



Universal Enterprise Controller

Reference Guide

Indesca / Infitran

Version 4.1.0

Universal Enterprise Controller

Reference Guide Indesca / Infitran 4.1.0

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Summary of Changes

Changes for Universal Enterprise Controller 4.1.0 Reference Guide (uec-ref-4100) February 10, 2010

Universal Enterprise Controller Client Applications 4.1.0.0

- Renamed Universal Activity Monitor as I-Activity Monitor.
- Renamed Universal Management Console as I-Management Console.
- Renamed UEC Administrator as I-Administrator.

Changes for Universal Enterprise Controller 3.2.0 Reference Guide (uec-ref-3203) November 2, 2009

Universal Products 3.2.0.9

- Removed information describing support of the zFS file system for Universal Enterprise Controller in [Chapter 2 Universal Enterprise Controller Configuration Options](#).

Changes for Universal Enterprise Controller 3.2.0 Reference Guide (uec-ref-3202) September 8, 2009

- Created this first version of the Universal Enterprise Controller 3.2.0 Reference Guide.

Universal Enterprise Controller 3.2.0.4

- Added the following configuration options in [Chapter 2 Universal Enterprise Controller Configuration Options](#):
 - [SAP_POLLING_INTERVAL](#)
 - [TMP_DIRECTORY](#)
 - [UNIX_DB_DATA_SET](#)
- Added the following code pages in [Section 4.2 Character Code Pages](#):
 - IBM875
 - IBM4971

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Preface

Document Structure

This document is written using specific conventions for text formatting and according to a specific document structure in order to make it as useful as possible for the largest audience. The following sections describe the document formatting conventions and organization.

Cross-Reference Links

This document contains cross-reference links to information in its companion document, the Universal Enterprise Controller User Guide.

In order for the links to work correctly:

- Place the documents in the same folder.
- In Adobe Reader / Adobe Acrobat, de-select **Open cross-document link in same window** in the **General** category of your **Preferences** dialog (selected from the **Edit** menu).

Conventions

Specific text formatting conventions are used within this document to represent different information. The following conventions are used.

Typeface and Fonts

This document provides tables that identify how information is used. These tables identify values and/or rules that are either pre-defined or user-defined:

- *Italics* denotes user-supplied information.
- **Boldface** indicates pre-defined information.

Elsewhere in this document, **This Font** identifies specific names of different types of information, such as file names or directories (for example, `\abc\123\help.txt`).

Operating System-Specific Text

Most of this document describes the product in the context of all supported operating systems. At times, it is necessary to refer to operating system-specific information. This information is introduced with a special header, which is followed by the operating system-specific text in a different font size from the normal text.

z/OS

This text pertains specifically to the z/OS line of operating systems.

This text resumes the information pertaining to all operating systems.

Tips from the Stoneman



Look to the Stoneman for suggestions
or for any other information
that requires special attention.

Stoneman's Tip

Vendor References

References are made throughout this document to a variety of vendor operating systems. We attempt to use the most current product names when referencing vendor software.

The following names are used within this document:

- **z/OS** is synonymous with IBM z/OS and IBM OS/390 line of operating systems.
- **Windows** is synonymous with Microsoft's Windows 2000 / 2003 / 2008, Windows XP, Windows Vista, and Windows 7 lines of operating systems. Any differences between the different systems will be noted.
- **UNIX** is synonymous with operating systems based on AT&T and BSD origins and the Linux operating system.

Note: These names do not imply software support in any manner. For a detailed list of supported operating systems, see the Universal Products 4.1.0 Installation Guide.

Document Organization

The document is organized into the following chapters:

- [Overview](#) (Chapter 1)
Introduction to the reference information in this document.
- [Universal Enterprise Controller Configuration Options](#) (Chapter 2)
Detailed information on all Universal Enterprise Controller configuration options for all operating systems.
- [UECLoad Configuration Options](#) (Chapter 3)
Detailed information on all UECLoad configuration options for all operating systems.
- [Additional Information](#) (Chapter 4)
Additional information related to Universal Enterprise Controller.
- [Customer Support](#) (Appendix A)
Customer support contact information for Universal Enterprise Controller.

Chapter 1 Overview

The Universal Enterprise Controller Reference Guide is a companion document to the Universal Enterprise Controller User Guide.

It provides the following technical detail for the information and procedures presented in that document:

- Universal Enterprise Controller configuration options
- UECLoad configuration options
- Additional information

Chapter 2

Universal Enterprise Controller

Configuration Options

2.1 Overview

This chapter provides detailed information on the configuration options available for use with the Universal Enterprise Controller.

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

Information on how these options are used is documented in the Universal Command 3.2 User Guide.

Section [2.2 Configuration Options Information](#) provides a guideline for understanding the information presented for each option.

2.2 Configuration Options Information

For each configuration option, this chapter provides the following information.

Description

Describes the configuration option and how it is used.

Usage

Provides a table of the following information:

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	<Format / Value>					
Command Line Option, Long Form	<Format / Value>					
Configuration File Keyword	<Format / Value>					

Method

Identifies the different methods used to specify Universal Enterprise Controller configuration options:

- Command Line Option, Short Form
- Command Line Option, Long Form
- 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 (with a ✓) the operating systems for which each method of specifying the option is valid:

- OS/400
- HP NonStop
- UNIX
- Windows
- z/OS

Values

Identifies all possible values for the specified value type.

Defaults are identified in **[bracketed bold type]**.

<Additional Information>

Identifies any additional information specific to the option.

2.3 Configuration Options List

Table 2.1, below, identifies the Universal Enterprise Controller configuration options.

Option Name	Description	Page
BKR_QUERIES_PER_THREAD	Maximum number of simultaneous Broker queries allowed for each thread.	22
BKR_QUERY_THREADS	Number of process threads started to initiate Broker queries during a polling cycle.	23
BKR_QUERY_TIMEOUT	Period of time within which a Broker query must finish before timing out.	24
CA_CERTIFICATES	UEC started task procedure ddname from which a PEM-formatted list of certificates is read.	25
CERTIFICATE	UEC started task procedure ddname from which a PEM-formatted certificate is read.	26
CERTIFICATE_REVOCATION_LIST	File name / ddname of the PEM-formatted CRL	27
CODE_PAGE	Code page for text translation of network data.	28
COMM_SESSIONS_PER_THREADS	Maximum number of UEC client sessions that can occur on each of the communications threads.	30
COMM_THREADS	Number of threads created to perform communications between UEC and the Universal Enterprise Controller Client Applications.	31
COMMIT_COMPLETE_EXPIRATION	Deletes completed commit configurations, by age.	32
COMMIT_INCOMPLETE_EXPIRATION	Deletes incomplete commit configurations, by age	33
CONVERT	Converts a pre-3.2.0 database into the current database format.	34
DELETE_EVENTS_ON_BROKER	Specification for whether or not events are deleted on the Universal Broker after they are retrieved and put into the UEC events database.	35
DNS_CACHE_TIMEOUT	Length of time to retain a resolved host name in memory cache.	36
DNS_POLLING_INTERVAL	Time interval at which the DNS cache is polled.	37
HELP	Write options help to SYSPRINT ddname.	38
HOSTNAME_RETRY_COUNT	Number of times that UEC will attempt to resolve the host name of a specified Universal Broker before it ends with a connect error.	39
JOB_THREADS	Number of threads created to perform internal tasks in UEC.	40
KEEP_MONITOR_EVENTS	Specification for whether or not monitor events are written into the UEC temporary database.	41
LOG_MESSAGES	Specification for whether or not to log all XML message traffic between UEC and any connected applications.	42
LOG_MESSAGES_DIRECTORY	Directory used for UEC log messages.	43
LOGIN_ATTEMPTS	Number of failed login attempts allowed by a user before being disconnected by UEC.	44

