

stonebranch

Universal Agent 6.4.x

Maintenance

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Universal Agent 6.4.x Maintenance

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Introduction

Universal Agent 6.4.x consists of a family of components that address distributed systems management and automation. The components are packaged together as product installation packages. Product installation packages are provided for a variety of operating systems and hardware.

Stonebranch provides product maintenance in the form of updated product installation packages that contained the latest maintenance levels of product components. These pages list the product installation package and component maintenance history for Universal Agent 6.4.x.

Product Packaging

Agent components are bundled together into product installation packages, referred to simply as packages in this document. Each package is identified with a package version number and each component within a package is identified with a component version number.

Each package and component maintenance level is identified with a version number (see Versioning, below). The component maintenance level is incremented whenever a new component is made available that contains defect fixes or feature enhancements. A package maintenance level is incremented when a product component within the package changes or the package installation changes.

Package maintenance levels are not necessarily made available for all platforms. Package maintenance may be released for a subset of supported platforms. For example, Universal Agent 6.4.0 for z/OS and UNIX may be at maintenance level 6.4.0.1, but Universal Agent 6.4.0 for Windows may be at 6.4.0.0.

Stonebranch changes product version, release, or modification identifiers at its discretion when it deems an appropriate number of enhancements or capabilities have been introduced to warrant the change.

Versioning

Package version numbers are comprised of four numeric identifiers: version, release, modification level, and maintenance level.

For example, for Universal Agent 6.4.1.0:

- 6 = Version 6
- 4 = Release 4
- 1 = Modification Level 1
- 0 = Maintenance Level 0

Product component version numbers are similar to the package version numbers. Each product component within the package is identified with the same version, release, and modification level as the package, and with a maintenance level that is independent of the maintenance level of the package or other components in the package.

For example, within a Universal Agent 6.4.1.0 package, there could be a Universal Command 6.4.0.0 component:

- 6 = Version 6
- 4 = Release 4
- 0 = Modification Level 0
- 0 = Maintenance Level 0

Packaging Methods

Packaging methods vary among platforms based on the installation conventions and vendor recommendations for the platform. The purpose of this section is to describe the packaging and distribution methods used for the Workload Automation package on its supported platforms.

z/OS	<p>The Universal Agent 6.4.0 package is an SMP/E install consisting of multiple FMIDs. The package is composed of a set of FMIDs for MVS components and a set of FMIDs for UNIX System Services (USS) components. The MVS components are required and the USS components are optional.</p> <p>Maintenance is packaged as a cumulative PTF file containing all available product PTFs for all products within the Workload Automation package.</p>
Windows	<p>All packages are created with the InstallShield Windows packaging tool. The package is installed with Microsoft's Windows Installer (file extension .msi).</p> <p>Product maintenance is packaged as an updated Windows Installer installation package. The installation process upgrades the current install to the latest product maintenance level.</p>
UNIX	<p>There are two installation methods supported on UNIX platforms, both of which are initiated from a Stonebranch script:</p> <ul style="list-style-type: none"> • A system installation uses the UNIX package management system to install the product in vendor-recommended installation directories. • A user mode installation method is performed outside of the UNIX package management system. It allows installation of the product in user-selected directories, and supports multiple installs of differing versions or the same versions of the product. <p>Product maintenance is packaged as an updated installation package. The installation process upgrades the current installation to the latest product maintenance level.</p> <p>UNIX vendor system installation formats are as follows:</p> <ul style="list-style-type: none"> • AIX is packaged in a backup file format (extension .bff) and installed with the AIX installp command. • Sun Solaris is packaged in a Sun software package format and installed with the Sun pkgadd command. • HP-UX is packaged in a HP depot format and installed with the HP swinstall command. • Linux is packaged in a RPM format and installed with the Linux rpm command. • All other UNIX varieties are packaged as compressed tar files and installed with the Stonebranch UNIX installation scripts.
IBM i	<p>The package is an IBM i Licensed Program and installed with the IBM i RSTLICPGM command. By default, all product and dependent product identifiers are installed.</p> <p>Maintenance is packaged as a cumulative PTF file containing all available product PTFs.</p>
HP NonStop	<p>On the HP NonStop platform, Universal Command 2.1.1 product is packaged by itself. No other products are included in the distribution file.</p> <p>The package is installed with a Stonebranch OBEY file.</p> <p>Product maintenance is packaged as an updated installation package. The installation process upgrades the current install to the latest product maintenance level.</p>

Package Maintenance Levels

For detailed information on the maintenance levels of platform-specific Universal Agent packages, see:

- [All Platforms Package Maintenance Levels](#)
- [z/OS Package Maintenance Levels](#)
- [Windows Package Maintenance Levels](#)
- [UNIX Package Maintenance Levels](#)
- [IBM i Package Maintenance Levels](#)
- [HP NonStop Package Maintenance Levels](#)

Component Maintenance Levels

For detailed information on the maintenance levels of individual Universal Agent components, see:

- [Component Maintenance Levels](#)

All Platforms Package Maintenance Levels - Agent 6.4.x

- [Overview](#)
- [Release 6.4.3.0 - June 30, 2018](#)
- [Release 6.4.2.2 - March 23, 2018](#)
- [Release 6.4.2.1 - February 28, 2018](#)
- [Release 6.4.2.1 - February 9, 2018](#)
- [Release 6.4.2.0 - December 31, 2017](#)
- [Release 6.4.1.0 - September 29, 2017](#) ¹
- [Release 6.4.0.1 - July 28, 2017](#)
- [Release 6.4.0.0 - July 19, 2017](#)

Overview

This page identifies the changes made in all Universal Agent 6.4.x maintenance releases, including the initial release, for all supported platforms.

Each change identifies the platform(s) for which it was made.

For a list of changes made to optional Agent 6.4.x packages, such as Universal Command Agent for SOA 6.4.x, see the platform-specific Maintenance Levels pages.

For a list of all changes in a release - all platforms, specific components - see [Component Maintenance Levels](#).



Note

Install changes refer to changes to the programs, scripts, or supporting files used to install the package. There are no changes to the actual product components.


Release 6.4.3.0 - June 30, 2018

Change ID	Platform	Component	Description
B-03530	z/OS	UAGSRV	Reduce dependency on the global LNKLST and allow a STEPLIB to be specified for the OPSSTP00 step which points to UAGRERUN.
B-05053	All	UAGSRV	Make default network provider OMS in UAGSRV configuration.
B-05131	Unix, Windows	UAGSRV	Add automatic path resolution for UCMD, UDM, and USAP when executed from UAG.
B-05140	All	UAGSRV	Remove obsolete options that previously supported message hub and transport components.
B-07082	Unix, Windows	Install	Add option to install to disable UAGSRV execution at Universal Broker startup.
B-07325	z/OS	UAGSRV	Display the UAGRERUN version in the rerun report.

B-08953	All	UDM, UDMSRV	Add support for sleep statement to scripting language.
B-09033	Unix (all, except HPUX), Windows	Install	Bundle a Python3 distribution with the Universal Agent. NOTE: This option is not available for user mode installs.
B-09121	All	UFTP	Add wildcard support for GET/PUT/DELETE commands, allowing them to operate on one or more files.
B-09213	z/OS	UAGSRV, UAGRERUN	Reduce dependency on SMF exits by moving rerun/restart behavior from UAGUJI to UAGRERUN.
B-09240	Unix, Windows	Install	Add ability to set the agent_clusters option in UAGSRV's configuration.
B-09258	All	UFTP	Improve error reporting when an attempt is made to transfer multiple files to a destination that is not a directory.
B-09268	All	UFTP	Remove wildcard requirements for MGET/MPUT/MDELETE commands, allowing them to operate on single files.
B-09287	Unix, Windows	UPPS	Stop WAITing for a job and consider item complete when its distribution status is NA and it has a runtime status of Cancelled.
B-09298	Unix, Windows	UPPS	Add agent support for the Controller's new PeopleSoft task type.
B-09304	Unix	UAGSRV	Add the -bif_directory option to the command line for spawned UCMD, UDM, UFTP, and USAP tasks to ensure components executed from a user mode install register with the correct local Broker.
B-09338	z/OS	UAGSRV, UAGRERUN	Improve sequential dataset cleanup for reruns/restarts.
B-09340	z/OS	UAGSRV, UAGRERUN	Improve GDG dataset cleanup when a z/OS task is rerun/restarted.
B-09349	z/OS	UBROKER	Create external links to UCMD Manager and USAP from Broker to support z/OS 2.3 requirements.
B-09354	Unix, Windows	UFTP	Increase maximum allowable packet size for SFTP transfers.
B-09384	Unix, Windows	OMSSRV	Refresh message level for OMS Server in response to a UCTL refresh command.
B-09386	Unix, Windows	OMS Client	Improve diagnostic information collection in the OMS Java client, which exchanges messages between an OMS Server and the Controller.
B-09418	Unix, Windows	Install	Add ability to set the agent_ip option in UAGSRV's configuration.
B-09469	z/OS	UAGRERUN, UAGUJI	Move skip step and step list processing from UAGUJI SMF exit to UAGRERUN, along with restartable/non-restartable step eligibility and dataset deletion criteria. This change effectively deprecates UAGUJI, which is no longer provided in the z/OS delivery.
B-09481	Unix, Windows	UPPS	Add ability to retrieve Output Destination Format options.
B-09508	All	UDM, UDMSRV	Add session attributes ostype and casesensitive attributes to provide OS and file system information.

D-06562	All	UDM, UDMSRV	Wildcard token parsing from a forfiles loop does not always honor the file system's case sensitivity rules.
D-08988	Unix	UAGSRV	Fixes behavior where a file monitor task may stop monitoring or fail under heavy load or unusual circumstances.
D-09000	z/OS	UCERT	Fix revocation date value when printing a CRL from z/OS.
D-09069	z/OS	UAGSRV	Correct "Missing command option prefix character" error on z/OS when commands exist in the Additional FTP Commands field of an FTP File Monitor task.
D-09102	Windows	UAGSRV	Fix a problem where a System Monitor executed on Windows may not authenticate specified task credentials correctly.
D-09212	All	UFTP	Prevent exception if user does not have access to the local source directory when executing an (M)PUT command.
D-09122	All	UCMD, UCTL, UDM, UDMSRV, UEM, UFTP	Fixes a situation in which Universal Encrypted files may be left open after decryption. Such files are now closed immediately after decryption.
D-09127	z/OS	UAGSRV	Prevent creation of an empty DSN exclude list if no datasets are specified for exclusion from dataset cleanup upon a rerun/restart.
D-09174	Unix, Windows	UAGSRV	Fix a problem where FTP file monitors may not honor the specified polling time.
D-09237	Windows	UBROKER	Create a ubroker.shd file at shutdown to allow a Universal Broker service to restart even if ubroker.pid file was not deleted by previous instance.
D-09262	z/OS	UAGCMDZ	Fix a problem where a uencrypted command file is not recognized when prefixed by 'dd:'. The 'dd:' prefix is now optional when specified with the -x command line option.

Release 6.4.2.2 - March 23, 2018

Change ID	Platform	Component	Description
B-09118	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	USAP	Modify USAP "generate job definition" command to generate an XBP 3.0 style spool list recipient.
B-09251	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	USAP, UAGSRV	Run an SAP Model Job and Generate an SAP Job Definition without providing a Jobcount ID. <div style="background-color: #ffffcc; padding: 10px; border: 1px solid #ccc;"> <p> Note Only the version number changed for UAGSRV, to support integration with a new feature delivered for the Universal Controller SAP task type (see B-09299 in the Universal Controller 6.4.x Maintenance).</p> </div>
D-09063	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	USAP	XBP 2.0 style spool list recipient does not get defined properly from USAP job definition.
D-09139	z/OS	UAGSRV	Correct an issue that may cause UAGSRV to ABEND when a large job is submitted for rerun.

Release 6.4.2.1 - February 28, 2018

Change ID	Platform	Component	Description
B-09090	Unix (Linux)	Install	Deliver RPM package for PowerPC (Little Endian) port of Universal Agent.

Release 6.4.2.1 - February 9, 2018

Change ID	Platform	Component	Description
B-09082	Windows	Install	Remove delivery of Microsoft VisualC++ 2005 runtime libraries, which have been superseded by the 2010 runtimes.
B-09094	Windows	Install (user mode only)	Update interface to ubsvc.bat with -start, -restart, and -status options.
D-08901	z/OS	UAGSRV, UFTP	Convert LOCSITE options passed via the z/OS subcommand field to UFTP-specific options.
D-09064	Unix, Windows	UFTP	(M)DELETE and (M)GET with move fail when remote relative path is specified for an SFTP file transfer task.
D-09067	Unix, Windows, z/OS	UFTP	When the file path specified by the -src option contains no trailing slash, its LIST output differs from the output shown when the trailing slash is specified.
D-09068	Windows	Install (user mode only)	Ensure that UCMD, UDM, UFTP, and USAP always register with the correct local Universal Broker when executed via a Controller task on a user mode-installed Agent.
D-09082	Unix (AIX)	Install	AIX upgrade fails because of existing an ./archive1/.archive1 directory.
D-09087	Windows	UAGSRV	An application monitor that executes with credentials could cause UAGSRV to crash.
D-09089	Unix, Windows	UAGSRV	If the command line options that UAGSRV sends over STDIN to execute a Universal Command or Universal Connector for SAP are unexpectedly written to STDERR, a password in plain text may be exposed.
D-09096	Unix, Windows, z/OS	UFTP	Do not treat a CURLE_PARTIAL_FILE (18) return code value as a failure when it is accompanied by a server return code of 450.
D-09097	z/OS	UFTP	Accept FTP server passwords up to 255 characters when a z/OS UFTP client is executed via a File Transfer task.

Release 6.4.2.0 - December 31, 2017

Change ID	Platform	Component	Description
B-05451	Windows	Install	Add ability to install multiple agent instances on Windows using a new user-mode install package.
B-06263	z/OS	UAGSRV	Add support for job classes up to 8 characters.
B-07295	Unix, Windows	UAGSRV, UFTP	Add support for passphrase-protected SSH keys to UFTP.
B-08533	All	UCERT	Add ability to generate certificate requests with a version of 3 and exponent of 65537.
B-08534	All	UCERT	Allow an existing private key to be used when creating certificate request.
B-08563	Unix (Linux RPM), Windows	UPPS	Allow Submit Command options to be specified from the command line and a definition file.
B-08592	z/OS	UCMD	Add ability to scrub IBM Tivoli Workstation variables (specified with <code>/**%OPC</code>) from scripts executed via UCMD. Other patterns may also be scrubbed using the <code>script_line_ignore_mask</code> option.
B-08786	Unix	Install	Remove <code>ops_sshpwd</code> from the Unix install packages .
B-08852	z/OS	UAGSRV	Make UAG aware of other UAG instances in the Sysplex.
B-08853	All	UCERT	Accept key sizes greater than 2048. 3072 and 4096 are now supported.
B-08855	All	UFTP	Make the trailing slash optional when issuing a LIST command against a directory.
B-08909	Unix	UAGSRV	Do not use (or try to use) a login shell if the user id in a task's credentials starts with '-'.
B-08961	All	UAGSRV	Add ability for agent to support passwords up to 512 characters in length.
B-09076	All	UFTP	Add additional return code values from libcurl operations to improve problem diagnosis.
D-03338	z/OS	UCMDSRV	Fixes a problem where UCMDSRV allocates a new EMCS console with each instance, causing EMCS consoles to be over time. UCMDSRV will now attempt to reuse a EMCS console name before allocating a new one.
D-06417	Windows	UAGSRV	CPU utilization not transferred from Windows agents.
D-06979	z/OS	UAGSRV	Remove an extra MSGCLASS keyword from the JOB statement when New Jobname is specified in the z/OS task.
D-07169	Unix, Windows z/OS	UAGCMD UAGCMDZ	Add support for TLS 1.2 sessions and cipher suites.
D-07315	All	UCERT	Add support for MD5, SHA-256, SHA-384, and SHA-512 signature algorithms. SHA-1 is still supported, and is the default.
D-08672	z/OS	UAGSRV	Improve detection of NOT CATLGD 2 errors via additional support for post-execution errors.
D-08760	All	UAGSRV	Add "UFTP login failed" to task instance description when file transfer task fails due to login error.
D-08778	All	UAGSRV, UFTP	Fix error in file transfer/FTP file monitor tasks when part of the path is enclosed in double quotes.
D-08907	All	UFTP	SFTP transfer fails with exit code 79, "generic error reported from the SSH layer".
D-08955	z/OS	UAGSRV	Improve handling of CA-7 #JO JCL omit statement.

D-08958	Unix, Windows	USAP	USAP variant modification command fails.
D-08965	Unix, Windows	UAGSRV	Double slash in the URL in between the host name and the path causes the "No such file or directory" error on some of SFTP servers.
D-08978	z/OS	UAGSRV	Improve post-execution error handling so that NOT CATLGD 2 on GDG does will result in a JCL error being reported for the task.
D-08980	ALL	UFTP	The -src option for the LIST command should be optional. When no path is specified for the -src option, the contents of the user's home directory or server's rooted location is shown.
D-08981	Unix, Windows	UFTP	Return a file's path when executing a list so Controller variables are populated correctly when an SFTP file monitor executes.
D-08984	All	UCERT	Add ability to specify SHA-1, SHA-256, SHA-384, or SHA-512 signature algorithms when creating a CRL.
D-08985	All	UCERT	Add support for configurable encryption for transport files.
D-08989	All	UAGSRV	If a task is submitted with a valid credential that contains a password of exactly 40 characters, the task will complete successfully although the command is not run.
D-08994	z/OS	UAGUJI	When SWA=ABOVE is configured for an initiator on zOS 2.1 ,UAGUJI can receive ABEND 0B0-24 after calling SWAREQ.
D-08996	Unix (AIX)	Install	AIX permissions for sample def files have wrong filesystem permissions.
D-08999	All	UFTP	Multi-line FTP server responses not handled by command callbacks.
D-09012	All	UCERT	Revoke reason privilegeWithdrawn is misspelled. Corrected to accept privilegeWithdrawn.
D-09017	All	UCERT	Incorrect Revocation Reasons in CRL.
D-09021	Unix (Solaris SPARC)	Install	Require SUNW_1.3.1 patch level for libxnet.so.
D-09028	All	UCERT	Unspecified Revoke Reason SHOULD be absent instead of using the unspecified (0) reasonCode value.
D-09029	All	UCERT	Misspelled revocation reasons "affiliationChange" and "privilegeWithdrawn" are accepted.

Release 6.4.1.0 - September 29, 2017 ¹

Change ID	Platform	Component	Description
B-06846	UNIX (AIX)	Install	Replace installp-based installation with RPM package .
B-07133	UNIX, Windows	OMS	Add MAX_CONNECTIONS configuration option to support up to 30,000 concurrent connections to the OMS Server.

B-08469	z/OS	UAGSRV, UAGU83, UAGU84, UAGUJI, UAGUJV, UAGUSI, UAGUTIL	Collect tracking data for jobs started from a Universal Controller z/OS task that will be used to preserve and recover status information in the event of a UAGSRV shutdown.
B-08611	All	UAGSRV	Add ability to bind the agent's OMS socket to a specific IP address.
D-08621	Windows	UAGSRV	Add support for new Create Console option available for Windows tasks starting with Universal Controller 6.4.2.0. This option can be used to improve capture of standard I/O from console processes launched on the Windows interactive desktop.
D-08755	UNIX, Windows	UFTP	Fix an error that may cause UFTP to fail when using symbolic links to reference source files in an MGET operation over SFTP.
D-08763	UNIX, Windows	UAGSRV	Do not fail execution of a script from a UNIX or Windows task if the first line of the script is empty.
D-08769	UNIX	Install	Update user-mode install to set the keystore_path option in ubroker.conf to the correct location within the local install path.
D-08781	UNIX	UAGSRV	Prevent an ops_monitor crash when a File Monitor task is cancelled.
D-08797	UNIX	Install	User-mode install fails if /tmp is mounted with noexec option.
D-08801	UNIX	UAGSRV	Ensure zlib library is statically linked (at build time) to avoid runtime dependency errors on systems where it is not installed.
D-08821	All	UAGSRV	If an SFTP File Transfer task uses stored credentials that does not have a password stored for, make sure the -pwd option is not part of the UFTP command line built by UAGSRV.
D-08822	UNIX, Windows	UFTP	Start an SFTP transfer session in the remote user's HOME directory, instead of the top of the file system.
D-08823	UNIX	UFTP	Fix "stat failed: (75) Value too large for defined data type" that may occur when retrieving files from a CIFS-mounted location.
D-08877	Windows	UAGSRV, UCMDSRV, UEMSRV	Prevent "CSProcessCreate failed: An attempt was made to reference a token that does not exist" errors.
D-08884	z/OS	UAGSRV	Fix problem that prevents UFTP from launching when the Broker's configured system_id value is blank.

¹ The 6.4.1.0 Agent for z/OS package was delivered October 18, 2017.

Release 6.4.0.1 - July 28, 2017

Change ID	Platform	Component	Description
D-08710	UNIX, Windows	UFTP	Fix issue that prevents SFTP connection when key exchange is negotiated down to Diffie-Hellman Group Exchange with SHA1.
D-08733	UNIX, Windows	UFTP	Fix issue that may prevent an SFTP file monitor task from correctly recognizing an existing file.

Release 6.4.0.0 - July 19, 2017

Change ID	Platform	Component	Description
B-02384	AIX, Linux x64 (RPM package), Windows, z/OS	UDM UDMSRV UDMMCENG	Add ability to authenticate Broker's certificate . Previously delivered as B-06011 in 6.3.0.1.
B-02897	z/OS	All	Add support for mixed case passwords.
B-03348	All	USAP	Add ability to export SAP Factory and Holiday calendars.
B-05351	All	UFTP	A new Universal FTP client component is available that executes for FTP file monitor and FTP file transfer tasks submitted from the Controller. Note: This is a complete replacement for native FTP client execution (and the Cygwin client provided for Windows agents). The client supports FTP,SFTP,FTPS, and TFTP protocols. It is also installed as a stand-alone component, which may be executed from the command line or z/OS job.
B-05691	AIX, Linux x64 (RPM package), Windows, z/OS	USAP USPMCENG	Provide improved client fault tolerance for SAP process chains . Previously delivered as B-06010 in 6.3.0.1.
B-05922	AIX, Linux x64 (RPM package), Windows	UBROKER UCMD UCMSRV UCTL UCTSRV UDM UDMSRV UEM UEMSRV UQUERY	Turn off world-readable flag for application configuration and log files. Previously delivered as B-05827 in 6.3.0.1.
B-05923	AIX, Linux x64 (RPM package), Windows, z/OS	UENCRYPT	Create new files using defaults of AES256 encryption and an expanded 32-bit key. Previously delivered as B-05825 in 6.3.0.1.

