
# Universal Connector for SAP 6.3.x

# Reference Guide

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

Universal Connector 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.

## Universal Connector Functionality

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

Specifically, Universal Connector 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 spoollists 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.
- Interface with the MHP Communication Management product.

## Universal Connector Communications

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

# Supported SAP Versions

Universal Connector supports SAP 3.1G and above.

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

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

# XBP 2.0 Support

Universal Connector 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:

## Parent / Child Functionality

This feature allows Universal Connector 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.

## Job Intercept Functionality

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

## Raise Events Externally

This feature allows Universal Connector 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.

# XBP 3.0 Support

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

Currently, Universal Connector supports only the following new feature set of XBP 3.0:

## 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.

# SAP User Authentication Requirements

Universal Connector requires a user ID defined in the SAP system for RFC logon/user authentication. The user ID used with Universal Connector 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:

### SAP 3.1 - 4.0

User IDs that will run Universal Connector 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).

### SAP 4.5 (and Higher)

User IDs that will run Universal Connector 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).

## RFC Connection Types

Universal Connector 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 supports Type A (specific application server) and Type B (load balancing) RFC connections.

## Business Warehouse Support in Universal Connector

Universal Connector 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.

### 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.

#### Process Chain Monitoring

When Universal Connector 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 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 instance is set to an appropriate value associated with the state of the Process Chain.

## 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.

### InfoPackage Monitoring

Infopackage monitoring relies exclusively on the functionality exposed by the SAP BW-SCH interface. Universal Connector 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.

# Detailed Information

The following pages provide additional detailed information for Universal Connector:

- Universal Connector 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

# Universal Connector Examples

See Remote Execution for SAP Systems for examples of how to implement remote execution for SAP via Universal Connector.

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

# Universal Connector for SAP for zOS



## Introduction

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

## Usage

Universal Connector 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 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 z/OS.

## JCL Procedure

The following figure illustrates the Universal Connector 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.

## DD Statements used in JCL Procedure

The following table describes the DD statements used in the Universal Connector 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.

## JCL

The following figure illustrates the Universal Connector 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.

## Command Line Syntax

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

```
usap {RUN | SUBMIT | MODIFY | START | WAIT | ABORT | DISPLAY | GENERATE | PURGE | CRITERIA
MANAGEMENT | PROCESS CHAIN | INFO PACKAGES | SYNTAX | RAISE EVENT}
  HOST USER [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.

## Example

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

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

# Universal Connector for SAP for UNIX



## Introduction

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

## Usage

Universal Connector for UNIX executes as a command line application.

Each command line execution contains:

1. Universal Connector 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.

## Command Line Syntax

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

```
usap {RUN | SUBMIT | MODIFY | START | WAIT | ABORT | DISPLAY | GENERATE | PURGE | CRITERIA
MANAGEMENT | PROCESS CHAIN | INFO PACKAGES | SYNTAX | RAISE EVENT}
  HOST USER [CFT] [EVENT] [INFORMATIONAL] [INSTALLATION] [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.

### Example

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

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

# Universal Connector for SAP for Windows



## Introduction

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

## Usage

Universal Connector for Windows executes as a command line application.

Each command line execution contains:

1. Universal Connector 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.

## Command Line Syntax

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

```
usap {RUN | SUBMIT | MODIFY | START | WAIT | ABORT | DISPLAY | GENERATE | PURGE | CRITERIA
MANAGEMENT | PROCESS CHAIN | INFO PACKAGES | SYNTAX | RAISE EVENT}
  HOST USER [CFT] [EVENT] [INFORMATIONAL] [INSTALLATION] [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.

### Example

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

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

# Universal Connector for SAP Commands



## Introduction

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.)

## 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**<br>• RUN FS JOB NETWORK Command<br>• RUN INFOPACKAGE Command<br>• RUN JOB Command<br>• RUN PROCESS CHAIN Command | The RUN command group contains convenience commands that combine the commands from multiple command groups.<br><br>For example, the RUN JOB command performs the following actions:<br>1. Defines an SAP job.<br>2. Starts the job.<br>3. Waits for the job to complete.<br>4. Writes the joblog and spoollists of the job.<br>5. Purges the job from the SAP system. |
| **SUBMIT**<br>• SUBMIT FS JOBNET Command<br>• SUBMIT INTERCEPT CRITERIA TABLE Command<br>• SUBMIT JOB Command<br>• SUBMIT VARIANT Command | The SUBMIT command group contains commands that define various resource definitions to the SAP system.<br><br>For example, the SUBMIT JOB command defines a job to the SAP system. |

| | |
|---|---|
| **MODIFY**<br>• MODIFY JOB Command<br>• MODIFY VARIANT Command | The MODIFY command group contains commands that modify various resource definitions on the SAP system.<br><br>For example, the MODIFY JOB command modifies a job definition in the SAP system. |
| **START**<br>• START FS JOBNET Command<br>• START INFOPACKAGE Command<br>• START JOB Command<br>• START PROCESS CHAIN Command | The START command group contains commands that start various types work on the SAP system.<br><br>For example, the START JOB command starts a job on the SAP system. |
| **WAIT**<br>• BDCWAIT Command<br>• MASS ACTIVITY WAIT Command<br>• WAIT for FS JOB NETWORK Command<br>• WAIT for JOB Command<br>• WAIT INFOPACKAGE Command<br>• WAIT PROCESS CHAIN Command | The WAIT command group contains commands that are used to monitor various types of work on the SAP system.<br><br>For example, the WAIT for JOB command is used to monitor an SAP job through to completion. |
| **ABORT**<br>• ABORT Command | The ABORT command group contains a single command, ABORT, that cancels a running SAP job. |
| **DISPLAY**<br>• DISPLAY CM PROFILES Command<br>• DISPLAY CM CRITERIA Command<br>• DISPLAY COMMANDS Command<br>• DISPLAY EVENT HISTORY Command<br>• DISPLAY INFOPACKAGE STATUS Command<br>• DISPLAY INFOPACKAGES Command<br>• DISPLAY INTERCEPTED_JOBS Command<br>• DISPLAY INTERCEPT_TABLE Command<br>• DISPLAY JOBDEF Command<br>• DISPLAY JOBLOG Command<br>• DISPLAY OUTPUT_DEVICES Command<br>• DISPLAY PRINT_FORMATS Command<br>• DISPLAY PROCESS CHAIN Command<br>• DISPLAY PROCESS CHAIN LOG Command<br>• DISPLAY PROCESS CHAIN START CONDITION Command<br>• DISPLAY PROCESS CHAIN STATUS Command<br>• DISPLAY PROCESS CHAINS Command<br>• DISPLAY QSTATE Command<br>• DISPLAY REPORTS Command<br>• DISPLAY SELECT Command<br>• DISPLAY SELECTION SCREEN Command<br>• DISPLAY SPOOLLIST Command<br>• DISPLAY STATUS Command<br>• DISPLAY SYSLOG Command<br>• DISPLAY VARIANT Command<br>• DISPLAY VARIANTS Command | The DISPLAY command group contains commands that display various types of SAP data. |

| | |
|---|---|
| **GENERATE**<br>• GENERATE JOB DEFINITION FILE Command<br>• GENERATE VARIANT DEFINITION FILE Command | The GENERATE command group contains commands that generate USAP job or variant definitions based on model SAP jobs or variants. |
| **PURGE**<br>• PURGE FS JOB NETWORK Command<br>• PURGE JOB Command<br>• PURGE VARIANT Command | The PURGE command group contains commands that delete SAP jobs. |
| **CRITERIA MANAGEMENT**<br>• ACTIVATE CM PROFILE Command<br>• CREATE CM PROFILE Command<br>• DEACTIVATE CM PROFILE Command<br>• DELETE CM PROFILE Command<br>• DISPLAY CM PROFILES Command<br>• DISPLAY CM CRITERIA Command<br>• SET CM CRITERIA Command | The CRITERIA MANAGEMENT command group contains commands that set up SAP criteria. |
| **PROCESS CHAIN**<br>• DISPLAY PROCESS CHAIN Command<br>• DISPLAY PROCESS CHAIN LOG Command<br>• DISPLAY PROCESS CHAIN START CONDITION Command<br>• DISPLAY PROCESS CHAIN STATUS Command<br>• DISPLAY PROCESS CHAINS Command<br>• INTERRUPT PROCESS CHAIN Command<br>• RESTART PROCESS CHAIN Command<br>• RUN PROCESS CHAIN Command<br>• START PROCESS CHAIN Command<br>• WAIT PROCESS CHAIN Command | The PROCESS CHAIN command group contains commands that work with Process Chains on SAP systems. |
| **INFO PACKAGES**<br>• DISPLAY INFOPACKAGE STATUS Command<br>• DISPLAY INFOPACKAGES Command<br>• RUN INFOPACKAGE Command<br>• START INFOPACKAGE Command<br>• 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. |

# ABORT - USAP Command



## Description

The ABORT command cancels a running SAP job.

## 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
```

## 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. |

# ACTIVATE CM PROFILE - USAP Command



## Description

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

## 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
```

## 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.<br><br>For the default criteria types provided by SAP, the values are:<br><br>• EVTHIS - identifies a criteria type for event history.<br>• EVHIRO - identifies a criteria type for the reorganization of raised events.<br>• INTERC - identifies a criteria type for job interception. |

# BDCWAIT - USAP Command



## 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.

## 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]
    [-qtobecreatedec exitcode]
    [-qunprocessedec exitcode]
    [-qinbackgroundec exitcode]
    [-qfinishedec exitcode]
    [-qerrorec exitcode]
    [-bdcjobnameptrn pattern]
    [-bdcjobidptrn pattern]
    [-bdcqidptrn pattern]
```

## 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_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). |
| 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 | Spoollist translation table file to use for formatting returned spoollists. |
| 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. |

# CREATE CM PROFILE - USAP Command



## Description

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

## Command Line Syntax

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

```
-create_cm_profile  filename / ddname
```

## 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.

# DEACTIVATE CM PROFILE - USAP Command



## Description

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

## 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
```

## 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.<br><br>For the default criteria types provided by SAP, the values are:<br><br>• EVTHIS - identifies a criteria type for event history.<br>• EVHIRO - identifies a criteria type for the reorganization of raised events.<br>• INTERC - identifies a criteria type for job interception. |

# DELETE CM PROFILE - USAP Command



## Description

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

## 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
```

## 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.<br><br>For the default criteria types provided by SAP, the values are:<br><br>• EVTHIS - identifies a criteria type for event history.<br>• EVHIRO - identifies a criteria type for the reorganization of raised events.<br>• INTERC - identifies a criteria type for job interception. |

# DISPLAY CM CRITERIA - USAP Command



## Description

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

## 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
```

## 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.

## 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<br><br>Long Form | Description |
|---|---|---|
| PROFILE_ID | -profile_id | ID of the profile whose criteria are to be displayed in XML format. |
| PROFILE_TYPE | -profile_type | Criteria type of the profile whose criteria are to be displayed in XML format.<br><br>For the default criteria types provided by SAP, the values are:<br><br>• EVTHIS - identifies a criteria type for event history.<br>• EVHIRO - identifies a criteria type for the reorganization of raised events.<br>• INTERC - identifies a criteria type for job interception. |

# DISPLAY CM PROFILES - USAP Command



## Description

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

## 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
```

## 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.

## 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.<br><br>For the default criteria types provided by SAP, the values are:<br><br>• EVTHIS - identifies a criteria type for event history.<br>• EVHIRO - identifies a criteria type for the reorganization of raised events.<br>• INTERC - identifies a criteria type for job interception. |