Option Name	Description	Page
MESSAGE_DESTINATION	Location to which messages are written.	45
MESSAGE_LANGUAGE	Language used for messages.	46
MESSAGE_LEVEL	Level of messages written.	47
MONITOR_EVENT_EXPIRATION	Length of time that state data is retained in the UEC database.	48
MOUNT_POINT	HFS directory in which the HFS database allocated to ddname UNVDB is mounted.	50
MOUNT_POINT_MODE	HFS access permission mode value with which the mounted database file system's root directory is set.	51
PERSISTENT_EVENT_EXPIRATION	Deletes event records, by age.	53
POLLING_INTERVAL	Time interval at which agents are polled.	55
PRIVATE_KEY	UEC started task procedure ddname from which a PEM-formatted private key is read.	56
PRIVATE_KEY_PWD	Password for the PRIVATE_KEY.	57
SAF_KEY_RING	SAF certificate key ring name.	58
SAF_KEY_RING_LABEL	SAF certificate key ring label.	59
SAP_POLLING_INTERVAL	Interval (in seconds) at which the SAP systems are polled for their status and job activity.	60
SERVICE_IP_ADDRESS	IP interface from which to accept connections.	61
SERVICE_PORT	Port from which to accept connections.	62
SSL_CIPHER_LIST	SSL cipher suite to be used for network communications.	63
SSL_IMPLEMENTATION	SSL implementation to be used for network configuration.	64
TMP_DIRECTORY	HFS directory in which Universal Enterprise Controller creates temporary files.	65
TRACE_DIRECTORY	Directory used for UEC trace files	66
TRACE_FILE_LINES	Maximum number of lines written to the trace ddname.	67
TRACE_TABLE	Size of the trace table.	68
UPDATE_INTERVAL	Time interval at which connected I-Activity Monitor clients are updated.	70
USER_AUTHENTICATION_METHOD	Authentication method to be used when authenticating UEC user accounts.	71
VERSION	Writes the program version and copyright statement.	72

Table 2.1 Universal Enterprise Controller - Configuration Options

2.4 BKR_QUERIES_PER_THREAD

Description

The BKR_QUERIES_PER_THREAD option specifies the maximum number of simultaneous Broker queries allowed for each thread.

For example, if there are 4 threads and 25 queries per thread allowed, then a maximum of 100 Brokers can be queried at the same time during one polling cycle.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	bkr_queries_per_thread <i>count</i>				√	√

Values

count is the maximum number of queries allowed.

Default

Windows

[Default is 10.]

z/OS

[Default is 25.]

2.5 BKR_QUERY_THREADS

Description

The BKR_QUERY_THREADS option specifies the number of threads started in order to initiate broker queries during a polling cycle.

Note: One BKR_QUERY_THREADS is equivalent to one task or TCB.

z/OS

On z/OS, for each query thread, a task (TCB) is created in the UEC address space. A task is an individually dispatchable unit of work within the address space. The more tasks that exist in the address space, the more CPU and memory resources the address space consumes. The benefit of the additional tasks is that each task may execute in parallel producing a higher overall throughput of broker queries.

The throughput benefits achieved with additional tasks diminish after a certain optimum number of tasks. The optimum number depends on the hardware resources available to the operating system and the UEC address space resource configuration. A typical range is from 2 to 10 threads.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	bkr_query_threads <i>count</i>				√	√

Values

count is the number of threads started in order to initiate broker queries.

Default

Windows

[Default is 10.]

z/OS

[Default is 4.]

2.6 BKR_QUERY_TIMEOUT

Description

The BKR_QUERIES_TIMEOUT option specifies the time in which a broker query must finish before timing out.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	bkr_query_timeout <i>count</i>				√	√

Values

count is the time (in seconds) in which a broker query must finish.

[Default is 60.]

2.7 CA_CERTIFICATES

Description

The CA_CERTIFICATES option specifies the PEM-formatted trusted Certificate Authority (CA) X.509 certificates file / ddname.

Trust CA certificates are required if certificate authentication and verification is desired.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-ca_certs <i>ddname</i> or <i>file</i>					√
Configuration File Keyword	ca_certificates <i>ddname</i> or <i>file</i>				√	√

Values

z/OS

ddname is the ddname of the X.509 certificates.

Windows

file is the path name of the X.509 certificates file. Relative paths are relative the current working directory.

2.8 CERTIFICATE

Description

The CERTIFICATE option specifies the file / ddname name of the PEM-formatted X.509 certificate that identifies the Universal Enterprise Controller.

UEC may use an X.509 certificate to identify itself when connecting to Universal Brokers. If a certificate is not specified by CERTIFICATE, an internal certificate is generated.

Note: If the CERTIFICATE option is used, the [PRIVATE_KEY](#) option also is required.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-cert <i>ddname</i> or <i>file</i>					√
Configuration File Keyword	certificate <i>ddname</i> or <i>file</i>				√	√

Values

z/OS

ddname is the ddname of the X.509 certificate.

Windows

file is the path name of the X.509 certificate file. Relative paths are relative to the current working directory.

2.9 CERTIFICATE_REVOCATION_LIST

Description

The CERTIFICATE_REVOCATION_LIST option specifies the file name / ddname of the PEM-formatted file containing the Certificate Revocation List (CRL) issued by the trusted Certificate Authority.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-crl <i>file</i> or <i>ddname</i>					✓
Configuration File Keyword	crl <i>file</i> or <i>ddname</i>				✓	✓

Values

z/OS

ddname is the ddname of the file containing the CRL. The value is used only when the [SSL_IMPLEMENTATION](#) option is set to *OPENSSL*.

Windows

file is the path name of the file containing the CRL. Relative paths are relative to the current working directory.

2.10 CODE_PAGE

Description

The CODE_PAGE option specifies the character code page that is used to translate text data received and transmitted over the network.

The Universal Translate Table (UTT) files are used to translate between Unicode and the local single-byte code page.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-t <i>codepage</i>					✓
Command Line Option, Long Form	-codepage <i>codepage</i>					✓
Configuration File Keyword	codepage <i>codepage</i>				✓	✓

Value

codepage is the character code page that is used to translate data. It is based on its Universal Translate Table (UTT) file name (see [Table 2.2](#)).

UTT files are used to translate between Unicode and the local single-byte code page. (All UTT files end with an extension of `.utt`.)

Default

Windows

[Default is *ISO8859-1*.]

z/OS

[Default is *IBM1047*.]

UTT Files

Universal Translate Table (UTT) files are used to translate between Unicode and the local single-byte code page.

Operating System	UTT File Location
z/OS	UTT files are members of the PDS allocated to the Broker ddname UNVNLS . <i>codepage</i> specifies the member name.
Windows	UTT files are located in the NLS subdirectory of the installation directory. <i>codepage</i> is the base file name of the UTT file.

