal Connector for SAP Job Definition File

The following figure illustrates a sample job definition file that defines a job with 1 ABAP step running ABAP report BTCSPool.

```

/* Job Header statement */
JOBNAME           = "SAMPLE_1"
JOB_CLASS         = "B"
;

/* ABAP_STEP Step statement */
ABAP_STEP         = "1"
  ABAP_PROGRAM_NAME = "BTCSPool"
  PRTXT           = "Sample 1"
    
```

```

PRNEW          = "X"
;

```

16.4 Sample Universal Connector for SAP Job Definition File with Temporary Variants

16.4.1 Sample Job Definition File with Temporary Variants

The following figure illustrates a sample job definition file that uses inline variant statements to define temporary variants.

This file will define a two-step job. Each job step runs ABAP report RSUSR002. The inline variant content statement is used to set the USER parameter of a temporary variant that will be created for RSUSR002. The inline content statement for the first job step specifies a value of STONE*. The inline content statement for the second job step specifies a value of OPS*.

Additional inline variant content statements can be added as needed.

```

/*****
** Description
** -----
** This sample demonstrates the use of inline variants.
**
**
*/

/* Job Header statement */
JOBNAME      = "SAMPLE - Inline Variants"
  JOB_CLASS = "C"
;

/* ABAP_STEP Step statement */
ABAP_STEP    = "***STEP 1***"
  /* STEP_NUMBER      = "1" */
  ABAP_PROGRAM_NAME = "RSUSR002"
;

/* User */
SELNAME     = "USER"
  KIND      = "S"
  SIGN     = "I"
  OPTION   = "CP"
  LOW     = "STONE*"
  HIGH    = ""
;

/* ABAP_STEP Step statement */
ABAP_STEP    = "***STEP 2***"
  /* STEP_NUMBER      = "2" */
  ABAP_PROGRAM_NAME = "RSUSR002"
;

/* User */

```

```

SELNAME = "USER"
KIND    = "S"
SIGN    = "I"
OPTION  = "CP"
LOW     = "OPS*"
HIGH    = ""
;
/***** END SAMPLE *****/

```

16.5 Variant Definition File - USAP

- [Overview](#)
- [Variant Definition File Syntax](#)
- [Variant Definition File Statement Keywords](#)
 - [Keywords for Variant Header Statement](#)
 - [Keywords for Variant Text Statement](#)
 - [Keywords for Variant Content Statement](#)
- [Sample Variant Definition File](#)

16.5.1 Overview

Universal Connector for SAP variant definition files contain statements that specify the attributes of variants.

These variant definitions are used by the SUBMIT and MODIFY commands to define or modify variants in an SAP system.

This page provides a detailed description of the syntax options and requirements for variant definition files.

16.5.2 Variant Definition File Syntax

The USAP variant definition file is used to create or modify a variant in an SAP system. There are three types of statements used to define a variant:

1. Variant Header Statement
2. Variant Text Statement
3. Variant Content Statement

A variant definition requires a Variant Header statement followed by Text and Content statements. Statements are made up of keyword = value assignments and are terminated with a semi-colon (;). Each statement type has a specific unique keyword that is required to start the keyword = value assignment list.

The following figure illustrates the syntax of a Universal Connector for SAP variant definition.

Variant_Header_Statement Variant_Text_Statement Variant_Content_Statement
 [Variant_Content_Statements]

16.5.3 Variant Definition File Statement Keywords

The following tables list the keywords available for each statement, the maximum length of the associated values, whether or not they are required, and any restricted value sets. The first keyword in each table is the keyword required to start the corresponding statement.

16.5.3.1 Keywords for Variant Header Statement

The following table identifies the keywords for a Variant Header statement.

Keyword	Length	Required	Restricted Values
VARIANT_NAME	14	Yes	Variant name.
REPORT	40	Yes	ABAP report for which variant is defined.

16.5.3.2 Keywords for Variant Text Statement

The following table identifies the keywords for a Variant Text statement.

Keyword	Length	Required	Restricted Values
VARIANT_TEXT	30	Yes	
LANGUAGE	2	Yes	

16.5.3.3 Keywords for Variant Content Statement

The following table identifies the keywords for a Variant Content statement.

Keyword	Length	Required	Restricted Values
SELNAME	8	Yes	
KIND	1	Yes	Field type: <ul style="list-style-type: none"> • 'P' = Field type is a parameter. • 'S' = Field type is a selection option.
SIGN	1	Yes	Selection sign: <ul style="list-style-type: none"> • 'I' = Include values based on field selection criteria. • 'E' = Exclude values based on field selection criteria.