B-05924	All	OMSSRV, UAGSRV	Add support for TLS 1.2 protocol Previously delivered as B-05907 in 6.3.0.2.
B-05925	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	UBROKER, UCMD, UCMSRV, UCTL, UCTSRV, UDM, UDMSRV, UEM, UEMSRV, UCMMCENG, UCTMCENG, UDMMCENG, UEMMCENG, USSMCENG	Add support for TLS 1.2 ciphers , AES256-GCM-SHA384 and AES128-GCM-SHA256. Previously delivered as B-05829 in 6.3.0.1.
B-05926	AIX, Linux x64 (RPM package), Windows, z/OS	UDM UDMSRV UDMMCENG	Protect against interception of sensitive information during user authentication . Previously delivered as B-05826 in 6.3.0.1.
B-05927	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	UBROKER, UCERT, UCMD, UCMSRV, UCTL, UCTSRV, UDM, UDMSRV, UEM, UEMSRV, UQUERY	Add support for TLS 1.2 protocol . Previously delivered as B-05040 in 6.3.0.1.
B-05928	All	All	Universal Broker Keystore feature that allows a default key to be stored for Universal Encrypted command files.
B-05983	All	USAP USPMCENG	Add new configuration option, ENABLE_JOB_STATUS_CHECK , to enable/disable calls to BAPI_XBP_JOB_STATUS_CHECK. Previously delivered as B-06503 in 6.3.0.3.

B-05990	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	UBROKER, UCMD, UCMSRV, UCTL, UCTSRV, UDM, UDMSRV, UEM, UEMSRV, UCMMCENG, UCTMCENG, UDMMCENG, UEMMCENG, USSMCENG	Add <code>MIN_SSL_PROTOCOL</code> configuration option to manage TLS application protocol support. Previously delivered as B-05991 in 6.3.0.1.
B-06012	AIX, Linux x64 (RPM package), Windows, z/OS	USAP USPMCENG	Provide ability to release intercepted <code>child jobs</code> . Previously delivered as B-06017 in 6.3.0.1.
B-06027	All	UENCRYPT	Add <code>"legacy"</code> option to <code>-aes</code> parameter to generate encrypted command files compatible with pre-6.3.0.1 versions of Universal Encrypt. Note: Previously delivered as B-06028 in 6.3.0.1.
B-06115	z/OS	UBROKER	Issue a clear error message at startup if the UNV load library is not APF authorized instead of failing with an S047 ABEND.
B-06165	UNIX	OMS	Increase the maximum number of allowable <code>TCP/IP connections</code> . Previously delivered as B-04195 in 6.3.0.2.
B-06176	z/OS	UBROKER, UCMD, UCTL, UDM	Enable TLS 1.2 protocol and cipher support for SystemSSL.
B-06252	All	UDM	Update UDM Manager <code>DATA_COMPRESSION</code> configuration option with new force parameter (that is, compress,force) to allow UDM Managers to override Server-configured compression. Previously delivered as B-06253 in 6.3.0.2.
B-06258	z/OS	UDM, UDMSRV	Add support for <code>ASA control character</code> conversion/formatting. Previously delivered as B-03155 in 6.3.0.2.
B-06491	All	UDM UDMSRV UDMMCENG	Add milliseconds value to <code>built-in variables</code> for access, create, and modify file timestamps. Previously delivered as B-04648 in 6.3.0.3.

B-06501	All	UAGSRV UAGMCENG	<p>Add support for new resolvable script Credential Functions: <code>\$_credentialUser('<credential-name>')</code> and <code>\$_credentialPwd('<credential-name>')</code>.</p> <p>Note: This feature requires Universal Controller 6.4.0.0 and later.</p> <p>Previously delivered as B-06427 in 6.3.0.3.</p>
B-06720	AIX	All	<p>Port Universal Agent to 64-bit for AIX.</p> <p>Note: For Universal Connector for SAP users, this change also adds a dependency on the NetWeaver RFC libraries, which must exist on your system.</p>
B-06721	Solaris SPARC	All	<p>Port Universal Agent to 64-bit for Solaris SPARC.</p> <p>Note: For Universal Connector for SAP users, this change also adds a dependency on the NetWeaver RFC libraries, which must exist on your system.</p>
B-06854	All	OMS, UBROKER, UCMD, UCMSRV, UCTL, UCTTSRV, UDM, UDMSRV, UEM, UEMSRV	<p>Add <code>msg_suppression_list</code> option to filter unwanted messages (e.g., UNV0193W, which warns of deprecated SSL ciphers).</p>
B-06882	z/OS	UAGSRV	<p>Check which UAGSRV SMF exits are loaded at startup and report any that are not loaded.</p>
B-06895	z/OS	UAGSRV, UAGUJI	<p>Re-enable support for accessing SWA control blocks above the line on z/OS 2.2 or higher.</p> <p>Note: This updates a change delivered for D-06720 in 6.3.0.3, which required SWA control blocks to be below the line.</p>
B-06909	z/OS	UBROKER	<p>Update the <code>APPL=UAG,STATUS MODIFY</code> command to display version information instead of build dates for UAGSRV SMF exits.</p>
B-06931	Windows	Install	<p>Remove support for Windows XP, Server 2003, and Server 2008. Only allow installs on Windows 7 and Server 2008 R2 and higher.</p>
B-06934	z/OS	Install	<p>Provide a z/OS distribution file in .zip file format.</p>
B-06956	z/OS	UAGSRV UAGUJI UAGUJV	<p>Extend timeouts for acquiring exclusive access to the JSC dataset ENQUEUE.</p> <p>Previously delivered as B-07352 in 6.3.0.6.</p>
B-06959	z/OS	Install	<p>Update packaging to simplify distribution file uploads and handling.</p> <p>Note: Be sure to read the updated z/OS Installation instructions in the Universal Agent user documentation before installing 6.4.0.0 on z/OS.</p>
B-06974	z/OS	UAGSRV	<p>Extend timeouts for JME creation when launching a z/OS task.</p> <p>Previously delivered as B-07353 in 6.3.0.6.</p>
B-06979	Unix, Windows	UAGSRV	<p>Provide Universal Agent support for executing scripts stored as data objects in the Controller.</p>
B-07046	z/OS	UBROKER	<p>Add <code>shared_mount_point</code> and <code>shared_mount_point_mode</code> configuration options to support shared UNV databases in sysplex environment.</p>
B-07243	All	UDM, UDMSRV	<p>Enhance the RDW attribute to process files on non-z/OS systems that contain a 4-byte Record Descriptor Word (RDW) at the start of each record.</p>

B-07310	Windows	UAGSRV, UCMD	<p>Re-introduce support to execute GUI applications when the Interact with Desktop option is enabled in task definitions, component configurations, and the Universal Broker service definition.</p> <p>Note: This support was re-enabled for Windows versions that support desktop isolation for services. The task will execute in the interactive console session, using the credentials of the user logged into that session.</p>
D-04333	AIX, Solaris SPARC, z/OS	USAP	<p>Prevent XBP 3.0 Create Variant operation failure when SAP note 1144882 has been applied to system.</p> <p>Previously delivered as D-06679 in 6.3.0.2.</p>
D-05829	Unix	Install	<p>Make sure usermode installs set correct installation paths in configuration files.</p>
D-05850	Unix	UAGSRV	<p>Allow SFTP server port to be overridden when password-based authentication is used with SFTP File Transfer tasks.</p> <p>Previously delivered as D-06782 in 6.3.0.3.</p>
D-06380	Unix	UDM UDMSRV	<p>Display correct version information for UDM Server.</p> <p>Previously delivered as D-06379 in 6.3.0.3.</p>
D-06381	AIX, Linux x64 (RPM package), Windows z/OS	UAGCMD UAGCMDZ	<p>Generate unique names for trace files.</p> <p>Previously delivered as D-06382 in 6.3.0.1.</p>
D-06387	All	UAGSRV	<p>Clean up temporary script files created by SAP tasks.</p> <p>Previously delivered as D-06888 in 6.3.0.3.</p>
D-06405	AIX, Linux x64 (RPM package)	UAGSRV	<p>Allow concurrent File Monitor instances to search for files using regular expressions that contain a comma.</p> <p>Previously delivered as D-06406 in 6.3.0.1.</p>
D-06413	AIX, Linux x64 (RPM package), Windows, z/OS	UBROKER	<p>Prevent Broker crash when it receives a specially-crafted malformed header.</p> <p>Previously delivered as D-06367 in 6.3.0.1.</p>
D-06413	All	UBROKER USSMCENG	<p>Protect initial handshake message protocol from malicious payloads.</p> <p>Previously delivered as D-06885 in 6.3.0.3.</p>


D-06436	z/OS	UAGSRV	Prevent possible S0C4 during variable substitution. Previously delivered as D-06437 in 6.3.0.1.
D-06439	z/OS	UAGSRV	Tasks may stay in Submitted state after failing with a JCL error. Previously delivered as D-06440 in 6.3.0.1.
D-06442	z/OS	UAGSRV	Prevent jobnames that start with IEFC from falsely reporting a JCL error. Previously delivered as D-06443 in 6.3.0.1.
D-06448	Windows	UAGSRV	DELETE File Monitors succeed when file's owner does not match the value of the task's File Owner field. Previously delivered as D-06306 in 6.3.0.1.
D-06455	z/OS	UAGSRV	Fix behavior that allows the Job Submission Checkpoint (JSC) dataset to contain duplicate keys, resulting in z/OS tasks that stay in Submitted status. Previously delivered as D-06456 in 6.3.0.1.
D-06460	Windows	UAGSRV	Add ERROR_NETNAME_DELETED as a retry condition for File Monitor fault tolerance. Previously delivered as D-06487 in 6.3.0.1.
D-06467	UNIX	UAGSRV	Make sure all error information is reported for an EXISTS File Monitor task that fails because the path name specified in the task Details does not exist. Previously delivered as D-06468 in 6.3.0.3.
D-06558	z/OS	UAGSRV	Fix error that prevents return of job output to original MSGCLASS when the UAG JES_SYSOUT_DISP configuration option value is RELEASE,*. Previously delivered as D-06559 in 6.3.0.2.
D-06591	All	UDM	Add a message to display the value of the DATA_COMPRESSION configuration option following UDM Manager/Server session negotiation. Previously delivered as D-06592 in 6.3.0.2.
D-06606	z/OS	UAGSRV	Ensure that JCL statements are padded with blanks instead of NULLs. Previously delivered as D-06547 in 6.3.0.2.
D-06664	z/OS	UBROKER, UCMD, UCTL, UDM	Get default label from key ring if no value is specified for saf_key_ring_label when using System SSL.
D-06720	z/OS	UAGUJI, UAGUJV	Prevent possible abend when encountering SWA control blocks that reside above the bar. Previously delivered as D-06721 in 6.3.0.2.
D-06726	Windows	UAGSRV	Prevent a situation that may result in a "CSPProcessCreate: The system cannot find the file specified" error when several Windows tasks that execute scripts with user credentials are launched at once. Previously delivered as D-07296 in 6.3.0.6.

D-06728	z/OS	UAGSRV	Prevent possible S0C4 in UAGSRV function WjssLocalJmeDelete(). Previously delivered as D-06751 in 6.3.0.2.
D-06729	All	UDM, UDMSRV	Set error return code when the length of a file's records exceeds a z/OS datasets's allocated record length . Previously delivered as D-05880 in 6.3.0.2.
D-06736	All	UDM UDMSRV	Correct problem trimming spaces from very long records. Previously delivered as D-06803 in 6.3.0.3.
D-06745	All	UDM, UDMSRV	Fix conversion error that may occur when creating a session using UTF-8 or UTF-16 codepages. Previously delivered as D-01721 in 6.3.0.2.
D-06748	All	UBROKER	Improve authentication of message parameters sent during a session negotiation's handshake. Previously delivered as D-06774 in 6.3.0.2.
D-06760	z/OS	UAGSRV	Reduce CPU utilization.
D-06780	All	UDM UDMSRV	Make sure memory allocation errors that occur when a large ACK_WINDOW value is used when NFT is disabled are reported prior to UDM failure. Previously delivered as D-06781 in 6.3.0.3.
D-06830	z/OS	UAGSRV, UAGUSI	Fail task if all steps FLUSH on rerun because of a JCL COND=(0,NE) statement. Note: Previously delivered as D-05592 in 6.3.0.3.
D-06835	AIX, Solaris SPARC, z/OS	USAP	Handle FAILED exception from RSPC_API_CHAIN_GET_PROCESSES function. Previously delivered as D-06838 in 6.3.0.2.
D-06864	UNIX, Windows	UAGSRV	File Monitor tasks that end with a Failed status do not always end with non-zero exit codes. Previously delivered as D-06511 in 6.3.0.3.
D-06865	Windows	Install	Mask passwords displayed by Stonebranch trace functions in install log . Previously delivered as D-06846 in 6.3.0.3.
D-06877	z/OS	UAGUJI	Change wait for JSC ENQUEUE to 15 seconds to avoid possible resource contention when multiple agents are running. Note: Previously delivered as D-06940 in 6.3.0.3.
D-06887	UNIX (except AIX and Solaris SPARC), Windows	USAP	Handle RFC timeouts during calls to RSPC_API_CHAIN_GET_STATUS. Previously delivered as D-06837 in 6.3.0.3.

D-06892	All	USAP	Use Universal Connector GROUP configuration option instead of mshost value for RFC GROUP connection parameter. Previously delivered as D-06893 in 6.3.0.3.
D-06908	z/OS	UAGSRV	Make sure jobs that end with S822 are reported correctly to Universal Controller. Previously delivered as D-06909 in 6.3.0.3.
D-06919	z/OS	UDM UDMSRV	Do not fail conversion of an FBA dataset that starts with an ASA form feed character. Previously delivered as D-06920 in 6.3.0.3.
D-06937	Unix	UAGSRV	Filter out directory entries when executing an EXIST or a MISSING file monitor task with a pattern of "" on HPUX and Solaris agents. Note: Previously delivered as D-06938 in 6.3.0.3.
D-06944	Unix, Windows	UAGSRV	Encrypt sensitive data that is stored in the *_job jobtrack cache files. Note: Previously delivered as D-06945 in 6.3.0.3.
D-06946	Unix	UAGSRV	Prevent possible UAGSRV crash when executing scripts via Linux/Unix tasks when data scrubbing is enabled. Note: Previously delivered as D-06947 in 6.3.0.3.
D-06964	All	UAGSRV	Masking of sensitive values (i.e., resolved variables replaced with ****) may prevent stdout or stderr from being returned to the Controller. Note: This change was previously delivered as D-06965 in 6.3.0.3.
D-06999	z/OS	UAGUJI	Do not retain catalog information for new GDGs and other sequential datasets that did not get created in a job's initial run. Previously delivered as D-05719 in 6.3.0.3.
D-07008	Unix, Windows	UAGSRV	Don't include directories as part of results when executing file monitor tasks with regular expressions.
D-07046	Unix, Windows	OMS	A 6.3 OMS Server may reject session negotiation attempts from the Controller.
D-07098	All	UAGSRV	A Universal Agent task that executes a script which calls the <code>\$_credentialPwd()</code> function may fail.
D-07107	All	UDM, UDMSRV	Connection to pre-6.3 UDM Server fails if connection was already made to a 6.3 UDM Server earlier in the same script.
D-07130	Unix	Install	Make case conversion of character strings more portable in install script.
D-07135	Unix	Install	Make function implementation more portable.
D-07136	z/OS	UDM, UDMSRV	UDM fails to create UTF16-encoded dataset on z/OS. Previously delivered as D-07145 in 6.3.0.4.
D-07144	z/OS	UAGSRV	Make sure an EXISTS file monitor task executed on a z/OS agent updates the status description correctly.
D-07158	Unix	Install	Prevent values specified for UserName and GroupName command line arguments from being overridden in script.

D-07164	z/OS	UDM, UDMSRV	UDM reports 0 (zero) files transferred when a move attempted within a loop succeeds upon retry of a failure.
D-07176	All	UAGSRV	Make sure the agent returns content from the end of available output when issuing an output retrieval request from the Controller starting at line -1.
D-07193	Windows	UAGSRV	File Monitors may go to Start Failure on AD Controller reboot/switchover. Previously delivered as D-07194 in 6.3.0.4.
D-07200	UNIX	UAGSRV	Tasks with UACL fail with "CSProcessCreate failed: KrnProcessCreate" if the Agent is running as root. Previously delivered as D-07201 in 6.3.0.4.
D-07221	z/OS	UAGUJI	Make sure SKIPST parameters specified for z/OS tasks correctly skip steps that execute PROCs. Previously delivered as D-07564 in 6.3.0.6.
D-07239	Unix, Windows	UAGSRV	Correct memory leaks that may occur during heavy file monitor activity.
D-07243	Unix	UAGSRV	Prevent PAM authentication error in file monitor tasks when agent is installed as root.
D-07244	All	UDM UDMSRV	Ensure that UDM does not write duplicate data to output file following successful NFT recovery. Previously delivered as D-07295 in 6.3.0.4.
D-07248	Unix	UAGSRV	CHANGE file monitors may not detect new files that are created after the task started.
D-07259	z/OS	UAGUJI	Fix a problem that prevents steps containing a DD statement which specifies DSN=NULLFILE to be selected for restart . Previously delivered as D-07563 in 6.3.0.6.
D-07268	AIX	UBROKER	The runtime value the Broker uses for its running_max configuration option may be reset to a negative value, based on OS file descriptor limits. This fix prevents that from occurring.
D-07275	AIX	USAP	Prevent attempts to allocate zero bytes of memory to prevent "Resource temporarily unavailable" failure.
D-07288	Unix	UAGSRV	Execute Universal Command, UDM file transfer, and USAP tasks correctly even when application isn't in system path.
D-07316	Unix, Windows	UAGSRV	File monitor tasks that contain an improperly coded regular expression do not notify the user of the error.
D-07317	Unix	Install	Fix a problem in unvinst script that could prevent it from stopping an active ubrokerd process.

D-07333	z/OS	UAGSRV, UAGUJI	<p>Fix a problem that prevents steps that require subsequent steps from being skipped upon restart.</p> <p>Note: This fix for this item required a change to rerun behavior, as follows:</p> <p>Prior to this change, if a dataset in a job step was referenced with a disposition of OLD,DELETE, the job was searched for other step(s) which referenced the same dataset with a disposition other than OLD,DELETE. If a step was found, the initial step was marked as being dependent on the subsequent step. This could result in a job step which was marked as dependent on a later step, which is not intuitive.</p> <p>After this change, we no longer check for dataset references which occur in later steps, resolving the issue above.</p> <p>However, if a step in a job references a dataset with OLD,DELETE (effectively deleting it) and a later step (re)creates the dataset (using a disposition of NEW or MOD), the later step could be considered to be dependent on the earlier step. This is a condition we no longer report as step dependency.</p> <p>To preserve the dependency for steps whose only purpose is to delete a dataset, is to using a disposition of MOD,DELETE instead of OLD,DELETE.</p>
D-07340	Unix, Windows	UAGSRV	Report consistent return codes for file monitor tasks that fail with invalid regular expressions on Unix and Windows agents.
D-07376	Unix, Windows	USAP	Display SELECT command will fail if the selusername option is used.
D-07380	Unix	UDM, UDMSRV	UDM may crash on AIX during execution of a File Transfer task.
D-07410	z/OS	UAGSRV	An EXISTS/MISSING file monitor task does not end with a non-zero exit code upon failure.
D-07428	Unix, Windows	UPPS	Some commands may cause UPPS to crash.
D-07429	Windows	All	Trace files may not contain trace messages generated after the initial bootstrap configuration is merged.
D-07430	All	USAP	After SAP update EHP7, USAP may receive "Invalid Document" error while attempting to retrieve spooled output.
D-07433	z/OS	UAGSRV	JCL errors may not be detected in steps that execute after a step condition prevents a task from failing upon an ABEND.
D-07440	Unix	UAGSRV	Make exit codes for CHANGE file monitor tasks executed on Unix agents consistent with those reported by Windows agents.
D-07483	z/OS	UAGSRV	Add support for mount point names longer than 47 characters.
D-07497	z/OS	UAGUJV UAGUSI	<p>Prevent a conflict with a customer SMF exit that references the same JMR control block locations as UAGSRV SMF exits.</p> <p>Previously delivered as D-07562 in 6.3.0.6.</p>
D-07508	All	UAGSRV	Display correct values for System Monitor task responses.

D-07509	All	UDM, UDMSRV	<p>Fix a problem that could cause Universal Data Mover to prematurely stop reading a UTF16-encoded file.</p> <div style="background-color: #ffffcc; padding: 10px; border: 1px solid #ccc;"> <p> Note The problem was observed when trying to transfer a UTF-16BE file to a z/OS dataset encoded with the IBM500 codepage. The cause of the problem was related to the size of the input file, and not to the UTF16 translation itself.</p> </div> <p>Previously delivered as D-07559 in 6.3.0.6.</p>
D-07518	Windows	UAGSRV, UCMD	Make sure that tasks executing with the "Requires Highest Privileges" (UAGSRV) or -elevate_user_token (UCMD) option successfully acquire elevated token on Windows Server 2012R2 and later.
D-07520	Unix	UAGSRV	Fix stability checks for CREATE file monitor tasks.
D-07538	z/OS	UAGSRV	Fix a problem in which a NOT CATLGD 2 on a GDG dataset may not cause a task to fail.
D-07541	Windows	Install	Silent installs fail when BROKERUID is set to domain account.
D-07565	Windows	Install	<p>Fix a problem that could cause a silent install to fail when <code>RUNBROKERASUSER=0</code> is specified. The install incorrectly tried to authenticate the default credentials for a Broker service account whose password had been changed. The authentication failure was ignored for interactive installs, but caused silent installs for fail.</p> <p>Previously delivered as D-07566 in 6.3.0.6.</p>
D-07579	Windows	Install	Prevent display of UBROKERPASSWORD value in install log.
D-07586	All	UAGSRV	Accept the Cancel command from Controller when executing File Transfer tasks.
D-07588	z/OS	UAGSRV, UAGUJI	Steps with DD statements which reference other DD statements in the same step are not marked as restartable in the Controller.
D-07614	All	UAGSRV	Correct the agent start time reported in the Controller.
D-08705	z/OS	Install	Update jobs for upgrades to 6.4 from 4.x and 5.x. Provide new jobs to upgrade from 6.2 and 6.3 to 6.4.