Table 2.2 UTT File Locations

2.11 COMM_SESSIONS_PER_THREAD

Description

The COMM_SESSIONS_PER_THREAD option specifies the maximum number of UEC client sessions that can occur on each of the communications threads (see the [COMM_THREADS](#) option).

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	comm_sessions_per_thread <i>count</i>				√	√

Value

count is the number of sessions per communications thread.

[Default is 64.]

2.12 COMM_THREADS

Description

The COMM_THREADS option specifies the number of threads created to perform communications between UEC and the Universal Enterprise Controller Client Applications.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	comm_threads <i>count</i>				√	√

Value

count is the number of threads.

[Default is 1.]

2.13 COMMIT_COMPLETE_EXPIRATION

Description

The COMMIT_COMPLETE_EXPIRATION option specifies the length of time that complete commit records are retained, upon which (or after which) UEC deletes them.

The minimum length of time that records are retained is one hour.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	commit_complete_expiration <i>time</i>				√	√

Value

time is the length of time that completed commit records are retained before being deleted.

Valid values for *time* are a number followed by (optionally) one of the following suffixes:

- **s** (seconds)
- **m** (minutes)
- **h** (hours)
- **d** (days)

If a suffix is not specified, the number is assumed to indicate seconds.

(For example, if **3d** is specified, the records are retained for three days before UEC deletes them.)

Note: If **0** is specified, completed commit records are not deleted.

[Default is 60d.]

2.14 COMMIT_INCOMPLETE_EXPIRATION

Description

The COMMIT_INCOMPLETE_EXPIRATION option specifies the length of time that incomplete commit records are retained, upon which (or after which) UEC deletes them.

The minimum length of time that records are retained is one hour.

Note: An incomplete commit record is a committed configuration with agents that are pending to receive the configuration changes.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	commit_incomplete_expiration <i>time</i>				√	√

Value

time is the length of time that incomplete commit records are retained before being deleted.

Valid values for *time* are a number followed by (optionally) one of the following suffixes:

- **s** (seconds)
- **m** (minutes)
- **h** (hours)
- **d** (days)

If a suffix is not specified, the number is assumed to indicate seconds.

(For example, if **3d** is specified, the records are retained for three days before UEC deletes them.)

Note: If **0** is specified, incomplete commit records are not deleted.

[Default is 90d.]

2.15 CONVERT

Description

The CONVERT option converts a pre-3.2.0 database into the current database format.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-convert					√
Configuration File Keyword	n/a					

Value

(There are no values for this option.)

2.16 DELETE_EVENTS_ON_BROKER

Description

The DELETE_EVENTS_ON_BROKER option specifies whether or not events are deleted on the Universal Broker after they are retrieved and put into the UEC events database.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	delete_events_on_broker <i>option</i>				√	√

Value

option is the specification for whether or not to delete events on the Universal Broker.

Valid values for *option* are:

- **yes**
Delete events on the Universal Broker.
- **no**
Do not delete events on the Universal Broker.

[Default is no.]

2.17 DNS_CACHE_TIMEOUT

Description

The DNS_CACHE_TIMEOUT option specifies the length of time (in seconds) to retain a resolved host name in DNS memory cache.

The DNS cache provides a performance enhancement in environments where the DNS system is slow to respond.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	dns_cache_timeout <i>seconds</i>				√	√

Value

seconds is the number of seconds to retain the host name in memory cache.

A value of **0** disables caching of host entries.

[Default is 360.]

2.18 DNS_POLLING_INTERVAL

Description

The DNS_POLLING_INTERVAL option specifies the time interval (in seconds) at which the DNS cache is polled.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	dns_polling_interval <i>seconds</i>				√	√

Value

seconds is the interval (in seconds) at which the DNS cache is polled.

[Default is 120.]

2.19 HELP

Description

The HELP option writes a description of the command options and their format.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-h					✓
Command Line Option, Long Form	-help					✓
Configuration File Keyword	n/a					

Value

(There are no values for the HELP option.)

2.20 HOSTNAME_RETRY_COUNT

Description

The `HOSTNAME_RETRY_COUNT` option specifies the number of times that UEC will attempt to resolve the host name of a specified Universal Broker before it ends with a connect error.

UEC will sleep for one second between resolution attempts.

Connection errors occur for several reasons. A common reason is a failure to resolve the Universal Broker host name specified with the `BROKER_HOST` option. This error can occur intermittently due to a temporary resource shortage or a temporary DNS problem. If your system is prone to host name resolution errors, it may help to have UEC retry the connection several times.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	<code>-hostname_retry_count count</code>					✓
Configuration File Keyword	<code>hostname_retry_count count</code>				✓	✓

Values

count is the number of times that UEC will attempt to resolve the host name.

[Default is 1.]

2.21 JOB_THREADS

Description

The JOB_THREADS option specifies the number of threads created to perform internal tasks in UEC.

These tasks can include processing for the Universal Enterprise Controller Client Applications where this value can affect the performance of client applications.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	job_threads <i>count</i>				√	√

Value

count is the number of threads.

[Default is 10.]

2.22 KEEP_MONITOR_EVENTS

Description

The KEEP_MONITOR_EVENTS option specifies whether or not monitor events are written into the UEC temporary database.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-keep_monitor_events <i>option</i>					√
Configuration File Keyword	keep_monitor_events <i>option</i>				√	√

Values

option is the specification for whether or not to write monitor events into the database.

Valid values for *option* are:

- **yes**
Write monitor events into the UEC temporary database.
- **no**
Do not write monitor events into the UEC temporary database.

[Default is no.]

Note: KEEP_MONITOR_EVENTS should be set to the default value unless directed otherwise by Stonebranch, Inc. [Customer Support](#).

2.23 LOG_MESSAGES

Description

The LOG_MESSAGES option specifies whether or not to write to a log all XML messages exchanged between UEC and any connected applications.

Note: LOG_MESSAGES is a debugging flag to be used with help from Stonebranch, Inc. [Customer Support](#).

z/OS

Log messages are written to the UNVMSGs and UNVPRSR ddnames.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	log_messages <i>option</i>				√	√

Value

option is the specification for whether or not to write the messages.

Valid values for *option* are:

- **yes**
Write XML message traffic to a log.
- **no**
Do not write XML message traffic to a log.

2.24 LOG_MESSAGES_DIRECTORY

Description

The LOG_MESSAGES_DIRECTORY option specifies the directory that UEC uses for log messages.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	log_messages_directory <i>directory</i>				√	

Value

directory is the directory to use for log messages.

[Default is c:\program files\universal\uct1r\log.]

2.25 LOGIN_ATTEMPTS

Description

The LOGIN_ATTEMPTS option specifies the number of failed login attempts over a single connection that a user is allowed before UEC disconnects the user.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	login_attempts <i>count</i>				√	√

Values

count is the number of failed login attempts allowed.

Valid values for *count* are any number.

[Default is 3.]

2.26 MESSAGE_DESTINATION

Description

The MESSAGE_DESTINATION option specifies the location where messages are written.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-d <i>destination</i>					✓
Command Line Option, Long Form	-dest <i>destination</i>					✓
Configuration File Keyword	message_dest <i>destination</i>				✓	✓

Value

destination is the location where messages are written.