Keyword	Length	Required	Restricted Values
OPTION	2	Yes	Selection option: <ul style="list-style-type: none"> 'CP' = Pattern. 'EQ' = Single value. 'GE' = Greater than or equal to. 'LE' = Less than or equal to. 'GT' = Greater than. 'LT' = Less than. 'NE' = Not equal to.
LOW	45	No	Selection value.
HIGH	45	No	Selection value.
PROTECTED	1	No	<ul style="list-style-type: none"> 'X' = Field is protected. ' ' = Field is not protected.
APPENDAGE	1	No	<ul style="list-style-type: none"> *X' = Appendage. ' ' = Not appendage.
VNAME	30	No	Name of variant variable.
VTYPE	1	No	Variant variable type: <ul style="list-style-type: none"> 'T' = Table variable from TVARV. 'D' = Dynamic date calculation. 'B' = User defined variables.
INVISIBLE	1	No	Hide field: <ul style="list-style-type: none"> 'X' = Invisible. ' ' = Not invisible.
NOINT	1	No	Hide field 'BIS': <ul style="list-style-type: none"> 'X' = Invisible. ' ' = Not invisible.
SCREENNR	4	No	Screen number.
NO_IMPORT	1	No	Save field without values: <ul style="list-style-type: none"> 'X' = Yes ' ' = No
OBLI	1	No	Required field: <ul style="list-style-type: none"> 'X' = Yes ' ' = No

16.5.4 Sample Variant Definition File

The following figure illustrates a sample variant definition file.

This file will define variant **SAMPLE_1** for ABAP report **RSUSR002**. The **USER** field will contain value **S***.

```

/* Variant Header statement. */
VARIANT_NAME   = "SAMPLE_1"
REPORT        = "RSUSR002"
;
    
```

```

/* Variant text statement. */
VARIANT_TEXT = "SAMPLE_1"
  LANGUAGE   = "EN"
;

/* User */
SELNAME      = "USER"
  KIND       = "S"
  SIGN      = "I"
  OPTION    = "CP"
  LOW      = "S*"
  HIGH     = ""
  PROTECTED = ""
  APPENDAGE = ""
  VNAME    = ""
  VTYPE   = ""
  INVISIBLE = ""
  SCREENNR = ""
  NO_IMPORT = ""
  SPAGPA   = ""
  OBLI     = ""
  NOINT    = ""
;

```

16.6 Job Intercept Table Definition File - USAP

- [Overview](#)
- [Job Intercept Table Definition File Syntax](#)
- [Job Intercept Table Definition File Keywords](#)
 - [Keywords for Job Intercept Table Header Statement](#)
 - [Keywords for Job Intercept Table Row Statement](#)
- [Sample Job Intercept Table Definition File](#)

16.6.1 Overview

Universal Connector for SAP job intercept table definition files contain statements that specify criteria rows. These definitions are used by the SUBMIT command to replace or append the job intercept table in an SAP system.

This page provides a detailed description of the syntax options and requirements for job intercept table definition files.

16.6.2 Job Intercept Table Definition File Syntax

The USAP job intercept table definition file is used to replace or append the job intercept in an SAP system.

There are two types of statements used to define a job intercept table:

1. Job Intercept Table Header Statement

2. Job Intercept Table Row Statement

A job intercept table definition requires a Header statement followed by row statements. Statements are made up of keyword = value assignments and are terminated with a semi-colon (;). Each statement type has a specific unique keyword that is required to start the keyword = value assignment list.

The following figure illustrates the syntax of a USAP job intercept table definition.

```
Job_Intercept_Table_Header_Statement [Job_Intercept_Table_Row_Statements]
```

16.6.3 Job Intercept Table Definition File Keywords

The following tables list the keywords available for each statement, the maximum length of the associated values, whether or not they are required, and any restricted value sets. The first keyword in each table is the keyword required to start the corresponding statement.

16.6.3.1 Keywords for Job Intercept Table Header Statement

The following table identifies the keywords for a Job Intercept Table Header statement.

Keyword	Length	Required	Restricted Values
INTERCEPT_TABLE	1024	Yes	Table name (**This value is only used internally by USAP. It does not effect the SAP table definition.)
APPEND	1	Yes	<ul style="list-style-type: none"> • 'X' = Append. • '' = Replace.

16.6.3.2 Keywords for Job Intercept Table Row Statement

The following table identifies the keywords for a Job Intercept Table Row statement.

Keyword	Length	Required	Restricted Values
INTERCEPT_ROW	1024	Yes	Row name. (**This value is only used internally by USAP. It does not effect the SAP table definition.)
CLIENT	3	No	
JOB_NAME	32	No	
JOB_CREATOR	12	No	

16.6.4 Sample Job Intercept Table Definition File

The following figure illustrates a sample job intercept table definition file.

The file will append four rows to the SAP job intercept criteria table.

```

/* Job Intercept Table Header statement */
INTERCEPT_TABLE      = "TABLE_1"
  APPEND                = "X"
;

/* Job Intercept Row statement */
INTERCEPT_ROW        = "1"
  CLIENT                = "850"
  JOB_NAME              = "TEST*"
  JOB_CREATOR          = "stonebranch"
;

/* Job Intercept Row statement */
INTERCEPT_ROW        = "2"
  CLIENT                = "850"
  JOB_NAME              = "TST*"
  JOB_CREATOR          = "stonebranch"
;

/* Job Intercept Row statement */
INTERCEPT_ROW        = "3"
  CLIENT                = "850"
  JOB_NAME              = "DEV*"
  JOB_CREATOR          = "stonebranch"
;

/* Job Intercept Row statement */
INTERCEPT_ROW        = "4"
  CLIENT                = "*"
  JOB_NAME              = "*"
  JOB_CREATOR          = "BOB"
;

```

16.7 FS Job Network Definition File - USAP

- [Overview](#)
- [FS Job Network Definition File Syntax](#)
- [FS Job Network Definition File Statement Keywords](#)
 - [Keywords for FS Jobnet Header Statement](#)
 - [Keywords for FS Jobnet Process Statement](#)
 - [Keywords for FS Jobnet Process Relation Statement](#)
- [Sample FS Job Network Definition File](#)

16.7.1 Overview

Universal Connector for SAP FS job network definition files contain statements that specify the attributes of FS job networks. These variant definitions are used by the SUBMIT, START, and RUN commands to define and start FS job networks in an SAP system.