UNIX Package Maintenance Levels - Agent 6.4.x

- Overview
- Universal Agent 6.4.x for UNIX Packages
 - Agent 6.4.3.0 - June 30, 2018
 - Agent 6.4.2.2 - March 23, 2018
 - Agent 6.4.2.1 - February 28, 2018
 - Agent 6.4.2.1 - February 9, 2018
 - Agent 6.4.2.0 - December 31, 2017
 - Agent 6.4.1.0 - September 29, 2017 ¹
 - Agent 6.4.0.1 - July 28, 2017
 - Agent 6.4.0.0 - July 19, 2017
- Universal Agent for SOA 6.4.x for UNIX Packages
 - Agent for SOA 6.4.1.0 - October 6, 2017
 - Agent for SOA 6.4.1.0 - August 31, 2017

Overview

This page identifies the package contents for all Universal Agent 6.4.x for UNIX maintenance releases, including the initial release, and the maintenance level of every component in each package.

This information is for both Universal Agent 6.4.x for UNIX packages:

- Universal Agent
- Universal Agent for SOA

For each release, changes made to individual components for UNIX only, and for UNIX and one or more other platforms, are identified. Maintenance level changes to a component for non-UNIX platforms are not shown.

For a list of all changes in a release - all platforms, all components - see [All Platforms Package Maintenance Levels - Agent 6.4.x](#).

For a list of all changes in a release - all platforms, specific components - see [Component Maintenance Levels - Agent 6.4.x](#).

Universal Agent 6.4.x for UNIX Packages

This table identifies components generally available for UNIX. For a list of components currently contained in specific UNIX platforms, see [Platform Support for Universal Controller 6.4.x and Universal Agent 6.4.x](#).

Release	Release Date	Install	Universal Broker	Universal Automation Center Agent	Universal Message Service	Controller Command Line Interface	Universal Certificate	Universal Command Manager	Universal Command Server	Universal Connector for SAP	Universal Connector for PeopleSoft	Universal Control	Universal Database Utilities	Universal Data Mover Manag
6.4.3.0	June 30, 2018	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.C
6.4.2.2	March 23, 2018	6.4.2.1	6.4.2.0	6.4.2.2	6.4.2.0	6.4.2.1	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.1	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.C

6.4.2.1	February 28, 2017	6.4.2.1	6.4.2.0	6.4.2.1	6.4.2.0	6.4.2.1	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0
6.4.2.1	February 9, 2017	6.4.2.1	6.4.2.0	6.4.2.1	6.4.2.0	6.4.2.1	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0
6.4.2.0	December 31, 2017	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0
6.4.1.0	September 29, 2017	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0
6.4.0.1	July 28, 2017	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0
6.4.0.0	July 19, 2017	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0



Note

Install changes refer to changes to the programs, scripts, or supporting files used to install the package. There are no changes to the actual product components.


Agent 6.4.3.0 - June 30, 2018

Change ID	Platform	Component	Description
B-05053	All	UAGSRV	Make default network provider OMS in UAGSRV configuration.
B-05131	Unix, Windows	UAGSRV	Add automatic path resolution for UCMD, UDM, and USAP when executed from UAG.
B-05140	All	UAGSRV	Remove obsolete options that previously supported message hub and transport components.
B-07082	Unix, Windows	Install	Add option to install to disable UAGSRV execution at Universal Broker startup.
B-08953	All	UDM, UDMSRV	Add support for sleep statement to scripting language.
B-09033	Unix (all, except HPUX), Windows	Install	Bundle a Python3 distribution with the Universal Agent. NOTE: This option is not available for user mode installs.
B-09121	All	UFTP	Add wildcard support for GET/PUT/DELETE commands, allowing them to operate on one or more files.
B-09240	Unix, Windows	Install	Add ability to set the agent_clusters option in UAGSRV's configuration.
B-09258	All	UFTP	Improve error reporting when an attempt is made to transfer multiple files to a destination that is not a directory.
B-09268	All	UFTP	Remove wildcard requirements for MGET/MPUT/MDELETE commands, allowing them to operate on single files.
B-09287	Unix, Windows	UPPS	Stop WAITing for a job and consider item complete when its distribution status is NA and it has a runtime status of Cancelled.
B-09298	Unix, Windows	UPPS	Add agent support for the Controller's new PeopleSoft task type.

B-09304	Unix	UAGSRV	Add the -bif_directory option to the command line for spawned UCMD, UDM, UFTP, and USAP tasks to ensure components executed from a user mode install register with the correct local Broker.
B-09354	Unix, Windows	UFTP	Increase maximum allowable packet size for SFTP transfers.
B-09384	Unix, Windows	OMSSRV	Refresh message level for OMS Server in response to a UCTL refresh command.
B-09386	Unix, Windows	OMS Client	Improve diagnostic information collection in the OMS Java client, which exchanges messages between an OMS Server and the Controller.
B-09418	Unix, Windows	Install	Add ability to set the agent_ip option in UAGSRV's configuration.
B-09481	Unix, Windows	UPPS	Add ability to retrieve Output Destination Format options.
B-09508	All	UDM, UDMSRV	Add session attributes ostype and casesensitive attributes to provide OS and file system information.
D-06562	All	UDM, UDMSRV	Wildcard token parsing from a forfiles loop does not always honor the file system's case sensitivity rules.
D-08988	Unix	UAGSRV	Fixes behavior where a file monitor task may stop monitoring or fail under heavy load or unusual circumstances.
D-09212	All	UFTP	Prevent exception if user does not have access to the local source directory when executing an (M)PUT command.
D-09122	All	UCMD, UCTL, UDM, UDMSRV, JEM, UFTP	Fixes a situation in which Universal Encrypted files may be left open after decryption. Such files are now closed immediately after decryption.
D-09174	Unix, Windows	UAGSRV	Fix a problem where FTP file monitors may not honor the specified polling time.

Agent 6.4.2.2 - March 23, 2018

Change ID	Platform	Component	Description
B-09118	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	USAP	Modify USAP "generate job definition" command to generate an XBP 3.0 style spool list recipient.

B-09251	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	USAP, UAGSRV	Run an SAP Model Job and Generate an SAP Job Definition without providing a Jobcount ID. <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;">  Note Only the version number changed for UAGSRV, to support integration with a new feature delivered for the Universal Controller SAP task type (see B-09299 in the Universal Controller 6.4.x Maintenance). </div>
D-09063	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	USAP	XBP 2.0 style spool list recipient does not get defined properly from USAP job definition.

Agent 6.4.2.1 - February 28, 2018

Change ID	Platform	Component	Description
B-09090	Unix (Linux)	Install	Deliver RPM package for PowerPC (Little Endian) port of Universal Agent.

Agent 6.4.2.1 - February 9, 2018

Change ID	Platform	Component	Description
D-09064	Unix, Windows	UFTP	(M)DELETE and (M)GET with move fail when remote relative path is specified for an SFTP file transfer task.
D-09067	Unix, Windows, z/OS	UFTP	When the file path specified by the -src option contains no trailing slash, its LIST output differs from the output shown when the trailing slash is specified.
D-09082	Unix (AIX)	Install	AIX upgrade fails because of an existing ./archive1/.archive1 directory.
D-09089	Unix, Windows	UAGSRV	If the command line options that UAGSRV sends over STDIN to execute a Universal Command or Universal Connector for SAP are unexpectedly written to STDERR, a password in plain text may be exposed.
D-09096	Unix, Windows, z/OS	UFTP	Do not treat a CURLE_PARTIAL_FILE (18) return code value as a failure when it is accompanied by a server return code of 450.

Agent 6.4.2.0 - December 31, 2017

Change ID	Platform	Component	Description
B-07295	Unix, Windows	UAGSRV, UFTP	Add support for passphrase-protected SSH keys to UFTP.

B-08533	All	UCERT	Add ability to generate certificate requests with a version of 3 and exponent of 65537.
B-08534	All	UCERT	Allow an existing private key to be used when creating certificate request.
B-08563	Unix (Linux RPM), Windows	UPPS	Allow Submit Command options to be specified from the command line and a definition file.
B-08786	Unix	Install	Remove ops_sshpwd from the Unix install packages .
B-08853	All	UCERT	Accept key sizes greater than 2048. 3072 and 4096 are now supported.
B-08855	All	UFTP	Make the trailing slash optional when issuing a LIST command against a directory.
B-08909	Unix	UAGSRV	Do not use (or try to use) a login shell if the user id in a task's credentials starts with '-'. .
B-08961	All	UAGSRV	Add ability for agent to support passwords up to 512 characters in length.
B-09076	All	UFTP	Add additional return code values from libcurl operations to improve problem diagnosis.
D-07169	Unix, Windows z/OS	UAGCMD UAGCMDZ	Add support for TLS 1.2 sessions and cipher suites.
D-07315	All	UCERT	Add support for MD5, SHA-256, SHA-384, and SHA-512 signature algorithms. SHA-1 is still supported, and is the default.
D-08760	All	UAGSRV	Add "UFTP login failed" to task instance description when file transfer task fails due to login error.
D-08778	All	UAGSRV, UFTP	Fix error in file transfer/FTP file monitor tasks when part of the path is enclosed in double quotes.
D-08907	All	UFTP	SFTP transfer fails with exit code 79, "generic error reported from the SSH layer".
D-08958	Unix, Windows	USAP	USAP variant modification command fails.
D-08965	Unix, Windows	UAGSRV	Double slash in the URL in between the host name and the path causes the "No such file or directory" error on some of SFTP servers.
D-08980	ALL	UFTP	The -src option for the LIST command should be optional. When no path is specified for the -src option, the contents of the user's home directory or server's rooted location is shown.
D-08981	Unix, Windows	UFTP	Return a file's path when executing a list so Controller variables are populated correctly when an SFTP file monitor executes.
D-08984	All	UCERT	Add ability to specify SHA-1, SHA-256, SHA-384, or SHA-512 signature algorithms when creating a CRL.
D-08985	All	UCERT	Add support for configurable encryption for transport files.
D-08989	All	UAGSRV	If a task is submitted with a valid credential that contains a password of exactly 40 characters, the task will complete successfully although the command is not run.
D-08996	Unix (AIX)	Install	AIX permissions for sample def files have wrong filesystem permissions.
D-08999	All	UFTP	Multi-line FTP server responses not handled by command callbacks.
D-09012	All	UCERT	Revoke reason privilegeWithdrawn is misspelled. Corrected to accept privilegeWithdrawn.

D-09017	All	UCERT	Incorrect Revocation Reasons in CRL.
D-09021	Unix (Solaris SPARC)	Install	Require SUNW_1.3.1 patch level for libxnet.so.
D-09028	All	UCERT	Unspecified Revoke Reason SHOULD be absent instead of using the unspecified (0) reasonCode value.
D-09029	All	UCERT	Misspelled revocation reasons "affiliationChange" and "privilegeWithdrawn" are accepted.

Agent 6.4.1.0 - September 29, 2017 ¹

Change ID	Platform	Component	Description
B-06846	UNIX (AIX)	Install	Replace installp-based installation with RPM package .
B-07133	UNIX, Windows	OMS	Add MAX_CONNECTIONS configuration option to support up to 30,000 concurrent connections to the OMS Server.
B-08611	All	UAGSRV	Add ability to bind the agent's OMS socket to a specific IP address.
D-08755	UNIX, Windows	UFTP	Fix an error that may cause UFTP to fail when using symbolic links to reference source files in an MGET operation over SFTP.
D-08763	UNIX, Windows	UAGSRV	Do not fail execution of a script from a UNIX or Windows task if the first line of the script is empty.
D-08769	UNIX	Install	Update user-mode install to set the keystore_path option in ubroker.conf to the correct location within the local install path.
D-08781	UNIX	UAGSRV	Prevent an ops_monitor crash when a File Monitor task is cancelled.
D-08797	UNIX	Install	User-mode install fails if /tmp is mounted with noexec option.
D-08801	UNIX	UAGSRV	Ensure zlib library is statically linked (at build time) to avoid runtime dependency errors on systems where it is not installed.
D-08821	All	UAGSRV	If an SFTP File Transfer task uses stored credentials that does not have a password stored for, make sure the -pwd option is not part of the UFTP command line built by UAGSRV.
D-08822	UNIX, Windows	UFTP	Start an SFTP transfer session in the remote user's HOME directory, instead of the top of the file system.
D-08823	UNIX	UFTP	Fix "stat failed: (75) Value too large for defined data type" that may occur when retrieving files from a CIFS-mounted location.

¹ The 6.4.1.0 Agent for z/OS package was delivered October 18, 2017.

Agent 6.4.0.1 - July 28, 2017

Change ID	Platform	Component	Description
D-08710	UNIX, Windows	UFTP	Fix issue that prevents SFTP connection when key exchange is negotiated down to Diffie-Hellman Group Exchange with SHA1.

D-08733	UNIX, Windows	UFTP	Fix issue that may prevent an SFTP file monitor task from correctly recognizing an existing file.
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Agent 6.4.0.0 - July 19, 2017

Change ID	Platform	Component	Description
B-02384	AIX, Linux x64 (RPM package), Windows, z/OS	UDM UDMSRV UDMMCENG	Add ability to authenticate Broker's certificate . Previously delivered as B-06011 in 6.3.0.1.
B-03348	All	USAP	Add ability to export SAP Factory and Holiday calendars.
B-05351	All	UFTP	A new Universal FTP client component is available that executes for FTP file monitor and FTP file transfer tasks submitted from the Controller. Note: This is a complete replacement for native FTP client execution (and the Cygwin client provided for Windows agents). The client supports FTP,SFTP,FTPS, and TFTP protocols. It is also installed as a stand-alone component, which may be executed from the command line or z/OS job.
B-05691	AIX, Linux x64 (RPM package), Windows, z/OS	USAP USPMCENG	Provide improved client fault tolerance for SAP process chains . Previously delivered as B-06010 in 6.3.0.1.
B-05922	AIX, Linux x64 (RPM package), Windows	UBROKER UCMD UCMSRV UCTL UCTSRV UDM UDMSRV UEM UEMSRV UQUERY	Turn off world-readable flag for application configuration and log files. Previously delivered as B-05827 in 6.3.0.1.
B-05923	AIX, Linux x64 (RPM package), Windows, z/OS	UENCRYPT	Create new files using defaults of AES256 encryption and an expanded 32-bit key. Previously delivered as B-05825 in 6.3.0.1.
B-05924	UNIX, Windows All	OMSSRV UAGSRV	Add support for TLS 1.2 protocol Previously delivered as B-05907 in 6.3.0.2.


B-05925	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	UBROKER, UCMD, UCMSRV, UCTL, UCTSRV, UDM, UDMSRV, UEM, UEMSRV, UCMMCENG, UCTMCENG, UDMMCENG, UEMMCENG, USSMCENG	Add support for TLS 1.2 ciphers , AES256-GCM-SHA384 and AES128-GCM-SHA256. Previously delivered as B-05829 in 6.3.0.1.
B-05926	AIX, Linux x64 (RPM package), Windows, z/OS	UDM UDMSRV UDMMCENG	Protect against interception of sensitive information during user authentication . Previously delivered as B-05826 in 6.3.0.1.
B-05927	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	UBROKER, UCERT, UCMD, UCMSRV, UCTL, UCTSRV, UDM, UDMSRV, UEM, UEMSRV, UQUERY	Add support for TLS 1.2 protocol . Previously delivered as B-05040 in 6.3.0.1.
B-05928	All	All	Universal Broker Keystore feature that allows a default key to be stored for Universal Encrypted command files.
B-05983	All	USAP USPMCENG	Add new configuration option, ENABLE_JOB_STATUS_CHECK , to enable/disable calls to BAPI_XBP_JOB_STATUS_CHECK. Previously delivered as B-06503 in 6.3.0.3.

B-05990	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	UBROKER, UCMD, UCMSRV, UCTL, UCTSRV, UDM, UDMSRV, UEM, UEMSRV, UCMMCENG, UCTMCENG, UDMMCENG, UEMMCENG, USSMCENG	Add MIN_SSL_PROTOCOL configuration option to manage TLS application protocol support. Previously delivered as B-05991 in 6.3.0.1.
B-06012	AIX, Linux x64 (RPM package), Windows, z/OS	USAP USPMCENG	Provide ability to release intercepted child jobs . Previously delivered as B-06017 in 6.3.0.1.
B-06027	All	UENCRYPT	Add ""legacy"" option to -aes parameter to generate encrypted command files compatible with pre-6.3.0.1 versions of Universal Encrypt. Note: Previously delivered as B-06028 in 6.3.0.1.
B-06165	UNIX	OMS	Increase the maximum number of allowable TCP/IP connections . Previously delivered as B-04195 in 6.3.0.2.
B-06252	All	UDM	Update UDM Manager DATA_COMPRESSION configuration option with new force parameter (that is, compress,force) to allow UDM Managers to override Server-configured compression. Previously delivered as B-06253 in 6.3.0.2.
B-06491	All	UDM UDMSRV UDMMCENG	Add milliseconds value to built-in variables for access, create, and modify file timestamps. Previously delivered as B-04648 in 6.3.0.3.
B-06501	All	UAGSRV UAGMCENG	Add support for new resolvable script Credential Functions : <code>\$_credentialUser('<credential-name>')</code> and <code>\$_credentialPwd('<credential-name>')</code> . Note: This feature requires Universal Controller 6.4.0.0 and later. Previously delivered as B-06427 in 6.3.0.3.
B-06720	AIX	All	Port Universal Agent to 64-bit for AIX. Note: For Universal Connector for SAP users, this change also adds a dependency on the NetWeaver RFC libraries, which must exist on your system.

B-06721	Solaris SPARC	All	Port Universal Agent to 64-bit for Solaris SPARC. Note: For Universal Connector for SAP users, this change also adds a dependency on the NetWeaver RFC libraries, which must exist on your system.
B-06854	All	OMS, UBROKER, UCMD, UCMSRV, UCTL, UCTTSRV, UDM, UDMSRV, UEM, UEMSRV	Add msg_suppression_list option to filter unwanted messages (e.g., UNV0193W, which warns of deprecated SSL ciphers).
B-06979	Unix, Windows	UAGSRV	Provide Universal Agent support for executing scripts stored as data objects in the Controller.
B-07243	All	UDM, UDMSRV	Enhance the RDW attribute to process files on non-z/OS systems that contain a 4-byte Record Descriptor Word (RDW) at the start of each record.
D-04333	AIX, Solaris SPARC, z/OS	USAP	Prevent XBP 3.0 Create Variant operation failure when SAP note 1144882 has been applied to system. Previously delivered as D-06679 in 6.3.0.2.
D-05829	Unix	Install	Make sure usermode installs set correct installation paths in configuration files.
D-05850	UNIX	UAGSRV	Allow SFTP server port to be overridden when password-based authentication is used with SFTP File Transfer tasks . Previously delivered as D-06782 in 6.3.0.3.
D-06380	UNIX	UDM UDMSRV	Display correct version information for UDM Server . Previously delivered as D-06379 in 6.3.0.3.
D-06381	AIX, Linux x64 (RPM package), Windows z/OS	UAGCMD UAGCMDZ	Generate unique names for trace files . Previously delivered as D-06382 in 6.3.0.1.
D-06387	All	UAGSRV	Clean up temporary script files created by SAP tasks . Previously delivered as D-06888 in 6.3.0.3.
D-06405	AIX, Linux x64 (RPM package)	UAGSRV	Allow concurrent File Monitor instances to search for files using regular expressions that contain a comma. Previously delivered as D-06406 in 6.3.0.1.

D-06413	AIX, Linux x64 (RPM package), Windows, z/OS	UBROKER	Prevent Broker crash when it receives a specially-crafted malformed header. Previously delivered as D-06367 in 6.3.0.1.
D-06413	All	UBROKER USSMCENG	Protect initial handshake message protocol from malicious payloads. Previously delivered as D-06885 in 6.3.0.3.
D-06467	UNIX	UAGSRV	Make sure all error information is reported for an EXISTS File Monitor task that fails because the path name specified in the task Details does not exist. Previously delivered as D-06468 in 6.3.0.3.
D-06591	All	UDM	Add a message to display the value of the DATA_COMPRESSION configuration option following UDM Manager/Server session negotiation. Previously delivered as D-06592 in 6.3.0.2.
D-06729	All	UDM, UDMSRV	Set error return code when the length of a file's records exceeds a z/OS datasets's allocated record length . Previously delivered as D-05880 in 6.3.0.2.
D-06736	All	UDM UDMSRV	Correct problem trimming spaces from very long records. Previously delivered as D-06803 in 6.3.0.3.
D-06745	All	UDM, UDMSRV	Fix conversion error that may occur when creating a session using UTF-8 or UTF-16 codepages . Previously delivered as D-01721 in 6.3.0.2.
D-06748	All	UBROKER	Improve authentication of message parameters sent during a session negotiation's handshake. Previously delivered as D-06774 in 6.3.0.2.
D-06780	All	UDM UDMSRV	Make sure memory allocation errors that occur when a large ACK_WINDOW value is used when NFT is disabled are reported prior to UDM failure. Previously delivered as D-06781 in 6.3.0.3.
D-06835	AIX, Solaris SPARC, zOS	USAP	Handle FAILED exception from RSPC_API_CHAIN_GET_PROCESSES function. Previously delivered as D-06838 in 6.3.0.2.
D-06864	UNIX, Windows	UAGSRV	File Monitor tasks that end with a Failed status do not always end with non-zero exit codes. Previously delivered as D-06511 in 6.3.0.3.
D-06887	UNIX (except AIX and Solaris SPARC), Windows	USAP	Handle RFC timeouts during calls to RSPC_API_CHAIN_GET_STATUS. Previously delivered as D-06837 in 6.3.0.3.