Valid values for *destination* are:

z/OS

- **stderr**
Writes the messages to the console.
stderr is a valid value only if UEC is running as a console application.
- **logfile**
Writes the messages to ddname **UNVLOG**.
- **system**
Writes the messages to the console as WTO messages.

[Default for a console process is stderr.]

Windows

- **system**
Writes the messages to the Windows Application Event Log.

2.27 MESSAGE_LANGUAGE

Description

The MESSAGE_LANGUAGE option specifies the Universal Message Catalog (UMC) that is used to format messages.

There is a message catalog for each language.

Universal Enterprise Controller message catalog member / file names start with characters **UECMC**. The first three characters of the language are used as a three-character suffix of the member / file name. All UMC catalogs have a **.UMC** extension

Note: Currently, the only message catalog provided is for English.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-L <i>language</i>					✓
Command Line Option, Long Form	-lang <i>language</i>					✓
Configuration File Keyword	language <i>language</i>				✓	✓

Values

language is the name of the UMC catalog.

z/OS

language translates to a member name of the library allocated on the UNVNLS DD statement.

[Default is *ENGLISH*.]

2.28 MESSAGE_LEVEL

Description

The MESSAGE_LEVEL option specifies the level of messages to write.

Usage

Method	Syntax *	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-l <i>level</i>					✓
Command Line Option, Long Form	-level <i>level</i>					✓
Configuration File Keyword	message_level <i>level</i>				✓	✓

Values

level is the level of messages to write.

Valid values for *level* are:

- **trace**
Writes trace messages used for diagnostic purposes.
Note: Use **trace** only as directed by Stonebranch, Inc. [Customer Support](#).
- **audit**
Writes audit, informational, warning, and error messages.
- **info**
Writes informational, warning, and error messages.
- **warn**
Writes warning and error messages.
- **error**
Writes error messages only.

[Default is info.]

2.29 MONITOR_EVENT_EXPIRATION

Description

The MONITOR_EVENT_EXPIRATION option specifies the length of time that state data is retained in the UEC database.

State data refers to data collected and generated by UEC that is used to represent the work and working state of Universal Products at a point in time. Collected data includes monitor-routed UES events and Universal Products component state data.

Each state data record is associated with a particular Universal Product workflow. While the workflow is active, some component of the workflow is generating state data. State data is aged and expired at the workflow level.

All records associated with a workflow are considered to be as old as the last update performed for the workflow. Therefore, when a clean-up cycle occurs, and no state data activity has occurred on a workflow for at least the length of time specified by MONITOR_EVENT_EXPIRATION, all records associated with the workflow are removed from the database.

State data clean-up cycles occur once every hour. Therefore, the minimum length of time that state data is retained is one hour.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	monitor_event_expiration <i>time</i>				√	√

Values

time is the length of time that event records are retained before being deleted.

Valid values for *time* are a number followed by (optionally) one of the following suffixes:

- **s** (seconds)
- **m** (minutes)
- **h** (hours)
- **d** (days)

If a suffix is not specified, the number is assumed to indicate seconds.

(For example, if **3d** is specified, the records are retained for three days before UEC deletes them.)

[Default is 24h.]

2.30 MOUNT_POINT

Description

The MOUNT_POINT option specifies the HFS directory in which the HFS database allocated to ddname **UNVDB** is mounted.

The actual mount point will be a subdirectory named after the HFS data set name being mounted.

If the mount point does not exist, it is created by UEC.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-mount_point <i>directory</i>					√
Configuration File Keyword	mount_point <i>directory</i>					√

Values

directory is the HFS directory in which the HFS database is mounted.

[Default is /tmp.]

Note: The HFS permission mode is set to *dir*.

2.31 MOUNT_POINT_MODE

Description

The MOUNT_POINT option specifies the HFS access permission mode value with which the mounted database file system's root directory is set.

The HFS database file system is initialized only if the file `.inited` is not found in the root directory. When initialization is performed once, `.inited` is created; initialization will not be performed again.

If you need to customize the directory ownership or permissions, define the file `.inited` in the file system's root directory; UEC will not perform its initialization.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-mount_point_mode <i>mode</i>					✓
Configuration File Keyword	mount_point_mode <i>mode</i>					✓

Values

mode is the HFS permission mode value, which is a sum of the permission modes to be granted.

Table 2.3, below, describes each mode.

Mode	Description
100	User execute permission
200	User write permission
400	User read permission
010	Group execute permission
020	Group write permission
040	Group read permission
001	Other execute permission
002	Other write permission
004	Other read permission

Table 2.3 HFS Access Permission Modes

The format of *mode* is the same as the “change mode” USS command `chmod`. It is an octal number that specifies the permission mode value corresponding to the user, group, and other permission mode fields.

(Refer to the IBM *UNIX System Services Command Reference* for complete details on the `chmod` command.)

Default is 750, which specifies:

- **Read-write-execute access for the user**
- **Read-execute access for the group**
- **No access for other**

2.32 PERSISTENT_EVENT_EXPIRATION

Description

The PERSISTENT_EVENT_EXPIRATION option specifies the length of time that persistent event records are retained in the UEC database.

Persistent event data refers to data collected and generated by UEC from the Universal Broker on remote platforms. This data is used to represent a sequence of events that have occurred over a period of time. Collected data includes persistent-routed UES events. This commonly is referred to as Universal Event Subsystem data.

The minimum length of time that records are retained is one hour.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	persistent_event_expiration <i>time</i>				√	√

Value

time is the length of time that persistent event records are retained before being deleted.

Valid values for *time* are a number followed by (optionally) one of the following suffixes:

- **s** (seconds)
- **m** (minutes)
- **h** (hours)
- **d** (days)

If a suffix is not specified, the number is assumed to indicate seconds.

(For example, if **3d** is specified, the records are retained for three days before UEC deletes them.)

Note: If **0** is specified, persistent event records are not deleted.

[Default is 60d.]

2.33 POLLING_INTERVAL

Description

The POLLING_INTERVAL option specifies the time interval (in seconds) at which the agents in the UEC agent list are polled.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	polling_interval <i>seconds</i>				√	√

Value

seconds is the interval (in seconds) at which the agents are polled.

Valid values for *seconds* is any number.

[Default is 120.]

If your agent list is large, you may want to increase this default interval.

Note: POLLING_INTERVAL should not be set to a value lower than the number of agents divided by [BKR_QUERIES_PER_THREAD](#) x [BKR_QUERY_THREADS](#). While doing so will not cause any harm to UEC, it will prevent UEC from operating as efficiently as possible.

2.34 PRIVATE_KEY

Description

The PRIVATE_KEY option specifies the location of the PEM-formatted private key that corresponds to the X.509 certificate specified by the CERTIFICATE option.

Note: PRIVATE_KEY is required only if a certificate is specified by CERTIFICATE.

Usage

Method	Syntax *	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-private_key <i>ddname</i>					✓
Configuration File Keyword	private_key <i>ddname</i> or <i>file</i>				✓	✓

Values

z/OS

ddname is the ddname from which the PEM-formatted private key is read.

Windows

file is the full path name of the file from which the PEM-formatted private key is read.

2.35 PRIVATE_KEY_PWD

Description

The PRIVATE_KEY_PWD option specifies the password for the PEM-formatted private key specified with the [PRIVATE_KEY](#) option.

Note: Whether or not the password is required depends on whether or not it is required by the private key.