This page provides a detailed description of the syntax options and requirements for FS job network definition files.

16.7.2 FS Job Network Definition File Syntax

The Universal Connector for SAP FS job network definition file is used to create an FS job network in an SAP system.

There are three types of statements used to define an FS job network:

1. FS Jobnet Header statement.
2. FS Jobnet Process statement.
3. FS Jobnet Process Relation statement.

An FS jobnet definition requires an FS Jobnet Header statement followed by FS Jobnet Process Statements, then FS Jobnet Process Relation statements. Statements are made up of keyword = value assignments and are terminated with a semi-colon (;). Each statement type has a specific unique keyword that is required to start the keyword = value assignment list.

The following figure illustrates the syntax of a Universal Connector FS Job Network definition.

```
FS_Jobnet_Header FS_Jobnet_Process [FS_Jobnet_Process]
FS_Jobnet_Process_Relation [FS_Jobnet_Process_Relation]
```

16.7.3 FS Job Network Definition File Statement Keywords

The following tables list the keywords available for each statement, the maximum length of the associated values, whether or not they are required, and any restricted value sets.

The first keyword in each table is the keyword required to start the corresponding statement.

16.7.3.1 Keywords for FS Jobnet Header Statement

The following table identifies the keywords for an FS Jobnet Header statement.

Keyword	Length	Required	Restricted Values
NETWORKIDENTIFIER	50	Yes	Network identifier.

16.7.3.2 Keywords for FS Jobnet Process Statement

The following table identifies the keywords for an FS Jobnet Process statement.

Keyword	Length	Required	Restricted Values
PROCESS_IDENTIFIER	50	Yes	Process identifier.
REPORT_NUMBER	3	Yes	Report number: 001-999.
REPORT_NAME	40	Yes	Report name.
REPORT_VARIANT	14	No	Report variant.
JOBNAME	32	Yes	Job name.

16.7.3.3 Keywords for FS Jobnet Process Relation Statement

The following table identifies the keywords for an FS Jobnet Process Relation statement.

Keyword	Length	Required	Restricted Values
PROCESS_RELATION	3	Yes	Process relation number: 001-999.
REPORT_NUMBER_PREDECESSOR	3	Yes	Report number predecessor: 001-999.
REPORT_NUMBER_SUCCESOR	3	Yes	Report number successor: 001-999.

16.7.4 Sample FS Job Network Definition File

The following figure illustrates a sample FS job network definition file.

```

/*****
**
** Sample FS Job Network definition file for USAP for
** SAP
**
** Demonstrates creation of a multi-process jobnet.
**
*****/

/* Jobnet Header statement */
NETWORKIDENTIFIER          = "SB-NETID_01";

/* Add Jobnet Process statements */
PROCESS_IDENTIFIER        = "SB-PRC_01"
  REPORT_NUMBER           = "001"
  REPORT_NAME             = "Z_TEST_NETWORK"
  REPORT_VARIANT          = "RC_00"
  JOBNAME                 = "SB-Z_TEST_NETWORK"
  ;

PROCESS_IDENTIFIER        = "SB-PRC_02"

```

```

REPORT_NUMBER           = "002"
REPORT_NAME             = "RSUSR000"
JOBNAME                 = "SB-RSUSR000"
;

PROCESS_IDENTIFIER     = "SB-PRC_03"
REPORT_NUMBER           = "003"
REPORT_NAME             = "BTCSPool"
JOBNAME                 = "SB-BTCSPool"
;

/* Add Jobnet Process Relations statements. */
PROCESS_RELATION        = "1"
REPORT_NUMBER_PREDECESSOR = "001"
REPORT_NUMBER_SUCESSOR   = "002"
;

PROCESS_RELATION        = "2"
REPORT_NUMBER_PREDECESSOR = "002"
REPORT_NUMBER_SUCESSOR   = "003"
;

```

16.8 Spoolist Translation Tables - USAP

- [Overview](#)
- [Spoolist Translation Table File Format](#)
 - [Column 1](#)
 - [Column 2](#)
 - [Column 3](#)

16.8.1 Overview

Universal Connector for SAP returns spoolists in a raw (SAP internal) format. This raw format contains all of the formatting control codes that the SAP system needs to display or print the spoolist. In most cases, this raw format will not be desirable.

Therefore, Universal Connector for SAP provides the ability to translate the raw spoolist into a desirable format. The translation is performed using a user definable translation table. Multiple translation tables can be defined to achieve different formatting results. The required translation table can be specified at run time.