# DISPLAY COMMANDS - USAP Command



## Description

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

## 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
```

## 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.

## 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. |

# DISPLAY EVENT HISTORY - USAP Command



## 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.

## 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
```

## 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.

## 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:<br>• **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.<br>• **C** - Return events which were marked by the external scheduler as CONFIRMED.<br>• **A** - Return events regardless of their status.<br>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:<br><br>• **C** - Sets the status of read events from NEW to CONFIRMED.<br>• **N** - Leaves the status of read events as NEW.<br><br>The default value is **N**. |

# DISPLAY INFOPACKAGE STATUS - USAP Command



## Description

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

## 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
```

## 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.

## 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. |

## Output

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

## Exit Codes

Use exit code mappings:

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

# DISPLAY INFOPACKAGES - USAP Command



## Description

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

## 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]
```

## 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.

## 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<br><br>Long Form | Description |
|---|---|---|
| JOB_STATUS | -jobstatus | Sm37-Batch-Status. |
| INFO_PACKAGE | -infopackage | Name of the mask InfoPackage to select. |
| 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. |

## Output

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

## Exit Codes

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

# DISPLAY INTERCEPT_TABLE - USAP Command



## Description

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

## Command Line Syntax

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

```
-display intercept_table
```

## 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.

# DISPLAY INTERCEPTED_JOBS - USAP Command



## Description

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

## 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
```

## 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.

## 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<br><br>Long Form | Description |
|---|---|---|
| DISPLAY_CLIENT | -dspclient | Specific SAP client whose intercepted jobs will be reported. |

# DISPLAY JOBDEF - USAP Command



## Description

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

## 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
```

## 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.

## 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. |
| JOB_NAME | -jobname | Name of an existing SAP job to use as a model for the new job definition. |

# DISPLAY JOBLOG - USAP Command



## Description

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

## Command Line Syntax

The following figure illustrates the command line syntax of the DISPLAY JOBLOG command, using the command line, long form of its configuration options.

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

## Command Argument

The DISPLAY JOBLOG command can be expressed as either:

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

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

## Configuration Options

The following table describes all DISPLAY JOBLOG configuration options and provides the command line, long form of each option illustrated in the DISPLAY JOBLOG 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. |
| MAX_JOB_LOG_SIZE | -max_log_size | Maximum size for job logs. |

# DISPLAY OUTPUT_DEVICES - USAP Command



## Description

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

## 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
```

## 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.

## 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. |

# DISPLAY PRINT_FORMATS - USAP Command



## Description

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

## 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
```

## 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.

## 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. |

# DISPLAY PROCESS CHAIN - USAP Command



## Description

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

## 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).

## 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.

## 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.<br>• If left blank, the scheduled version of the process chain is displayed.<br>• If specified, the instance data for the given process chain is displayed. |

## Output

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

## 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: pcactiveec.

# DISPLAY PROCESS CHAIN LOG - USAP Command



## Description

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

## 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]
```

## 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.

## 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. |

## Output

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

## Exit Codes

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

# DISPLAY PROCESS CHAIN START CONDITION - USAP Command



## Description

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

## 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
```

## 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.

## 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. |

## Output

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

## Exit Codes

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

# DISPLAY PROCESS CHAIN STATUS - USAP Command



## 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.

## 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]
```

## 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.

## 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. |

## Output

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

## Exit Codes

Use exit code mappings:

- 'R' - Red: pcredec.
- 'G' - Green: pcgreenec.

- 'X' - Aborted: pcabortedec.
- 'A' - Active: pcactiveec.

# DISPLAY PROCESS CHAINS - USAP Command



## Description

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

## 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]
```

## 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.

## 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<br><br>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. |

## Output

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

## Exit Codes

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

# DISPLAY QSTATE - USAP Command



## Description

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

## 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
```

## 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.

## 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. |

# DISPLAY REPORTS - USAP Command



## Description

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

## 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
```

## 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.

## 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<br><br>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. |

# DISPLAY SELECT - USAP Command



## Description

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

## 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]
```

## 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.

## 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<br><br>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. |
| 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. |

# DISPLAY SELECTION SCREEN - USAP Command



## Description

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

## 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
```

## 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.

## 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. |

# DISPLAY SPOOLLIST - USAP Command



## 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.

## 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 spoollist {-jobname jobname -jobid jobid -stepnum stepnumber | -spool_id id}
-max_spool_size size
[-spool_codepage codepage]
[-transtab translation_table]
```

## Command Argument

The DISPLAY SPOOLLIST command can be expressed as either:

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

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

## 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 |
|---|---|---|
| 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. |
| STEP_NUMBER | -stepnum | Step number of the SAP job step. |
| TRANSLATION_TABLE | -transtab | Spoollist translation table file to use for formatting returned spoollists. |

# DISPLAY STATUS - USAP Command



## 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.

## 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]
```

## 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.

## 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. |

## 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<br><br>(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<br><br>(see All Other Command Exit Codes) | > 200 |

# DISPLAY SYSLOG - USAP Command



## Description

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

## 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]
```

## 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.

## 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. |

# DISPLAY VARIANT - USAP Command



## 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.)

## 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
```

## 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.

## 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. |

# DISPLAY VARIANTS - USAP Command



## Description

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

## 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}
```

## 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.

## 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. |

# GENERATE JOB DEFINITION FILE - USAP Command



## 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.

## 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
```

## 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.

## 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. |

# GENERATE VARIANT DEFINITION FILE - USAP Command



## 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.)

## 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
```

## 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.

## 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. |

# INTERRUPT PROCESS CHAIN - USAP Command



## 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.

## 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
```

## 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 |
|---|---|---|
| CHAIN_ID | -chainid | ID of process chain that is to be interrupted. |

## Output

- stdout: nothing.
- stderr: UNV messages.

## Exit Codes

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

# MASS ACTIVITY WAIT - USAP Command



## 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.

## 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]
```

## 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. |
| 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. |

| | | |
|---|---|---|
| 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 | Spoollist translation table file to use for formatting returned spoollists. |
| 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. |

# MODIFY JOB - USAP Command



## 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.

## 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}]
        ]
    ]
```

## 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.

## 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. |
| 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 | -spoollist | Specification for whether or not the spoollists of all job steps are returned. |
| SPOOL_LIST_CHILD | -spoollistchild | Controls the printing of spoollists 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. |

# MODIFY VARIANT - USAP Command



## 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 for additional information on the variant definition file.

## 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
```

## 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 for additional information on the variant definition file.

# PURGE FS JOB NETWORK - USAP Command



## Description

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

## 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 -jnetprcid processid
```

## 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. |

# PURGE JOB - USAP Command



## Description

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

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

## 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
```

## 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. |
| JOB_NAME | -jobname | Name of an existing SAP job to use as a model for the new job definition. |

# PURGE VARIANT - USAP Command



## Description

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

## 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
```

## 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. |

# RAISE EVENT - USAP Command



## Description

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

## 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
```

## 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. |

# RESTART PROCESS CHAIN - USAP Command



## Description

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

## 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
```

## 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. |

## Output

- stdout: nothing.
- stderr: UNV messages.

## Exit Codes

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

# RUN FS JOB NETWORK - USAP Command



## 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.

## 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}
```

## 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 for additional information on the FS job network definition file.

## 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 | -jnetprcid | Process ID of an existing SAP FS job network process to start. |

# RUN INFOPACKAGE - USAP Command



## 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.

## 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
```

## 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. |

## Output

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

## Exit Codes

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

# RUN JOB - USAP Command



## 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 spoollists 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.

## 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]
    [-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]
    [-server_stop_conditions codes]
    [-spool_codepage codepage]
    [-bdcwait
         [-bdcjobnameptrn pattern]
         [-bdcjobidptrn pattern]
         [-bdcqidptrn pattern]
         [-qtobecreatedec exitcode]
         [-qunprocessedec exitcode]
         [-qinbackgroundec exitcode]
         [-qfinishedec exitcode]
         [-qerrorec exitcode]
    ]
```

## 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.

## 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_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). |
| 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. |
| QUEUE_ID_PATTERN | -bdcqidptrn | Locates the header record and determines the offset of the queue ID in the RSBDCSUB batch input processing report. |
| 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. |
| 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. |

# RUN PROCESS CHAIN - USAP Command



## 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.

## 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
```

## 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. |

## Output

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

## Exit Codes

Use exit code mappings:

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

# SET CM CRITERIA - USAP Command



## Description

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

## 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
```

## 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.

## 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<br><br>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.<br><br>For the default criteria types provided by SAP, the values are:<br><br>• EVTHIS - identifies a criteria type for event history.<br>• EVHIRO - identifies a criteria type for the reorganization of raised events.<br>• INTERC - identifies a criteria type for job interception. |

# START FS JOBNET - USAP Command



## Description

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

## 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]
        ]
```

## 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. |

# START INFOPACKAGE - USAP Command



## 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.

## 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
```

## 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. |

## Output

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

## Exit Codes

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

# START JOB - USAP Command



## Description

The START JOB command starts a currently defined SAP job.

## 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]
    [-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]
    ]
```

## 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). |
| 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. |
| RETURN_JOB_LOG | -joblog | Specification for whether or not the job's joblog is returned. |
| RETURN_SPOOL_LIST | -spoollist | Specification for whether or not the spoollists of all job steps are returned. |
| SPOOL_LIST_CHILD | -spoollistchild | Controls the printing of spoollists 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. |

# START PROCESS CHAIN - USAP Command



## Description

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

## 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}]
[-spoollist {yes|no}] [-rawspool {yes|no}]
```

## 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 | -spoollist | Specification for whether or not the spoollists of all job steps are returned. |

## Output

- stdout: nothing.
- stderr: UNV messages.

## Exit Codes

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

# SUBMIT FS JOBNET - USAP Command



## Description

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

## 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]
        ]
    ]
```

## 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 for additional information on the variant definition file.

## 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. |

# SUBMIT INTERCEPT CRITERIA TABLE - USAP Command



## Description

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

## Command Line Syntax

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

```
-sub filename/ddname
```

## 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 for additional information on the variant definition file.

# SUBMIT JOB - USAP Command



## Description

The SUBMIT JOB command defines a new SAP job.

## 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]
    [-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}]
        ]
    ]
```

## 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.

## 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. |
| 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_JOB_LOG | -joblog | Specification for whether or not the job's joblog is returned. |
| RETURN_SPOOL_LIST | -spoollist | Specification for whether or not the spoollists of all job steps are returned. |
| SPOOL_LIST_CHILD | -spoollistchild | Controls the printing of spoollists for child jobs. |
| 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. |

# SUBMIT VARIANT - USAP Command



## Description

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

## 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}
```

## 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 for additional information on the variant definition file.

## 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. |

# SYNTAX - USAP Command



## Description

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

## Command Line Syntax

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

```
-syntax filename/ddname
```

## 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 for additional information on the variant definition file.
- See FS Job Network Definition File for additional information on the FS Job Network definition file.

# WAIT for FS JOB NETWORK - USAP Command



## Description

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

## 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]
```

## 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. |
| 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. |

# WAIT for INFOPACKAGE - USAP Command



## Description

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

## 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
```

## 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. |
| REQUEST_ID | -requestid | Request ID for InfoPackage instance to wait for. |

## Output

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

## 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 |

# WAIT for JOB - USAP Command



## Description

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

## 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]
    [-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]
```

## 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. |
| 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 | -spoollist | Specification for whether or not the spoollists 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 | -spoollistchild | Controls the printing of spoollists for child jobs. |
| 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 | Spoollist translation table file to use for formatting returned spoollists. |
| 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. |

# WAIT for PROCESS CHAIN - USAP Command



## Description

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

## 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}] [
-spoollist {yes|no}] [-rawspool {yes|no}]
```

## 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. |
| LOG_ID | -logid | Chain ID of process chain to be monitored to completion. |
| 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 | -spoollist | Specification for whether or not the spoollists of all job steps are returned. |

## Output

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

## 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 | 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 |

# Universal Connector for SAP Exit Codes



## 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 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 Configuration Options).