Usage

Method	Syntax *	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-private_key_pwd <i>password</i>					✓
Configuration File Keyword	private_key_password <i>password</i>				✓	✓

Values

password is the password for the private key.

2.36 SAF_KEY_RING

Description

The SAF_KEY_RING option specifies the name of the SAF key ring that a UEC will use as its X.509 certificate, if Universal Broker requires the UEC to provide an X.509 certificate to identify itself to the Broker.

Note: SAF_KEY_RING is required if the [SSL_IMPLEMENTATION](#) option is set to `SYSTEM`.

Usage

Method	Syntax *	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-saf_key_ring <i>name</i>					√
Configuration File Keyword	saf_key_ring <i>name</i>					√

Values

name is the name of the SAF certificate key ring.

2.37 SAF_KEY_RING_LABEL

Description

The SAF_KEY_RING_LABEL option specifies the label of the certificate in the SAF certificate key ring.

(The key ring is specified by the [SAF_KEY_RING](#) option.)

Usage

Method	Syntax *	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-saf_key_ring_label <i>label</i>					✓
Configuration File Keyword	saf_key_ring_label <i>label</i>					✓

Values

label is the label of the SAF certificate key ring.

[Default is the default certificate in the key ring.]

2.38 SAP_POLLING_INTERVAL

Description

The SAP_POLLING_INTERVAL option specifies the interval (in seconds) at which the SAP systems are polled for their status and job activity.

Usage

Method	Syntax *	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	sap_polling_interval <i>interval</i>				√	√

Values

interval is the interval (in seconds) at which the SAP systems are polled for their status and job activity.

{Default is 120.}

2.39 SERVICE_IP_ADDRESS

Description

The SERVICE_IP_ADDRESS option specifies the IP interface on which to accept network connection requests.

SERVICE_IP_ADDRESS is useful only if the system has multiple IP interfaces.

If the system has multiple interfaces and SERVICE_IP_ADDRESS is not used, connection requests are accepted on all interfaces defined on the system.

If the system has only one interface, do not use SERVICE_IP_ADDRESS.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-i <i>ipaddress</i>					✓
Command Line Option, Long Form	-svcipaddr <i>ipaddress</i>					✓
Configuration File Keyword	service_ip_address <i>ipaddress</i>				✓	✓

Values

ipaddress is the IP address on which to accept network connection requests.

Valid values for *ipaddress* are:

- Dotted numeric format (for example, **20.30.40.50**)
- Domain name format (for example, **myinterface**).

Note: An asterisk (*) specifies all interfaces.

z/OS

[Default is *.]

2.40 SERVICE_PORT

Description

The SERVICE_PORT option specifies the IP port on which to accept network connection requests.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-p <i>port</i>					✓
Command Line Option, Long Form	-svcport <i>port</i>					✓
Configuration File Keyword	service_port <i>port</i>				✓	✓

Values

port is the IP port on which to accept network connection requests.

Valid values for *port* are:

- Numeric value (for example, **7000**)
- Service name (for example, **uectrl**)

[Default is 8778.]

Note: It is recommended that the default value be used, if possible.

2.41 SSL_CIPHER_LIST

Description

The SSL_CIPHER_LIST option specifies one or more SSL cipher suites that are acceptable to use for network communications between UEC components.

Usage

Method	Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form		n/a					
Command Line Option, Long Form		-ssl_cipher_list <i>cipherlist</i>					✓
Configuration File Keyword		ssl_cipher_list <i>cipherlist</i>				✓	✓

Values

cipherlist is a comma-separated list of SSL cipher suites. The list should be ordered with the most preferred suite first and the least preferred suite last.

Table 2.4 identifies the list of SSL cipher suites supported for this option.

Cipher Suite	Description
RC4-SHA	128-bit RC4 encryption and SHA-1 message digest
RC4-MD5	128-bit RC4 encryption and MD5 message digest
AES256-SHA	256-bit AES encryption and SHA-1 message digest
AES128-SHA	128-bit AES encryption and SHA-1 message digest
DES-CBC3-SHA	128-bit Triple-DES encryption and SHA-1 message digest
DES-CBC-SHA	128-bit DES encryption and SHA-1 message digest

Table 2.4 SSL Cipher Suites (for CTL_SSL_CIPHER_LIST)

[Default is RC4-SHA,RC4-MD5,AES256-SHA,AES128-SHA,DES-CBC3-SHA,DES-CBC-SHA.]

2.42 SSL_IMPLEMENTATION

Description

The SSL_IMPLEMENTATION option specifies the Secure Socket Layer (SSL) implementation to be used for network communications.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-ssl_implementation <i>option</i>					√
Configuration File Keyword	ssl_implementation <i>option</i>					√

Values

option is the SSL implementation to be used.

Valid values for option are:

- **openssl**
OpenSSL SSL library is used for the SSL protocol.
- **system**
z/OS System SSL library is used for the SSL protocol. The z/OS System SSL library has installation and configuration prerequisites. (See the Universal Products 4.1.0 Installation Guide for a description of the prerequisites before using System SSL.)

[Default is openssl.]

2.43 TMP_DIRECTORY

Description

The TMP_DIRECTORY option specifies the HFS directory in which Universal Enterprise Controller creates temporary files.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	tmp_directory <i>directory</i>					✓

Values

directory is the name of the directory for temporary files. A fully qualified path name must be specified.

[Default is tmp_directory / tmp.]

2.44 TRACE_DIRECTORY

Description

The TRACE_DIRECTORY option specifies the directory that the Universal Enterprise Controller uses for trace files.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	trace_directory <i>directory</i>				√	

Values

directory is the name of the directory for trace files.

[Default is c:\Program Files\Universal\uect1r.]

2.45 TRACE_FILE_LINES

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.

(The average size of a trace file line is 50 characters.)

z/OS

The trace file is written to ddname UNVTRACE. However, TRACE_FILE_LINES has no effect if ddname UNVTRACE has allocated a JES SYSOUT file.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-tracefilelines <i>lines</i>					✓
Configuration File Keyword	trace_file_lines <i>lines</i>				✓	✓

Values

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

[Default is 50,000.]

2.46 TRACE_TABLE

Description

The TRACE_TABLE option specifies the size of a wrap-around trace 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	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	trace_table size, condition				√	√

Values

size is the size (in bytes) of the trace 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.

Note: If size is **0**, the trace table is not used.

[Default is 0.]

condition is the condition under which the trace table is written.

Possible 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*.]

2.47 UPDATE_INTERVAL

Description

The UPDATE_INTERVAL option specifies the time interval (in seconds) at which connected I-Activity Monitor clients are updated.

When a change is made to the broker or group lists through the I-Administrator application, the change will not be committed until the end of the specified interval. If additional changes are made within that interval, all changes made during the interval will be committed at the same time.

When the changes are committed, all connected I-Activity Monitor clients will be updated with the new information. This will minimize message traffic to existing I-Activity Monitor clients during mass I-Administrator updates.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	update_interval <i>seconds</i>				√	√

Values

seconds is the time interval at which clients are updated.

[Default is 120.]

2.48 USER_AUTHENTICATION_METHOD

Description

The USER_AUTHENTICATION_METHOD option specifies the authentication method to be used when authenticating UEC user accounts.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	n/a					
Configuration File Keyword	user_authentication_method <i>method</i>				√	√

Values

method is the authentication method to be used.