On UNIX systems, the Spoolist Translation (STT) files are located in the NLS subdirectory of the installation directory.

z/OS

The STT files are located in the library allocated to the UNVNLS DD statement.

Universal Connector ships with two Spoolist Translation files: **default.stt** and **raw.stt**. The default Spoolist Translation Table file is **default**. This translation table contains translations for the standard SAP formatting codes to appropriate character representations. The **raw** translation table defines no translations and allows USAP to return the spoolist in its SAP internal format.

16.8.2 Spoolist Translation Table File Format

The Spoolist Translation Table files consist of three white space-separated columns.

16.8.2.1 Column 1

This is a compare string to look for in the raw unformatted spoolist. This compare string is built by combining comma delimited values. The values are combined to make up the actual compare string. The values can be quoted strings, hexadecimal values representing characters, or decimal values representing characters.

Note

Spaces cannot be used to separate values in the comma delimited list.

16.8.2.2 Column 2

This is a replace string that will be used to replace the compare string in the raw unformatted spoolist. This replace string is built from comma delimited values. The values are combined to make up the actual replace string. The values can be quoted strings, hexadecimal values representing characters, or decimal values representing characters.

Note

Spaces cannot be used to separate values in the comma delimited list.

16.8.2.3 Column 3

This is a single decimal value used to restrict the comparison to a specific starting column. A value is not required in this column. If no value is specified in this column, the compare string will be replaced in every location that it is found.

17 Universal Connector for SAP Authorizations

- [Introduction](#)
- [Universal Connector for SAP Authorization Profile](#)

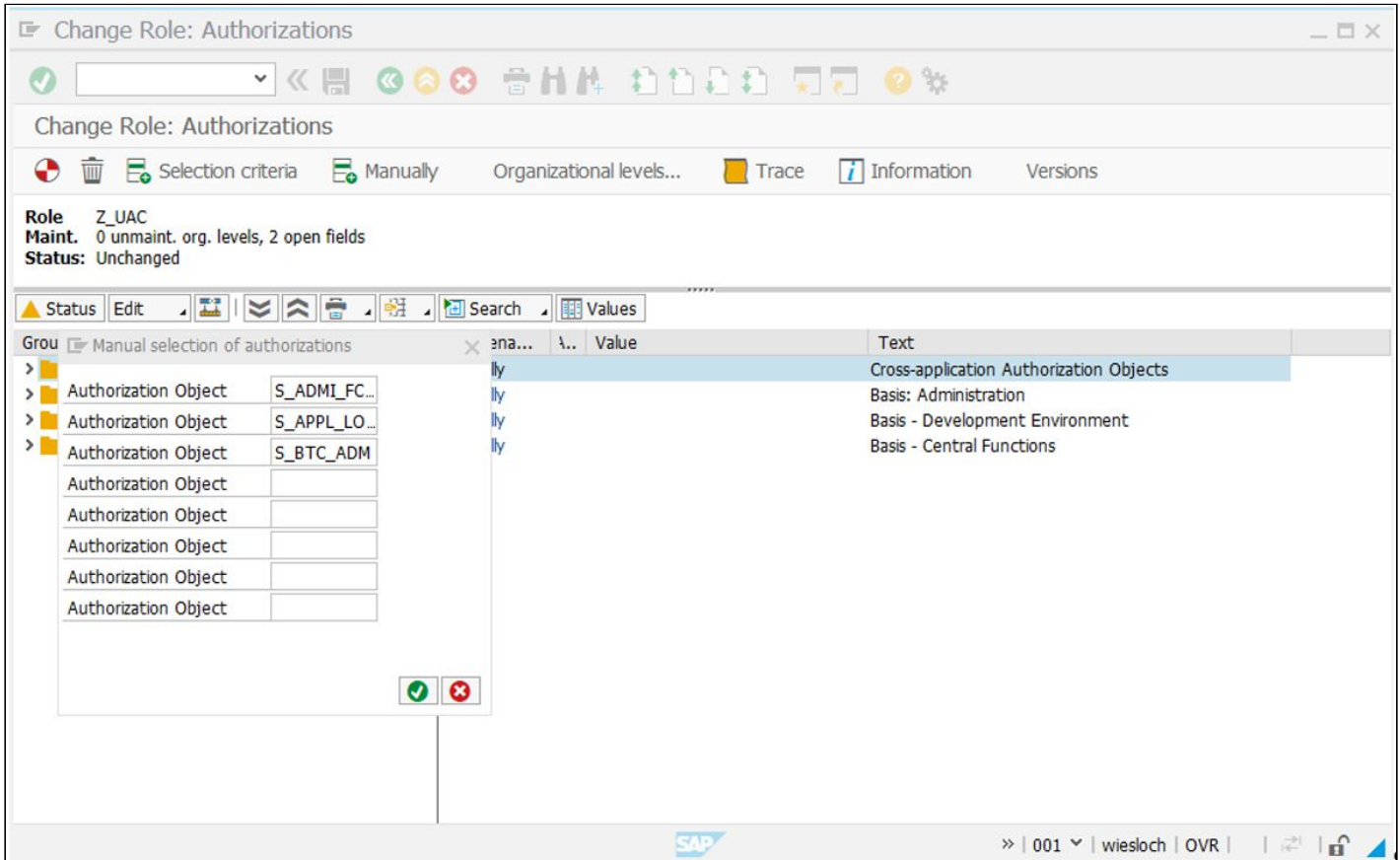
17.1 Introduction

This document describes how to create an authorization profile for the Stonebranch Universal Connector for SAP (USAP).