## WAIT for JOB Exit Codes

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

The following table illustrates this mapping; USAP 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 |

## 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; USAP 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 |

## DISPLAY STATUS Exit Codes

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

The following table illustrates this mapping; USAP 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 |

## DISPLAY QSTATE Exit Codes

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

The following table illustrates this mapping; USAP 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 |

## All Other Command Exit Codes

If USAP 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 USAP 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 |

# Universal Connector for SAP Configuration Options for Program Execution

## Overview

Many configuration options of Universal Connector for SAP are associated with one or more specific Universal Connector 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; 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.

## Universal Connector 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. |
| 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. |

# HOST Options - Universal Connector



## Description

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

## 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}]
```

## 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. |
| 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. |

# USER Options - Universal Connector



## Description

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

## 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
```

## 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. |

# CFT (Client Fault Tolerant) Options - Universal Connector



## 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.

## 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}
```

## 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. |

# COMMAND FILE Options - Universal Connector



## 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.

## Plain Text File

### 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]
```

### 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, above.

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

## Encrypted File

### 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] ]
```

### 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, above.

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

# EVENT Options - Universal Connector



## 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.

## Configuration File Syntax

The following figure illustrates the configuration file syntax of the EVENT options.

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

## 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. |

# INFORMATIONAL Options - Universal Connector



## Description

The INFORMATIONAL options request information pertaining to the USAP program.

## Command Line Syntax

The following figure illustrates the command line syntax of the INFORMATIONAL options, using their command line, long form.

```
-help
-version
```

## 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. |

# INSTALLATION Options - Universal Connector



## 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.

## Configuration File Syntax

The following figure illustrates the configuration file syntax of the INSTALLATION options.

```
installation_directory directory
```

## 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. |

# LOCAL Options - Universal Connector



## Description

The LOCAL options are required for local broker registration.

## 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
```

## 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. |

# MESSAGE Options - Universal Connector



## Description

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

## 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
```

## 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. |

# RFC (Remote Function Call) Options - Universal Connector



## 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.

## Command Line Syntax

The following figure illustrates the command line syntax of the RFC options, using their command line, long form.