Valid values for *method* are:

- **uec**
Use UEC authentication only
- **os**
Use the native operating system authentication method where UEC is running.
- **uec,OS**
Use both UEC authentication and native operating system authentication

[Default is UEC, OS.]

2.49 VERSION

Description

The VERSION option instructs UEC to write program version and copyright information.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-v					√
Command Line Option, Long Form	-version					√
Configuration File Keyword	n/a					

Value

(There are no values for this option.)

Chapter 3

UECLoad

Configuration Options

3.1 Overview

This chapter provides detailed information on the configuration options available for use with the UECLoad utility. Section [3.2 Configuration Options Information](#) provides a guideline for understanding the information presented for each option.

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

Information on how these options are used is documented in [Chapter 5 UECLoad Utility](#).

3.2 Configuration Options Information

For each configuration option, this chapter provides the following information.

Description

Describes the configuration option and how it is used.

Usage

Provides a table of the following information:

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	<Format / Value>					
Command Line Option, Long Form	<Format / Value>					
Environment Variable	<Format / Value>					
Definition File Keyword	<Format / Value>					

Method

Identifies the different methods used to specify UECLoad configuration options:

- Command Line Option, Short Form
- Command Line Option, Long Form
- Environment Variable
- Definition 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 (with a ✓) the operating systems for which each method of specifying the option is valid:

- OS/400
- HP NonStop
- UNIX
- Windows
- z/OS

Values

Identifies all possible values for the specified value type.

Defaults are identified in **[bracketed bold type]**.

<Additional Information>

Identifies any additional information specific to the option.

3.3 Configuration Options List

Table 3.1, below, identifies all UECLoad configuration options.

Option	Description	Page
ADD	Specification to add broker definitions to the UEC.	77
ARCFILE	Archived file to retrieve for export.	78
BROKER_DEFFILE	File containing multiple broker definitions to be added or deleted in the UEC database.	79
BROKER_DESCRIPTION	Description of the defined Universal Broker.	80
BROKER_HOST	TCP/IP host name of the defined Universal Broker.	81
BROKER_NAME	Unique name of the defined Universal Broker.	82
BROKER_PORT	TCP/IP port number of the defined Universal Broker.	83
CODE_PAGE	Code page used for text translation.	84
COMMAND_FILE_ENCRYPTED	Encrypted command file.	85
COMMAND_FILE_PLAIN	Plain text command file.	86
DELETE	Specification to delete broker definitions from the UEC.	87
ENCRYPTION_KEY	Encryption key used to decrypt an encrypted command file specified by COMMAND_FILE_ENCRYPTED.	88
END_TIME	End time of exported data	89
EXPORT	Specification to output the described broker definition in a format to be used by a broker definition file.	90
EXPORT_DELETE	Specification that the exported records from the UEC events database table are to be deleted upon –export EVENTS action	91
FORMAT	Format of the output from the -export EVENTS action	92
HELP	Write command option help.	93
LIST	Specification to output the described broker definition in a user-friendly format.	94
MESSAGE_LEVEL	Level of messages written.	95
START_TIME	Start time of exported data	97
UEC_PORT	TCP/IP port number of the UEC.	98
USER_ID	UEC user ID or account with which brokers will be modified.	99
USER_PASSWORD	Password associated with USER_ID.	100
VERSION	Write program version.	101

Table 3.1 UECLoad Configuration Options

3.4 ADD

Description

The ADD option specifies that the action being taken is to add Broker definitions in the UEC database.

Valid actions are [ADD](#), [DELETE](#), [EXPORT](#), and [LIST](#). Only one action can be specified at any one time.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-add				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Values

(There are no values associated with ADD.)

3.5 ARCFILE

Description

The ARCFILE option specifies the name of an archived file to retrieve for export.

Retrieval of archived data will export data directly into CSV or XML format.

Note: If ARCFILE is used, the [UEC_PORT](#), [USER_ID](#), and [USER_PASSWORD](#) options are ignored, since no connection is made to the UEC for this operation.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-arcfile <i>filename</i>				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Values

filename is the name of the file to retrieve.

3.6 BROKER_DEFFILE

Description

The BROKER_DEFFILE option specifies the Broker definition file (`deffile`).

The `deffile` is used to specify multiple Broker definitions to be added or deleted to the UEC.

If used with the [EXPORT](#) option, the definition file is created with the results of the export action.

BROKER_DEFFILE is not valid for use with the [LIST](#) option.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	<code>-deffile filename</code>				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Values

filename is the name of the definition file.

3.7 BROKER_DESCRIPTION

Description

The BROKER_DESCRIPTION option specifies a description of the Broker being added or deleted in the UEC database.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-broker_desc <i>description</i>				√	√
Environment Variable	UECLBROKERDESC= <i>description</i>				√	√
Definition File Keyword	broker_desc <i>description</i>				√	√

Values

description is the description of the Broker being added or deleted.

Note: Since *description* can contain spaces, it should be enclosed in double (") quotation marks.

3.8 BROKER_HOST

Description

The BROKER_HOST option specifies the host network address of the Broker being added, deleted, or viewed in the UEC database.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-broker_host <i>address</i>				√	√
Environment Variable	UECLBROKERHOST= <i>address</i>				√	√
Definition File Keyword	broker_host <i>address</i>				√	√

Values

address is the host network address of the Broker.

address can be specified in either of the following formats:

- Dotted format (1.2.3.4)
- Host domain name

If BROKER_HOST is used with the [LIST](#) or [EXPORT](#) option, *address* can contain wildcards (for example, 1.2.3.* or host1*). In these examples, all broker host addresses that begin with 1.2.3 or host1, respectively, would be matched.

3.9 BROKER_NAME

Description

The BROKER_NAME option specifies the unique name of a Broker being added, deleted, or viewed in the UEC database.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-broker_name <i>name</i>				√	√
Environment Variable	UECLBROKERNAME= <i>name</i>				√	√
Definition File Keyword	broker_name <i>name</i>				√	√

Values

name is the name of the Broker.

If BROKER_NAME is used with the [LIST](#) or [EXPORT](#) option, *name* can contain wildcards (for example, `broker*`). In this example, all broker names that begin with `broker1` would be matched.

3.10 BROKER_PORT

Description

The BROKER_PORT option specifies the TCP/IP port of the Broker being added, deleted, or viewed in the UEC database.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-broker_port <i>port</i>				√	√
Environment Variable	UECLBROKERPORT= <i>port</i>					
Definition File Keyword	broker_port <i>port</i>					

Values

port is the TCP/IP port of the Broker.

port can be specified in either of the following formats:

- Number (for example, 7887)
- Service name (for example, **ubroker**)

3.11 CODE_PAGE

Description

The CODE_PAGE option specifies the character code page that is used to translate text data received and transmitted over the network.

The Universal Translate Table (UTT) files are used to translate between Unicode and the local single-byte code page.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-t <i>codepage</i>				√	√
Command Line Option, Long Form	-codepage <i>codepage</i>				√	√
Environment Variable	UECLDCODEPAGE= <i>codepage</i>				√	√
Definition File Keyword	n/a					

Value

codepage is the character code page that is used to translate data.

codepage references a Universal Translate Table (UTT) file provided with the product (see Section [4.3 UTT Files](#) for information on UTT files). UTT files are used to translate between Unicode and the local single-byte code page. (All UTT files end with an extension of `.utt`.)