D-06892	All	USAP	Use Universal Connector GROUP configuration option instead of mshost value for RFC GROUP connection parameter. Previously delivered as D-06893 in 6.3.0.3.
D-06937	Unix	UAGSRV	Filter out directory entries when executing an EXIST or a MISSING file monitor task with a pattern of ""."" on HPUX and Solaris agents. Note: Previously delivered as D-06938 in 6.3.0.3.
D-06944	Unix, Windows	UAGSRV	Encrypt sensitive data that is stored in the *_job jobtrack cache files. Note: Previously delivered as D-06945 in 6.3.0.3.
D-06946	Unix	UAGSRV	Prevent possible UAGSRV crash when executing scripts via Linux/Unix tasks when data scrubbing is enabled. Note: Previously delivered as D-06947 in 6.3.0.3.
D-06964	All	UAGSRV	Masking of sensitive values (i.e., resolved variables replaced with ****) may prevent stdout or stderr from being returned to the Controller. Note: This change was previously delivered as D-06965 in 6.3.0.3.
D-07008	Unix, Windows	UAGSRV	Don't include directories as part of results when executing file monitor tasks with regular expressions.
D-07098	All	UAGSRV	A Universal Agent task that executes a script which calls the <code>\$_credentialPwd()</code> function may fail.
D-07046	Unix, Windows	OMS	A 6.3 OMS Server may reject session negotiation attempts from the Controller.
D-07107	All	UDM, UDMSRV	Connection to pre-6.3 UDM Server fails if connection was already made to a 6.3 UDM Server earlier in the same script.
D-07130	Unix	Install	Make case conversion of character strings more portable in install script.
D-07135	Unix	Install	Make function implementation more portable.
D-07158	Unix	Install	Prevent values specified for UserName and GroupName command line arguments from being overridden in script.
D-07176	All	UAGSRV	Make sure the agent returns content from the end of available output when issuing an output retrieval request from the Controller starting at line -1.
D-07200	UNIX	UAGSRV	Tasks with UACL fail with "CSPProcessCreate failed: KrnProcessCreate" if the Agent is running as root. Previously delivered as D-07201 in 6.3.0.4.
D-07239	Unix, Windows	UAGSRV	Correct memory leaks that may occur during heavy file monitor activity.
D-07243	Unix	UAGSRV	Prevent PAM authentication error in file monitor tasks when agent is installed as root.
D-07244	All	UDM UDMSRV	Ensure that UDM does not write duplicate data to output file following successful NFT recovery. Previously delivered as D-07295 in 6.3.0.4.
D-07248	Unix	UAGSRV	CHANGE file monitors may not detect new files that are created after the task started.
D-07268	AIX	UBROKER	The runtime value the Broker uses for its <code>running_max</code> configuration option may be reset to a negative value, based on OS file descriptor limits. This fix prevents that from occurring.

D-07275	AIX	USAP	Prevent attempts to allocate zero bytes of memory to prevent "Resource temporarily unavailable" failure.
D-07288	Unix	UAGSRV	Execute Universal Command, UDM file transfer, and USAP tasks correctly even when application isn't in system path.
D-07316	Unix, Windows	UAGSRV	File monitor tasks that contain an improperly coded regular expression do not notify the user of the error.
D-07317	Unix	Install	Fix a problem in unvinst script that could prevent it from stopping an active ubrokerd process.
D-07340	Unix, Windows	UAGSRV	Report consistent return codes for file monitor tasks that fail with invalid regular expressions on Unix and Windows agents.
D-07376	Unix, Windows	USAP	Display SELECT command will fail if the selusername option is used.
D-07380	Unix	UDM, UDMSRV	UDM may crash on AIX during execution of a File Transfer task.
D-07428	Unix, Windows	UPPS	Some commands may cause UPPS to crash.
D-07430	All	USAP	After SAP update EHP7, USAP may receive "Invalid Document" error while attempting to retrieve spooled output.
D-07440	Unix	UAGSRV	Make exit codes for CHANGE file monitor tasks executed on Unix agents consistent with those reported by Windows agents.
D-07508	All	UAGSRV	Display correct values for System Monitor task responses.
D-07509	All	UDM, UDMSRV	<p>Fix a problem that could cause Universal Data Mover to prematurely stop reading a UTF16-encoded file.</p> <div style="background-color: #ffffcc; padding: 10px; margin: 10px 0;"> <p> Note The problem was observed when trying to transfer a UTF-16BE file to a zOS dataset encoded with the IBM500 codepage. The cause of the problem was related to the size of the input file, and not to the UTF16 translation itself.</p> </div> <p>Previously delivered as D-07559 in 6.3.0.6.</p>
D-07520	Unix	UAGSRV	Fix stability checks for CREATE file monitor tasks.
D-07586	All	UAGSRV	Accept the Cancel command from Controller when executing File Transfer tasks.
D-07614	All	UAGSRV	Correct the agent start time reported in the Controller.

Universal Agent for SOA 6.4.x for UNIX Packages

Release	Release Date	Universal Command Agent for SOA
6.4.1.0	October 6, 2017	6.4.1.0
6.4.1.0	August 31, 2017	6.4.1.0

Agent for SOA 6.4.1.0 - October 6, 2017

Change ID	Platform	Component	Description
B-05038	UNIX (RPM-based Linux)	UAC	Update bundled Apache AXIS2 to version 1.7.5.
B-05039	UNIX (RPM-based Linux)	UAC	Update bundled container resources to JRE 8 and Apache Tomcat 8.5.16.
B-08471	UNIX (RPM-based Linux)	PKG	Create 64-bit port of Universal Agent for SOA and deliver as an RPM package.
D-08811	UNIX (RPM-based Linux)	UAC	<p>Help prevent Tomcat startup delays by adding the following commented-out option to startUAC.sh:</p> <pre>-Djava.security.egd= file:/dev/urandom</pre> <p>When uncommented and added to the CATALINA_OPTS environment variable, it may improve startup performance of the bundled Tomcat container.</p>

Agent for SOA 6.4.1.0 - August 31, 2017

Change ID	Platform	Component	Description
B-05038	UNIX (Debian-based Linux)	UAC	Update bundled Apache AXIS2 to version 1.7.5.
B-05039	UNIX (Debian-based Linux)	UAC	Update bundled container resources to JRE 8 and Apache Tomcat 8.5.16.
B-08471	UNIX (Debian-based Linux)	PKG	Create 64-bit port of Universal Agent for SOA and deliver as a Debian package.
D-08811	UNIX (Debian-based Linux)	UAC	<p>Help prevent Tomcat startup delays by adding the following commented-out option to startUAC.sh:</p> <pre>-Djava.security.egd= file:/dev/urandom</pre> <p>When uncommented and added to the CATALINA_OPTS environment variable, it may improve startup performance of the bundled Tomcat container.</p>

Windows Package Maintenance Levels - Agent 6.4.x

- Overview
- Universal Agent 6.4.x for Windows Packages
 - Agent 6.4.3.0 - June 30, 2018
 - Agent 6.4.2.2 - March 23, 2018
 - Agent 6.4.2.1 - February 9, 2018
 - Agent 6.4.2.0 - December 31, 2017
 - Agent 6.4.1.0 - September 29, 2017 ¹
 - Agent 6.4.0.1 - July 28, 2017
 - Agent 6.4.0.0 - July 19, 2017
- Universal Enterprise Controller 6.4.0 for Windows Packages
 - UEC 6.4.0.0 - July 19, 2017
- Universal Enterprise Controller Client Applications 6.4.0 for Windows Packages
 - UEC Client Applications 6.4.0.0 - July 19, 2017
- Universal Agent for SOA 6.4.x for Windows Packages
 - Agent for SOA 6.4.0.0 - July 19, 2017

Overview

This page identifies the package contents for all Universal Agent 6.4.x for Windows maintenance releases, including the initial release, and the maintenance level of every component in each package.

This information is for all Universal Agent 6.4.x for Windows packages:

- Universal Agent
- Universal Enterprise Controller
- UEC Client Application
- Universal Agent for SOA

For each release, changes made to individual components for Windows only, and for Windows and one or more other platforms, are identified. Maintenance level changes to a component for non-Windows platforms are not shown.

For a list of all changes in a release - all platforms, all components - see [All Platforms Package Maintenance Levels - Agent 6.4.x](#).

For a list of all changes in a release - all platforms, specific components - see [Component Maintenance Levels - Agent 6.4.x](#).

Universal Agent 6.4.x for Windows Packages

Release	Release Date	Install	Universal Broker	Universal Automation Center Agent	Universal Message Service	Controller Command Line Interface	Universal Certificate	Universal Command Manager	Universal Command Server	Universal Connector for SAP	Universal Connector for PeopleSoft	Universal Control	Universal Database Utilities	Univer Data Mover Manag
6.4.3.0	June 30 2018	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0

6.4.2.2	March 23 2018	6.4.2.1	6.4.2.0	6.4.2.2	6.4.2.0	6.4.2.1	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.1	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0
6.4.2.1	February 9 2018	6.4.2.1	6.4.2.0	6.4.2.1	6.4.2.0	6.4.2.1	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0
6.4.2.0	December 31 2017	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0
6.4.1.0	September 29 2017	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0
6.4.0.1	July 28 2017	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0
6.4.0.0	July 19, 2017	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0


Note

Install changes refer to changes to the programs, scripts, or supporting files used to install the package. There are no changes to the actual product components.


Agent 6.4.3.0 - June 30, 2018

Change ID	Platform	Component	Description
B-05053	All	UAGSRV	Make default network provider OMS in UAGSRV configuration.
B-05131	Unix, Windows	UAGSRV	Add automatic path resolution for UCMD, UDM, and USAP when executed from UAG.
B-05140	All	UAGSRV	Remove obsolete options that previously supported message hub and transport components.
B-07082	Unix, Windows	Install	Add option to install to disable UAGSRV execution at Universal Broker startup.
B-08953	All	UDM, UDMSRV	Add support for sleep statement to scripting language.
B-09033	Unix (all, except HPUX), Windows	Install	Bundle a Python3 distribution with the Universal Agent. NOTE: This option is not available for user mode installs.
B-09121	All	UFTP	Add wildcard support for GET/PUT/DELETE commands, allowing them to operate on one or more files.
B-09240	Unix, Windows	Install	Add ability to set the agent_clusters option in UAGSRV's configuration.
B-09258	All	UFTP	Improve error reporting when an attempt is made to transfer multiple files to a destination that is not a directory.
B-09268	All	UFTP	Remove wildcard requirements for MGET/MPUT/MDELETE commands, allowing them to operate on single files.
B-09287	Unix, Windows	UPPS	Stop WAITing for a job and consider item complete when its distribution status is NA and it has a runtime status of Cancelled.
B-09298	Unix, Windows	UPPS	Add agent support for the Controller's new PeopleSoft task type.

B-09354	Unix, Windows	UFTP	Increase maximum allowable packet size for SFTP transfers.
B-09384	Unix, Windows	OMSSRV	Refresh message level for OMS Server in response to a UCTL refresh command.
B-09386	Unix, Windows	OMS Client	Improve diagnostic information collection in the OMS Java client, which exchanges messages between an OMS Server and the Controller.
B-09418	Unix, Windows	Install	Add ability to set the agent_ip option in UAGSRV's configuration.
B-09481	Unix, Windows	UPPS	Add ability to retrieve Output Destination Format options.
B-09508	All	UDM, UDMSRV	Add session attributes ostype and casesensitive attributes to provide OS and file system information.
D-06562	All	UDM, UDMSRV	Wildcard token parsing from a forfiles loop does not always honor the file system's case sensitivity rules.
D-09102	Windows	UAGSRV	Fix a problem where a System Monitor executed on Windows may not authenticate specified task credentials correctly.
D-09212	All	UFTP	Prevent exception if user does not have access to the local source directory when executing an (M)PUT command.
D-09122	All	UCMD, UCTL, UDM, UDMSRV, UEM, UFTP	Fixes a situation in which Universal Encrypted files may be left open after decryption. Such files are now closed immediately after decryption.
D-09174	Unix, Windows	UAGSRV	Fix a problem where FTP file monitors may not honor the specified polling time.
D-09237	Windows	UBROKER	Create a ubroker.shd file at shutdown to allow a Universal Broker service to restart even if ubroker.pid file was not deleted by previous instance.

Agent 6.4.2.2 - March 23, 2018

Change ID	Platform	Component	Description
B-09118	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	USAP	Modify USAP "generate job definition" command to generate an XBP 3.0 style spool list recipient.

B-09251	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	USAP, UAGSRV	Run an SAP Model Job and Generate an SAP Job Definition without providing a Jobcount ID. <div style="background-color: #ffffcc; padding: 5px;">  Note Only the version number changed for UAGSRV, to support integration with a new feature delivered for the Universal Controller SAP task type (see B-09299 in the Universal Controller 6.4.x Maintenance). </div>
D-09063	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	USAP	XBP 2.0 style spool list recipient does not get defined properly from USAP job definition.

Agent 6.4.2.1 - February 9, 2018

Change ID	Platform	Component	Description
B-09082	Windows	Install	Remove delivery of Microsoft VisualC++ 2005 runtime libraries, which have been superseded by the 2010 runtimes.
B-09094	Windows	Install (user mode only)	Update interface to ubrsvc.bat with -start, -restart, and -status options.
D-09064	Unix, Windows	UFTP	(M)DELETE and (M)GET with move fail when remote relative path is specified for an SFTP file transfer task.
D-09067	Unix, Windows, z/OS	UFTP	When the file path specified by the -src option contains no trailing slash, its LIST output differs from the output shown when the trailing slash is specified.
D-09068	Windows	Install (user mode only)	Ensure that UCMD, UDM, UFTP, and USAP always register with the correct local Universal Broker when executed via a Controller task on a user mode-installed Agent.
D-09087	Windows	UAGSRV	An application monitor that executes with credentials could cause UAGSRV to crash.
D-09089	Unix, Windows	UAGSRV	If the command line options that UAGSRV sends over STDIN to execute a Universal Command or Universal Connector for SAP are unexpectedly written to STDERR, a password in plain text may be exposed.
D-09096	Unix, Windows, z/OS	UFTP	Do not treat a CURLE_PARTIAL_FILE (18) return code value as a failure when it is accompanied by a server return code of 450.

Agent 6.4.2.0 - December 31, 2017

Change ID	Platform	Component	Description
B-05451	Windows	Install	Add ability to install multiple agent instances on Windows using a new user-mode install package.

B-07295	Unix, Windows	UAGSRV, UFTP	Add support for passphrase-protected SSH keys to UFTP.
B-08533	All	UCERT	Add ability to generate certificate requests with a version of 3 and exponent of 65537.
B-08534	All	UCERT	Allow an existing private key to be used when creating certificate request.
B-08563	Unix (Linux RPM), Windows	UPPS	Allow Submit Command options to be specified from the command line and a definition file.
B-08853	All	UCERT	Accept key sizes greater than 2048. 3072 and 4096 are now supported.
B-08855	All	UFTP	Make the trailing slash optional when issuing a LIST command against a directory.
B-08961	All	UAGSRV	Add ability for agent to support passwords up to 512 characters in length.
B-09076	All	UFTP	Add additional return code values from libcurl operations to improve problem diagnosis.
D-06417	Windows	UAGSRV	CPU utilization not transferred from Windows agents.
D-07169	Unix, Windows z/OS	UAGCMD UAGCMDZ	Add support for TLS 1.2 sessions and cipher suites.
D-07315	All	UCERT	Add support for MD5, SHA-256, SHA-384, and SHA-512 signature algorithms. SHA-1 is still supported, and is the default.
D-08760	All	UAGSRV	Add "UFTP login failed" to task instance description when file transfer task fails due to login error.
D-08778	All	UAGSRV, UFTP	Fix error in file transfer/FTP file monitor tasks when part of the path is enclosed in double quotes.
D-08907	All	UFTP	SFTP transfer fails with exit code 79, "generic error reported from the SSH layer".
D-08958	Unix, Windows	USAP	USAP variant modification command fails.
D-08965	Unix, Windows	UAGSRV	Double slash in the URL in between the host name and the path causes the "No such file or directory" error on some of SFTP servers.
D-08980	ALL	UFTP	The -src option for the LIST command should be optional. When no path is specified for the -src option, the contents of the user's home directory or server's rooted location is shown.
D-08981	Unix, Windows	UFTP	Return a file's path when executing a list so Controller variables are populated correctly when an SFTP file monitor executes.
D-08984	All	UCERT	Add ability to specify SHA-1, SHA-256, SHA-384, or SHA-512 signature algorithms when creating a CRL.
D-08985	All	UCERT	Add support for configurable encryption for transport files.
D-08989	All	UAGSRV	If a task is submitted with a valid credential that contains a password of exactly 40 characters, the task will complete successfully although the command is not run.
D-08999	All	UFTP	Multi-line FTP server responses not handled by command callbacks.
D-09012	All	UCERT	Revoke reason <code>privilegeWithdrawn</code> is misspelled. Corrected to accept <code>privilegeWithdrawn</code> .

D-09017	All	UCERT	Incorrect Revocation Reasons in CRL.
D-09028	All	UCERT	Unspecified Revoke Reason SHOULD be absent instead of using the unspecified (0) reasonCode value.
D-09029	All	UCERT	Misspelled revocation reasons "affiliationChange" and "privilegeWithdrawn" are accepted.

Agent 6.4.1.0 - September 29, 2017 ¹

Change ID	Platform	Component	Description
B-07133	UNIX, Windows	OMS	Add MAX_CONNECTIONS configuration option to support up to 30,000 concurrent connections to the OMS Server.
B-08611	All	UAGSRV	Add ability to bind the agent's OMS socket to a specific IP address.
D-08621	Windows	UAGSRV	Add support for new Create Console option available for Windows tasks starting with Universal Controller 6.4.2.0. This option can be used to improve capture of standard I/O from console processes launched on the Windows interactive desktop.
D-08755	UNIX, Windows	UFTP	Fix an error that may cause UFTP to fail when using symbolic links to reference source files in an MGET operation over SFTP.
D-08763	UNIX, Windows	UAGSRV	Do not fail execution of a script from a UNIX or Windows task if the first line of the script is empty.
D-08821	All	UAGSRV	If an SFTP File Transfer task uses stored credentials that doesn't have a password stored for, make sure the -pwd option is not part of the UFTP command line built by UAGSRV.
D-08822	UNIX, Windows	UFTP	Start an SFTP transfer session in the remote user's HOME directory, instead of the top of the file system.
D-08877	Windows	UAGSRV, UCMDSRV, UEMSRV	Prevent "CSProcessCreate failed: An attempt was made to reference a token that does not exist" errors.

¹ The 6.4.1.0 Agent for z/OS package was delivered October 18, 2017.

Agent 6.4.0.1 - July 28, 2017

Change ID	Platform	Component	Description
D-08710	UNIX, Windows	UFTP	Fix issue that prevents SFTP connection when key exchange is negotiated down to Diffie-Hellman Group Exchange with SHA1.
D-08733	UNIX, Windows	UFTP	Fix issue that may prevent an SFTP file monitor task from correctly recognizing an existing file.


Agent 6.4.0.0 - July 19, 2017

Change ID	Platform	Component	Description
B-02384	AIX, Linux x64 (RPM package), Windows, z/OS	UDM UDMSRV UDMMCENG	Add ability to authenticate Broker's certificate . Previously delivered as B-06011 in 6.3.0.1.
B-03348	All	USAP	Add ability to export SAP Factory and Holiday calendars.
B-05351	All	UFTP	A new Universal FTP client component is available that executes for FTP file monitor and FTP file transfer tasks submitted from the Controller. Note: This is a complete replacement for native FTP client execution (and the Cygwin client provided for Windows agents). The client supports FTP,SFTP,FTPS, and TFTP protocols. It is also installed as a stand-alone component, which may be executed from the command line or z/OS job.
B-05691	AIX, Linux x64 (RPM package), Windows, z/OS	USAP USPMCENG	Provide improved client fault tolerance for SAP process chains . Previously delivered as B-06010 in 6.3.0.1.
B-05922	AIX, Linux x64 (RPM package), Windows	UBROKER UCMD UCMSRV UCTL UCTSRV UDM UDMSRV JEM UEMSRV UQUERY	Turn off world-readable flag for application configuration and log files. Previously delivered as B-05827 in 6.3.0.1.
B-05923	AIX, Linux x64 (RPM package), Windows, z/OS	UENCRYPT	Create new files using defaults of AES256 encryption and an expanded 32-bit key. Previously delivered as B-05825 in 6.3.0.1.
B-05924	All	OMSSRV UAGSRV	Add support for TLS 1.2 protocol Previously delivered as B-05907 in 6.3.0.2.

B-05926	AIX, Linux x64 (RPM package), Windows, z/OS	UDM UDMSRV UDMMCENG	Protect against interception of sensitive information during user authentication . Previously delivered as B-05826 in 6.3.0.1.
B-05928	All	All	Universal Broker Keystore feature that allows a default key to be stored for Universal Encrypted command files.
B-05983	All	USAP USPMCENG	Add new configuration option, ENABLE_JOB_STATUS_CHECK , to enable/disable calls to BAPI_XBP_JOB_STATUS_CHECK. Previously delivered as B-06503 in 6.3.0.3.
B-06012	AIX, Linux x64 (RPM package), Windows, z/OS	USAP USPMCENG	Provide ability to release intercepted child jobs . Previously delivered as B-06017 in 6.3.0.1.
B-06027	All	UENCRYPT	Add ""legacy"" option to -aes parameter to generate encrypted command files compatible with pre-6.3.0.1 versions of Universal Encrypt. Note: Previously delivered as B-06028 in 6.3.0.1.
B-06252	All	UDM	Update UDM Manager DATA_COMPRESSION configuration option with new force parameter (that is, compress,force) to allow UDM Managers to override Server-configured compression. Previously delivered as B-06253 in 6.3.0.2.
B-06491	All	UDM UDMSRV UDMMCENG	Add milliseconds value to built-in variables for access, create, and modify file timestamps. Previously delivered as B-04648 in 6.3.0.3.
B-06501	All	UAGSRV UAGMCENG	Add support for new resolvable script Credential Functions : <code>\$_credentialUser('<credential-name>')</code> and <code>\$_credentialPwd('<credential-name>')</code> . Note: This feature requires Universal Controller 6.4.0.0 and later. Previously delivered as B-06427 in 6.3.0.3.
B-06854	All	OMS, UBROKER, UCMD, UCMSRV, UCTL, UCTTSRV, UDM, UDMSRV, UEM, UEMSRV	Add <code>msg_suppression_list</code> option to filter unwanted messages (e.g., UNV0193W, which warns of deprecated SSL ciphers).
B-06931	Windows	Install	Remove support for Windows XP, Server 2003, and Server 2008. Only allow installs on Windows 7 and Server 2008 R2 and higher.

