Database and Middleware Automation

Ultimate Edition

Software Version: 10.50

Release Notes

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Hewlett Packard Enterprise

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What's new

HP DMA 10.50 continues our focus on simplifying enablement of self-service cloud environments, improving time-to-value, reducing total cost of managing traditional database and middleware platforms and broadening support for database and middleware use cases – with a focus on patching, provisioning and migrations/upgrades.

Over seventy-nine newly supported platform use cases have been added and 41 Change Request and 29 enhancements have been addressed in this release. Important highlights include:

Feature	Description
HPE DMA Premium Edition	All improvements to DMA Ultimate workflows have been incorporated into DMA Premium Edition. An impressive set of new DMA Premium Edition features extend the supported use cases to seamlessly integrate with HPE Operations Orchestration (OO) and HPE Cloud Service Automation (CSA) and other HPE IT Operations Management products like HPE IT Operations Compliance and HPE Codar.
	DMA Premium use cases run as native HPE OO content, negating the need to install an HPE Server Automation (SA) or HPE DMA Ultimate infrastructure. This capability now enables HPE CSA, in conjunction with HPE OO, to seamlessly provide a Database-as-a-service (DBaaS) and Platform-as-a-Service (PaaS) capability to end users, without requiring end-user expertise with database or middleware technologies.
	This release introduces eight new HPE CSA capsules for DMA Premium Edition containing the following features:
	• A total of 43 new HPE CSA service designs are available within the HPE CSA capsules, supporting personas like database instance owner, database instance administrator, database user, middleware instance owner, middleware instance administrator, etc.
	• Provisioning of Oracle, SQL Server, MySQL, JBoss, WebSphere, Apache Web Server, Apache Tomcat and WebLogic environments, including cluster support.

Feature	Description
	• Patching of standalone and clustered Oracle and SQL Server environments, including Oracle grid and data guard with rolling patches and rollback. • Patching of standalone MySQL environments. • Migration and upgrade of Oracle environments to alternate OS platforms, including Exadata, for Oracle 11.2.0.4 or 12.x releases. • Migration and upgrade of SQL Server database environments to SQL Server 2012 or 2014 releases from earlier releases. • Provisioning and patching of standalone WebSphere, WebLogic, and JBoss CE, EAP and WildFly environments. • Provisioning and patching of clustered WebSphere and WebLogic environments. • Code release into WebSphere, WebLogic and JBoss, Oracle and SQL Server. • Miscellaneous utilities like start/stop of a database instance, drop database, provision Oracle client, etc. There is no overlap between the DMA Premium Content Pack and the HPE OO Database or Middleware Content Pack functionality. For more information, refer to HPE DMA Premium Edition documentation provided under the DMA_Premium_10.50 folder in the master .zip file or access the most recent version from https://softwaresupport.hpe.com/.
Oracle	• Patching and rollback (standalone) - Added platform support on Windows 2008 R2, Windows 2012 R2 and Solaris x86. • Patching and rollback (standalone) - Support for the following patching: ○ CPU patching ○ Combination of CPU and OJVM patching ○ PSU patching ○ Combination of PSU and OJVM patching ○ one-off patching ○ OJVM patching • Patching (Grid) – Support of OJVM patching • SQL Release - Support of master script execution (ability to download one level of embedded scripts from HPE SA core) • Compliance - Support of CIS latest benchmarks.
SQL Server	• Compliance tests use the latest Center for Internet Security (CIS)

Feature	Description
	standards
	• SQL Release - Support of master script execution (ability to download one level of embedded scripts from HPE SA core)
DB2	• DB2 HADR patching and rollback (offline patching)
MySQL	• Compliance tests use the latest Center for Internet Security (CIS) standards
Sybase	• New support for Start/Shutdown of data server and backup server components of a Sybase instance
WebSphere	• New support for provisioning using a non-root user ID • Provisioning and patching - support for IHS, plug-in, and federate IHS with WAS packages • Supports patching the Java that is used by WebSphere
WebLogic	• Support for provisioning using a non-root user ID • Supports patching the Java that is used by WebLogic domains
JBoss	• Support for provisioning using a non-root user ID • Supports patching the Java that is used by JBoss
Apache Web Server	• When provisioning a domain, Apache may now be provisioned to run as a service
Apache Tomcat	• When provisioning a domain, Tomcat may now be provisioned to run as a service
Platform	• The FIPS 140-2 encryption standard is now supported • HPE Software's AutoPass licensing is now enabled, allowing a customer to determine number of licenses being used • Workflow error recovery improvements • A new HPE DMA maintenance history is now recorded into the DMA repository database • The DMA server Tomcat component has been upgraded to use Java 1.8 • Role-based access controls can now be applied to workflow Console and History pages to limit viewing by authorized users only. For example, separation of database from middleware workflow history viewing.
Documentation	• DMA documentation is packaged as a browser-based online help system. The documentation can be accessed using the URL http://<dma-server>:8443/dma/docs. A Help link is added on the top-right corner of the DMA user interface. Clicking the Help link

Feature	Description
	opens the DMA documentation in a separate browser window.
	• DMA documentation is also available on HPE Live Network. HP Passport credentials are required to access this site. The documentation available on HPE Live Network is the latest.