```
-rfc_logon_retry_interval interval
-rfc_logon_retry_count count
-rfc_listen_interval interval
-rfc_timeout interval
-rfc_retry_interval interval
-rfc_retry_count count
-rfc_trace_dir
```

## 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 |
|---|---|---|
| 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. |
| 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. |
| LISTEN_INTERVAL | -rfc_listen_interval | Number of seconds that will elapse between RFC listen calls. |
| TIMEOUT_INTERVAL | -rfc_timeout | Number of seconds that can elapse before USAP considers an RFC call to have timed out. |
| RETRY_CALL_INTERVAL | -rfc_retry_interval | Number of seconds that will elapse between a failed RFC call and the retry of that call. |
| 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. |
| TRACE_DIRECTORY | -rfc_trace_dir | Directory where RFC trace files will be written. |

# Universal Connector for SAP Configuration Options



## Overview

This page provides links to detailed information for all configuration options of Universal Connector for SAP.

The options are listed alphabetically, without regard to any specific operating system.

## Configuration Options Information

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

### Description

Describes the configuration option and how it is used.

### 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> | | | | | |

#### 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.

### 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**.

### (Operating System)

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

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

## Values

Identifies all possible values for the specified value type.

Defaults are identified in **bold type**.

## <Additional Information>

Identifies any additional information specific to the option.

## 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.

# 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. |
| 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. |
| 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. |
| DESTINATION | Name of a destination defined in the **saprfc.ini** file. |
| 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 BAPI_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_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. |
| 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. |
| 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. |
| 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. |
| 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. |
| MS_HOST | Host name of the message server for a Type B RFC connection |
| NO_START_DATE | Specification for whether or not to include jobs with no start date in selection criteria. |
| 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. |
| 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. |
| 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. |
| 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. |
| 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. |
| 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. |
| SPOOL_LIST_CHILD | Controls the printing of spoollists for child jobs. |
| 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. |
| TRANSLATION_TABLE | Spoollist translation table file to use for formatting returned spoollists. |
| 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. |
| 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. |
| XMI_AUDIT_LEVEL | Sets the XMI audit level to be used for the execution of the command. |

# ABAP_NAME - USAP configuration option

## 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.

## Usage

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

## 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.

## Command Usage

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

- DISPLAY REPORTS
- DISPLAY SELECTION SCREEN
- DISPLAY VARIANT
- DISPLAY VARIANTS
- GENERATE VARIANT DEFINITION FILE
- PURGE VARIANT
- SUBMIT VARIANT

# ACTIVITY_MONITORING - USAP configuration option

## Description

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

## 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 *option* | | | ✓ | ✓ | ✓ |

## 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.**

## 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.

# ALLOW_AUTO_RESTART - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -autorestartok *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPAUTORESTARTOK=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | auto_restart_ok *option* | | | ✓ | ✓ | ✓ |

## 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.**

## 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.

# AS_HOST - USAP configuration option

## 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.

## Usage

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

## Value

*hostname* is the host name of an SAP application server.

## 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 ashost value.

## 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.

# BATCH_MONITOR - USAP configuration option

## Description

The BATCH_MONITOR option causes Universal Connector 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 will wait for the job to complete.

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

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

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -bdcwait | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## Value

(There are no values used with this option.)

## Command Usage

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

- BDCWAIT
- START JOB

# BIF_DIRECTORY - USAP configuration option

## Description

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

## Usage

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

## Values

*directory* is the name of the BIF directory.

**Default = `/var/opt/universal`.**

## 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.

# CFT_ABAP_PROGRAM - USAP configuration option

## 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.

## Usage

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

## Value

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

**Default = BTCTEST.**

## 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.

# CFT_COMMAND_PREFIX - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -cft_cmd_prefix *prefix* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_CFT_CMD_PREFIX *host* | | | ✓ | ✓ | |
| Configuration File Keyword | cft_cmd_prefix *prefix* | | | ✓ | ✓ | ✓ |

## 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.**

## 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.

# CFT_TARGET_HOST - USAP configuration option

## 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).

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -cft_target_host *host* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_CFT_TARGET_HOST *host* | | | ✓ | ✓ | |
| Configuration File Keyword | cft_target_host *host* | | | ✓ | ✓ | ✓ |

## Value

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

## 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.

# CHAIN_DESCRIPTION - USAP configuration option

## Description

The CHAIN_DESCRIPTION option specifies the text description mask for process chains to be displayed.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -chaindesc *description* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPCHAINDESC=*description* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*description* is the text description mask for process chains to be displayed.

The ***** wildcard is accepted.

## Command Usage

The CHAIN_DESCRIPTION option is used in the following Universal Connector command:

- DISPLAY PROCESS CHAINS

# CHAIN_ID - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -chainid *chainid* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPCHAINID=*chainid* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*chainid* is the ID of a process chain.

For the DISPLAY PROCESS CHAINS command, this value can be a mask including the ***** wildcard.

## Command Usage

The CHAIN_ID option is used in the following Universal Connector commands:

- DISPLAY PROCESS CHAINS
- RUN PROCESS CHAIN

# CHAIN_LOG - USAP configuration option

## Description

The CHAIN_LOG option specifies whether or not the process chain log will be returned.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -chainlog *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPCHAINLOG=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | -print_chainlog *option* | | | ✓ | ✓ | ✓ |

## 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.**

## Command Usage

The CHAIN_LOG option is used in the following Universal Connector commands:

- START PROCESS CHAIN
- WAIT for PROCESS CHAIN

# CLIENT - USAP configuration option

## Description

The CLIENT option specifies the SAP client number for a Type A RFC connection.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -c *client* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -client *client* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPCLIENT=*client* | | | ✓ | ✓ | |
| Configuration File Keyword | client *client* | | | ✓ | ✓ | ✓ |

## Value

*client* is the SAP client number.

## 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.

# COMMAND_ID - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -cmdid *id* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPCMDID=*id* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## 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.

## 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.

# DATA_SOURCE - USAP configuration option

## Description

The DATA_SOURCE option specifies the Data Source mask for which the InfoPackages were created.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -datasource *mask* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_DATASOURCE=*mask* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*mask* is the Data Source mask for which the InfoPackages were created.

Wildcards are accepted.

## Command Usage

The DATA_SOURCE option is used in the following Universal Connector command:

- DISPLAY INFOPACKAGES

# DESTINATION - USAP configuration option

## 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 **RFC_INI**.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -e *destination* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -dest *destination* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPDEST=*destination* | | | ✓ | ✓ | |
| Configuration File Keyword | Destination *destination* | | | ✓ | ✓ | ✓ |

## Value

*destination* is the name of a destination defined in the **saprfc.ini** file.

## 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.

# DISPLAY_CLIENT - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -dspclient *client* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPDSPCLIENT *client* | | | ✓ | ✓ | |
| Configuration File Keyword | dspclient *client* | | | ✓ | ✓ | ✓ |

## Value

*client* is the specific SAP client whose intercepted jobs will be reported.

## Command Usage

The DISPLAY_CLIENT option is used in the following Universal Connector command:

- DISPLAY INTERCEPTED_JOBS

# ENABLE_JOB_STATUS_CHECK - USAP configuration option

## 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 - USAP configuration option configuration option, if there is no change in status.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -job_stat_check *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_JOB_STAT_CHECK=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | enable_job_stat_check *option* | | | ✓ | ✓ | ✓ |

## 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.**

## 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

# ENCRYPT_FILE - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -x *name* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -encryptedfile *name* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPENCRYPTEDFILE=*name* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*name* is the name (ddname for z/OS) of the encrypted text command file.

## 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.

# ENCRYPTION_KEY - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -K *key* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -key *key* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## Value

*key* is the name of the key used to encrypt the command file.

## 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.

# EVENT_ACTION - USAP configuration option

## Description

The EVENT_ACTION option specifies whether or not the status of returned events should be changed in the SAP system.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -event_action *action* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## 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.**

## Command Usage

The EVENT_ACTION option is used in the following Universal Connector command:

- DISPLAY EVENT HISTORY

# EVENT_GENERATION - USAP configuration option

## 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.

## 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* | | | ✓ | ✓ | ✓ |

## 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**.

## 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).**

## 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.

# EVENT_ID - USAP configuration option

## Description

The EVENT_ID option specifies the name of the event.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -event_id *id* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPREVENTID=*id* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*id* is the name of the event.

## Command Usage

The EVENT_ID option is used in the following Universal Connector commands:

- DISPLAY EVENT HISTORY
- RAISE EVENT

# EVENT_PARAMETER - USAP configuration option

## Description

The EVENT_PARAMETER option specifies the optional parameter value for the event.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -event_parm *parm* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPREVENTPARM=*parm* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*parm* is the optional parameter value for the event.

## Command Usage

The EVENT_PARAMETER option is used in the following Universal Connector commands:

- DISPLAY EVENT HISTORY
- RAISE EVENT

# EVENT_SELECT_STATE - USAP configuration option

## Description

The EVENT_SELECT_STATE option specifies the event status of the events which should be read.

## 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 | | | | | |

## 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.**

## Command Usage

The EVENT_SELECT_STATE option is used in the following Universal Connector command:

- DISPLAY EVENT HISTORY

# EXIT_JOB_ACTIVE - USAP configuration option

## Description

The EXIT_JOB_ACTIVE option specifies the USAP exit code for the SAP job **active** status.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -activeec *exitcode* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPACTIVEEXITCODE=*exitcode* | | | ✓ | ✓ | |
| Configuration File Keyword | active_exit_code *exitcode* | | | ✓ | ✓ | ✓ |

## Value

*exitcode* is the USAP exit code for the SAP job **active** status.

### Defaults

- Internal default = 10.
- Configuration default = 10.

## Command Usage

The EXIT_JOB_ACTIVE option is used in the following Universal Connector command:

- DISPLAY STATUS

# EXIT_JOB_FINISHED - USAP configuration option

## Description

The EXIT_JOB_FINISHED option specifies the USAP exit code for the SAP job **finished** status.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -finishedec *exitcode* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPFINISHEDEXITCODE=*exitcode* | | | ✓ | ✓ | |
| Configuration File Keyword | finished_exit_code *exitcode* | | | ✓ | ✓ | ✓ |

## Value

*exitcode* is the USAP exit code for the SAP job **finished** status.

### Defaults

- Internal default = 20.
- Configuration default = 0.

## 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

# EXIT_JOB_READY - USAP configuration option

## Description

The EXIT_JOB_READY option specifies the USAP exit code for the SAP job **ready** status.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -readyec *exitcode* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPREADYEXITCODE=*exitcode* | | | ✓ | ✓ | |
| Configuration File Keyword | ready_exit_code *exitcode* | | | ✓ | ✓ | ✓ |

## Value

*exitcode* is the USAP exit code for the SAP job **ready** status.

### Defaults

- Internal default = 12.
- Configuration default = 12.

## Command Usage

The EXIT_JOB_READY option is used in the following Universal Connector commands:

- DISPLAY STATUS
- RUN JOB

# EXIT_JOB_RELEASED - USAP configuration option

## Description

The EXIT_JOB_RELEASED option specifies the USAP exit code for the SAP job **released** status.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -releasedec *exitcode* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPRELEASEDEXITCODE=*exitcode* | | | ✓ | ✓ | |
| Configuration File Keyword | released_exit_code *exitcode* | | | ✓ | ✓ | ✓ |

## Value

*exitcode* is the USAP exit code for the SAP job **released** status.

### Defaults

- Internal default = 16.
- Configuration default = 16.

## Command Usage

The EXIT_JOB_RELEASED option is used in the following Universal Connector commands:

- DISPLAY STATUS
- RUN JOB

# EXIT_JOB_SCHEDULED - USAP configuration option

## Description

The EXIT_JOB_SCHEDULED option specifies the USAP exit code for the SAP job **scheduled** status.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -scheduledec *exitcode* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPSCHEDULEDEXITCODE=*exitcode* | | | ✓ | ✓ | |
| Configuration File Keyword | scheduled_exit_code *exitcode* | | | ✓ | ✓ | ✓ |

## Value

*exitcode* is the USAP exit code for the SAP job **scheduled** status.

### Defaults

- Internal default = 14.
- Configuration default = 14.

## Command Usage

The EXIT_JOB_SCHEDULED option is used in the following Universal Connector commands:

- DISPLAY STATUS
- RUN JOB

# EXIT_JOB_TERMINATED - USAP configuration option

## Description

The EXIT_JOB_TERMINATED option specifies the USAP exit code for the SAP job **terminated** status.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -terminatedec *exitcode* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPTERMINATEDEXITCODE=*exitcode* | | | ✓ | ✓ | |
| Configuration File Keyword | terminated_exit_code *exitcode* | | | ✓ | ✓ | ✓ |

## Value

*exitcode* is the USAP exit code for the SAP job **terminated** status.

### Defaults

- Internal default = 18.
- Configuration default = 8.

## 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

# EXIT_QUEUE_BACKGROUND - USAP configuration option

## Description

The EXIT_QUEUE_BACKGROUND option specifies the USAP exit code for the SAP queue state **S** (in background).

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -qinbackgroundec *exitcode* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPINBACKGROUNDEXITCODE= *exitcode* | | | ✓ | ✓ | |
| Configuration File Keyword | -qinbackground_exit_code *exitcode* | | | ✓ | ✓ | ✓ |

## Value

*exitcode* is the USAP exit code for the SAP queue state **S** (in background).

### Defaults

- Internal default = 14.
- Configuration default = 10.

## Command Usage

The EXIT_QUEUE_BACKGROUND option is used in the following Universal Connector commands:

- BDCWAIT
- RUN JOB
- START JOB

# EXIT_QUEUE_CREATED - USAP configuration option

## Description

The EXIT_QUEUE_CREATED option specifies the USAP exit code for the SAP queue state **C** (to be created).

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -qtobecreatedec *exitcode* | | |  |  |  |
| Environment Variable | USAPTOBECREATEDEXITCODE= *exitcode* | | |  |  | |
| Configuration File Keyword | -qtobecreated_exit_code *exitcode* | | |  |  |  |

## Value

*exitcode* is the USAP exit code for the SAP queue state **C** (created).

### Defaults

- Internal default = 10.
- Configuration default = 14.

## Command Usage

The EXIT_QUEUE_CREATED option is used in the following Universal Connector commands:

- BDCWAIT
- RUN JOB
- START JOB

# EXIT_QUEUE_ERROR - USAP configuration option

## Description

The EXIT_QUEUE_ERROR option specifies the USAP exit code for the SAP queue state **E** (error).

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -qerrorec *exitcode* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPERROREXITCODE=*exitcode* | | | ✓ | ✓ | |
| Configuration File Keyword | -qerror_exit_code *exitcode* | | | ✓ | ✓ | ✓ |

## Value

*exitcode* is the USAP exit code for the SAP queue state **E** (error).

### Defaults

- Internal default = 18.
- Configuration default = 8.

## Command Usage

The EXIT_QUEUE_ERROR option is used in the following Universal Connector commands:

- BDCWAIT
- RUN JOB
- START JOB

# EXIT_QUEUE_FINISHED - USAP configuration option

## Description

The EXIT_QUEUE_FINISHED option specifies the USAP exit code for the SAP queue state **F** (finished).

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -qfinishedec *exitcode* | | |  |  |  |
| Environment Variable | USAPFINISHEDEXITCODE=*exitcode* | | |  |  | |
| Configuration File Keyword | -qfinished_exit_code *exitcode* | | |  |  |  |

## Value

*exitcode* is the USAP exit code for the SAP queue state **F** (finished).

### Defaults

- Internal default = 16.
- Configuration default = 0.

## Command Usage

The EXIT_QUEUE_FINISHED option is used in the following Universal Connector commands:

- BDCWAIT
- RUN JOB
- START JOB

# EXIT_QUEUE_UNPROCESSED - USAP configuration option

## Description

The EXIT_QUEUE_UNPROCESSED option specifies the USAP exit code for the SAP queue state **[ ]** (unprocessed).

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -qunprocessedec *exitcode* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPUNPROCSSEDEXITCODE= *exitcode* | | | ✓ | ✓ | |
| Configuration File Keyword | -qunprocessed_exit_code *exitcode* | | | ✓ | ✓ | ✓ |

## Value

*exitcode* is the USAP exit code for the SAP queue state **[ ]** (unprocessed).

### Defaults

- Internal default = 12.
- Configuration default = 12.

## Command Usage

The EXIT_QUEUE_UNPROCESSED option is used in the following Universal Connector commands:

- BDCWAIT
- RUN JOB
- START JOB

# EXTERNAL_COMMAND - USAP configuration option

## Description

The EXTERNAL_COMMAND option specifies the name of a command or a mask used to select SAP external commands that match the mask.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -cmd *name* | | |  |  |  |
| Environment Variable | USAPCMD=*name* | | |  |  | |
| Configuration File Keyword | n/a | | | | | |

## 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.

## Command Usage

The EXTERNAL_COMMAND option is used in the following Universal Connector command:

- DISPLAY COMMANDS

# FILE_NAME - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -f *name* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -file *name* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPFILE=*name* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*name* is the name (ddname for z/OS) of the plain text command file.

## 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.

# FORCE - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Window | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -force *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_FORCE_RESTART=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | force_restart *option* | | | ✓ | ✓ | ✓ |

## 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.**

## 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.

# FROM_DATE - USAP configuration option

## Description

The FROM_DATE option specifies the earliest date to use for job selection or syslog request.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -fromdate *date* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPFROMDATE=*date* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*date* is the earliest date to use for job selection or syslog request.

The format of *date* is:

YYYY/MM/DD

## Command Usage

The FROM_DATE option is used in the following Universal Connector commands:

- DISPLAY SELECT
- DISPLAY SYSLOG

# FROM_TIME - USAP configuration option

## Description

The FROM_TIME option specifies the earliest time to use for job selection or syslog request.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -fromtime *time* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPFROMTIME=*time* | | | ✓ | ✓ | ✓ |
| Configuration File Keyword | n/a | | | | | |

## Value

*time* is the earliest time to use for job selection or syslog request.

The format of *time* is:

HH:MM:SS

## Command Usage

The FROM_TIME option is used in the following Universal Connector commands:

- DISPLAY SELECT
- DISPLAY SYSLOG

# GROUP - USAP configuration option

## Description

The GROUP option specifies the name of the group of application servers for a Type B RFC connection.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -group *groupname* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPGROUP *groupname* | | | ✓ | ✓ | |
| Configuration File Keyword | group *groupname* | | | ✓ | ✓ | ✓ |

## Value

*groupname* is the the name of the group of application servers.