17.2 Universal Connector for SAP Authorization Profile

Perform the following steps using transaction **su02** to manually create the profile (optionally use transaction PFCG “Profile Generator”).

1. Create a new Role.
For example: **Z_UAC**, and add a description e.g., **Scheduling Role Stonebranch SAP Connector**
2. Manually add the authorizations and values according to the table below.



Authorization for Universal Connector for SAP

Object	Description	Authorization	Values
S_ADMI_FCD	System authorizations	S_ADMI_ALL	System authorizations. <ul style="list-style-type: none"> S_ADMI_FCD - System administration function: Full authorization (All values).
S_APPL_LOG	Application logs	S_APPL_L_E2E	Activity: Display. <ul style="list-style-type: none"> ALG_OBJRCT - Application log Object name: Full authorization. ALG_SUBOBJ - Application log subobject: Full authorization. ACTTVT – Activity: Full authorization.
S_BTCH_ADM	Background processing: Background administrator	S_BTCH_ADM	Background processing: Background administrator. <ul style="list-style-type: none"> BTCADMIN - Background administrator ID: Full authorization.
S_BTCH_JOB	Background processing: Operations on background jobs	S_BTCH_ALL	Background processing: Operations on background jobs. <ul style="list-style-type: none"> JOBACTION - Job operations: Full authorization. JOBGROUP - Summary of jobs for a group: Full authorization.
S_BTCH_NAM	Background processing: Background user name	S_BTCH _ALL	Background processing: Background user name. <ul style="list-style-type: none"> BTCUNAME - Background user name for authorization check: Full authorization.
S_DEVELOP	ABAP Workbench: full authorization to modify objects of type PROG	E_ABAP_ALL	ABAP Workbench: full authorization to modify objects of type PROG. <ul style="list-style-type: none"> DEVCLASS - Package: full authorization. OBJTYPE – Object Type: authorization to modify objects of type PROG. P_GROUP - ABAP Program Authorization Group: full authorization. ACTVT - Activity: full authorization.
S_LOG_COM	Authorization to run external commands	S_LOGCOM_ALL	Authorization to Execute Logical Operating System Commands. <ul style="list-style-type: none"> COMMAND – Name of logical Command : Full authorization. OPSYSTEM – Operating System Application Server : Full authorization. HOST - Application Server : Full authorization.

Object	Description	Authorization	Values
S_PROGRAM	ABAP: program run checks	S_ABAP_ALL	ABAP: Program run checks. <ul style="list-style-type: none"> • P_ACTION - User action ABAP program: Full authorization. • P_GROUP - Authorization group ABAP/4 program: Full authorization.
S_RFC	Authorization. check for RFC access	S_RFC_ALL	Authorization check for RFC access. <ul style="list-style-type: none"> • RFC_NAME - Name of RFC to be protected: Full authorization. • RFC_TYPE - Type of RFC object to be protected: Full authorization. • ACTTVT – Activity: Full authorization.
S_RZL_ADM	CCMS: System Administration	S_RZL_ALL	<ul style="list-style-type: none"> • ACTVT - Activity: Full authorization.
S_SPO_ACT	Spool: Actions	S_SPO_ALL	Spool: Actions. <ul style="list-style-type: none"> • SPOACTION - Authorization field for spool actions: Full authorization. • SPOAUTH - Value for authorization check: Full authorization.
S_SPO_DEV	Spool: Device authorizations	S_SPO_DEV_AL	Spool: Device authorizations. <ul style="list-style-type: none"> • SPODEVICE - Spool - Long device names: Full authorization.
S_XMI_LOG	Internal access authorizations for XMI log	S_XMILOG_ADM	Internal access authorizations for XMI log <ul style="list-style-type: none"> • XMILOGACC - Access method for XMI log: Full authorization.
S_XMI_PROD	Authorization for external management interfaces (XMI)?	S_XMI_ADMIN	<ul style="list-style-type: none"> • EXTCOMPANY - XMI logging: company name of external management tool : Full authorization. • EXTPRODUCT - XMI logging: Program name of external management tool : Full authorization. • INTERFACE - Interface ID (for example, XBP) : Full authorization.

Note

The authorizations are in the "Basis: Administration" object class.

Depending on the SAP version, the authorization S_RFC_ALL are located either in the "Cross-application Authorization Objects" or in the "Non-application-specific Authorization Objects" object class.

The following Screenshot show the configured Authorization Objects:

3.