[Default

The default code page is different for different operating systems:

- ISO8859-1 (8-bit ASCII) ASCII-based operating systems
- IBM1047 (EBCDIC) EBCDIC-based operating system]

See Section [4.2 Character Code Pages](#) for a complete list of character code pages provided by Stonebranch Inc. for use with Universal Products.

3.12 COMMAND_FILE_ENCRYPTED

Description

The `COMMAND_FILE_ENCRYPTED` option specifies the ddname / file name of a data set / file containing encrypted values for command line option parameters.

Command files specify an additional source of command line options. Storing options in a file can be used in situations where it is not desirable to explicitly specify them on the command line. The options read from the file are processed exactly like options specified on the command line. The options must be in their respective command line formats.

UECLoad can process command files that are either encrypted or in plain text (see the [COMMAND_FILE_PLAIN](#) option). Encrypted command files are an excellent place to store sensitive data such as user IDs and passwords. Command files (encrypted or not) that contain sensitive data should be protected from unauthorized read access with a security system, such as RACF.

Use the Universal Encrypt utility provided with Universal Command to encrypt a plain text command file. (For information on Universal Encrypt, see the Universal Products Utilities 4.1.0 User Guide). If a key was used to encrypt the file, the same key must be supplied using the [ENCRYPTION_KEY](#) option.

Note: If a data set / file is specified in this option, it should not be specified additionally in the [COMMAND_FILE_PLAIN](#) option. If it is, the data set / file specified in [COMMAND_FILE_PLAIN](#) will be used.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-x <i>ddname</i> or <i>filename</i>				✓	✓
Command Line Option, Long Form	-encryptedfile <i>ddname</i> or <i>filename</i>				✓	✓
Environment Variable	n/a					
Definition File Keyword	n/a					

Value

filename is the name of the file containing the encrypted command parameter values.

3.13 COMMAND_FILE_PLAIN

Description

The `COMMAND_FILE_PLAIN` option specifies the ddname / file name of a data set / file containing plain text values for command line option parameters.

Command files specify an additional source of command line options. Storing options in a file can be used in situations where it is not desirable to explicitly specify them on the command line. The options read from the file are processed exactly like options specified on the command line. The options must be in their respective command line formats.

UECLoad can process command files that are either in plain text or encrypted (see the [COMMAND_FILE_ENCRYPTED](#) option). It is strongly recommended that plain text files be further protected from unauthorized access using a native operating system security method, such as RACF.

Note: If a data set / file is specified in this option, it should not be specified additionally in the [COMMAND_FILE_ENCRYPTED](#) option. If it is, the data set / file specified in `COMMAND_FILE_PLAIN` will be used.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-f <i>ddname</i> or <i>filename</i>				√	√
Command Line Option, Long Form	-file <i>ddname</i> or <i>filename</i>				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Value

filename is the ddname / file name of the data set / file containing the parameters and their values.

3.14 DELETE

Description

The DELETE option specifies that the action being taken is the deletion of Broker definitions in the UEC database.

Valid actions are [ADD](#), [DELETE](#), [EXPORT](#), and [LIST](#). Only one action can be specified at any one time.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-delete				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Values

(There are no values associated with DELETE.)

3.15 ENCRYPTION_KEY

Description

The ENCRYPTION_KEY option specifies the key used to encrypt the command file specified by the [COMMAND_FILE_ENCRYPTED](#) option.

This key acts much like a password for the encrypted command file in that it can be used to protect the file from decryption by unauthorized users.

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, or the decryption will fail. If no key is specified, the default key is used.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-K <i>key</i>				√	√
Command Line Option, Long Form	-key <i>key</i>				√	√
Environment Variable	UCMDKEY= <i>key</i>					
Definition File Keyword	n/a					

Value

key is the key used to encrypt the command file.

3.16 END_TIME

Description

The END_TIME option specifies the ending date and time selection criteria of the export of the UEC events database table.

Note: END_TIME is required when the `-export EVENTS` action is used (see Section [3.17 EXPORT](#)).

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	<code>-e <i>enddate</i>[,<i>endtime</i>]</code>				√	√
Command Line Option, Long Form	<code>-etime <i>enddate</i>[,<i>endtime</i>]</code>				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Value

enddate must be specified in the following format: YYYY/MM/DD

endtime must be specified in the following format: HH:MM:SS

Upon export, event records can be selected by using an asterisk (*) for the *enddate*.

A rolling date can be specified with an asterisk (*) followed by a negative value (for example, * -2 selects records that were generated prior to two days before the current date). If *endtime* is not specified, a value of 23:59:59 is used.

3.17 EXPORT

Description

The EXPORT option specifies that the action being taken is the export of a UEC database. By default, EXPORT outputs the UEC broker definitions in a format that can be used at a later time as a broker definition file.

Note: Valid actions are [ADD](#), [DELETE](#), [EXPORT](#), and [LIST](#). Only one action can be specified at any one time.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-export [EVENTS]				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Values

EVENTS specifies that the events database table from UEC is exported.

The format of the output is either **XML**, **CSV**, or **ARC** (specified via the [FORMAT](#) option). If the format is not specified, **XML** is used by default.

3.18 EXPORT_DELETE

Description

The EXPORT_DELETE option specifies that the exported records from the UEC events database table are to be deleted upon `-export EVENTS` action (see Section [3.17 EXPORT](#)).

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-export_delete				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Values

(There are no values for EXPORT_DELETE.)

3.19 FORMAT

Description

The FORMAT option specifies the format of the output from the **-export EVENTS** action.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-format <i>format</i>				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Values

format is the format of the output from **-export EVENTS**.

format can be either:

- **XML** Event data is exported as an XML (extensible markup language) document. XML is often used for exchanging data between two systems.
- **CSV** Event data is exported as a CSV (comma separated value) text file. The CSV file can be used by most spreadsheet software, such as Microsoft Excel.
- **ARC** Event data is exported in ARC (archival) format for long-term storage. The exported ARC format data (written in UTF-8) is portable between operating systems with differing code pages.
The purpose of exporting data in the **ARC** format is to back up all UES data. The user must have permission to all Universal Brokers in order to export data for all UES records. This is best accomplished via the I-Management Console application by assigning the **All Agents** group to the user that is performing the UES export archive. (See Section [3.5.2 Assigning Agent Groups to a User](#) in the Universal Enterprise Controller Client Applications 4.1.0 User Guide.)

[Default is XML.]

3.20 HELP

Description

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

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-h				√	√
Command Line Option, Long Form	-help				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Value

(There are no values for the HELP option.)

3.21 LIST

Description

The LIST option specifies that the action being taken is to output current UEC Broker definitions in a user-friendly format.

Valid actions are [ADD](#), [DELETE](#), [EXPORT](#), and [LIST](#). Only one action can be specified at any one time.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	n/a					
Command Line Option, Long Form	-list				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Values

(There are no values associated with LIST.)