## 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.

# GW_HOST - USAP configuration option

## Description

The GW_HOST option specifies the host name of the SAP gateway for a Type A RFC connection.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -gwhost *host* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPGWHOST *host* | | | ✓ | ✓ | |
| Configuration File Keyword | gwhost *host* | | | ✓ | ✓ | ✓ |

## Value

*host* is the host name of the SAP gateway.

## 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.

# GW_SERV - USAP configuration option

## Description

The GW_SERV option specifies the service name of the SAP gateway for a Type A RFC connection.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -gwserv *service* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPGWSERV *service* | | | ✓ | ✓ | |
| Configuration File Keyword | gwserv *service* | | | ✓ | ✓ | ✓ |

## Value

*service* is the service name of the SAP gateway.

## 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.

# HELP - USAP configuration option

## Description

The HELP option displays a description of the Universal Connector command line options and their format.

## 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 | | | | | |

## Value

(There are no values required for this option.)

## 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.

# IMMEDIATE_JOB - USAP configuration option

## 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.

## 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 | | | | | |

## Value

(There are no values used with this option.)

## Command Usage

The IMMEDIATE_JOB option is used in the following Universal Connector commands:

- MODIFY JOB
- RUN JOB
- START JOB
- SUBMIT JOB

# INFO_PACKAGE - USAP configuration option

## Description

The INFO_PACKAGE option specifies the name or mask of the InfoPackage to select.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -infopackage *mask* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_INFOPACKAGE=*mask* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*mask* is the name or mask of the InfoPackage.

Wildcards are accepted for the DISPLAY INFOPACKAGES command.

## Command Usage

The INFO_PACKAGE option is used in the following Universal Connector commands:

- DISPLAY INFOPACKAGES
- RUN INFOPACKAGE
- START INFOPACKAGE

# INFO_SOURCE - USAP configuration option

## Description

The INFO_SOURCE option specifies the InfoSource mask for which the InfoPackages were created.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -infosource *mask* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_INFOSOURCE=*mask* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*mask* is the InfoSource mask for which the InfoPackages were created.

Wildcards are accepted.

## Command Usage

The INFO_SOURCE option is used in the following Universal Connector command:

- DISPLAY INFOPACKAGES

# INSTALLATION_DIRECTORY - USAP configuration option

## Description

The INSTALLATION_DIRECTORY option specifies the location in which Universal Connector is installed.

## 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 | installation_directory *directory* | | | ✔ | ✔ | |

## Values

*directory* is the path name for the Universal Connector installation file.

### Defaults

| | |
|---|---|
| **UNIX** | `/opt/universal/usap` |
| **Windows 32-bit install on 32-bit systems** | `C:\Program Files\Universal\UagSrv` |
| **Windows 32-bit install on 64-bit systems** | `C:\Program Files (x86)\Universal\UagSrv` |
| **Windows 64-bit install** | `C:\Program Files\Universal\UagSrv` |

## 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.

# JOB_ID - USAP configuration option

## 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<br>SUBMIT JOB<br>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.<br><br>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 JOBLOG<br>DISPLAY SPOOLLIST<br>DISPLAY STATUS<br>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. |

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -b *jobid* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -jobid *jobid* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPJOBID=*jobid* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*jobid* is the ID of the SAP job.

## Command Usage

The JOB_ID option is used in the Universal Connector commands listed under Description, above.

# JOB_ID_PATTERN - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -bdcjobidptrn *pattern* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPBDCJOBIDPTRN=*pattern* | | | ✓ | ✓ | |
| Configuration File Keyword | bdc_jobid_ptrn *pattern* | | | ✓ | ✓ | ✓ |

## 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.**

## Command Usage

The JOB_ID_PATTERN option is used in the following Universal Connector commands:

- BDCWAIT
- RUN JOB
- START JOB

# JOB_LOG_CHILD - USAP configuration option

## 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**.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -joblogchild *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPJOBLOGCHILD=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | print_joblog_for_child_jobs *option* | | | ✓ | ✓ | ✓ |

## 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.**

## Command Usage

The JOB_LOG_CHILD option is used in the following Universal Connector commands:

- MODIFY JOB
- START JOB
- SUBMIT JOB
- WAIT for JOB

# JOB_NAME - USAP configuration option

## 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<br>SUBMIT JOB<br>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<br>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 JOBLOG<br>DISPLAY SPOOLLIST<br>DISPLAY STATUS<br>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. |

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -j *jobname* | | | ✓ | | ✓ |
| Command Line, Long Form | -jobname *jobname* | | | ✓ | | ✓ |
| Environment Variable | USAPJOBNAME=*jobname* | | | ✓ | | |
| Configuration File Keyword | n/a | | | | | |

## Value

*jobname* is the name of the SAP job.

## Command Usage

The JOB_NAME option is used in the Universal Connector commands listed under Description, above.

# JOB_NAME_PATTERN - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -bdcjobnameptrn *pattern* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPBDCJOBNAMEPTRN=*pattern* | | | ✓ | ✓ | |
| Configuration File Keyword | bdc_jobname_ptrn *pattern* | | | ✓ | ✓ | ✓ |

## 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".**

## Command Usage

The JOB_NAME_PATTERN option is used in the following Universal Connector commands:

- BDCWAIT
- RUN JOB
- START JOB

# JOB_NETWORK_ID - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -jnetid *jobnetid* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## Value

*jobnetid* is the network identifier for the pre-existing SAP job network.

## 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

# JOB_PROCESS_ID - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -jnetprcid *processid* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## Value

*processid* is the process ID of an existing SAP FS job network process.

## 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

# JOB_STATUS - USAP configuration option

## Description

The JOB_STATUS option specifies the SM37-batch-status.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -jobstatus *status* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_JOBSTATUS=*status* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## 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.

## Command Usage

The JOB_STATUS option is used in the following Universal Connector command:

- DISPLAY INFOPACKAGES

# LAYOUT_NAME - USAP configuration option

## Description

The LAYOUT_NAME option specifies either a complete layout name or a mask used to select printer layouts that match the mask.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -layout *name* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPLAYOUT=*name* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## 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.

## Command Usage

The LAYOUT_NAME option is used in the following Universal Connector command:

- DISPLAY PRINT_FORMATS

# LISTEN_INTERVAL - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -rfc_listen_interval *interval* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_RFC_LISTEN_INTERVAL=*interval* | | | ✓ | ✓ | |
| Configuration File Keyword | rfc_listen_interval *interval* | | | ✓ | ✓ | ✓ |

## Value

*interval* is the number of seconds that will elapse between RFC listen calls.

**Default value is 1.**

## 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.

# LOG_ID - USAP configuration option

## Description

The LOG_ID option specifies the log ID for process instance data.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -logid *logid* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPLOGID=*logid* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*logid* is the log ID for process instance data.

## 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

# LOGON_LANGUAGE - USAP configuration option

## Description

The LOGON_LANGUAGE option specifies the SAP logon language used for the USAP session.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -saplang *language* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPLANG=*language* | | | ✓ | ✓ | |
| Configuration File Keyword | sap_language *language* | | | ✓ | ✓ | ✓ |

## 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).**

## 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.

# LOGON_RETRY_COUNT - USAP configuration option

## 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.

## 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 *count* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_RFC_LOGON_RETRY_COUNT= *count* | | | ✓ | ✓ | |
| Configuration File Keyword | rfc_logon_retry_count *count* | | | ✓ | ✓ | ✓ |

## 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.**

## 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.

# LOGON_RETRY_INTERVAL - USAP configuration option

## 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.

## 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 *interval* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_RFC_LOGON_RETRY_INTERVAL= *interval* | | | ✓ | ✓ | |
| Configuration File Keyword | rfc_logon_retry_interval *interval* | | | ✓ | ✓ | ✓ |

## 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.**

## 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.

# LONG_DEVICE_NAME - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -long_name *name* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPLONGNAME=*name* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## 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.

## Command Usage

The LONG_DEVICE_NAME option is used in the following Universal Connector command:

- DISPLAY OUTPUT_DEVICES

# MASS_ACTIVITY_WAIT - USAP configuration option

## 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.

## 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 | | | | | |
| Configuration File Keyword | n/a | | | | | |

## Value

(There are no values used with this option.)

## Command Usage

The MASS_ACTIVITY_WAIT option is used in the following Universal Connector command:

- MASS ACTIVITY WAIT

# MAX_CHILD_DEPTH - USAP configuration option

## Description

The MAX_CHILD_DEPTH option specifies the maximum relationship depth that will be monitored by Universal Connector.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -max_child_depth *depth* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | max_child_depth *depth* | | | ✓ | ✓ | ✓ |

## 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.**

## Command Usage

The MAX_CHILD_DEPTH option is used in the following Universal Connector commands:

- SUBMIT JOB
- WAIT for JOB

# MAX_HIT_COUNT - USAP configuration option

## Description

The MAX_HIT_COUNT option specifies the maximum number of ABAP reports to be returned.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -count *number* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPCOUNT=*number* | | | ✓ | ✓ | |
| Configuration File Keyword | count *number* | | | ✓ | ✓ | ✓ |

## Value

*number* is the maximum number of ABAP reports to be returned.

**Default is 999.**

## Command Usage

The MAX_HIT_COUNT option is used in the following Universal Connector command:

- DISPLAY REPORTS

# MAX_JOB_LOG_SIZE - USAP configuration option

## Description

The MAX_JOB_LOG_SIZE option specifies the maximum size for job logs.

Job logs exceeding the maximum size will not be transferred.

## 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* | | | ✓ | ✓ | ✓ |

## Value

*size* is the maximum size for job logs.

*size* can be suffixed with either:

- **M** (for megabytes)
- **K** (for kilobytes)

**Default is 1536M.**

## 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

# MAX_SPOOL_LIST_SIZE - USAP configuration option

## Description

The MAX_SPOOL_LIST_SIZE option specifies the maximum size for job logs.

Spool lists exceeding the maximum size will not be transferred.

## 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* | | | ✓ | ✓ | ✓ |

## Value

*size* is the maximum size for spool lists.

*size* can be suffixed with either:

- **M** (for megabytes)
- **K** (for kilobytes)

**Default is 1536M.**

## 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

# MAX_XBP - USAP configuration option

## Description

The MAX_XBP option specifies the maximum version of the SAP XBP interface that will be used during Universal Connector execution.

If a version is not specified with this option, Universal Connector will use the highest level supported by both Universal Connector and the SAP system.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -maxxbp *version* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPMAXXBP *version* | | | ✓ | ✓ | |
| Configuration File Keyword | max_xbp *version* | | | ✓ | ✓ | ✓ |

## 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

## 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.

# MESSAGE_LANGUAGE - USAP configuration option

## Description

The MESSAGE_LANGUAGE option specifies the language in which messages are written.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -L *language* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -lang *language* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPLANG=*language* | | | ✓ | ✓ | |
| Configuration File Keyword | language *language* | | | ✓ | ✓ | ✓ |

## 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.**

## 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.

# MESSAGE_LEVEL - USAP configuration option

## Description

The MESSAGE_LEVEL option specifies level of messages to write.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -l *level* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -level *level* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPLEVEL=*level* | | | ✓ | ✓ | |
| Configuration File Keyword | message_level *level* | | | ✓ | ✓ | ✓ |

## 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.

### Default

| | |
|---|---|
| **UNIX** | Default is **warn**. |
| **Windows** | Default is **warn**. |
| **z/OS** | Default is **info**. |

## 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.

# MS_HOST - USAP configuration option

## Description

The MS_HOST option specifies the host name of the message server for a Type B RFC connection.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -mshost *host* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPMSHOST *host* | | | ✓ | ✓ | |
| Configuration File Keyword | mshost *host* | | | ✓ | ✓ | ✓ |

## Value

*host* is the the host name of the message server.

## 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.

# NO_START_DATE - USAP configuration option

## Description

The NO_START_DATE option specifies whether or not to include jobs with no start date in selection criteria.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -nodate *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## 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.**

## Command Usage

The NO_START_DATE option is used in the following Universal Connector command:

- DISPLAY SELECT

# OPERATING_SYSTEM - USAP configuration option

## Description

The OPERATING_SYSTEM option specifies the name of the operating system for which external commands are searched.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -opsys *name* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPOPSYS=*name* | | | ✓ | ✓ | |
| Configuration File Keyword | opsys | | | ✓ | ✓ | ✓ |

## Value

*name* is the name of the operating system for which external commands are searched.

**Default is *.**

## Command Usage

The OPERATING_SYSTEM option is used in the following Universal Connector command:

- DISPLAY COMMANDS

# OUTPUT_FIELD_LIST - USAP configuration option

## Description

The OUTPUT_FIELD_LIST option specifies additional fields to display for the **select** command.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -output *list* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPOUTPUT=*list* | | | ✓ | ✓ | |
| Configuration File Keyword | output | | | ✓ | ✓ | ✓ |

## 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 |
| STEPCOUNT | Job step ID number |
| SDLSTRTDT | 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 |

| | |
|---|---|
| STRTDATE | Job start date |
| STRTTIME | 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 |
| LASTSTRTDT | Latest run date for batch job |
| LASTSTRTTM | Latest run time for batch job |
| WPNUMBER | Work process number |
| WPPROCID | Work process ID |
| 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 |

## Command Usage

The OUTPUT_FILED_LIST option is used in the following Universal Connector command:

- DISPLAY SELECT

# PAGE_LIMIT - USAP configuration option

## Description

The PAGE_LIMIT option specifies the maximum number of pages that can be returned in the syslog report.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -pagelimit *limit* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPPAGELIMIT=*limit* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## 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.**

## Command Usage

The PAGE_LIMIT option is used in the following Universal Connector command:

- DISPLAY SYSLOG

# PASSWORD - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -w *password* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -pwd *password* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPPWD=*password* | | | ✓ | ✓ | |
| Configuration File Keyword | password *password* | | | ✓ | ✓ | ✓ |

## Value

*password* is the password for the SAP user ID.

## 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.

# PLF_DIRECTORY - USAP configuration option

## 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.

## 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 | | | | | |

## Values

*directory* is the name of the PLF directory.

**Default is= `/var/opt/universal/tmp`.**

## 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.

# PRINTER_NAME - USAP configuration option

## Description

The PRINTER_NAME option specifies the name of a printer for which the print formats will be retrieved.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -printer *name* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPPRINTER=*name* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*name* is name of a printer for which the print formats will be retrieved.

## Command Usage

The PRINTER_NAME option is used in the following Universal Connector command:

- DISPLAY PRINT_FORMATS

# PROCESS_LOGS - USAP configuration option

## Description

The PROCESS_LOGS option specifies whether or not the process logs will be returned.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -processlogs *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPPROCESSLOGS=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | -print_processlogs *option* | | | ✓ | ✓ | ✓ |

## 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.**

## Command Usage

The PROCESS_LOGS option is used in the following Universal Connector commands:

- START PROCESS CHAIN
- WAIT for PROCESS CHAIN

# PROFILE_ID - USAP configuration option

## Description

The PROFILE_ID option specifies the ID of the SAP Criteria Manager profile that will be the be the target of the command.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -profile_id *profile* | | |  |  |  |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## Value

*id* is the ID of an SAP Criteria Manager profile that will be the be the target of the command..

## 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

# PROFILE_TYPE - USAP configuration option

## Description

The PROFILE_TYPE option specifies the type of a Criteria Manager profile that will be the target of the command.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -profile_type *type* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## 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.

## 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

# PURGE_BDC_MAP - USAP configuration option

## Description

The PURGE_BDC_MAP option specifies whether or not Universal Connector will delete the batch input session queues that have been processed successfully.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -purge_bdc_map *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_PURGE_BDC_MAP=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | purge_bdc_map *option* | | | ✓ | ✓ | ✓ |

## 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

## Command Usage

The PURGE_BDC_MAP option is used in the following Universal Connector command:

- BDCWAIT

# PURGE_CHILD_JOBS - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -purgechild *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPPURGECHILD=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | purge_child_jobs *option* | | | ✓ | ✓ | ✓ |

## 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.**

## Command Usage

The PURGE_CHILD_JOBS option is used in the following Universal Connector commands:

- MODIFY JOB
- START JOB
- SUBMIT JOB
- WAIT for JOB

# PURGE_JOB - USAP configuration option

## 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.)

## 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 | | | | | |

## Value

(There are no values used with this option.)

## 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

# QUEUE_ID - USAP configuration option

## Description

The QUEUE_ID option specifies the queue identifier associated with the batch input session.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -q *queueid* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -qid *queueid* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPQID=*queueid* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*queueid* is the queue identifier associated with the batch input session.

## Command Usage

The QUEUE_ID option is used in the following Universal Connector command:

- DISPLAY QSTATE

# QUEUE_ID_PATTERN - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -bdcqidptrn *pattern* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPBDCQIDPTRN=*pattern* | | | ✓ | ✓ | |
| Configuration File Keyword | bdc_qid_ptrn *pattern* | | | ✓ | ✓ | ✓ |

## 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".**

## Command Usage

The QUEUE_ID_PATTERN option is used in the following Universal Connector commands:

- BDCWAIT
- RUN JOB
- START JOB

# R3_NAME - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -r3name *name* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPR3NAME *name* | | | ✓ | ✓ | |
| Configuration File Keyword | r3name *name* | | | ✓ | ✓ | ✓ |

## Value

_name _ is the system ID of the SAP system to which you want to connect.

## 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.

# RAW_SPOOL - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -rawspool *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | rawspool *option* | | | ✓ | ✓ | ✓ |

## 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.**

## 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

# REQUEST_ID - USAP configuration option

## Description

The REQUEST_ID option specifies the Request ID for an InfoPackage instance.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -requestid *ID* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_REQUEST=*ID* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*ID* is the the Request ID for an InfoPackage instance.

## Command Usage

The REQUEST_ID option is used in the following Universal Connector commands:

- DISPLAY INFOPACKAGE STATUS
- WAIT for INFOPACKAGE

# RESTART - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -restart *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPRESTART=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | restart *option* | | | ✓ | ✓ | ✓ |

## 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**.

## 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.

# RETRY_CALL_COUNT - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -rfc_retry_count *interval* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_RFC_RETRY_COUNT=*interval* | | | ✓ | ✓ | |
| Configuration File Keyword | rfc_retry_count *interval* | | | ✓ | ✓ | ✓ |