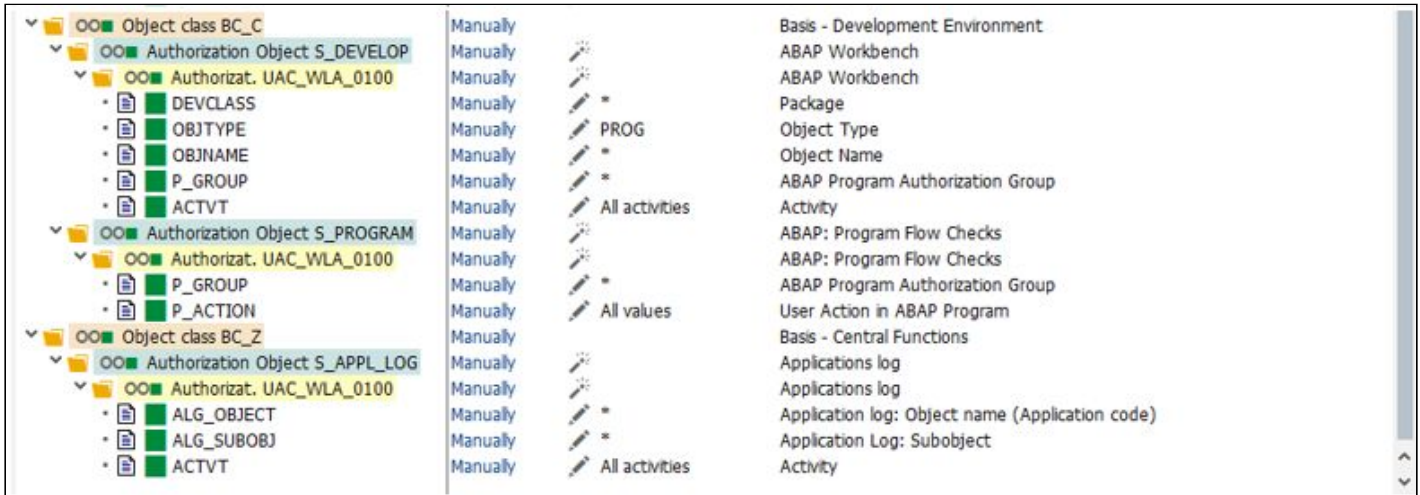
Change Role: Authorizations

Change Role: Authorizations

Selection criteria Manually Organizational levels... Trace Information Versions

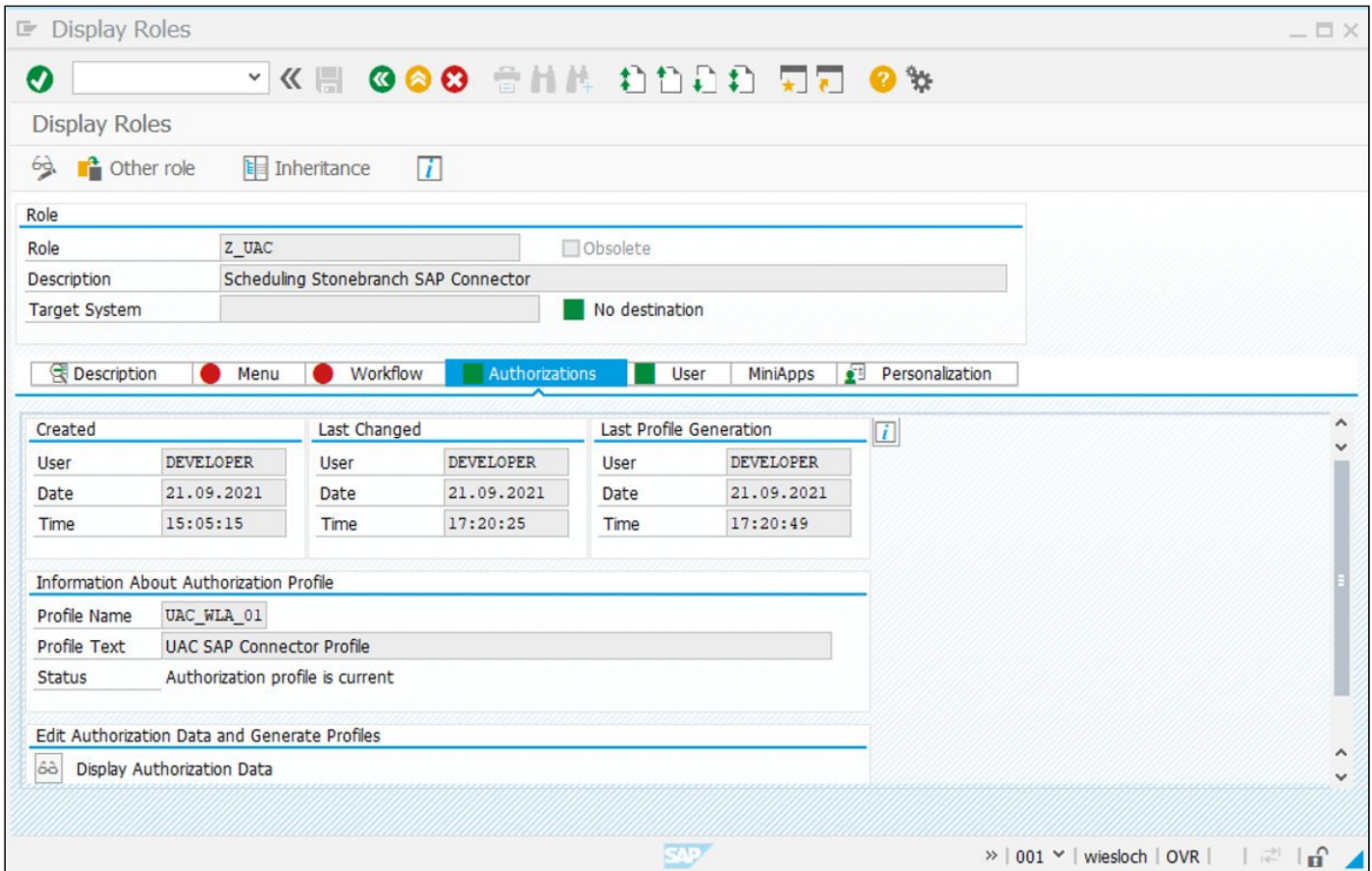
Role Z_UAC
Maint. 0 unmaint. org. levels, 0 open fields
Status: Changed