B-06979	Unix, Windows	UAGSRV	Provide Universal Agent support for executing scripts stored as data objects in the Controller.
B-07243	All	UDM, UDMSRV	Enhance the RDW attribute to process files on non-z/OS systems that contain a 4-byte Record Descriptor Word (RDW) at the start of each record.
B-07310	Windows	UAGSRV, UCMD	Re-introduce support to execute GUI applications when the Interact with DeskTop option is enabled in task definitions, component configurations, and the Universal Broker service definition. Note: This support was re-enabled for Windows versions that support desktop isolation for services. The task will execute in the interactive console session, using the credentials of the user logged into that session.
D-06381	AIX, Linux x64 (RPM package), Windows z/OS	UAGCMD UAGCMDZ	Generate unique names for trace files . Previously delivered as D-06382 in 6.3.0.1.
D-06387	All	UAGSRV	Clean up temporary script files created by SAP tasks . Previously delivered as D-06888 in 6.3.0.3.
D-06413	AIX, Linux x64 (RPM package), Windows, z/OS	UBROKER	Prevent Broker crash when it receives a specially-crafted malformed header. Previously delivered as D-06367 in 6.3.0.1.
D-06413	All	UBROKER USSMCENG	Protect initial handshake message protocol from malicious payloads. Previously delivered as D-06885 in 6.3.0.3.
D-06448	Windows	UAGSRV	DELETE File Monitors succeed when file's owner does not match the value of the task's File Owner field. Previously delivered as D-06306 in 6.3.0.1.
D-06460	Windows	UAGSRV	Add ERROR_NETNAME_DELETED as a retry condition for File Monitor fault tolerance. Previously delivered as D-06487 in 6.3.0.1.
D-06591	All	UDM	Add a message to display the value of the DATA_COMPRESSION configuration option following UDM Manager/Server session negotiation. Previously delivered as D-06592 in 6.3.0.2.
D-06726	Windows	UAGSRV	Prevent a situation that may result in a "CSProcessCreate: The system cannot find the file specified" error when several Windows tasks that execute scripts with user credentials are launched at once. Previously delivered as D-07296 in 6.3.0.6.

D-06729	All	UDM, UDMSRV	Set error return code when the length of a file's records exceeds a z/OS datasets's allocated record length . Previously delivered as D-05880 in 6.3.0.2.
D-06736	All	UDM UDMSRV	Correct problem trimming spaces from very long records. Previously delivered as D-06803 in 6.3.0.3.
D-06745	All	UDM, UDMSRV	Fix conversion error that may occur when creating a session using UTF-8 or UTF-16 codepages. Previously delivered as D-01721 in 6.3.0.2.
D-06748	All	UBROKER	Improve authentication of message parameters sent during a session negotiation's handshake. Previously delivered as D-06774 in 6.3.0.2.
D-06780	All	UDM UDMSRV	Make sure memory allocation errors that occur when a large ACK_WINDOW value is used when NFT is disabled are reported prior to UDM failure. Previously delivered as D-06781 in 6.3.0.3.
D-06864	UNIX, Windows	UAGSRV	File Monitor tasks that end with a Failed status do not always end with non-zero exit codes. Previously delivered as D-06511 in 6.3.0.3.
D-06865	Windows	Install	Mask passwords displayed by Stonebranch trace functions in install log . Previously delivered as D-06846 in 6.3.0.3.
D-06887	UNIX (except AIX and Solaris SPARC), Windows	USAP	Handle RFC timeouts during calls to RSPC_API_CHAIN_GET_STATUS. Previously delivered as D-06837 in 6.3.0.3.
D-06892	All	USAP	Use Universal Connector GROUP configuration option instead of mshost value for RFC GROUP connection parameter. Previously delivered as D-06893 in 6.3.0.3.
D-06944	Unix, Windows	UAGSRV	Encrypt sensitive data that is stored in the *_job jobtrack cache files. Note: Previously delivered as D-06945 in 6.3.0.3.
D-06964	All	UAGSRV	Masking of sensitive values (i.e., resolved variables replaced with ****) may prevent stdout or stderr from being returned to the Controller. Note: This change was previously delivered as D-06965 in 6.3.0.3.
D-07008	Unix, Windows	UAGSRV	Don't include directories as part of results when executing file monitor tasks with regular expressions.
D-07098	All	UAGSRV	A Universal Agent task that executes a script which calls the <code>\$_credentialPwd()</code> function may fail.
D-07046	Unix, Windows	OMS	A 6.3 OMS Server may reject session negotiation attempts from the Controller.

D-07107	All	UDM, UDMSRV	Connection to pre-6.3 UDM Server fails if connection was already made to a 6.3 UDM Server earlier in the same script.
D-07176	All	JAGSRV	Make sure the agent returns content from the end of available output when issuing an output retrieval request from the Controller starting at line -1.
D-07193	Windows	JAGSRV	File Monitors may go to Start Failure on AD Controller reboot/switchover. Previously delivered as D-07194 in 6.3.0.4.
D-07239	Unix, Windows	JAGSRV	Correct memory leaks that may occur during heavy file monitor activity.
D-07244	All	UDM UDMSRV	Ensure that UDM does not write duplicate data to output file following successful NFT recovery. Previously delivered as D-07295 in 6.3.0.4.
D-07316	Unix, Windows	JAGSRV	File monitor tasks that contain an improperly coded regular expression do not notify the user of the error.
D-07340	Unix, Windows	JAGSRV	Report consistent return codes for file monitor tasks that fail with invalid regular expressions on Unix and Windows agents.
D-07376	Unix, Windows	USAP	Display SELECT command will fail if the selusername option is used.
D-07428	Unix, Windows	UPPS	Some commands may cause UPPS to crash.
D-07430	All	USAP	After SAP update EHP7, USAP may receive "Invalid Document" error while attempting to retrieve spooled output.
D-07429	Windows	All	Trace files may not contain trace messages generated after the initial bootstrap configuration is merged.
D-07508	All	JAGSRV	Display correct values for System Monitor task responses.
D-07509	All	UDM, UDMSRV	Fix a problem that could cause Universal Data Mover to prematurely stop reading a UTF16-encoded file. <div style="background-color: #ffffcc; padding: 10px; margin: 10px 0;"> <p> Note The problem was observed when trying to transfer a UTF-16BE file to a zOS dataset encoded with the IBM500 codepage. The cause of the problem was related to the size of the input file, and not to the UTF16 translation itself.</p> </div> <p>Previously delivered as D-07559 in 6.3.0.6.</p>
D-07518	Windows	JAGSRV, UCMD	Make sure that tasks executing with the "Requires Highest Privileges" (JAGSRV) or -elevate_user_token (UCMD) option successfully acquire elevated token on Windows Server 2012R2 and later.
D-07565	Windows	Install	Fix a problem that could cause a silent install to fail when RUNBROKERASUSER=0 is specified. The install incorrectly tried to authenticate the default credentials for a Broker service account whose password had been changed. The authentication failure was ignored for interactive installs, but caused silent installs for fail. Previously delivered as D-07566 in 6.3.0.6.

D-07579	Windows	Install	Prevent display of UBROKERPASSWORD value in install log.
D-07586	All	UAGSRV	Accept the Cancel command from Controller when executing File Transfer tasks.
D-07614	All	UAGSRV	Correct the agent start time reported in the Controller.

Universal Enterprise Controller 6.4.0 for Windows Packages

Release	Release Date	Universal Enterprise Controller
6.4.0.0	July 19, 2017	6.4.0.0

UEC 6.4.0.0 - July 19, 2017

Change ID	Platform	Component	Description
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(There have been no changes to this release.)

Universal Enterprise Controller Client Applications 6.4.0 for Windows Packages

Release	Release Date	I-Activity Monitor	I-Administrator	I-Management Console
6.4.0.0	July 19, 2017	6.4.0.0	6.4.0.0	6.4.0.0

UEC Client Applications 6.4.0.0 - July 19, 2017

Change ID	Platform	Component	Description
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(There have been no changes to this release.)

Universal Agent for SOA 6.4.x for Windows Packages

Release	Release Date	Universal Command Agent for SOA
6.4.0.0	July 19, 2016	6.4.0.0

Agent for SOA 6.4.0.0 - July 19, 2017

Change ID	Platform	Component	Description
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(There have been no changes to this release.)

zOS Package Maintenance Levels - Agent 6.4.x

- [Overview](#)
- [Universal Agent 6.4.x for z/OS Packages](#)
 - [Agent 6.4.3.0 - June 30, 2018](#)
 - [Agent 6.4.2.2 - March 23, 2018](#)
 - [Agent 6.4.2.1 - February 15, 2018](#)
 - [Agent 6.4.2.0 - December 31, 2017](#)
 - [Agent 6.4.1.0 - September 29, 2017](#) ¹
 - [Agent 6.4.0.0 - July 19, 2017](#)

Overview

This page identifies the package contents for all Universal Agent 6.4.x for z/OS maintenance releases, including the initial release, and the maintenance level of every component in each package.

For each release, changes made to individual components for z/OS only, and for z/OS and one or more other platforms, are identified. Maintenance level changes to a component for non-z/OS platforms are not shown.

For a list of all changes in a release - all platforms, all components - see [All Platforms Package Maintenance Levels - Agent 6.4.x](#).

For a list of all changes in a release - all platforms, specific components - see [Component Maintenance Levels - Agent 6.4.x](#).

Universal Agent 6.4.x for z/OS Packages

The following table identifies the maintenance level of all components contained in each Universal Agent 6.4.x for z/OS package.

Release	Release Date	SMP/E Install	Universal Broker	Universal Automation Center Agent	Universal Message Service	Controller Command Line Interface	Universal Certificate	Universal Command Manager	Universal Command Server	Universal Connector for SAP	Universal Connector for PeopleSoft	Universal Control	Universal Database Utilities	Univer Data Mover Manag
6.4.3.0	June 30 2018	6.4.3.0	6.4.3.0	6.4.3.0		6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	5.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0	6.4.3.0
6.4.2.2	March 23 2018	6.4.2.0	6.4.2.0	6.4.2.2		6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	5.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0
6.4.2.1	February 15 2018	6.4.2.0	6.4.2.0	6.4.2.1		6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	5.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0
6.4.2.0	December 31 2017	6.4.2.0	6.4.2.0	6.4.2.0		6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	5.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0	6.4.2.0
6.4.1.0	September 29 2017	6.4.1.0	6.4.1.0	6.4.1.0		6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0	5.4.0.0	6.4.1.0	6.4.1.0	6.4.1.0	6.4.1.0
6.4.0.0	July 19, 2017	6.4.0.0	6.4.0.0	6.4.0.0		6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0	5.2.2.0	6.4.0.0	6.4.0.0	6.4.0.0	6.4.0.0

**Note**

Install changes refer to changes to the programs, scripts, or supporting files used to install the package. There are no changes to the actual product components.

Agent 6.4.3.0 - June 30, 2018

Change ID	Platform	Component	Description
B-03530	z/OS	UAGSRV	Reduce dependency on the global LNKLST and allow a STEPLIB to be specified for the OPSSTP00 step which points to UAGRERUN.
B-05053	All	UAGSRV	Make default network provider OMS in UAGSRV configuration.
B-05140	All	UAGSRV	Remove obsolete options that previously supported message hub and transport components.
B-07325	z/OS	UAGSRV	Display the UAGRERUN version in the rerun report.
B-08953	All	UDM, UDMSRV	Add support for sleep statement to scripting language.
B-09121	All	UFTP	Add wildcard support for GET/PUT/DELETE commands, allowing them to operate on one or more files.
B-09213	z/OS	UAGSRV, UAGRERUN	Reduce dependency on SMF exits by moving rerun/restart behavior from UAGUJI to UAGRERUN.
B-09258	All	UFTP	Improve error reporting when an attempt is made to transfer multiple files to a destination that is not a directory.
B-09268	All	UFTP	Remove wildcard requirements for MGET/MPUT/MDELETE commands, allowing them to operate on single files.
B-09338	z/OS	UAGSRV, UAGRERUN	Improve sequential dataset cleanup for reruns/restarts.
B-09340	z/OS	UAGSRV, UAGRERUN	Improve GDG dataset cleanup when a z/OS task is rerun/restarted.
B-09349	z/OS	UBROKER	Create external links to UCMD Manager and USAP from Broker to support z/OS 2.3 requirements.
B-09469	z/OS	UAGRERUN, UAGUJI	Move skip step and step list processing from UAGUJI SMF exit to UAGRERUN, along with restartable/non-restartable step eligibility and dataset deletion criteria. This change effectively deprecates UAGUJI, which is no longer provided in the z/OS delivery.
B-09508	All	UDM, UDMSRV	Add session attributes ostype and casesensitive attributes to provide OS and file system information.
D-06562	All	UDM, UDMSRV	Wildcard token parsing from a forfiles loop does not always honor the file system's case sensitivity rules.
D-09000	z/OS	UCERT	Fix revocation date value when printing a CRL from z/OS.
D-09069	z/OS	UAGSRV	Correct "Missing command option prefix character" error on z/OS when commands exist in the Additional FTP Commands field of an FTP File Monitor task.
D-09212	All	UFTP	Prevent exception if user does not have access to the local source directory when executing an (M)PUT command.

D-09122	All	UCMD, UCTL, UDM, UDMSRV, UEM, UFTP	Fixes a situation in which Universal Encrypted files may be left open after decryption. Such files are now closed immediately after decryption.
D-09127	z/OS	UAGSRV	Prevent creation of an empty DSN exclude list if no datasets are specified for exclusion from dataset cleanup upon a rerun/restart.
D-09262	z/OS	UAGCMDZ	Fix a problem where a uencrypted command file is not recognized when prefixed by 'dd:'. The 'dd:' prefix is now optional when specified with the -x command line option.

Agent 6.4.2.2 - March 23, 2018

Change ID	Platform	Component	PTF	Description
D-09139	z/OS	UAGSRV	PS25003	Correct an issue that may cause UAGSRV to ABEND when a large job is submitted for rerun.

Agent 6.4.2.1 - February 15, 2018

Change ID	Platform	Component	PTF	Description
D-08901	z/OS	UAGSRV, UFTP	PS25001, PS25002	Convert LOCSITE options passed via the z/OS subcommand field to UFTP-specific options.
D-09067	Unix, Windows, z/OS	UFTP	PS25002	When the file path specified by the -src option contains no trailing slash, its LIST output differs from the output shown when the trailing slash is specified.
D-09096	Unix, Windows, z/OS	UFTP	PS25002	Do not treat a CURLE_PARTIAL_FILE (18) return code value as a failure when it is accompanied by a server return code of 450.
D-09097	z/OS	UFTP	PS25002	Accept FTP server passwords up to 255 characters when a z/OS UFTP client is executed via a File Transfer task.

Agent 6.4.2.0 - December 31, 2017

Change ID	Platform	Component	Description
B-06263	z/OS	UAGSRV	Add support for job classes up to 8 characters.
B-08533	All	UCERT	Add ability to generate certificate requests with a version of 3 and exponent of 65537.
B-08534	All	UCERT	Allow an existing private key to be used when creating certificate request.

B-08592	z/OS	UCMD	Add ability to scrub IBM Tivoli Workstation variables (specified with <code>//*%OPC</code>) from scripts executed via UCMD. Other patterns may also be scrubbed using the <code>script_line_ignore_mask</code> option.
B-08852	z/OS	UAGSRV	Make UAG aware of other UAG instances in the Sysplex.
B-08853	All	UCERT	Accept key sizes greater than 2048. 3072 and 4096 are now supported.
B-08855	All	UFTP	Make the trailing slash optional when issuing a LIST command against a directory.
B-08961	All	UAGSRV	Add ability for agent to support passwords up to 512 characters in length.
B-09076	All	UFTP	Add additional return code values from libcurl operations to improve problem diagnosis.
D-03338	z/OS	UCMDSRV	Fixes a problem where UCMDSRV allocates a new EMCS console with each instance, causing EMCS consoles to be over time. UCMDSRV will now attempt to reuse a EMCS console name before allocating a new one.
D-06979	z/OS	UAGSRV	Remove an extra MSGCLASS keyword from the JOB statement when New Jobname is specified in the z/OS task.
D-07169	Unix, Windows z/OS	UAGCMD UAGCMDZ	Add support for TLS 1.2 sessions and cipher suites.
D-07315	All	UCERT	Add support for MD5, SHA-256, SHA-384, and SHA-512 signature algorithms. SHA-1 is still supported, and is the default.
D-08672	z/OS	UAGSRV	Improve detection of NOT CATLGD 2 errors via additional support for post-execution errors.
D-08760	All	UAGSRV	Add "UFTP login failed" to task instance description when file transfer task fails due to login error.
D-08778	All	UAGSRV, UFTP	Fix error in file transfer/FTP file monitor tasks when part of the path is enclosed in double quotes.
D-08907	All	UFTP	SFTP transfer fails with exit code 79, "generic error reported from the SSH layer".
D-08955	z/OS	UAGSRV	Improve handling of CA-7 #JO JCL omit statement.
D-08978	z/OS	UAGSRV	Improve post-execution error handling so that NOT CATLGD 2 on GDG does will result in a JCL error being reported for the task.
D-08980	ALL	UFTP	The <code>-src</code> option for the LIST command should be optional. When no path is specified for the <code>-src</code> option, the contents of the user's home directory or server's rooted location is shown.
D-08984	All	UCERT	Add ability to specify SHA-1, SHA-256, SHA-384, or SHA-512 signature algorithms when creating a CRL.
D-08985	All	UCERT	Add support for configurable encryption for transport files.
D-08989	All	UAGSRV	If a task is submitted with a valid credential that contains a password of exactly 40 characters, the task will complete successfully although the command is not run.
D-08994	z/OS	UAGUJI	When SWA=ABOVE is configured for an initiator on zOS 2.1 ,UAGUJI can receive ABEND 0B0-24 after calling SWAREQ.
D-08999	All	UFTP	Multi-line FTP server responses not handled by command callbacks.
D-09012	All	UCERT	Revoke reason <code>privilegeWithdrawn</code> is misspelled. Corrected to accept <code>privilegeWithdrawn</code> .
D-09017	All	UCERT	Incorrect Revocation Reasons in CRL.
D-09028	All	UCERT	Unspecified Revoke Reason SHOULD be absent instead of using the unspecified (0) <code>reasonCode</code> value.

D-09029	All	UCERT	Misspelled revocation reasons "affiliationChange" and "priviledgeWithdrawn" are accepted.
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Agent 6.4.1.0 - September 29, 2017 ¹

Change ID	Platform	Component	Description
B-08469	z/OS	UAGSRV, UAGU83, UAGU84, UAGUJI, UAGUJV, UAGUSI, UAGUTIL	Collect tracking data for jobs started from a Universal Controller z/OS task that will be used to preserve and recover status information in the event of a UAGSRV shutdown.
B-08611	All	UAGSRV	Add ability to bind the agent's OMS socket to a specific IP address.
D-08821	All	UAGSRV	If an SFTP File Transfer task uses stored credentials that does not have a password stored for it, make sure the <code>-pwd</code> option is not part of the UFTP command line built by UAGSRV.
D-08884	z/OS	UAGSRV	Fix problem that prevents UFTP from launching when the Broker's configured <code>system_id</code> value is blank.

¹ The 6.4.1.0 Agent for z/OS package was delivered October 18, 2017.

Agent 6.4.0.0 - July 19, 2017

Change ID	Platform	Component	Description
B-02384	AIX, Linux x64 (RPM package), Windows, z/OS	UDM UDMSRV UDMMCENG UDMCFG00 UDMCFGU0 UDSCFG00 UDMCFG UDMCFGU UDSCFG	Add ability to authenticate Broker's certificate . Previously delivered as B-06011 in 6.3.0.1.
B-02897	z/OS	All	Add support for mixed case passwords.
B-03348	All	USAP	Add ability to export SAP Factory and Holiday calendars.
B-05351	All	UFTP	A new Universal FTP client component is available that executes for FTP file monitor and FTP file transfer tasks submitted from the Controller. Note: This is a complete replacement for native FTP client execution (and the Cygwin client provided for Windows agents). The client supports FTP,SFTP,FTPS, and TFTP protocols. It is also installed as a stand-alone component, which may be executed from the command line or z/OS job.


B-05691	AIX, Linux x64 (RPM package), Windows, z/OS	USAP USPMCENG	Provide improved client fault tolerance for SAP process chains . Previously delivered as B-06010 in 6.3.0.1.
B-05923	AIX, Linux x64 (RPM package), Windows, z/OS	UENCRYPT	Create new files using defaults of AES256 encryption and an expanded 32-bit key. Previously delivered as B-05825 in 6.3.0.1.
B-05924	All	OMSSRV UAGSRV	Add support for TLS 1.2 protocol Previously delivered as B-05907 in 6.3.0.2.
B-05926	AIX, Linux x64 (RPM package), Windows, z/OS	UDM UDMSRV UDMMCENG	Protect against interception of sensitive information during user authentication . Previously delivered as B-05826 in 6.3.0.1.
B-05928	All	All	Universal Broker Keystore feature that allows a default key to be stored for Universal Encrypted command files.
B-05983	All	USAP USPMCENG	Add new configuration option, ENABLE_JOB_STATUS_CHECK , to enable/disable calls to BAPI_XBP_JOB_STATUS_CHECK. Previously delivered as B-06503 in 6.3.0.3.
B-06012	AIX, Linux x64 (RPM package), Windows, z/OS	USAP USPMCENG	Provide ability to release intercepted child jobs . Previously delivered as B-06017 in 6.3.0.1.
B-06027	All	UENCRYPT	Add ""legacy"" option to -aes parameter to generate encrypted command files compatible with pre-6.3.0.1 versions of Universal Encrypt. Note: Previously delivered as B-06028 in 6.3.0.1.
B-06115	z/OS	UBROKER	Issue a clear error message at startup if the UNV load library is not APF authorized instead of failing with an S047 ABEND.