3.22 MESSAGE_LEVEL

Description

The MESSAGE_LEVEL option specifies the level of messages to write.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-l <i>level</i>				√	√
Command Line Option, Long Form	-level <i>level</i>				√	√
Environment Variable	UECLLEVEL= <i>level</i>				√	√
Definition File Keyword	n/a					

Values

level indicates either of the following level of messages:

- **trace**
Writes trace messages used for diagnostic purposes (see [Trace Files](#), below).
Note: Use **trace** only as directed by Stonebranch, Inc. [Customer Support](#).
- **audit**
Writes audit, informational, warning, and error messages.
- **info**
Writes informational, warning, and error messages.
- **warn**
Writes warning and error messages.
- **error**
Writes error messages only.

[Default is info.]

Trace Files

Windows

Trace file name is `uecload.trc`. It is created in the working directory of the user who executed `uecload`.

z/OS

Trace file is written to the data set referenced by the `UNVTRACE` ddname.

3.23 START_TIME

Description

The START_TIME option specifies the starting date and time selection criteria of the export of the UEC events database table.

Note: START_TIME is required when the `-export EVENTS` action is used (see Section [3.17 EXPORT](#)).

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	<code>-s <i>startdate</i>[,<i>starttime</i>]</code>				√	√
Command Line Option, Long Form	<code>-stime <i>startdate</i>[,<i>starttime</i>]</code>				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Value

startdate must be specified in the following format: YYYY/MM/DD

starttime must be specified in the following format: HH:MM:SS

Upon export, event records can be selected by using an asterisk (*) for the *startdate*.

A rolling date can be specified with an asterisk (*) followed by a negative value (for example, * -2 selects records that were generated prior to two days before the current date). If *starttime* is not specified, a value of 00:00:00 is used.

3.24 UEC_PORT

Description

The UEC_PORT option specifies the TCP port on which to send the command. UEC must be running and accepting connections on the specified port.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-p <i>port</i>				√	√
Command Line Option, Long Form	-port <i>port</i>				√	√
Environment Variable	UECLPORT= <i>port</i>				√	√
Definition File Keyword	n/a					

Values

port is the TCP/IP port on which to send the command.

port can be specified in either of the following formats:

- Number (for example, **8778**)
- Service name (for example, **ueclload**)

[Default is 8778.]

3.25 USER_ID

Description

The USER_ID option specifies the user identifier that is used to sign on to the UEC.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-u <i>user</i>				√	√
Command Line Option, Long Form	-userid <i>user</i>				√	√
Environment Variable	UECLUSERID= <i>user</i>				√	√
Definition File Keyword	n/a					

Values

user is the user identifier that is used to sign on to the remote computer.

Note: *user* must be a valid user identifier in the UEC database.

3.26 USER_PASSWORD

Description

The USER_PASSWORD option specifies the password for the user identifier that is specified in the [USER_ID](#) option.

The password always is encrypted.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	<code>-w password</code>				√	√
Command Line Option, Long Form	<code>-pwd password</code>				√	√
Environment Variable	<code>UECLPWD=password</code>				√	
Definition File Keyword	n/a					

Values

password is the password for the user identifier.

password must be a valid password for the user identifier in the UEC database.

3.27 VERSION

Description

The VERSION option writes the program version information and copyright.

Usage

Method	Syntax	OS/400	NonStop	UNIX	Windows	z/OS
Command Line Option, Short Form	-v				√	√
Command Line Option, Long Form	-version				√	√
Environment Variable	n/a					
Definition File Keyword	n/a					

Values

(There are no values to be specified for this option.)

Chapter 4

Additional Information

4.1 Overview

This chapter provides additional information related to Universal Enterprise Controller.

[Table 4.1](#), below, identifies this information and provides a link to its location in this document.

Information	Description	Page
Character Code Pages	Character Code pages for use with Universal Enterprise Controller.	103
UTT Files	Universal Translate Table (UTT) files are used to translate between Unicode and the local single-byte code page.	105

Table 4.1 Universal Enterprise Controller - Additional Information

4.2 Character Code Pages

Table 4.2 identifies the character code pages provided by Stonebranch Inc. for use with Universal Products on each supported operating system.

Code Page	CCSID	z/OS	UNIX	Windows	OS/400		HP NonStop
					HFS	LIB	
IBM037	037	✓			✓	✓	
IBM273	273	✓			✓	✓	
IBM277	277	✓			✓	✓	
IBM278	278	✓			✓	✓	
IBM280	280	✓			✓	✓	
IBM284	284	✓			✓	✓	
IBM500	500	✓			✓	✓	
IBM875	875	✓					
IBM1047							
IBM1140	1140	✓			✓	✓	
IBM1141	1141	✓			✓	✓	
IBM1142	1142	✓			✓	✓	
IBM1143	1143	✓			✓	✓	
IBM1144	1144	✓			✓	✓	
IBM1145	1145	✓			✓	✓	
IBM1146	1146	✓			✓	✓	
IBM1147	1147	✓			✓	✓	
IBM1148	1148	✓			✓	✓	
IBM4971	4971	✓					
ISO8859-1	819		✓	✓	✓		✓
ISO8859-2	912		✓	✓	✓		✓
ISO8859-3	913		✓	✓	✓		✓
ISO8859-4	914		✓	✓	✓		✓
ISO8859-5	915		✓	✓	✓		✓
ISO8859-6	1089		✓	✓	✓		✓
ISO8859-7	813		✓	✓	✓		✓
ISO8859-8	916		✓	✓	✓		✓
ISO8859-9	920		✓	✓	✓		✓
ISO8859-10			✓	✓	✓		✓
ISO8859-13	921		✓	✓	✓		✓
ISO8859-14			✓	✓	✓		✓
ISO8859-15	923		✓	✓	✓		✓
PC437	437			✓	✓		

Code Page	CCSID	z/OS	UNIX	Windows	OS/400		HP NonStop
					HFS	LIB	
PC737	737			√	√		
PC775	775			√	√		
PC850	850			√	√		
PC852	852			√	√		
PC855	855			√	√		
PC857	857			√	√		
PC860	860			√	√		
PC861	861			√	√		
PC862	862			√	√		
PC863	863			√	√		
PC864	864			√	√		
PC865	865			√	√		
PC866	866			√	√		
PC869	869			√	√		
PC874	874			√	√		
WIN1250	1250			√	√		
WIN1251	1251			√	√		
WIN1252	1252			√	√		
WIN1253	1253			√	√		
WIN1254	1254			√	√		
WIN1255	1255			√	√		
WIN1256	1256			√	√		
WIN1257	1257			√	√		
WIN1258	1258			√	√		

Table 4.2 Character Code Pages

4.3 UTT Files

Universal Translate Table (UTT) files are used to translate between Unicode and the local single-byte code page.

Operating System	UTT File Location
z/OS	UTT files are members of the PDS allocated to the Broker ddname UNVNLS . <i>codepage</i> specifies the member name.
Windows	UTT files are located in the NLS subdirectory of the installation directory. <i>codepage</i> is the base file name of the UTT file.

Table 4.3 UTT File Locations

Appendix A

Customer Support

Stonebranch, Inc. provides customer support, via telephone and e-mail, for Universal Enterprise Controller and all Indesca / Infitran components.

E-MAIL

All Locations

support@stonebranch.com

Customer support contact via e-mail also can be made via the Stonebranch website:

www.stonebranch.com

TELEPHONE

Customer support via telephone is available 24 hours per day, 7 days per week.

North America

(+1) 678 366-7887, extension 6

(+1) 877 366-7887, extension 6 [toll-free]

Europe

+49 (0) 700 5566 7887



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