## 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.**

## 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.

# RETRY_CALL_INTERVAL - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -rfc_retry_interval *interval* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_RFC_RETRY_INTERVAL=*interval* | | | ✓ | ✓ | |
| Configuration File Keyword | rfc_retry_interval *interval* | | | ✓ | ✓ | ✓ |

## Value

*interval* is the number of seconds that will elapse between a failed RFC call and the retry of that call.

**Default is 10.**

## 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.

# RETURN_APPLICATION_LOG - USAP configuration option

## 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).

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -applog *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPAPPLOG=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | print_applog *option* | | | ✓ | ✓ | ✓ |

## 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.**

## Command Usage

The RETURN_APPLICATION_LOG option is used in the following Universal Connector commands:

- BDCWAIT
- MASS ACTIVITY WAIT
- WAIT for JOB

# RETURN_APPLICATION_RC - USAP configuration option

## 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).

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -printapprc *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPPRINTAPPRC=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | print_app_rc *option* | | | ✓ | ✓ | ✓ |

## 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.**

## Command Usage

The RETURN_APPLICATION_RC option is used in the following Universal Connector commands:

- BDCWAIT
- MASS ACTIVITY WAIT
- WAIT for JOB

# RETURN_JOB_LOG - USAP configuration option

## Description

The RETURN_JOB_LOG option specifies whether or not the job's job log is returned.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -g *option* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -joblog *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPJOBLOG=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | print_joblog *option* | | | ✓ | ✓ | ✓ |

## 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.**

## 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

# RETURN_SPOOL_LIST - USAP configuration option

## Description

The RETURN_SPOOL_LIST option specifies whether or not the spool lists of all job steps are returned.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -s *option* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -spoollist *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPSPOOLLIST=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | print_spoollist *option* | | | ✓ | ✓ | ✓ |

## 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.**

## 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

# SECURE_CFT - USAP configuration option

## Description

The SECURE_CFT option specifies the mode of client fault tolerance that will be used for the command invocation.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -cft_secure_cft *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_CFT_SECURE_CFT=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | cft_secure_cft *option* | | | ✓ | ✓ | ✓ |

## 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.**

## 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.

# SERVER_STOP_CONDITIONS - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -server_stop_conditions *codes* | | | | |  |
| Environment Variable | USAPSERVERSTOPCONDITIONS= *codes* | | | | |  |
| Configuration File Keyword | server_stop_conditions *codes* | | | | |  |

## 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.**

## Command Usage

The SERVER_STOP_CONDITIONS option is used in the following Universal Connector commands:

- RUN JOB
- WAIT for JOB

# SOURCE_SYSTEM - USAP configuration option

## Description

The SOURCE_SYSTEM option specifies the source system mask for which the InfoPackages were created.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -source_system *mask* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_SOURCE_SYSTEM=*mask* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*mask* is the source system mask for which the InfoPackages were created.

Wildcards are accepted.

## Command Usage

The SOURCE_SYSTEM option is used in the following Universal Connector command:

- DISPLAY INFOPACKAGES

# SPOOL_CODEPAGE - USAP configuration option

## Description

The SPOOL_CODEPAGE option specifies the codepage that will be used for transferring spool lists from the SAP system.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -spool_codepage *codepage* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPSPOOLCODEPAGE=*codepage* | | | ✓ | ✓ | |
| Configuration File Keyword | spool_codepage *codepage* | | | ✓ | ✓ | ✓ |

## 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).

## Command Usage

The SPOOL_CODEPAGE option is used in the following Universal Connector commands:

- DISPLAY SPOOLLIST
- RUN JOB
- WAIT for JOB

# SPOOL_ID - USAP configuration option

## Description

The SPOOL_ID option specifies the spool list request number in an SAP system.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -spool_id *id* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## Value

*id* is the ID of a spool list in an SAP system.

## Command Usage

The SPOOL_ID option is used in the following Universal Connector command:

- DISPLAY SPOOLLIST

# SPOOL_LIST_CHILD - USAP configuration option

## 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**.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -spoollistchild *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPSPOOLLISTCHILD=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | print_spoollist_for_child_jobs *option* | | | ✓ | ✓ | ✓ |

## 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.**

## Command Usage

The SPOOL_LIST_CHILD option is used in the following Universal Connector commands:

- MODIFY JOB
- START JOB
- SUBMIT JOB
- WAIT for JOB

# START - USAP configuration option

## Description

The START option starts the newly defined job.

(For the MODIFY JOB command, START starts the modified job.)

## 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 | | | | | |

## Value

(There are no values used with this option.)

## Command Usage

The START option is used in the following Universal Connector commands:

- MODIFY JOB
- SUBMIT JOB
- SUBMIT FS JOBNET

# STATUS_ABORTED - USAP configuration option

## Description

The STATUS_ABORTED option specifies whether or not to include jobs with status **aborted** in selection criteria.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -aborted *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## 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.**

## Command Usage

The STATUS_ABORTED option is used in the following Universal Connector command:

- DISPLAY SELECT

# STATUS_CHECK_INTERVAL - USAP configuration option

## 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.

## 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 *seconds* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPJOBSTATCHECKINTERVAL= *seconds* | | | ✓ | ✓ | |
| Configuration File Keyword | job_stat_check_interval *seconds* | | | ✓ | ✓ | ✓ |

## 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.**

## Command Usage

The STATUS_CHECK_INTERVAL option is used in the following Universal Connector commands:

- BDCWAIT
- MASS ACTIVITY WAIT
- RUN JOB
- WAIT for JOB

# STATUS_FINISHED - USAP configuration option

## Description

The STATUS_FINISHED option specifies whether or not to include jobs with status **finished** in selection criteria.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -finished *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## 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.**

## Command Usage

The STATUS_FINISHED option is used in the following Universal Connector command:

- DISPLAY SELECT

# STATUS_READY - USAP configuration option

## Description

The STATUS_READY option specifies whether or not to include jobs with status **ready** in selection criteria.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -ready *option* | | |  |  |  |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## 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.**

## Command Usage

The STATUS_READY option is used in the following Universal Connector command:

- DISPLAY SELECT

# STATUS_RELEASED - USAP configuration option

## Description

The STATUS_RELEASED option specifies whether or not to include jobs with status **released** in selection criteria.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -released *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## 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.**

## Command Usage

The STATUS_RELEASED option is used in the following Universal Connector command:

- DISPLAY SELECT

# STATUS_RUNNING - USAP configuration option

## Description

The STATUS_RUNNING option specifies whether or not to include jobs with status **running** in selection criteria.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -running *option* | | |  |  |  |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## 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.**

## Command Usage

The STATUS_RUNNING option is used in the following Universal Connector command:

- DISPLAY SELECT

# STATUS_SCHEDULED - USAP configuration option

## Description

The STATUS_SCHEDULED option specifies whether or not to include jobs with status **scheduled** in selection criteria.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -scheduled *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## 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.**

## Command Usage

The STATUS_SCHEDULED option is used in the following Universal Connector command:

- DISPLAY SELECT

# STEP_NUMBER - USAP configuration option

## Description

The STEP_NUMBER option specifies the step number of the SAP job step.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -n *stepnumber* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -stepnum *stepnumber* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPSTEPNUM=*stepnum* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*stepnum* is the step number of the SAP job step.

## Command Usage

The STEP_NUMBER option is used in the following Universal Connector command:

- DISPLAY SPOOLLIST

# SUBMIT - USAP configuration option

## Description

The SUBMIT option defines a job to the SAP system.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -U *ddname* / *filename* | | | ✅ | ✅ | ✅ |
| Command Line, Long Form | -sub *ddname* / *filename* | | | ✅ | ✅ | ✅ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## Value

*ddname* / *filename* is the name of the file containing the job definition.

## Command Usage

The SUBMIT option is used in the following Universal Connector commands:

- SUBMIT INTERCEPT CRITERIA TABLE
- SUBMIT JOB
- SUBMIT VARIANT
- SUBMIT FS JOBNET

# SYSLOG - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -y *option* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -syslog *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPSYSLOG=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | print_syslog *option* | | | ✓ | ✓ | ✓ |

## 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.**

## 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

# SYSLOG_POST_TIME - USAP configuration option

## 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**.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -syslogpost *seconds* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPSYSLOGPOST *seconds* | | | ✓ | ✓ | |
| Configuration File Keyword | syslog_post_time *seconds* | | | ✓ | ✓ | ✓ |

## Value

*seconds* is the number of seconds to add to the job end time.

**Default is 15.**

## 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

# SYSLOG_PRE_TIME - USAP configuration option

## 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**.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -syslogpre *seconds* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPSYSLOGPRE *seconds* | | | ✓ | ✓ | |
| Configuration File Keyword | syslog_pre_time *seconds* | | | ✓ | ✓ | ✓ |

## Value

*seconds* is the number of seconds to subtract from the job release time.

**Default is 0.**

## 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

# SYSTEM_ID - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -system_id *ID* | | | | |  |
| Environment Variable | USAPSYSTEMID=*ID* | | | | |  |
| Configuration File Keyword | n/a | | | | | |

## 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.)

## 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.

# SYSTEM_NUMBER - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -sysnr *number* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPSYSNR *number* | | | ✓ | ✓ | |
| Configuration File Keyword | sysnr *number* | | | ✓ | ✓ | ✓ |

## Value

*number* is the SAP system number of an SAP application server.

## 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.

# TARGET_JOB_NAME - USAP configuration option

## Description

The TARGET_JOB_NAME option specifies the name to give the newly created job.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -target_jobname *jobname* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPTARGETJOBNAME=*jobname* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*jobname* is the name for the newly created job.

**Default is original jobname.**

## Command Usage

The TARGET_JOB_NAME option is used in the following Universal Connector commands:

- RUN JOB
- SUBMIT JOB

# TARGET_SERVER - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -r *server* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -targetserver *server* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPTARGETSRV=*server* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*server* is the server on which the job will run.

**Default is the current server when used with the DISPLAY SYSLOG command.**

## Command Usage

The TARGET_SERVER option is used in the following Universal Connector commands:

- DISPLAY SYSLOG
- MODIFY JOB
- RUN JOB
- START JOB

# TARGET_VARIANT - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | ✓ |
| Command Line, Long Form | -target_variant *job step*, *variant name; [USAP:job step, variant name]...* | | | ✓ | ✓ | ✓ |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## 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`

## Command Usage

The TARGET_VARIANT option is used in the following Universal Connector commands:

- RUN JOB
- SUBMIT JOB

# TARGET_VARIANTNAME - USAP configuration option

## Description

The TARGET_VARIANTNAME option specifies the name given to a copied VARIANT on an SAP system.

## 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 | | | | | |

## Value

*variantname* is the name given to the copied VARIANT.

## Command Usage

The TARGET_VARIANTNAME option is used in the following Universal Connector command:

- SUBMIT VARIANT

# TECHNICAL_DEVICE_NAME - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -short_name *name* | | |  |  |  |
| Environment Variable | USAPSHORTNAME=*name* | | |  |  | |
| Configuration File Keyword | n/a | | | | | |

## 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.

## Command Usage

The TECHNICAL_DEVICE_NAME option is used in the following Universal Connector command:

- DISPLAY OUTPUT_DEVICES

# TIMEOUT_INTERVAL - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -rfc_timeout *interval* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAP_RFC_TIMEOUT=*interval* | | | ✓ | ✓ | |
| Configuration File Keyword | rfc_timeout *interval* | | | ✓ | ✓ | ✓ |

## Value

*interval* is the number of seconds that can elapse before Universal Connector considers an RFC call to have timed out.

**Default is 120.**

## 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.

# TO_DATE - USAP configuration option

## Description

The TO_DATE option specifies the latest date to use for job selection or syslog request.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -todate *date* | | |  |  |  |
| Environment Variable | USAPTODATE=*date* | | |  |  | |
| Configuration File Keyword | n/a | | | | | |

## Value

*date* is the latest date to use for job selection or syslog request.

The format of *date* is:

YYYY/MM/DD

## Command Usage

The TO_DATE option is used in the following Universal Connector commands:

- DISPLAY SELECT
- DISPLAY SYSLOG

# TO_TIME - USAP configuration option

## Description

The TO_TIME option specifies the latest time to use for job selection or syslog request.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -totime *time* | | |  |  |  |
| Environment Variable | USAPTOTIME=*time* | | |  |  |  |
| Configuration File Keyword | n/a | | | | | |

## Value

*time* is the latest time to use for job selection or syslog request.

The format of *time* is:

HH:MM:SS

## Command Usage

The TO_TIME option is used in the following Universal Connector commands:

- DISPLAY SELECT
- DISPLAY SYSLOG

# TRACE_DIRECTORY - USAP configuration option

## Description

The TRACE_DIRECTORY option specifies the directory where RFC trace files will be written.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -rfc_trace_dir *path* | | | | |  |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | rfc_trace_dir *path* | | | | |  |

## 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.**

## 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.

# TRACE_FILE_LINES - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -tracefilelines *lines* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPTRACEFILELINES *lines* | | | ✓ | ✓ | |
| Configuration File Keyword | trace_file_lines *lines* | | | ✓ | ✓ | ✓ |

## Value

*lines* is the maximum number of lines to write to the trace file.

**Default is 500,000,000.**

## 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.

# TRACE_TABLE - USAP configuration option

## 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**.

## 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* | | | ✔ | ✔ | ✔ |

## 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.**

## 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.

# TRANSLATION_TABLE - USAP configuration option

## Description

The TRANSLATION_TABLE option specifies the spool list translation table file to use for formatting returned spool lists.

The Spoollist Translate Table (STT) files are used to format raw (SAP internal format) spoollists. The STT files are located in the NLS subdirectory of the installation directory.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -t *translation_table* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -transtab *translation_table* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPTRANSTAB=*translation_table* | | | ✓ | ✓ | |
| Configuration File Keyword | translation_table *translation_table* | | | ✓ | ✓ | ✓ |

## 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.)

## Command Usage

The TRANSLATION_TABLE option is used in the following Universal Connector commands:

- BDCWAIT
- DISPLAY SPOOLLIST
- MASS ACTIVITY WAIT
- WAIT for JOB

# USAP_POLL - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -p *seconds* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -poll *seconds* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPPOLL=*seconds* | | | ✓ | ✓ | |
| Configuration File Keyword | poll_time *seconds* | | | ✓ | ✓ | ✓ |

## Value

*seconds* is the number of seconds to wait between job status calls.

**Default is 10.**

## 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

# USE_APPLICATION_RC - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -useapprc *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPUSEAPPRC=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | use_app_rc *option* | | | ✓ | ✓ | ✓ |

## 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.**

## Command Usage

The USE_APPLICATION_RC option is used in the following Universal Connector commands:

- BDCWAIT
- MASS ACTIVITY WAIT
- WAIT for JOB

# USER_ID - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -u *userid* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -userid *userid* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPUSERID=*userid* | | | ✓ | ✓ | |
| Configuration File Keyword | userid *userid* | | | ✓ | ✓ | ✓ |

## Value

*userid* is the SAP user ID with which to logon to the SAP system.

## 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.

# USER_NAME - USAP configuration option

## Description

The USER_NAME option specifies the user ID associated with a job.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -selusername *userid* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPSELUSERNAME=*userid* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## 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.

### Default

User ID with which Universal Connector currently is running.

## Command Usage

The USER_NAME option is used in the following Universal Connector command:

- DISPLAY SELECT

# VARIANT - USAP configuration option

## Description

The VARIANT option specifies the pre-existing SAP variant whose contents will be displayed.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | -V *variant* | | | ✓ | ✓ | ✓ |
| Command Line, Long Form | -variant *variant* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPVARIANT=*variant* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## Value

*variant* is the pre-existing SAP variant.

## Command Usage

The VARIANT option is used in the following Universal Connector commands:

- DISPLAY VARIANT
- GENERATE VARIANT DEFINITION FILE
- PURGE VARIANT
- SUBMIT VARIANT

# VARIANT_LANGUAGE - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -varlang *language* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPVARLANG *language* | | | ✓ | ✓ | |
| Configuration File Keyword | variant_language *language* | | | ✓ | ✓ | ✓ |

## Value

*language* is the language in which to return the variant description.

**Default is EN.**

## Command Usage

The VARIANT_LANGUAGE option is used in the following Universal Connector command:

- DISPLAY VARIANT

# VARIANT_SELECTION - USAP configuration option

## Description

The VARIANT_SELECTION option specifies the display of available variants.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -varselopt *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPVARSELOPT=*option* | | | ✓ | ✓ | |
| Configuration File Keyword | n/a | | | | | |

## 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.

## Command Usage

The VARIANT_SELECTION option is used in the following Universal Connector command:

- DISPLAY VARIANTS

# VERSION - USAP configuration option

## Description

The VERSION option writes Universal Connector version and copyright information.

## 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 | | | | | |

## Value

(There are no values required for this option.)

## 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.

# WAIT - USAP configuration option

## 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 spoollists for the job:

- RETURN_JOB_LOG controls the return of the joblog.
- RETURN_SPOOL_LIST controls the return of the spoollist.

## 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 | | | | | |

## Value

(There are no values used with this option.)

## 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

# WAIT_FOR_CHILD_JOBS - USAP configuration option

## 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.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -waitchild *option* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPWAITCHILD=*option* | | | | | |
| Configuration File Keyword | wait_for_child_jobs *option* | | | ✓ | ✓ | ✓ |

## 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.**

## 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

# WITH_PREDECESSOR - USAP configuration option

## Description

The WITH_PREDECESSOR option specifies whether or not to include jobs with start after predecessor in selection criteria.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -withpred *option* | | |  |  |  |
| Environment Variable | n/a | | | | | |
| Configuration File Keyword | n/a | | | | | |

## 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.**

## Command Usage

The WITH_PREDECESSOR option is used in the following Universal Connector command:

- DISPLAY SELECT

# XMI_AUDIT_LEVEL - USAP configuration option

## Description

The XMI_AUDIT_LEVEL option sets the XMI audit level to be used for the execution of the command.

## Usage

| Method | Syntax | IBM i | HP NonStop | UNIX | Windows | z/OS |
|---|---|---|---|---|---|---|
| Command Line, Short Form | n/a | | | | | |
| Command Line, Long Form | -xmiaudit *level* | | | ✓ | ✓ | ✓ |
| Environment Variable | USAPXMIAUDIT=*level* | | | ✓ | ✓ | |
| Configuration File Keyword | xmi_audit_level *level* | | | ✓ | ✓ | ✓ |

## 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.**

## Command Usage

The XMI_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.

# Universal Connector for SAP Job Definition Files

## 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 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 Job Definition File Syntax

## Standard Universal Connector Job Definition File Syntax

The standard Universal Connector 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 standard job definition.