B-06176	z/OS	UBROKER, UCMD, UCTL, UDM	Enable TLS 1.2 protocol and cipher support for SystemSSL.
B-06252	All	UDM	Update UDM Manager DATA_COMPRESSION configuration option with new force parameter (that is, compress,force) to allow UDM Managers to override Server-configured compression. Previously delivered as B-06253 in 6.3.0.2.
B-06258	z/OS	UDM, UDMSRV	Add support for ASA control character conversion/formatting. Previously delivered as B-03155 in 6.3.0.2.
B-06491	All	UDM UDMSRV UDMMCENG	Add milliseconds value to built-in variables for access, create, and modify file timestamps. Previously delivered as B-04648 in 6.3.0.3.
B-06501	All	UAGSRV UAGMCENG	Add support for new resolvable script Credential Functions : <code>\${_credentialUser('<credential-name>')}</code> and <code>\${_credentialPwd('<credential-name>')}</code> . Note: This feature requires Universal Controller 6.4.0.0 and later. Previously delivered as B-06427 in 6.3.0.3.
B-06854	All	OMS, UBROKER, UCMD, UCMSRV, UCTL, UCTTSRV, UDM, UDMSRV, UEM, UEMSRV	Add <code>msg_suppression_list</code> option to filter unwanted messages (e.g., UNV0193W, which warns of deprecated SSL ciphers).
B-06882	z/OS	UAGSRV	Check which UAGSRV SMF exits are loaded at startup and report any that are not loaded.
B-06895	z/OS	UAGSRV, UAGUJI	Re-enable support for accessing SWA control blocks above the line on z/OS 2.2 or higher. Note: This updates a change delivered for D-06720 in 6.3.0.3, which required SWA control blocks to be below the line.
B-06909	z/OS	UBROKER	Update the <code>APPL=UAG,STATUS MODIFY</code> command to display version information instead of build dates for UAGSRV SMF exits.
B-06934	z/OS	Install	Provide a z/OS distribution file in .zip file format.
B-06956	z/OS	UAGSRV UAGUJI UAGUJV	Extend timeouts for acquiring exclusive access to the JSC dataset ENQUEUE . Previously delivered as B-07352 in 6.3.0.6.
B-06959	z/OS	Install	Update packaging to simplify distribution file uploads and handling. Note: Be sure to read the updated z/OS Installation instructions in the Universal Agent user documentation before installing 6.4.0.0 on z/OS.
B-06974	z/OS	UAGSRV	Extend timeouts for JME creation when launching a z/OS task . Previously delivered as B-07353 in 6.3.0.6.

B-07046	z/OS	UBROKER	Add shared_mount_point and shared_mount_point_mode configuration options to support shared UNV databases in sysplex environment.
B-07243	All	UDM, UDMSRV	Enhance the RDW attribute to process files on non-z/OS systems that contain a 4-byte Record Descriptor Word (RDW) at the start of each record.
D-04333	AIX, Solaris SPARC, z/OS	USAP	Prevent XBP 3.0 Create Variant operation failure when SAP note 1144882 has been applied to system. Previously delivered as D-06679 in 6.3.0.2.
D-06381	AIX, Linux x64 (RPM package), Windows z/OS	UAGCMD UAGCMDZ	Generate unique names for trace files . Previously delivered as D-06382 in 6.3.0.1.
D-06387	All	UAGSRV	Clean up temporary script files created by SAP tasks . Previously delivered as D-06888 in 6.3.0.3.
D-06413	AIX, Linux x64 (RPM package), Windows, z/OS	UBROKER	Prevent Broker crash when it receives a specially-crafted malformed header. Previously delivered as D-06367 in 6.3.0.1.
D-06413	All	UBROKER USSMCENG	Protect initial handshake message protocol from malicious payloads. Previously delivered as D-06885 in 6.3.0.3.
D-06436	z/OS	UAGSRV	Prevent possible S0C4 during variable substitution. Previously delivered as D-06437 in 6.3.0.1.
D-06439	z/OS	UAGSRV	Tasks may stay in Submitted state after failing with a JCL error. Previously delivered as D-06440 in 6.3.0.1.
D-06442	z/OS	UAGSRV	Prevent jobnames that start with IEFCL from falsely reporting a JCL error. Previously delivered as D-06443 in 6.3.0.1.
D-06455	z/OS	UAGSRV	Fix behavior that allows the Job Submission Checkpoint (JSC) dataset to contain duplicate keys, resulting in z/OS tasks that stay in Submitted status. Previously delivered as D-06456 in 6.3.0.1.
D-06558	z/OS	UAGSRV	Fix error that prevents return of job output to original MSGCLASS when the UAG JES_SYSOUT_DISP configuration option value is RELEASE,*. Previously delivered as D-06559 in 6.3.0.2.

D-06591	All	UDM	Add a message to display the value of the DATA_COMPRESSION configuration option following UDM Manager/Server session negotiation. Previously delivered as D-06592 in 6.3.0.2.
D-06606	z/OS	UAGSRV	Ensure that JCL statements are padded with blanks instead of NULLs. Previously delivered as D-06547 in 6.3.0.2.
D-06664	z/OS	UBROKER, UCMD, UCTL, UDM	Get default label from key ring if no value is specified for saf_key_ring_label when using System SSL.
D-06720	z/OS	UAGUJI, UAGUJV	Prevent possible abend when encountering SWA control blocks that reside above the bar. Previously delivered as D-06721 in 6.3.0.2.
D-06728	z/OS	UAGSRV	Prevent possible S0C4 in UAGSRV function WjssLocalJmeDelete(). Previously delivered as D-06751 in 6.3.0.2.
D-06729	All	UDM, UDMSRV	Set error return code when the length of a file's records exceeds a z/OS datasets's allocated record length . Previously delivered as D-05880 in 6.3.0.2.
D-06736	All	UDM UDMSRV	Correct problem trimming spaces from very long records. Previously delivered as D-06803 in 6.3.0.3.
D-06745	All	UDM, UDMSRV	Fix conversion error that may occur when creating a session using UTF-8 or UTF-16 codepages . Previously delivered as D-01721 in 6.3.0.2.
D-06748	All	UBROKER	Improve authentication of message parameters sent during a session negotiation's handshake. Previously delivered as D-06774 in 6.3.0.2.
D-06760	z/OS	UAGSRV	Reduce CPU utilization.
D-06780	All	UDM UDMSRV	Make sure memory allocation errors that occur when a large ACK_WINDOW value is used when NFT is disabled are reported prior to UDM failure. Previously delivered as D-06781 in 6.3.0.3.
D-06830	z/OS	UAGSRV, UAGUSI	Fail task if all steps FLUSH on rerun because of a JCL COND=(0,NE) statement. Note: Previously delivered as D-05592 in 6.3.0.3.
D-06835	AIX, Solaris SPARC, z/OS	USAP	Handle FAILED exception from RSPC_API_CHAIN_GET_PROCESSES function. Previously delivered as D-06838 in 6.3.0.2.
D-06877	z/OS	UAGUJI	Change wait for JSC ENQUEUE to 15 seconds to avoid possible resource contention when multiple agents are running. Note: Previously delivered as D-06940 in 6.3.0.3.

D-06892	All	USAP	Use Universal Connector GROUP configuration option instead of mshost value for RFC GROUP connection parameter. Previously delivered as D-06893 in 6.3.0.3.
D-06908	z/OS	UAGSRV	Make sure jobs that end with S822 are reported correctly to Universal Controller. Previously delivered as D-06909 in 6.3.0.3.
D-06919	z/OS	UDM UDMSRV	Do not fail conversion of an FBA dataset that starts with an ASA form feed character. Previously delivered as D-06920 in 6.3.0.3.
D-06964	All	UAGSRV	Masking of sensitive values (i.e., resolved variables replaced with ****) may prevent stdout or stderr from being returned to the Controller. Note: This change was previously delivered as D-06965 in 6.3.0.3.
D-06999	z/OS	UAGUJI	Do not retain catalog information for new GDGs and other sequential datasets that did not get created in a job's initial run. Previously delivered as D-05719 in 6.3.0.3.
D-07098	All	UAGSRV	A Universal Agent task that executes a script which calls the <code>\${_credentialPwd()}</code> function may fail.
D-07107	All	UDM, UDMSRV	Connection to pre-6.3 UDM Server fails if connection was already made to a 6.3 UDM Server earlier in the same script.
D-07136	z/OS	UDM UDMSRV	UDM fails to create UTF16-encoded dataset on z/OS. Previously delivered as D-07145 in 6.3.0.4.
D-07144	z/OS	UAGSRV	Make sure an EXISTS file monitor task executed on a z/OS agent updates the status description correctly.
D-07164	z/OS	UDM, UDMSRV	UDM reports 0 (zero) files transferred when a move attempted within a loop succeeds upon retry of a failure.
D-07176	All	UAGSRV	Make sure the agent returns content from the end of available output when issuing an output retrieval request from the Controller starting at line -1.
D-07221	z/OS	UAGUJI	Make sure SKIPST parameters specified for z/OS tasks correctly skip steps that execute PROCs. Previously delivered as D-07564 in 6.3.0.6.
D-07244	All	UDM UDMSRV	Ensure that UDM does not write duplicate data to output file following successful NFT recovery. Previously delivered as D-07295 in 6.3.0.4.
D-07259	z/OS	UAGUJI	Fix a problem that prevents steps containing a DD statement which specifies DSN=NULLFILE to be selected for restart . Previously delivered as D-07563 in 6.3.0.6.

D-07333	z/OS	UAGSRV, UAGUJI	<p>Fix a problem that prevents steps that require subsequent steps from being skipped upon restart.</p> <p>Note: This fix for this item required a change to rerun behavior, as follows:</p> <p>Prior to this change, if a dataset in a job step was referenced with a disposition of OLD,DELETE, the job was searched for other step(s) which referenced the same dataset with a disposition other than OLD,DELETE. If a step was found, the initial step was marked as being dependent on the subsequent step. This could result in a job step which was marked as dependent on a later step, which is not intuitive.</p> <p>After this change, we no longer check for dataset references which occur in later steps, resolving the issue above.</p> <p>However, if a step in a job references a dataset with OLD,DELETE (effectively deleting it) and a later step (re)creates the dataset (using a disposition of NEW or MOD), the later step could be considered to be dependent on the earlier step. This is a condition we no longer report as step dependency.</p> <p>To preserve the dependency for steps whose only purpose is to delete a dataset, is to using a disposition of MOD,DELETE instead of OLD,DELETE.</p>
D-07410	z/OS	UAGSRV	An EXISTS/MISSING file monitor task does not end with a non-zero exit code upon failure.
D-07430	All	USAP	After SAP update EHP7, USAP may receive "Invalid Document" error while attempting to retrieve spooled output.
D-07433	z/OS	UAGSRV	JCL errors may not be detected in steps that execute after a step condition prevents a task from failing upon an ABEND.
D-07483	z/OS	UAGSRV	Add support for mount point names longer than 47 characters.
D-07497	z/OS	UAGUJV UAGUSI	<p>Prevent a conflict with a customer SMF exit that references the same JMR control block locations as UAGSRV SMF exits.</p> <p>Previously delivered as D-07562 in 6.3.0.6.</p>
D-07508	All	UAGSRV	Display correct values for System Monitor task responses.
D-07509	All	UDM, UDMSRV	<p>Fix a problem that could cause Universal Data Mover to prematurely stop reading a UTF16-encoded file.</p> <div style="background-color: #ffffcc; padding: 10px; margin: 10px 0;"> <p> Note The problem was observed when trying to transfer a UTF-16BE file to a z/OS dataset encoded with the IBM500 codepage. The cause of the problem was related to the size of the input file, and not to the UTF16 translation itself.</p> </div> <p>Previously delivered as D-07559 in 6.3.0.6.</p>
D-07538	z/OS	UAGSRV	Fix a problem in which a NOT CATLGD 2 on a GDG dataset may not cause a task to fail.
D-07586	All	UAGSRV	Accept the Cancel command from Controller when executing File Transfer tasks.
D-07588	z/OS	UAGSRV, UAGUJI	Steps with DD statements which reference other DD statements in the same step are not marked as restartable in the Controller.
D-07614	All	UAGSRV	Correct the agent start time reported in the Controller.
D-08705	z/OS	Install	Update jobs for upgrades to 6.4 from 4.x and 5.x. Provide new jobs to upgrade from 6.2 and 6.3 to 6.4.

IBM i Package Maintenance Levels - Agent 6.4.x



Currently, IBM i runs Workload Automation 5.1.0. This page provides information for that version.

Overview

This page identifies the package contents for the single Workload Automation 5.1.0 for IBM i release, and the maintenance level of every component in that package.

Workload Automation 5.1.0 for IBM i Packages

Release	Release Date	Universal Broker	Universal Automation Center Agent	Universal Certificate	Universal Command Manager	Universal Command Server	Universal Connector	Universal Control	Universal Database Utilities	Universal Data Mover	Universal Encrypt	Universal Enterprise Controller	Universal Event Monitor
5.1.0.0	January 27, 2012	5.1.0.0			5.1.0.0	5.1.0.0				5.1.0.0	5.1.0.0	5.1.0.0	
5.1.0.0	February 28, 2018	5.1.0.0			5.1.0.0	5.1.0.0				5.1.0.0	5.1.0.0	5.1.0.0	

5.1.0.0 - February 28, 2018

Change ID	Platform	Component	Description
B-08466	IBM i 7.3		Certify Workload Automation 5.1.0 release on IBM i 7.3.

(No component changes for this release.)

HP NonStop Package Maintenance Levels - Agent 6.4.x

- Overview
- Universal Command 2.1.1 for HP NonStop Packages
 - 2.1.1.5 - July 29, 2016
 - 2.1.1.4 - July 10, 2013
 - 2.1.1.3 - September 3, 2008
 - 2.1.1.2 - January 23, 2004
 - 2.1.1.1 - September 30, 2003



Currently, HP NonStop runs Universal Command 2.1.1. These pages provide information for that version.

Overview

This page identifies the package contents for all Universal Command 2.1.1 for HP NonStop maintenance releases and the maintenance level of every component in each package.

For each release, changes made to individual components only for HP NonStop are identified. Maintenance level changes to a component for non-HP NonStop platforms are not shown.

Universal Command 2.1.1 for HP NonStop Packages

Release	Release Date	Universal Broker	Universal Command Manager	Universal Command Server	Universal Control Manager	Universal Control Server	Universal Query	Universal Encrypt	Universal Message Translator
2.1.1.5	July 29, 2016	2.1.1.5	2.1.1.5	2.1.1.5	2.1.1.5	2.1.1.5	2.1.1.5	2.1.1.5	2.1.1.5
2.1.1.4	July 10, 2013	2.1.1.3	2.1.1.3	2.1.1.4	2.1.1.3	2.1.1.3	2.1.1.3	2.1.1.3	2.1.1.3
2.1.1.3	September 3, 2008	2.1.1.3	2.1.1.3	2.1.1.3	2.1.1.3	2.1.1.3	2.1.1.3	2.1.1.3	2.1.1.3
2.1.1.2	January 23, 2004	2.1.1.2	2.1.1.2	2.1.1.2	2.1.1.2	2.1.1.2	2.1.1.2	2.1.1.2	2.1.1.2
2.1.1.1	September 30, 2003	2.1.1.1	2.1.1.1	2.1.1.1	2.1.1.1	2.1.1.1	2.1.1.1	2.1.1.1	2.1.1.1
2.1.1.0	July 7, 2003	2.1.1.0	2.1.1.0	2.1.1.0	2.1.1.0	2.1.1.0	2.1.1.0	2.1.1.0	2.1.1.0

2.1.1.5 - July 29, 2016

(No component changes for this release; Installation scripts were modified for the x86 platform.)

2.1.1.4 - July 10, 2013

Change ID	Platform	Component	Description
D-03227	Integrity	UCMSRV	IPC files are not being cleaned up on the HP Nonstop platform.
D-03228	Integrity	UCMSRV	A setuid failure happens whenever jobs are executed on the HP Nonstop platform.

2.1.1.3 - September 3, 2008

Change ID	Platform	Component	Description
UCM-992	Itanium	UCMD	HP NonStop Itanium support.

2.1.1.2 - January 23, 2004

Change ID	Platform	Component	Description
CR01135	HP NonStop	UCMSRV	Certain errors, such as OBEY file not found, were not properly detected and resulted in exit code 0.
CR01137	HP NonStop	UCOPY	UCOPY always created files with file code 180. UCOPY is now capable of creating Guardian EDIT files as well as C files (180).
DF01060	HP NonStop	UBROKER	The ubrokerd script with the status argument only worked if run with the same user identifier as the broker is executing. Any user can now successfully execute the status command.
DF01325	HP NonStop	UBROKER	Broker log file permission was set so that only the user identifier with which the broker is running could read it. This identifier is normally super.super. File permissions are now set so everyone can read them.
DF01326	HP NonStop	UCMSRV	Server trace file permission was set so that only the user identifier with which the broker is running could read them. This identifier is normally super.super. File permissions are now set so everyone can read them.
DF01335	HP NonStop	UBROKER	The broker unv.log file does not roll over to the next generation.

2.1.1.1 - September 30, 2003

Change ID	Platform	Component	Description
CR01023	HP NonStop	UCMSRV	Added the server options CPU and PRIORITY. The CPU option permits a UCMD manager to specify the processor on which the user job executes. The PRIORITY option permits a UCMD manager to specify the priority with which the user job executes. The UCMD manager can specify both options with the manager's SERVER option (-S or -server).
DF01000	HP NonStop	UCMSRV	Standard input redirection was enabled. Changed the UCOPY program from a Guardian program to an OSS program to prevent gtacl from manipulating the data transferred in binary mode. Added the UCMD server option SCRIPT_TYPE in order to support both TACL and OSS commands and scripts. The UCMD manager can specify the option with the manager's SERVER option (-S or -server).

DF01027	HP NonStop	UBROKER	The time values printed in the UCMD messages were not correct. The C run-time library's TZ environment variable controls time values by specifying the time zone for the program. The TZ environment variable has been added to the UBROKERD startup script.
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Component Maintenance Levels - Agent 6.4.x

- Introduction
- All Universal Agent Components
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- Universal Broker
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Introduction

This page summarizes the changes introduced in each component maintenance release for Universal Agent 6.4.x.

For a list of all component changes included in the maintenance release for each platform, see:

- [z/OS Package Maintenance Levels](#)
- [Windows Package Maintenance Levels](#)
- [UNIX Package Maintenance Levels](#)

All Universal Agent Components

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-02897	All	z/OS	Add support for mixed case passwords.
B-05928	All	All	Universal Broker Keystore feature that allows a default key to be stored for Universal Encrypted command files.
B-06720	All	AIX	Port Universal Agent to 64-bit for AIX. Note: For Universal Connector for SAP users, this change also adds a dependency on the NetWeaver RFC libraries, which must exist on your system.

B-06721	All	Solaris SPARC	Port Universal Agent to 64-bit for Solaris SPARC. Note: For Universal Connector for SAP users, this change also adds a dependency on the NetWeaver RFC libraries, which must exist on your system.
D-07429	All	Windows	Trace files may not contain trace messages generated after the initial bootstrap configuration is merged.

Universal Agent for SOA

Release 6.4.1.0 - August 31, 2017

Change ID	Component	Platform	Description
B-05038	UAC	UNIX (Debian-based Linux)	Update bundled Apache AXIS2 to version 1.7.5.
B-05039	UAC	UNIX (Debian-based Linux)	Update bundled container resources to JRE 8 and Apache Tomcat 8.5.16.
B-08471	PKG	UNIX (Debian-based Linux)	Create 64-bit port of Universal Agent for SOA and deliver as a Debian package.
D-08811	UAC	UNIX (Debian-based Linux)	Help prevent Tomcat startup delays by adding the following commented-out option to startUAC.sh: -Djava.security.egd= file:/dev/urandom When uncommented and added to the CATALINA_OPTS environment variable, it may improve startup performance of the bundled Tomcat container.


Universal Automation Center Agent (UAG) ¹

Release 6.4.3.0 - June 30, 2018

Change ID	Component	Platform	Description
B-03530	UAGSRV	z/OS	Reduce dependency on the global LNKLST and allow a STEPLIB to be specified for the OPSSTP00 step which points to UAGRERUN.
B-05053	UAGSRV	All	Make default network provider OMS in UAGSRV configuration.
B-05131	UAGSRV	Unix, Windows	Add automatic path resolution for UCMD, UDM, and USAP when executed from UAG.
B-05140	UAGSRV	All	Remove obsolete options that previously supported message hub and transport components.

B-07325	UAGSRV	z/OS	Display the UAGRERUN version in the rerun report.
B-09213	UAGSRV, UAGRERUN	z/OS	Reduce dependency on SMF exits by moving rerun/restart behavior from UAGUJI to UAGRERUN.
B-09304	UAGSRV	Unix	Add the -bif_directory option to the command line for spawned UCMD, UDM, UFTP, and USAP tasks to ensure components executed from a user mode install register with the correct local Broker.
B-09338	UAGSRV, UAGRERUN	z/OS	Improve sequential dataset cleanup for reruns/restarts.
B-09340	UAGSRV, UAGRERUN	z/OS	Improve GDG dataset cleanup when a z/OS task is rerun/restarted.
B-09469	UAGRERUN, UAGUJI	z/OS	Move skip step and step list processing from UAGUJI SMF exit to UAGRERUN, along with restartable/non-restartable step eligibility and dataset deletion criteria. This change effectively deprecates UAGUJI, which is no longer provided in the z/OS delivery.
D-08988	UAGSRV	Unix	Fixes behavior where a file monitor task may stop monitoring or fail under heavy load or unusual circumstances.
D-09069	UAGSRV	z/OS	Correct "Missing command option prefix character" error on z/OS when commands exist in the Additional FTP Commands field of an FTP File Monitor task.
D-09102	UAGSRV	Windows	Fix a problem where a System Monitor executed on Windows may not authenticate specified task credentials correctly.
D-09127	UAGSRV	z/OS	Prevent creation of an empty DSN exclude list if no datasets are specified for exclusion from dataset cleanup upon a rerun/restart.
D-09174	UAGSRV	Unix, Windows	Fix a problem where FTP file monitors may not honor the specified polling time.
D-09262	UAGCMDZ	z/OS	Fix a problem where a uencrypted command file is not recognized when prefixed by 'dd:'. The 'dd:' prefix is now optional when specified with the -x command line option.