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Installation and uninstallation scripts

The HPE DMA installation and removal scripts are included in the DMA_10.50.000.000_Install folder:

File Name	Description
dma_install.sh install-options.txt installhelperscript.sh	Tools that automate the installation of HPE DMA
dma_remove.sh remove-options.txt removehelperscript.sh	Tools that automate the uninstallation of HPE DMA

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Added support

HPE DMA 10.50.000.000 adds support for the following technologies:

• JRE version 1.8

• Windows 2008 R2, Windows 2012 R2 and Solaris x866 support for Oracle patching and rollback (standalone) workflows

For more information, see the Support Matrix.

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Supported integrations

HPE DMA 10.50.000.000 adds support for the following technologies:

- HPE Server Automation (SA)

  For more information, see the section "HPE DMA with HPE SA" of *HPE DMA Installation Guide*.

- HPE Operations Orchestration

  For more information, see the following:

  - Integration Guide for HPE Operations Orchestration 9.07

  - Integration Guide for HPE Operations Orchestration 10.01

Backward Compatibility

The following table provides backward compatibility information for HPE DMA 10.50.000.000.

DMA version	Target version
To use new features or enhancements in DMA 10.50 workflows	The targeted managed servers must have clients with DMA version 10.22 CP1 or later.
To use HPE DMA 10.10 (or later) content on the HPE DMA 10.50 Platform	Existing HPE DMA 10.10 (or later) workflows will run on HPE DMA 10.40 without any changes.
To take advantage of the HPE DMA 10.50 features and enhancements	To use any new features or enhancements of the new HPE DMA 10.40 workflows, after you have upgraded the HPE DMA server you must import the new solution packs, make a copy of the pertinent workflows, and then merge your customizations into it. The benefit is that you can now upgrade one workflow at a time, which allows you to upgrade workflows over a period of time rather than all at once.

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Enhancements

HPE DMA 10.50.000.000 includes the following enhancement requests. The following table includes all enhancements that were implemented after the release of HPE DMA 10.40.000.000.

To view details of each software fix, click the Change Request's link in the table to go to the HPE Software Online Support website. The first time you click a link, you must enter your HP passport information.

ID ⏶⏷	Component ⏶⏷	Summary ⏶⏷
QCCR1D226203	Apache	Provision of Apache WebServer as a Service
QCCR1D226196	DB2	Ability to apply and rollback fixpacks to DB2 Offline HADR environment
QCCR1D226208	JBoss	Support for provisioning JBoss software using a non-root user ID
QCCR1D226199	MySQL	Update MySQL CIS Compliances to use CIS Version 2
QCCR1D218051	Oracle	Update Oracle CIS Compliances to use CIS Version 2
QCCR1D221666	Oracle	Provision or Upgrade Grid Infrastructure workflow removes home if already exists
QCCR1D221810	Oracle	One-off patches not support with workflow - Oracle - Patch Home and Databases V2
QCCR1D221812	Oracle	OJVM PSU Support - workflow Oracle - Patch Grid Infrastructure and Databases v5
QCCR1D221591	Oracle	Oracle Provision Database Software v2 workflow removes Oracle Home if it already exists
QCCR1D226214	Oracle	The workflow 'Oracle - SQL Release v2' should support execution of sql scripts that are embedded in other sql scripts.
QCCR1D226222	Oracle	DMA Support for Windows
QCCR1D158001	Platform	New Registered roles should have 'Login Access' Capability assigned by default
QCCR1D205577	Platform	DMA Support for Solaris Intel
QCCR1D219052	Platform	DMA API's should allow to pass actual Server/Instance Names to Multi target workflows

ID ⇅	Component ⇅	Summary ⇅
QCCR1D226201	Platform	Support for FIPS 140-2 is required
QCCR1D226204	Platform	DMA should support AutoPass licensing to allow customer to determine number of licenses being used.
QCCR1D226209	Platform	DMA server doesn't maintain server version history
QCCR1D226212	Platform	DMA server Tomcat component needs to be upgraded to use java 1.8
QCCR1D226215	Platform	Platform improvements for Role-based access controls can now be applied to workflow and Workflow error recovery improvements
QCCR1D225018	SQL Server	MS SQL - Simulate - Install or Upgrade Faulty error handling
QCCR1D226197	SQL Server	Update MS SQL CIS Compliances to use CIS Version 2
QCCR1D226210	SQL Server	The workflow 'DB Release for SQL Server' should support execution of sql scripts that are embedded in other sql scripts.
QCCR1D226211	Sybase	Support for Start/Shutdown of data server and backup server
QCCR1D226205	Tomcat	Provision Apache Tomcat as a Service
QCCR1D223043	WebLogic	Add Patching Support for Java to use along with existing WebLogic and JBoss
QCCR1D226207	WebLogic	Support for Weblogic provisioning using a non-root user ID
QCCR1D226198	WebSphere	Support for provisioning IBM HTTP Server both root and non root users
QCCR1D226200	WebSphere	Patching IBM HTTP Server and Federating IHS under a WebSphere Application Server
QCCR1D226202	WebSphere	Patching Java of WebSphere Application Server

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Fixed defects

HPE DMA 10.50.000.000 includes the following fixes. The following table includes all the defects that were fixed after the release of HPE DMA 10.40.000.000.