```
Job_Header_Statement Step_Statement [Step_Statements]
```

# Keywords for Job Header Statement

## Keywords for Job Header Statement

### 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<br><br>This keyword is only valid if at least one of the following requirements is met:<br><br>1. Job definition file is being used with an SAP 46C system with support package SAPKB46C44.<br>2. Job definition file is being used with an SAP 610 system with support package SAPKB61033.<br>3. Job definition file is being used with an SAP 620 system with support package SAPKB62023. |
| **The following keywords represent SAP job start conditions.** | | | |
| SDLSTRTDT | 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.<br>' ' = Do not check job status for subsequent job start. |
| PERIODIC | 1 | No | 'X' = Job is periodic.<br>' ' = 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:<br>'1' = Beginning of month.<br>'2' = End of month. |
| PRDBEHAV | 1 | No | Start Date Restrictions:<br>' ' = Always execute job.<br>'D' = Do not execute job on Sundays or holidays.<br>'B' = Move job to previous day.<br>'A' = Move job to next work day. |
| NOTBEFORE | 8 | No | YYYMMDD |
| **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 | |
| **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.** | | | |
| RECIPIENT | 241 | No | Recipient Address |
| REC_TYPE | 1 | No | Recipient type. The following recipient types are supported:<br>• 'B' = SAP Office user name<br>• 'P' = personal distribution list<br>• 'C' = shared distribution list<br>• '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:<br>• " " = use system default.<br>• "A" = always report send status.<br>• "E" = report send status only in case of an error.<br>• "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:<br>• " " = Use system default.<br>• "A" = Always send status e-mail.<br>• "E" = Send status e-mail only in case of error.<br>• "N" = Never send status e-mail. |

# Keywords for ABAP Step Statement

## 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.<br>' ' = Do not output. |
| RELEASE | 1 | No | 'X' = Delete after output. |
| COPIES | 3 | No | |
| ARCHIVING_MODE | 1 | No | '1' = only print the document.<br>'2' = only archive the document.<br>'3' = both print and archive the document. |

| | | | |
|---|---|---|---|
| SAP_BANNER | 1 | No | ' ' = no cover sheet.<br>'X' = output cover sheet.<br>'D' = cover sheet output depends on the setting of the output device (printer) being used. |
| BANNER_PAGE | 1 | No | ' ' = no cover sheet.<br>'X' = output cover sheet. |
| PRUNX | 1 | No | This keyword controls the printing of an "OS Cover Sheet."<br>' ' = Do not Print.<br>'X' = Print. |
| EXPIRATION | 1 | No | |
| RECIPIENT | 12 | No | |
| NUM_LINES | 10 | No | |
| NUM_COLUMNS | 10 | No | |
| AUTHORIZATION | 12 | No | |
| PLIST | 12 | No | Spool Request Name<br>This keyword is valid only if the XBP 2.0 interface is installed on the target SAP system.<br>The XBP 2.0 interface will be used if present. |
| PRTXT | 68 | No | Spoollist Title<br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br>The XBP 2.0 interface will be used if present. |
| PRNEW | 1 | No | New Spool Request:<br>'X' = Create a new spoollist for each spoollist generated.<br>' ' = Append all spoollists.<br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br>The XBP 2.0 interface will be used if present. |

| | | | |
|---|---|---|---|
| PRABT | 12 | No | Department<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| PAART | 16 | No | Print format<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| PRDSN | 6 | No | Spool Data Set<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| PTYPE | 12 | No | Spool Request Type<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| FOOTL | 1 | No | Footer:<br><br>'X' = yes.<br><br>' ' = no.<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| **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<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |

| | | | |
|---|---|---|---|
| DOC_TYPE | 20 | No | Document Class<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| RPC_HOST | 32 | No | RPC Host<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| RPC_SERVIC | 32 | No | RPC Service / RFC Destination<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| AR_INTERFACE | 14 | No | Communication Component<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| MANDANT | 3 | No | Client<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| REPORT | 40 | No | Report Name<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| ARCTEXT | 40 | No | Text Information<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| DATUM | 8 | No | Archiving Date<br><br>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. |
| ARCUSER | 12 | No | Data Element for User<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| PRINTER | 4 | No | Target Printer<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| FORMULAR | 16 | No | Output Format<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| ARCHIVPATH | 70 | No | Standard Archive Path<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| PROTOKOLL | 8 | No | Storage Connection Protocol<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |
| VERSION | 4 | No | Version Number<br><br>This keyword is only valid if the XBP 2.0 interface is installed on the target SAP system.<br><br>The XBP 2.0 interface will be used if present. |

# Keywords for Temporary Variant Content Statement

## 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:<br>• 'P' = Field type is a parameter.<br>• 'S' = Field Type is a selection option. |
| SIGN | 1 | Yes | Selection sign:<br>• 'I' = Include values based on field selection criteria.<br>• 'E' = Exclude values based on field selection criteria. |
| OPTION | 2 | Yes | Selection option:<br>• 'CP' = Pattern.<br>• 'EQ' = Single value.<br>• 'GE' = Greater than or equal to.<br>• 'LE' = Less than or equal to.<br>• 'GT' = Greater than.<br>• 'LT' = Less than.<br>• 'NE' = Not equal to. |
| LOW | 45 | No | Selection value. |
| HIGH | 45 | No | Selection value. |

# Keywords for External Step Statement

## Keywords for External Step Statement

### 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.<br>'X' or 'C' = Wait.<br>'E' = The external program signals its time limitation over a Event to the SAP system. |
| CONNCNTL | 1 | No | 'R' = Communication way is held after starting the external program.<br>'H' = Communication way is diminished after starting the external program. |
| STDINCNTL | 1 | No | 'N' = No change.<br>'C' = Standard input closes.<br>'R' = Return standard input. |
| STDOUTCNTL | 1 | No | 'N' = No change.<br>'C' = Standard output expenditure closes.<br>'R' = Return standard output expenditure. |

| | | | |
|---|---|---|---|
| | | | 'T' = Return standard output into the trace file.<br>'M' = Write standard output expenditure into main storage. |
| STDERRCNTL | 1 | No | 'N' = No change.<br>'C' = Standard error expenditure closes.<br>'R' = Return standard error expenditure.<br>'M' = Write standard error expenditure into main storage. |
| TRACECNTL | 1 | No | '0' = Level 0, no trace.<br>'1' = Level 1, function call trace.<br>'2' = Level 2, minutes trace.<br>'3' = Level 3, expression of all messages. |

# Keywords for External Command Step Statement

## Keywords for External Command Step Statement

### 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 | |
| WAIT_FOR_TERMINATION | 1 | No | ' ' or 'W' = Don't wait.<br>'X' or 'C' = Wait.<br>'E' = The external program signals its time limitation over a Event to the SAP system. |
| CONNCNTL | 1 | No | 'R' = Communication way is held after starting the external program.<br>'H' = Communication way is diminished after starting the external program. |
| STDINCNTL | 1 | No | 'N' = No change.<br>'C' = Standard input closes.<br>'R' = Return standard input. |
| STDOUTCNTL | 1 | No | 'N' = No change. |

| | | | |
|---|---|---|---|
| | | | 'C' = Standard output expenditure closes.<br>'R' = Return standard output expenditure.<br>'T' = Return standard output into the trace file.<br>'M' = Write standard output expenditure into main storage. |
| STDERRCNTL | 1 | No | 'N' = No change.<br>'C' = Standard error expenditure closes.<br>'R' = Return standard error expenditure.<br>'M' = Write standard error expenditure into main storage. |
| TRACECNTL | 1 | No | '0' = Level 0, no trace.<br>'1' = Level 1, function call trace.<br>'2' = Level 2, minutes trace.<br>'3' = Level 3, expression of all messages. |

# Sample Universal Connector Job Definition File

## Sample Universal Connector 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"
;
```