Release 6.4.2.2 - March 23, 2018

Change ID	Component	Platform	Description
B-09251	USAP, UAGSRV	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	Run an SAP Model Job and Generate an SAP Job Definition without providing a Jobcount ID. <div style="background-color: #ffffcc; padding: 10px; margin-top: 10px;">  Note Only the version number changed for UAGSRV, to support integration with a new feature delivered for the Universal Controller SAP task type (see B-09299 in the Universal Controller 6.4.x Maintenance). </div>
D-09139	UAGSRV	z/OS	Correct an issue that may cause UAGSRV to ABEND when a large job is submitted for rerun.

Release 6.4.2.1 - February 9, 2018

Change ID	Component	Platform	Description
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D-8901	UAGSRV , UFTP	z/OS	Convert LOCSITE options passed via the z/OS subcommand field to UFTP-specific options.
D-09087	UAGSRV	Windows	An application monitor that executes with credentials could cause UAGSRV to crash.
D-09089	UAGSRV	Unix, Windows	If the command line options that UAGSRV sends over STDIN to execute a Universal Command or Universal Connector for SAP are unexpectedly written to STDERR, a password in plain text may be exposed.

Release 6.4.2.0 - December 31, 2017

Change ID	Component	Platform	Description
B-06263	UAGSRV	z/OS	Add support for job classes up to 8 characters.
B-07295	UAGSRV, UFTP	Unix, Windows	Add support for passphrase-protected SSH keys to UFTP.
B-08852	UAGSRV	z/OS	Make UAG aware of other UAG instances in the Sysplex.
B-08909	UAGSRV	Unix	Do not use (or try to use) a login shell if the user id in a task's credentials starts with '^'.
B-08961	UAGSRV	All	Add ability for agent to support passwords up to 512 characters in length.
D-06417	UAGSRV	Windows	CPU utilization not transferred from Windows agents.
D-06979	UAGSRV	z/OS	Remove an extra MSGCLASS keyword from the JOB statement when New Jobname is specified in the z/OS task.
D-07169	UAGCMD, UAGCMDZ	Unix, Windows z/OS	Add support for TLS 1.2 sessions and cipher suites.
D-08672	UAGSRV	z/OS	Improve detection of NOT CATLGD 2 errors via additional support for post-execution errors.
D-08760	UAGSRV	All	Add "UFTP login failed" to task instance description when file transfer task fails due to login error.
D-08778	UAGSRV, UFTP	All	Fix error in file transfer/FTP file monitor tasks when part of the path is enclosed in double quotes.
D-08955	UAGSRV	z/OS	Improve handling of CA-7 #JO JCL omit statement.
D-08965	UAGSRV	Unix, Windows	Double slash in the URL in between the host name and the path causes the "No such file or directory" error on some of SFTP servers.
D-08978	UAGSRV	z/OS	Improve post-execution error handling so that NOT CATLGD 2 on GDG does will result in a JCL error being reported for the task.
D-08989	UAGSRV	All	If a task is submitted with a valid credential that contains a password of exactly 40 characters, the task will complete successfully although the command is not run.
D-08994	UAGSRV	z/OS	When SWA=ABOVE is configured for an initiator on zOS 2.1 ,UAGUJI can receive ABEND 0B0-24 after calling SWAREQ.

Release 6.4.1.0 - September 29, 2017

Change ID	Component	Platform	Description
B-08469	UAGSRV, UAGU83, UAGU84, UAGUJI, UAGUJV, UAGUSI, UAGUTIL	z/OS	Collect tracking data for jobs started from a Universal Controller z/OS task that will be used to preserve and recover status information in the event of a UAGSRV shutdown.
B-08611	UAGSRV	All	Add ability to bind the agent's OMS socket to a specific IP address.
D-08621	UAGSRV	Windows	Add support for new Create Console option available for Windows tasks starting with Universal Controller 6.4.2.0. This option can be used to improve capture of standard I/O from console processes launched on the Windows interactive desktop.
D-08763	UAGSRV	UNIX, Windows	Do not fail execution of a script from a UNIX or Windows task if the first line of the script is empty.
D-08781	UAGSRV	UNIX	Prevent an ops_monitor crash when a File Monitor task is cancelled.
D-08801	UAGSRV	UNIX	Ensure zlib library is statically linked (at build time) to avoid runtime dependency errors on systems where it is not installed.
D-08821	UAGSRV	All	If an SFTP File Transfer task uses stored credentials that does not have a password stored for, make sure the <code>-pwd</code> option is not part of the UFTP command line built by UAGSRV.
D-08877	UAGSRV, UCMDSRV, UEMSRV	Windows	Prevent "CSProcessCreate failed: An attempt was made to reference a token that does not exist" errors.
D-08884	UAGSRV	z/OS	Fix problem that prevents UFTP from launching when Broker's configured system_id value is blank.

¹ **UAG for z/OS was delivered in the 6.4.1.0 Agent for z/OS package on October 18, 2017.**

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-05924	OMSSRV, UAGSRV	All	Add support for TLS 1.2 protocol Previously delivered as B-05907 in 6.3.0.2.
B-06501	UAGSRV UAGMCENG	All	Add support for new resolvable script Credential Functions : <code>\${_credentialUser('<credential-name>')}</code> and <code>\${_credentialPwd('<credential-name>')}</code> . Note: This feature requires Universal Controller 6.4.0.0 and later. Previously delivered as B-06427 in 6.3.0.3.
B-06882	UAGSRV	z/OS	Check which UAGSRV SMF exits are loaded at startup and report any that are not loaded.
B-06895	UAGSRV, UAGUJI	z/OS	Re-enable support for accessing SWA control blocks above the line on z/OS 2.2 or higher. Note: This updates a change delivered for D-06720 in 6.3.0.3, which required SWA control blocks to be below the line.

B-06956	UAGSRV UAGUJI UAGUJV	z/OS	Extend timeouts for acquiring exclusive access to the JSC dataset ENQUEUE . Previously delivered as B-07352 in 6.3.0.6.
B-06974	UAGSRV	z/OS	Extend timeouts for JME creation when launching a z/OS task . Previously delivered as B-07353 in 6.3.0.6.
B-06979	UAGSRV	Unix, Windows	Provide Universal Agent support for executing scripts stored as data objects in the Controller.
B-07310	UAGSRV	Windows	Re-introduce support to execute GUI applications when the Interact with Desktop option is enabled in task definitions, component configurations, and the Universal Broker service definition. Note: This support was re-enabled for Windows versions that support desktop isolation for services. The task will execute in the interactive console session, using the credentials of the user logged into that session.
D-05850	UAGSRV	UNIX	Allow SFTP server port to be overridden when password-based authentication is used with SFTP File Transfer tasks . Previously delivered as D-06782 in 6.3.0.3.
D-06381	UAGCMD UAGCMDZ	AIX, Linux x64 (RPM package), Windows z/OS	Generate unique names for trace files . Previously delivered as D-06382 in 6.3.0.1.
D-06387	UAGSRV	All	Clean up temporary script files created by SAP tasks . Previously delivered as D-06888 in 6.3.0.3.
D-06405	UAGSRV	AIX, Linux x64 (RPM package)	Allow concurrent File Monitor instances to search for files using regular expressions that contain a comma. Previously delivered as D-06406 in 6.3.0.1.
D-06436	UAGSRV	z/OS	Prevent possible S0C4 during variable substitution. Previously delivered as D-06437 in 6.3.0.1.
D-06439	UAGSRV	z/OS	Tasks may stay in Submitted state after failing with a JCL error. Previously delivered as D-06440 in 6.3.0.1.
D-06442	UAGSRV	z/OS	Prevent jobnames that start with IEFC from falsely reporting a JCL error. Previously delivered as D-06443 in 6.3.0.1.
D-06448	UAGSRV	Windows	DELETE File Monitors succeed when file's owner does not match the value of the task's File Owner field. Previously delivered as D-06306 in 6.3.0.1.

D-06455	UAGSRV	z/OS	Fix behavior that allows the Job Submission Checkpoint (JSC) dataset to contain duplicate keys, resulting in z/OS tasks that stay in Submitted status. Previously delivered as D-06456 in 6.3.0.1.
D-06460	UAGSRV	Windows	Add ERROR_NETNAME_DELETED as a retry condition for File Monitor fault tolerance. Previously delivered as D-06487 in 6.3.0.1.
D-06467	UAGSRV	UNIX	Make sure all error information is reported for an EXISTS File Monitor task that fails because the path name specified in the task Details does not exist. Previously delivered as D-06468 in 6.3.0.3.
D-06558	UAGSRV	z/OS	Fix error that prevents return of job output to original MSGCLASS when the UAG JES_SYSOUT_DISP configuration option value is RELEASE,*. Previously delivered as D-06559 in 6.3.0.2.
D-06606	UAGSRV	z/OS	Ensure that JCL statements are padded with blanks instead of NULLs. Previously delivered as D-06547 in 6.3.0.2.
D-06720	UAGUJI, UAGUJV	z/OS	Prevent possible abend when encountering SWA control blocks that reside above the bar. Previously delivered as D-06721 in 6.3.0.2.
D-06726	UAGSRV	Windows	Prevent a situation that may result in a "CSProcessCreate: The system cannot find the file specified" error when several Windows tasks that execute scripts with user credentials are launched at once. Previously delivered as D-07296 in 6.3.0.6.
D-06728	UAGSRV	z/OS	Prevent possible S0C4 in UAGSRV function WjssLocalJmeDelete(). Previously delivered as D-06751 in 6.3.0.2.
D-06760	UAGSRV	z/OS	Reduce CPU utilization.
D-06830	UAGSRV, UAGUSI	z/OS	Fail task if all steps FLUSH on rerun because of a JCL COND=(0,NE) statement. Note: Previously delivered as D-05592 in 6.3.0.3.
D-06864	UAGSRV	UNIX, Windows	File Monitor tasks that end with a Failed status do not always end with non-zero exit codes. Previously delivered as D-06511 in 6.3.0.3.
D-06877	UAGUJI	z/OS	Change wait for JSC ENQUEUE to 15 seconds to avoid possible resource contention when multiple agents are running. Note: Previously delivered as D-06940 in 6.3.0.3.
D-06908	UAGSRV	z/OS	Make sure jobs that end with S822 are reported correctly to Universal Controller. Previously delivered as D-06909 in 6.3.0.3.
D-06937	UAGSRV	Unix	Filter out directory entries when executing an EXIST or a MISSING file monitor task with a pattern of ""."" on HP/UX and Solaris agents. Note: Previously delivered as D-06938 in 6.3.0.3.

D-06944	UAGSRV	Unix, Windows	<p>Encrypt sensitive data that is stored in the *_job jobtrack cache files.</p> <p>Note: Previously delivered as D-06945 in 6.3.0.3.</p>
D-06946	UAGSRV	Unix	<p>Prevent possible UAGSRV crash when executing scripts via Linux/Unix tasks when data scrubbing is enabled.</p> <p>Note: Previously delivered as D-06947 in 6.3.0.3.</p>
D-06964	UAGSRV	All	<p>Masking of sensitive values (i.e., resolved variables replaced with ****) may prevent stdout or stderr from being returned to the Controller.</p> <p>Note: This change was previously delivered as D-06965 in 6.3.0.3.</p>
D-06999	UAGUJI	z/OS	<p>Do not retain catalog information for new GDGs and other sequential datasets that did not get created in a job's initial run.</p> <p>Previously delivered as D-05719 in 6.3.0.3.</p>
D-07008	UAGSRV	Unix, Windows	<p>Don't include directories as part of results when executing file monitor tasks with regular expressions.</p>
D-07098	UAGSRV	All	<p>A Universal Agent task that executes a script which calls the <code>\$_credentialPwd()</code> function may fail.</p>
D-07144	UAGSRV	z/OS	<p>Make sure an EXISTS file monitor task executed on a z/OS agent updates the status description correctly.</p>
D-07176	UAGSRV	All	<p>Make sure the agent returns content from the end of available output when issuing an output retrieval request from the Controller starting at line -1.</p>
D-07193	UAGSRV	Windows	<p>File Monitors may go to Start Failure on AD Controller reboot/switchover.</p> <p>Previously delivered as D-07194 in 6.3.0.4.</p>
D-07200	UAGSRV	UNIX	<p>Tasks with UACL fail with "CSPProcessCreate failed: KrnProcessCreate" if the Agent is running as root.</p> <p>Previously delivered as D-07201 in 6.3.0.4.</p>
D-07221	UAGUJI	z/OS	<p>Make sure SKIPST parameters specified for z/OS tasks correctly skip steps that execute PROCs.</p> <p>Previously delivered as D-07564 in 6.3.0.6.</p>
D-07239	UAGSRV	Unix, Windows	<p>Correct memory leaks that may occur during heavy file monitor activity.</p>
D-07243	UAGSRV	Unix	<p>Prevent PAM authentication error in file monitor tasks when agent is installed as root.</p>
D-07248	UAGSRV	Unix	<p>CHANGE file monitors may not detect new files that are created after the task started.</p>
D-07259	UAGUJI	z/OS	<p>Fix a problem that prevents steps containing a DD statement which specifies DSN=NULLFILE to be selected for restart.</p> <p>Previously delivered as D-07563 in 6.3.0.6.</p>
D-07288	UAGSRV	Unix	<p>Execute Universal Command, UDM file transfer, and USAP tasks correctly even when application isn't in system path.</p>
D-07316	UAGSRV	Unix, Windows	<p>File monitor tasks that contain an improperly coded regular expression do not notify the user of the error.</p>

D-07333	UAGSRV, UAGUJI	z/OS	<p>Fix a problem that prevents steps that require subsequent steps from being skipped upon restart.</p> <p>Note: This fix for this item required a change to rerun behavior, as follows:</p> <p>Prior to this change, if a dataset in a job step was referenced with a disposition of OLD,DELETE, the job was searched for other step(s) which referenced the same dataset with a disposition other than OLD,DELETE. If a step was found, the initial step was marked as being dependent on the subsequent step. This could result in a job step which was marked as dependent on a later step, which is not intuitive.</p> <p>After this change, we no longer check for dataset references which occur in later steps, resolving the issue above.</p> <p>However, if a step in a job references a dataset with OLD,DELETE (effectively deleting it) and a later step (re)creates the dataset (using a disposition of NEW or MOD), the later step could be considered to be dependent on the earlier step. This is a condition we no longer report as step dependency.</p> <p>To preserve the dependency for steps whose only purpose is to delete a dataset, is to using a disposition of MOD,DELETE instead of OLD,DELETE.</p>
D-07340	UAGSRV	Unix, Windows	Report consistent return codes for file monitor tasks that fail with invalid regular expressions on Unix and Windows agents.
D-07410	UAGSRV	z/OS	An EXISTS/MISSING file monitor task does not end with a non-zero exit code upon failure.
D-07433	UAGSRV	z/OS	JCL errors may not be detected in steps that execute after a step condition prevents a task from failing upon an ABEND.
D-07440	UAGSRV	Unix	Make exit codes for CHANGE file monitor tasks executed on Unix agents consistent with those reported by Windows agents.
D-07483	UAGSRV	z/OS	Add support for mount point names longer than 47 characters.
D-07497	UAGUJV UAGUSI	z/OS	<p>Prevent a conflict with a customer SMF exit that references the same JMR control block locations as UAGSRV SMF exits.</p> <p>Previously delivered as D-07562 in 6.3.0.6.</p>
D-07508	UAGSRV	All	Display correct values for System Monitor task responses.
D-07518	UAGSRV, UCMD	Windows	Make sure that tasks executing with the "Requires Highest Privileges" (UAGSRV) or -elevate_user_token (UCMD) option successfully acquire elevated token on Windows Server 2012R2 and later.
D-07520	UAGSRV	Unix	Fix stability checks for CREATE file monitor tasks.
D-07538	UAGSRV	z/OS	Fix a problem in which a NOT CATLGD 2 on a GDG dataset may not cause a task to fail.
D-07586	UAGSRV	All	Accept the Cancel command from Controller when executing File Transfer tasks.
D-07588	UAGSRV, UAGUJI	z/OS	Steps with DD statements which reference other DD statements in the same step are not marked as restartable in the Controller.
D-07614	UAGSRV	All	Correct the agent start time reported in the Controller.

Universal Broker

Release 6.4.3.0 - June 30, 2018

Change ID	Component	Platform	Description
B-09349	UBROKER	z/OS	Create external links to UCMD Manager and USAP from Broker to support z/OS 2.3 requirements.

D-09237	UBROKER	Windows	Create a ubroker.shd file at shutdown to allow a Universal Broker service to restart even if ubroker.pid file was not deleted by previous instance.
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Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-05922	UBROKER	AIX, Linux x64 (RPM package), Windows	Turn off world-readable flag for application configuration and log files. Previously delivered as B-05827 in 6.3.0.1.
B-05925	UBROKER, USSMCENG	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add support for TLS 1.2 ciphers , AES256-GCM-SHA384 and AES128-GCM-SHA256. Previously delivered as B-05829 in 6.3.0.1.
B-05927	UBROKER	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add support for TLS 1.2 protocol . Previously delivered as B-05040 in 6.3.0.1.
B-05990	UBROKER, USSMCENG	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add MIN_SSL_PROTOCOL configuration option to manage TLS application protocol support. Previously delivered as B-05991 in 6.3.0.1.
B-06115	UBROKER	z/OS	Issue a clear error message at startup if the UNV load library is not APF authorized instead of failing with an S047 ABEND.
B-06176	UBROKER	z/OS	Enable TLS 1.2 protocol and cipher support for SystemSSL.
B-06854	UBROKER	All	Add msg_suppression_list option to filter unwanted messages (for example, UNV0193W, which warns of deprecated SSL ciphers).
B-06909	UBROKER	z/OS	Update the APPL=UAG,STATUS MODIFY command to display version information instead of build dates for UAGSRV SMF exits.
B-07046	UBROKER	z/OS	Add shared_mount_point and shared_mount_point_mode configuration options to support shared UNV databases in sysplex environment.

D-06413	UBROKER	AIX, Linux x64 (RPM package), Windows, z/OS	Prevent Broker crash when it receives a specially-crafted malformed header. Previously delivered as D-06367 in 6.3.0.1.
D-06413	UBROKER USSMCENG	All	Protect initial handshake message protocol from malicious payloads. Previously delivered as D-06885 in 6.3.0.3.
D-06664	UBROKER	z/OS	Get default label from key ring if no value is specified for saf_key_ring_label when using System SSL.
D-06748	UBROKER	All	Improve authentication of message parameters sent during a session negotiation's handshake. Previously delivered as D-06774 in 6.3.0.2.
D-07268	UBROKER	AIX	The runtime value the Broker uses for its running_max configuration option may be reset to a negative value, based on OS file descriptor limits. This fix prevents that from occurring.

Universal Certificate

Release 6.4.3.0 - June 30, 2018

Change ID	Component	Platform	Description
D-09000	UCERT	z/OS	Fix revocation date value when printing a CRL from z/OS.

Release 6.4.2.0 - December 31, 2017

Change ID	Component	Platform	Description
B-08533	UCERT	All	Add ability to generate certificate requests with a version of 3 and exponent of 65537.
B-08534	UCERT	All	Allow an existing private key to be used when creating certificate request.
B-08853	UCERT	All	Accept key sizes greater than 2048. 3072 and 4096 are now supported.
D-07315	UCERT	All	Add support for MD5, SHA-256, SHA-384, and SHA-512 signature algorithms. SHA-1 is still supported, and is the default.
D-08984	UCERT	All	Add ability to specify SHA-1, SHA-256, SHA-384, or SHA-512 signature algorithms when creating a CRL.
D-08985	UCERT	All	Add support for configurable encryption for transport files.
D-09012	UCERT	All	Revoke reason privilegeWithdrawn is misspelled. Corrected to accept privilegeWithdrawn.
D-09017	UCERT	All	Incorrect Revocation Reasons in CRL.
D-09028	UCERT	All	Unspecified Revoke Reason SHOULD be absent instead of using the unspecified (0) reasonCode value.
D-09029	UCERT	All	Misspelled revocation reasons "affiliationChange" and "priviledgeWithdrawn" are accepted.

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-05927	UCERT	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add support for TLS 1.2 protocol. Previously delivered as B-05040 in 6.3.0.1.

Universal Command

Release 6.4.3.0 - June 30, 2018

Change ID	Component	Platform	Description
D-09122	UCMD, UCTL, UDM, UDMSRV, UEM, UFTP	All	Fixes a situation in which Universal Encrypted files may be left open after decryption. Such files are now closed immediately after decryption.

Release 6.4.2.0 - December 31, 2017

Change ID	Component	Platform	Description
B-08592	UCMD	z/OS	Add ability to scrub IBM Tivoli Workstation variables (specified with <code>//*%OPC</code>) from scripts executed via UCMD. Other patterns may also be scrubbed using the <code>script_line_ignore_mask</code> option.
D-03338	UCMSRV	z/OS	Fixes a problem where UCMSRV allocates a new EMCS console with each instance, causing EMCS consoles to be over time. UCMSRV will now attempt to reuse a EMCS console name before allocating a new one.

Release 6.4.1.0 - September 29, 2017

Change ID	Component	Platform	Description
D-08877	UAGSRV, UCMSRV, UEMSRV	Windows	Prevent "CSProcessCreate failed: An attempt was made to reference a token that does not exist" errors.