Group/Object/Authorization/Field	Maintena...	Value	Text
OO Object class AAAB	Manually		Cross-application Authorization Objects
OO Authorization Object S_RFC	Manually		Authorization Check for RFC Access
OO Authorizat. UAC_WLA_0100	Manually		Authorization Check for RFC Access
RFC_TYPE	Manually	All values	Type of RFC object to which access is to be allowed
RFC_NAME	Manually	*	Name (Whitelist) of RFC object to which access is allowed
ACTVT	Manually	All activities	Activity
OO Object class BC_A	Manually		Basis: Administration
OO Authorization Object S_ADMI_FCD	Manually		System Authorizations
OO Authorizat. UAC_WLA_0100	Manually		System Authorizations
S_ADMI_FCD	Manually	All values	System administration function
OO Authorization Object S_BTCH_ADM	Manually		Background Processing: Background Administrator
OO Authorizat. UAC_WLA_0100	Manually		Background Processing: Background Administrator
BTCADMIN	Manually	All values	Background Administrator ID
OO Authorization Object S_BTCH_JOB	Manually		Background Processing: Operations on Background Jobs
OO Authorizat. UAC_WLA_0100	Manually		Background Processing: Operations on Background Jobs
JOBACTION	Manually	All values	Job operations
JOBGROUP	Manually	*	Summary of jobs for a group
OO Authorization Object S_BTCH_NAM	Manually		Background Processing: Background User Name
OO Authorizat. UAC_WLA_0100	Manually		Background Processing: Background User Name
BTCUNAME	Manually	*	Background User Name for Authorization Check
OO Authorization Object S_LOG_COM	Manually		Authorization to Execute Logical Operating System Commands
OO Authorizat. UAC_WLA_0100	Manually		Authorization to Execute Logical Operating System Commands
COMMAND	Manually	*	Name of Logical Command
OPSYSTEM	Manually	*	Operating System of Application Server
HOST	Manually	*	Application Server
OO Authorization Object S_RZL_ADM	Manually		CCMS: System Administration
OO Authorizat. UAC_WLA_0100	Manually		CCMS: System Administration
ACTVT	Manually	All activities	Activity
OO Authorization Object S_SPO_ACT	Manually		Spool: Actions
OO Authorizat. UAC_WLA_0100	Manually		Spool: Actions
SPOACTION	Manually	All values	Authorization field for spool actions
SPOAUTH	Manually	*	Value for authorization check
OO Authorization Object S_SPO_DEV	Manually		Spool: Device authorizations
OO Authorizat. UAC_WLA_0100	Manually		Spool: Device authorizations
SPODEVICE	Manually	*	Spool: Long device names
OO Authorization Object S_XMI_LOG	Manually		Internal Access Authorization for XMI Log
OO Authorizat. UAC_WLA_0100	Manually		Internal Access Authorization for XMI Log
XMLOGACC	Manually	*	Access method for XMI log
OO Authorization Object S_XMI_PROD	Manually		Authorization for External Management Interfaces (XMI)
OO Authorizat. UAC_WLA_0100	Manually		Authorization for External Management Interfaces (XMI)
EXTCOMPANY	Manually	*	XMI logging: company name of external management tool
EXTPRODUCT	Manually	*	XMI logging: Program name of external management tool
INTERFACE	Manually	*	Interface ID (for example, XBP)