# Sample Universal Connector Job Definition File with Temporary Variants

## 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 ********/
```

# Variant Definition File



## Overview

Universal Connector 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.

## 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 variant definition.

```
Variant_Header_Statement Variant_Text_Statement Variant_Content_Statement [Variant_Content_Statements]
```

## 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.

### 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. |

### 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 | |

## 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:<br>• 'P' = Field type is a parameter.<br>• 'S' = Field type is a selection option. |
| SIGN | 1 | Yes | Selection sign:<br>• 'I' = Include values based on field selection criteria.<br>• 'E' = Exclude values based on field selection criteria. |
| OPTION | 2 | Yes | Selection option:<br>• 'CP' = Pattern.<br>• 'EQ' = Single value.<br>• 'GE' = Greater than or equal to.<br>• 'LE' = Less than or equal to.<br>• 'GT' = Greater than.<br>• 'LT' = Less than.<br>• 'NE' = Not equal to. |
| LOW | 45 | No | Selection value. |
| HIGH | 45 | No | Selection value. |
| PROTECTED | 1 | No | 'X' = Field is protected.<br>' ' = Field is not protected. |
| APPENDAGE | 1 | No | *'X' = Appendage.<br>• ' ' = Not appendage. |
| VNAME | 30 | No | Name of variant variable. |
| | | | |

| | | | |
|---|---|---|---|
| VTYPE | 1 | No | Variant variable type:<br>• 'T' = Table variable from TVARV.<br>• 'D' = Dynamic date calculation.<br>• 'B' = User defined variables. |
| INVISIBLE | 1 | No | Hide field:<br>• 'X' = Invisible.<br>• ' ' = Not invisible. |
| NOINT | 1 | No | Hide field 'BIS':<br>• 'X' = Invisible.<br>• ' ' = Not invisible. |
| SCREENNR | 4 | No | Screen number. |
| NO_IMPORT | 1 | No | Save field without values:<br>• 'X' = Yes<br>• ' ' = No |
| OBLI | 1 | No | Required field:<br>• 'X' = Yes<br>• ' ' = No |

## 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       = ""
;
```

# Job Intercept Table Definition File



## Overview

Universal Connector 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.

## 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]
```

## 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.

### 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<br><br>**This value is only used internally by USAP. It does not effect the SAP table definition. |
| APPEND | 1 | Yes | • 'X' = Append.<br>• ' ' = Replace. |

### 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<br><br>**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 | |

## 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"
;
```

# FS Job Network Definition File



## Overview

Universal Connector 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.

## FS Job Network Definition File Syntax

The Universal Connector 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]
```

## 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.

### 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. |

### 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:<br>001-999 |
| REPORT_NAME | 40 | Yes | Report name. |
| REPORT_VARIANT | 14 | No | Report variant. |
| JOBNAME | 32 | Yes | Job name. |

### 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_SUCCESSOR | 3 | Yes | Report number successor: 001-999. |

## 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_SUCCESSOR      = "002"
   ;

PROCESS_RELATION                = "2"
   REPORT_NUMBER_PREDECESSOR    = "002"
   REPORT_NUMBER_SUCCESSOR      = "003"
   ;
```

# Spoollist Translation Tables



## Overview

Universal Connector returns spoollists 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 spoollist. In most cases, this raw format will not be desirable.

Therefore, Universal Connector provides the ability to translate the raw spoollist 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 Spoollist 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 Spoollist Translation files: **default.stt** and **raw.stt**. The default Spoollist 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 spoollist in its SAP internal format.

## Spoollist Translation Table File Format

The Spoollist Translation Table files consist of three white space-separated columns.

### *Column 1*

This is a compare string to look for in the raw unformatted spoollist. 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.

### *Column 2*

This is a replace string that will be used to replace the compare string in the raw unformatted spoollist. 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.

### *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.