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-05922	UCMD, UCMSRV, UCMMCENG	AIX, Linux x64 (RPM package), Windows	Turn off world-readable flag for application configuration and log files. Previously delivered as B-05827 in 6.3.0.1.
B-05925	UCMD, UCMSRV	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add support for TLS 1.2 ciphers , AES256-GCM-SHA384 and AES128-GCM-SHA256. Previously delivered as B-05829 in 6.3.0.1.
B-05927	UCMD, UCMSRV	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add support for TLS 1.2 protocol . Previously delivered as B-05040 in 6.3.0.1.
B-05990	UCMDSRV, UCMSRV	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add MIN_SSL_PROTOCOL configuration option to manage TLS application protocol support. Previously delivered as B-05991 in 6.3.0.1.
B-06176	UCMD	z/OS	Enable TLS 1.2 protocol and cipher support for SystemSSL.
B-06854	UCMD, UCMSRV	All	Add <code>msg_suppression_list</code> option to filter unwanted messages (for example, UNV0193W, which warns of deprecated SSL ciphers).
B-07310	UCMD	Windows	Re-introduce support to execute GUI applications when the Interact with Destkop option is enabled in task definitions, component configurations, and the Universal Broker service definition. Note: This support was re-enabled for Windows versions that support desktop isolation for services. The task will execute in the interactive console session, using the credentials of the user logged into that session.

D-06664	UCMD	z/OS	Get default label from key ring if no value is specified for saf_key_ring_label when using System SSL.
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Universal Connector for PeopleSoft

Release 6.4.3.0 - June 30, 2018

Change ID	Component	Platform	Description
B-09287	UPPS	Unix, Windows	Stop WAITing for a job and consider item complete when its distribution status is NA and it has a runtime status of Cancelled.
B-09298	UPPS	Unix, Windows	Add agent support for the Controller's new PeopleSoft task type.

Release 6.4.2.0 - December 31, 2017

Change ID	Component	Platform	Description
B-08563	UPPS	Unix (Linux RPM), Windows	UPPS Allow Submit Command options to be specified from the command line and a definition file.


Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
D-07428	UPPS	Unix, Windows	Some commands may cause UPPS to crash.

Universal Connector for SAP

Release 6.4.2.1 - March 23, 2018

Change ID	Component	Platform	Description
B-09118	USAP	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	Modify USAP "generate job definition" command to generate an XBP 3.0 style spool list recipient.

B-09251	USAP, UAGSRV	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	Run an SAP Model Job and Generate an SAP Job Definition without providing a Jobcount ID.  Note Only the version number changed for UAGSRV, to support integration with a new feature delivered for the Universal Controller SAP task type (see B-09299 in the Universal Controller 6.4.x Maintenance).
D-09063	USAP	UNIX (Linux, x64 RPM-based only), Windows (x64 only)	XBP 2.0 style spool list recipient does not get defined properly from USAP job definition.

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-03348	USAP	All	Add ability to export SAP Factory and Holiday calendars.
B-05691	USAP USPMCENG	AIX, Linux x64 (RPM package), Windows, z/OS	Provide improved client fault tolerance for SAP process chains . Previously delivered as B-06010 in 6.3.0.1.
B-05983	USAP USPMCENG	All	Add new configuration option, ENABLE_JOB_STATUS_CHECK , to enable/disable calls to BAPI_XBP_JOB_STATUS_CHECK. Previously delivered as B-06503 in 6.3.0.3.
B-06012	USAP USPMCENG	AIX, Linux x64 (RPM package), Windows, z/OS	Provide ability to release intercepted child jobs . Previously delivered as B-06017 in 6.3.0.1.
D-04333	USAP	AIX, Solaris SPARC, z/OS	Prevent XBP 3.0 Create Variant operation failure when SAP note 1144882 has been applied to system. Previously delivered as D-06679 in 6.3.0.2.
D-06835	USAP	AIX, Solaris SPARC, z/OS	Handle FAILED exception from RSPC_API_CHAIN_GET_PROCESSES function. Previously delivered as D-06838 in 6.3.0.2.
D-06887	USAP	UNIX (except AIX and Solaris SPARC), Windows	Handle RFC timeouts during calls to RSPC_API_CHAIN_GET_STATUS. Previously delivered as D-06837 in 6.3.0.3.
D-06892	USAP	All	Use Universal Connector GROUP configuration option instead of mshost value for RFC GROUP connection parameter. Previously delivered as D-06893 in 6.3.0.3.
D-07275	USAP	AIX	Prevent attempts to allocate zero bytes of memory to prevent "Resource temporarily unavailable" failure.
D-07376	USAP	Unix, Windows	Display SELECT command will fail if the selusername option is used.
D-07430	USAP	All	After SAP update EHP7, USAP may receive "Invalid Document" error while attempting to retrieve spooled output.

Universal Control

Release 6.4.3.0 - June 30, 2018

Change ID	Component	Platform	Description
D-09122	UCMD, UCTL, UDM, UDMSRV, UEM, UFTP	All	Fixes a situation in which Universal Encrypted files may be left open after decryption. Such files are now closed immediately after decryption.

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-05922	UCTL UCTSRV	AIX, Linux x64 (RPM package), Windows	Turn off world-readable flag for application configuration and log files. Previously delivered as B-05827 in 6.3.0.1.
B-05925	UCTL, UCTSRV, UCTMCENG	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add support for TLS 1.2 ciphers , AES256-GCM-SHA384 and AES128-GCM-SHA256. Previously delivered as B-05829 in 6.3.0.1.
B-05927	UCTL, UCTSRV	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add support for TLS 1.2 protocol . Previously delivered as B-05040 in 6.3.0.1.
B-05990	UCTL, UCTSRV, UCTMCENG	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add MIN_SSL_PROTOCOL configuration option to manage TLS application protocol support. Previously delivered as B-05991 in 6.3.0.1.
B-06176	UCTL	z/OS	Enable TLS 1.2 protocol and cipher support for SystemSSL.

B-06854	UCTL, UCTTSRV	All	Add msg_suppression_list option to filter unwanted messages (for example, UNV0193W, which warns of deprecated SSL ciphers).
D-06664	UCTL	z/OS	Get default label from key ring if no value is specified for saf_key_ring_label when using System SSL.

Universal Data Mover

Release 6.4.3.0 - June 30, 2018


Change ID	Component	Platform	Description
B-08953	UDM, UDMSRV	All	Add support for sleep statement to scripting language.
B-09508	UDM, UDMSRV	All	Add session attributes ostype and casesensitive attributes to provide OS and file system information.
D-06562	UDM, UDMSRV	All	Wildcard token parsing from a forfiles loop does not always honor the file system's case sensitivity rules.
D-09122	UCMD, UCTL, UDM, UDMSRV, UEM, UFTP	All	Fixes a situation in which Universal Encrypted files may be left open after decryption. Such files are now closed immediately after decryption.

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-02384	UDM UDMSRV UDMMCENG	AIX, Linux x64 (RPM package), Windows, z/OS	Add ability to authenticate Broker's certificate . Previously delivered as B-06011 in 6.3.0.1.
B-05922	UDM UDMSRV	AIX, Linux x64 (RPM package), Windows	Turn off world-readable flag for application configuration and log files. Previously delivered as B-05827 in 6.3.0.1.

B-05925	UDM, UDMSRV, UDMMCENG	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add support for TLS 1.2 ciphers , AES256-GCM-SHA384 and AES128-GCM-SHA256. Previously delivered as B-05829 in 6.3.0.1.
B-05926	UDM UDMSRV UDMMCENG	AIX, Linux x64 (RPM package), Windows, z/OS	Protect against interception of sensitive information during user authentication . Previously delivered as B-05826 in 6.3.0.1.
B-05927	UDM, UDMSRV	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add support for TLS 1.2 protocol . Previously delivered as B-05040 in 6.3.0.1.
B-05990	UDM, UDMSRV, UDMMCENG	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add MIN_SSL_PROTOCOL configuration option to manage TLS application protocol support. Previously delivered as B-05991 in 6.3.0.1.
B-06176	UDM	z/OS	Enable TLS 1.2 protocol and cipher support for SystemSSL.
B-06252	UDM	All	Update UDM Manager DATA_COMPRESSION configuration option with new force parameter (that is, compress,force) to allow UDM Managers to override Server-configured compression. Previously delivered as B-06253 in 6.3.0.2.

B-06258	UDM, UDMSRV	z/OS	Add support for ASA control character conversion/formatting. Previously delivered as B-03155 in 6.3.0.2.
B-06491	UDM UDMSRV UDMMCENG	All	Add milliseconds value to built-in variables for access, create, and modify file timestamps. Previously delivered as B-04648 in 6.3.0.3.
B-06854	UDM, UDMSRV	All	Add <code>msg_suppression_list</code> option to filter unwanted messages (for example, UNV0193W, which warns of deprecated SSL ciphers).
B-07243	UDM, UDMSRV	All	Enhance the RDW attribute to process files on non-z/OS systems that contain a 4-byte Record Descriptor Word (RDW) at the start of each record.
D-06380	UDM UDMSRV	UNIX	Display correct version information for UDM Server . Previously delivered as D-06379 in 6.3.0.3.
D-06591	UDM	All	Add a message to display the value of the DATA_COMPRESSION configuration option following UDM Manager/Server session negotiation. Previously delivered as D-06592 in 6.3.0.2.
D-06664	UDM	z/OS	Get default label from key ring if no value is specified for <code>saf_key_ring_label</code> when using System SSL.
D-06729	UDM, UDMSRV	All	Set error return code when the length of a file's records exceeds a z/OS datasets's allocated record length . Previously delivered as D-05880 in 6.3.0.2.
D-06736	UDM UDMSRV	All	Correct problem trimming spaces from very long records. Previously delivered as D-06803 in 6.3.0.3.
D-06745	UDM, UDMSRV	All	Fix conversion error that may occur when creating a session using UTF-8 or UTF-16 codepages . Previously delivered as D-01721 in 6.3.0.2.
D-06780	UDM UDMSRV	All	Make sure memory allocation errors that occur when a large ACK_WINDOW value is used when NFT is disabled are reported prior to UDM failure. Previously delivered as D-06781 in 6.3.0.3.
D-06919	UDM UDMSRV	z/OS	Do not fail conversion of an FBA dataset that starts with an ASA form feed character. Previously delivered as D-06920 in 6.3.0.3.
D-07107	UDM, UDMSRV	All	Connection to pre-6.3 UDM Server fails if connection was already made to a 6.3 UDM Server earlier in the same script.
D-07136	UDM UDMSRV	z/OS	UDM fails to create UTF16-encoded dataset on z/OS. Previously delivered as D-07145 in 6.3.0.4.
D-07164	UDM, UDMSRV	z/OS	UDM reports 0 (zero) files transferred when a move attempted within a loop succeeds upon retry of a failure.

D-07244	UDM UDMSRV	All	Ensure that UDM does not write duplicate data to output file following successful NFT recovery. Previously delivered as D-07295 in 6.3.0.4.
D-07380	UDM, UDMSRV	Unix	UDM may crash on AIX during execution of a File Transfer task.
D-07509	UDM, UDMSRV	All	Fix a problem that could cause Universal Data Mover to prematurely stop reading a UTF16-encoded file. <div style="background-color: #ffffcc; padding: 10px; margin: 10px 0;">  Note The problem was observed when trying to transfer a UTF-16BE file to a z/OS dataset encoded with the IBM500 codepage. The cause of the problem was related to the size of the input file, and not to the UTF16 translation itself. </div> Previously delivered as D-07559 in 6.3.0.6.

Universal Encrypt

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-05923	UENCRYPT	AIX, Linux x64 (RPM package), Windows, z/OS	Create new files using defaults of AES256 encryption and an expanded 32-bit key. Previously delivered as B-05825 in 6.3.0.1.
B-06027	UENCRYPT	All	Add ""legacy"" option to -aes parameter to generate encrypted command files compatible with pre-6.3.0.1 versions of Universal Encrypt. Note: Previously delivered as B-06028 in 6.3.0.1.

Universal Event Monitor

Release 6.4.3.0 - June 30, 2018

Change ID	Component	Platform	Description
D-09122	UCMD, UCTL, UDM, UDMSRV, UEM, UFTP	All	Fixes a situation in which Universal Encrypted files may be left open after decryption. Such files are now closed immediately after decryption.

Release 6.4.1.0 - September 29, 2017

Change ID	Component	Platform	Description
D-08877	UAGSRV, UCMDSRV, UEMSRV	Windows	Prevent "CSProcessCreate failed: An attempt was made to reference a token that does not exist" errors.

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-05922	UEM UEMSRV	AIX, Linux x64 (RPM package), Windows	Turn off world-readable flag for application configuration and log files. Previously delivered as B-05827 in 6.3.0.1.
B-05925	UEM, UEMSRV, UEMMCENG	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add support for TLS 1.2 ciphers , AES256-GCM-SHA384 and AES128-GCM-SHA256. Previously delivered as B-05829 in 6.3.0.1.
B-05927	UEM, UEMSRV	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add support for TLS 1.2 protocol . Previously delivered as B-05040 in 6.3.0.1.
B-05990	UEM, UEMSRV, UEMMCENG	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add MIN_SSL_PROTOCOL configuration option to manage TLS application protocol support. Previously delivered as B-05991 in 6.3.0.1.
B-06854	UEM, UEMSRV	All	Add msg_suppression_list option to filter unwanted messages (for example, UNV0193W, which warns of deprecated SSL ciphers).

Universal FTP Client

Release 6.4.3.0 - June 30, 2018

Change ID	Component	Platform	Description
B-09121	UFTP	All	Add wildcard support for GET/PUT/DELETE commands, allowing them to operate on one or more files.
B-09258	UFTP	All	Improve error reporting when an attempt is made to transfer multiple files to a destination that is not a directory.
B-09268	UFTP	All	Remove wildcard requirements for MGET/MPUT/MDELETE commands, allowing them to operate on single files.
B-09354	UFTP	Unix, Windows	Increase maximum allowable packet size for SFTP transfers.
D-09212	UFTP	All	Prevent exception if user does not have access to the local source directory when executing an (M)PUT command.
D-09122	UCMD, UCTL, UDM, UDMSRV, UEM, UFTP	All	Fixes a situation in which Universal Encrypted files may be left open after decryption. Such files are now closed immediately after decryption.

Release 6.4.2.1 - February 9, 2018

Change ID	Component	Platform	Description
D-09064	UFTP	Unix, Windows	(M)DELETE and (M)GET with move fail when remote relative path is specified for an SFTP file transfer task.
D-09067	UFTP	Unix, Windows, z/OS	When the file path specified by the -src option contains no trailing slash, its LIST output differs from the output shown when the trailing slash is specified.
D-09096	UFTP	Unix, Windows, z/OS	Do not treat a CURLE_PARTIAL_FILE (18) return code value as a failure when it is accompanied by a server return code of 450.
D-09097	UFTP	z/OS	Accept FTP server passwords up to 255 characters when a z/OS UFTP client is executed via a File Transfer task.

Release 6.4.2.0 - December 31, 2017

Change ID	Component	Platform	Description
B-07295	UAGSRV, UFTP	Unix, Windows	Add support for passphrase-protected SSH keys to UFTP.
B-08855	UFTP	All	Make the trailing slash optional when issuing a LIST command against a directory.
B-09076	UFTP	All	Add additional return code values from libcurl operations to improve problem diagnosis.
D-08778	UAGSRV, UFTP	All	Fix error in file transfer/FTP file monitor tasks when part of the path is enclosed in double quotes.

D-08907	UFTP	All	SFTP transfer fails with exit code 79, "generic error reported from the SSH layer".
D-08980	UFTP	All	The -src option for the LIST command should be optional. When no path is specified for the -src option, the contents of the user's home directory or server's rooted location is shown.
D-08981	UFTP	Unix, Windows	Return a file's path when executing a list so Controller variables are populated correctly when an SFTP file monitor executes.
D-08999	UFTP	All	Multi-line FTP server responses not handled by command callbacks.

Release 6.4.1.0 - September 29, 2017

Change ID	Component	Platform	Description
D-08755	UFTP	UNIX, Windows	Fix an error that may cause UFTP to fail when using symbolic links to reference source files in an MGET operation over SFTP.
D-08822	UFTP	UNIX, Windows	Start an SFTP transfer session in the remote user's HOME directory, instead of the top of the file system.
D-08823	UFTP	UNIX	Fix "stat failed: (75) Value too large for defined data type" that may occur when retrieving files from a CIFS-mounted location.

Release 6.4.0.1 - July 28, 2017

Change ID	Component	Platform	Description
D-08710	UFTP	UNIX, Windows	Fix issue that prevents SFTP connection when key exchange is negotiated down to Diffie-Hellman Group Exchange with SHA1.
D-08733	UFTP	UNIX, Windows	Fix issue that may prevent an SFTP file monitor task from correctly recognizing an existing file.

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-05351	UFTP	All	<p>A new Universal FTP client component is available that executes for FTP file monitor and FTP file transfer tasks submitted from the Controller.</p> <p>Note: This is a complete replacement for native FTP client execution (and the Cygwin client provided for Windows agents).</p> <p>The client supports FTP,SFTP,FTPS, and TFTP protocols.</p> <p>It is also installed as a stand-alone component, which may be executed from the command line or z/OS job.</p>

Universal Message Service (OMS)

Release 6.4.3.0 - June 30, 2018

Change ID	Component	Platform	Description
B-09384	OMSSRV	Unix, Windows	Refresh message level for OMS Server in response to a UCTL refresh command.
B-09386	OMS Client	Unix, Windows	Improve diagnostic information collection in the OMS Java client, which exchanges messages between an OMS Server and the Controller.

Release 6.4.1.0 - September 29, 2017

Change ID	Component	Platform	Description
B-07133	OMS	UNIX, Windows	Add <code>MAX_CONNECTIONS</code> configuration option to support up to 30,000 concurrent connections to the OMS Server.
B-08469	UAGSRV, UAGU83, UAGU84, UAGUJI, UAGUJV, UAGUSI, UAGUTIL	z/OS	Collect tracking data for jobs started from a Universal Controller <code>z/OS</code> task that will be used to preserve and recover status information in the event of a UAGSRV shutdown.

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-06165	OMS	UNIX	Increase the maximum number of allowable <code>TCP/IP</code> connections. Previously delivered as B-04195 in 6.3.0.2.
B-06854	OMS	All	Add <code>msg_suppression_list</code> option to filter unwanted messages (for example, UNV0193W, which warns of deprecated SSL ciphers).
D-07046	OMS	Unix, Windows	A 6.3 OMS Server may reject session negotiation attempts from the Controller.

Universal Query

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
B-05922	UQUERY	AIX, Linux x64 (RPM package), Windows	Turn off world-readable flag for application configuration and log files. Previously delivered as B-05827 in 6.3.0.1.

B-05927	UQUERY	HP-UX Itanium, Linux x86, Linux x64 (Debian package), Solaris Intel, Solaris SPARC, zLinux	Add support for TLS 1.2 protocol . Previously delivered as B-05040 in 6.3.0.1.
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Install

Release 6.4.3.0 - June 30, 2018

Change ID	Component	Platform	Description
B-07082	Install	Unix, Windows	Add option to install to disable UAGSRV execution at Universal Broker startup.
B-09033	Install	Unix (all, except HPUX), Windows	Bundle a Python3 distribution with the Universal Agent. NOTE: This option is not available for user mode installs.
B-09240	Install	Unix, Windows	Add ability to set the agent_clusters option in UAGSRV's configuration.
B-09418	Install	Unix, Windows	Add ability to set the agent_ip option in UAGSRV's configuration.

Release 6.4.2.1 - February 9, 2018

Change ID	Component	Platform	Description
B-09082	Install	Windows	Remove delivery of Microsoft VisualC++ 2005 runtime libraries, which have been superseded by the 2010 runtimes.
B-09094	Install (user mode only)	Windows	Update interface to ubrsvc.bat with -start, -restart, and -status options.
D-09068	Install (user mode only)	Windows	Ensure that UCMD, UDM, UFTP, and USAP always register with the correct local Universal Broker when executed via a Controller task on a user mode-installed Agent.
D-09082	Install	Unix (AIX)	AIX upgrade fails because of an existing ./archive1/.archive1 directory.

Release 6.4.2.0 - December 31, 2017

Change ID	Component	Platform	Description
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B-05451	Install	Windows	Add ability to install multiple agent instances on Windows using a new user-mode install package.
B-08786	Install	Unix	Remove ops_sshpwd from the Unix install packages .
D-08996	Install	Unix (AIX)	AIX permissions for sample def files have wrong filesystem permissions.
D-09021	Install	Unix (Solaris SPARC)	Require SUNW_1.3.1 patch level for libxnet.so.

Release 6.4.1.0 - September 29, 2017

Change ID	Component	Platform	Description
B-06846	Install	UNIX (AIX)	Replace installp-based installation with RPM package .
D-08769	Install	UNIX	Update user-mode install to set the keystore_path option in ubroker.conf to the correct location within the local install path.
D-08797	Install	UNIX	User-mode install fails if /tmp is mounted with noexec option.

Release 6.4.0.0 - July 19, 2017

Change ID	Component	Platform	Description
D-06865	Install	Windows	Mask passwords displayed by Stonebranch trace functions in install log . Previously delivered as D-06846 in 6.3.0.3.
B-06931	Install	Windows	Remove support for Windows XP, Server 2003, and Server 2008. Only allow installs on Windows 7 and Server 2008 R2 and higher.
B-06934	Install	z/OS	Provide a z/OS distribution file in .zip file format.
B-06959	Install	z/OS	Update packaging to simplify distribution file uploads and handling. Note: Be sure to read the updated z/OS Installation instructions in the Universal Agent user documentation before installing 6.4.0.0 on z/OS.
D-05829	Install	Unix	Make sure usermode installs set correct installation paths in configuration files.
D-07130	Install	Unix	Make case conversion of character strings more portable in install script.
D-07135	Install	Unix	Make function implementation more portable.
D-07158	Install	Unix	Prevent values specified for UserName and GroupName command line arguments from being overridden in script.
D-07317	Install	Unix	Fix a problem in unvinst script that could prevent it from stopping an active ubrokerd process.
D-07565	Install	Windows	Fix a problem that could cause a silent install to fail when RUNBROKERASUSER=0 is specified. The install incorrectly tried to authenticate the default credentials for a Broker service account whose password had been changed. The authentication failure was ignored for interactive installs, but caused silent installs for fail. Previously delivered as D-07566 in 6.3.0.6.
D-07579	Install	Windows	Prevent display of UBROKERPASSWORD value in install log.
D-08705	Install	z/OS	Update jobs for upgrades to 6.4 from 4.x and 5.x. Provide new jobs to upgrade from 6.2 and 6.3 to 6.4.