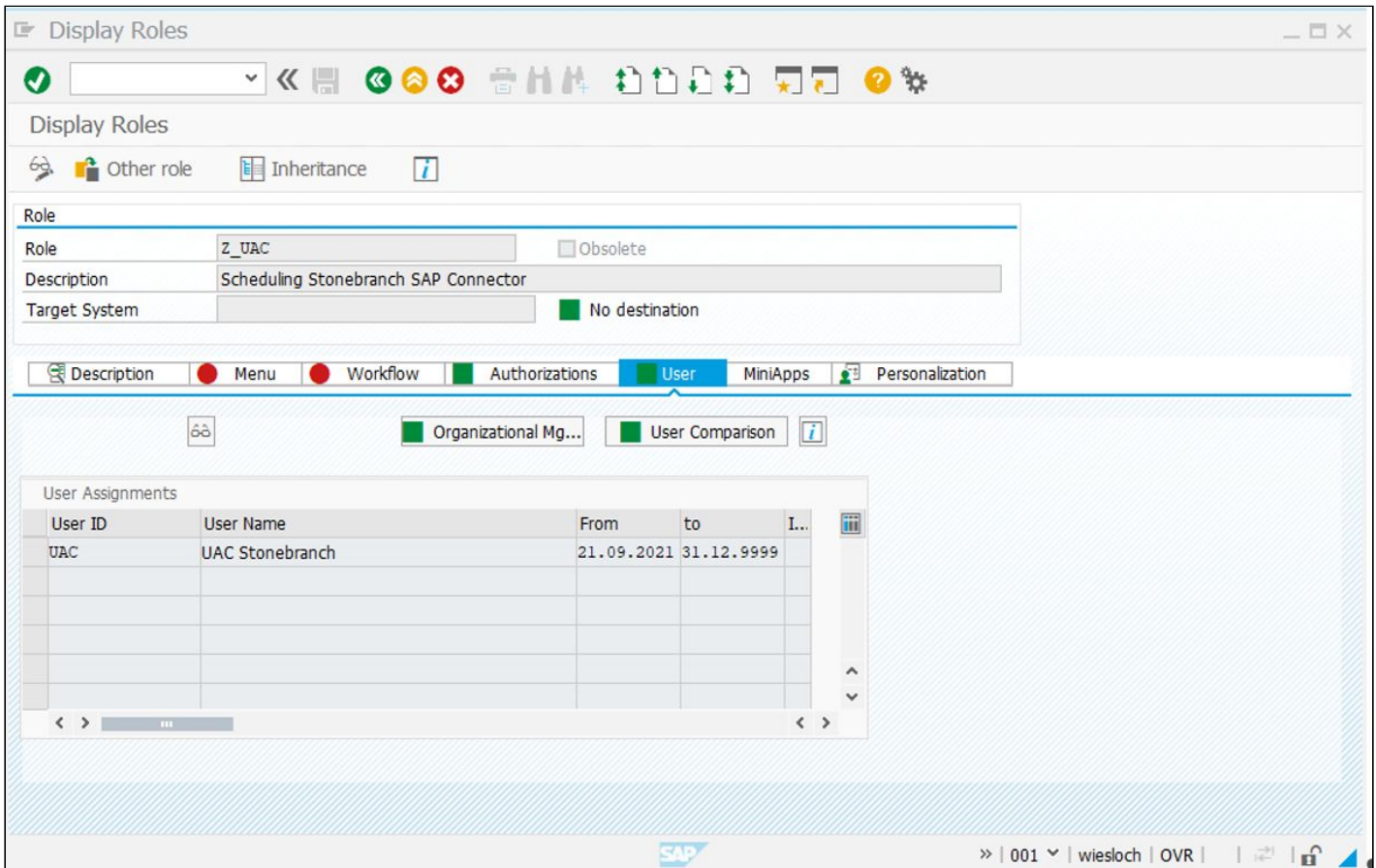
4. Add a profile name.

For example: **UAC_WLA_01**, and a description (for example, **UAC SAP Connector Profile**).



5. Save the profile.

6. Go to the user maintenance panel and assign the profile to the Universal Controller user for SAP R/3.



7. Save the user data.

17.3 Check in SU01 Maintain Users the Configuration

- [Role](#)
- [Profile](#)

17.3.1 Role

Maintain Users

UAC

Changed By: DEVELOPER 21.09.2021 15:58:27 Status: Saved

Documentation | Address | Logon Data | SNC | Defaults | Parameters | **Roles** | Profiles | Groups | Personalization | License

Reference User

Role Assignments

Status	Role	Ty...	Start Date	End Date	Short Role Description
■	Z_UAC		21.09.2021	31.12.9999	Scheduling Stonebranch SAP Connector

SAP >> | 001 | wiesloch | OVR |

17.3.2 Profile

The screenshot shows the SAP 'Maintain Users' application window. The title bar reads 'Maintain Users'. Below the title bar is a toolbar with various icons. The main area is titled 'Maintain Users' and contains a form for user details. The 'User' field is set to 'UAC'. The 'Changed By' field is 'DEVELOPER', the date is '21.09.2021', and the time is '15:58:27'. The 'Status' is 'Saved'. Below the form is a navigation bar with tabs: 'Documentation', 'Address', 'Logon Data', 'SNC', 'Defaults', 'Parameters', 'Roles', 'Profiles' (selected), 'Groups', 'Personalization', and 'License'. Below the navigation bar is another toolbar with icons. The main content area is titled 'Assigned Authorization Profiles' and contains a table with the following data:

Profile	Type	Text
UAC_WLA_01		UAC SAP Connector Profile

At the bottom of the window, the SAP logo is visible on the left, and the status bar shows '» | 001 | wiesloch | OVR |' followed by icons for refresh and lock.