To view details of each software fix, click the Change Request's link in the table to go to the HPE Software Online Support website. The first time you click a link, you must enter your HP passport information.

ID ↕	Component ↕	Summary ↕
QCCR1D219993	Common	Subflow execution failling on AIX when polling.
QCCR1D223857	Common	DMA Server logs rotating to frequently.
QCCR1D221419	DB2	Workflow DB2 - Rollback Fixback does not follow vendor documented guidelines.
QCCR1D222298	DB2	DMA 10.40 DB Patching hotfix 1 stops if TCB is not installed
QCCR1D220351	Oracle	Upgrading the database from Oracle 11gR2 to Oracle 12c fails with index out of range: 0 Error.
QCCR1D220903	Oracle	Oracle - Upgrade Database v2 flow fails during Upgrade Oracle Database step with multiple errors
QCCR1D222285	Oracle	ASM Diskstring config issue in step "Run Oracle Grid Post Install Command V2".
QCCR1D219330	Platform	DMA workflow encoding issue
QCCR1D219757	Platform	Delete of existing solution pack takes hours to complete.
QCCR1D222315	Platform	DMA RPM's cannot be installed if UNIX user is already created.
QCCR1D225212	Platform	DMA Client Running on Windows unable to delete temp directory.
QCCR1D221925	SQL Server	Unzip Archive Step Issues completes before actual unzip completes.
QCCR1D224404	SQL Server	MS SQL - Create Install or Upgrade Template ADDNODE Issue.
QCCR1D223589	WebLogic	Target selectable in "Deploy Application archive for weblogic code release" step.

ID ⇅	Component ⇅	Summary ⇅
QCCR1D217538	WebSphere	Discover WebSphere workflow is failing.
QCCR1D220218	WebSphere	The WAS discovery WF fails if the installationManager.dat file has comments in them as the parsing logic fails for the same.
QCCR1D223443	WebSphere	InstallManager location could not be found occurs during DMA websphere Discover.

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Known issues

This release has the following known issues and limitations.

ID ⇅	Component ⇅	Summary ⇅
QCCR1D220976	Common	DMA requires user credentials and URL information unnecessarily
QCCR1D223696	Common	Discovery Workflow runs very slow to discover Oracle Database on Exadata Servers
QCCR1D224083	Common	Deploy button on workflow screen requires administrator capability
QCCR1D224377	Common	Cancelled timed-out jobs still reported as running by connector
QCCR1D224804	Common	Using envapi function to create custom fields converts name to lower case
QCCR1D211732	Oracle	Patching fails with error executing the SQL sys.registry$history for Offline Databases
QCCR1D219710	Oracle	Step Patch Grid Infrastructure and Databases v5 is not having any documentation
QCCR1D219735	Oracle	Clarification on Oracle Configuration Watch functionality
QCCR1D220230	Oracle	Oracle Upgrade Database v2 from 11gR2 to 12c fails during Upgrade

ID ↕↑	Component ↕↑	Summary ↕↑
		Oracle Pre-Checks Step
QCCR1D220427	Oracle	RAC Discovery workflow fails when multiple CRS entries are present
QCCR1D222050	Oracle	Grid Patching Workflow failing against RAC Environment with unicode error
QCCR1D161733	Platform	Solution pack rollback can result in unstable DMA state (workflows, steps, functions, etc.)
QCCR1D211761	Platform	Workflow modifications should automatically sync all the related Deployments
QCCR1D213317	Platform	Workflows should validate and error out for any invalid parameter mappings between the steps
QCCR1D213911	Platform	Running discovery with Debug Turned on against a target server with 50+ Instances takes longer duration
QCCR1D216051	Platform	When user cancels a running workflow, we want to know the running process on target servers
QCCR1D221015	Platform	DMA should accept Scheduler in Local Time and adjust for DST Changes
QCCR1D222891	Platform	DMA Upload Issue when using the Host Name
QCCR1D224023	Platform	Select of all content in permissions does not work with filters applied
QCCR1D224198	Platform	HP DMA 10.30 Issues found
QCCR1D224704	Platform	DMA resource leak
QCCR1D215496	Promote	Promote Import fails with error - Failed to create workflow on destination server - response 400
QCCR1D215907	Promote	Promote Import is failing is failing due to Leading Blank or empty

ID ↓↑	Component ↓↑	Summary ↓↑
		spaces in the Deployment Parameter Values
QCCR1D215117	SQL Server	MS SQL Install Workflow fails with error Setup.exe not found in C:\Install\SQLServer2012EE\SQL_ Install

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Patch releases

To stay current with the latest fixes and security updates, we recommend that you install the latest patches for HPE DMA 10.50.000.000.

Visit the Software Patch section under the https://softwaresupport.hpe.com/group/softwaresupport/home website for available patches.

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