HP Database and Middleware Automation

Release Notes

Software version: 10.30 /May 2015

This document provides an overview of the changes made to HP Database and Middleware Automation (HP DMA) for the 10.30 release. It contains the following important information not included in the manuals.

In This Version

HP DMA 10.30 is an incremental step forward, incorporating many new or enhanced features when compared to HP DMA 10.22.

You can install HP DMA as a new installation or upgrade a previous 10.x version.

Release Highlights

HP DMA 10.30 is a significant step forward: simplifying enablement of self-service cloud environments, improving time-to-value, reducing total cost of ownership, broadening support for both database and middleware use cases, and strengthening integrations between HP Operations Orchestrations (HP OO) and HP Cloud Service Automation (HP CSA) software.

Over 25 Change Requests have been addressed in this release. Important highlights include:

- Introduction of HP DMA Express. HP DMA Express features offer a significant improvement toward seamless integration between HP DMA use cases and HP OO and HP CSA. HP DMA Express simplifies enablement of self-service cloud environments and improves time-to-value by leveraging key functionalities between HP OO and HP Cloud Service Automation (HP CSA).

  In addition, selected DMA use cases run as native HP OO content, negating the need to install an HP Server Automation (HP SA) infrastructure. This capability now enables HP CSA–in conjunction with HP OO–to seamlessly provide a database-as-a-service (DBaaS) capability to end users, without requiring end-user expertise with database technologies. For example, the DMA Express database flows enable the following automated tasks:
  - o Provisioning database software
  - o Deployment of database and middleware code release updates

  There is no overlap between the DMA Express Database Content Pack and the HP OO Database Content Pack functionality.

  For more information, refer to HP DMA Express documentation provided under DMA_Express_10.30_Edition folder in the master .zip file or access the most recent version from https://softwaresupport.hp.com/.

- Support for Postgres as the HP DMA repository database. Now, either an Oracle repository or a Postgres repository can be implemented, potentially reducing total cost of ownership.

- Oracle
  - o New patching of and migration to Oracle Exadata environments. HP DMA now supports both Oracle ODA and Exadata environments.
  - o Oracle 12c add RAC node

- SQL Server
  - o Discovery of services other than database services

- Sybase
  - o Patching and rollback of Sybase 15.7

- DB2
  - o Upgrade from DB2 9.x to 10.x
  - o Patching and rollback of DB2 10.x
  - o Provisioning of High-Availability/Disaster Recovery (HADR) environments

- New platform support for MySQL
  - o Provisioning of binaries and databases

- JBoss
  - New patching support for JBoss Enterprise edition

- WebLogic
  - New code release support for EAR and WAR files

- Platform
  - Improved workflow filtering for specific platform types (such as Oracle, DB2, etc.)
  - New centralized email processing sends email from the HP DMA Server, negating the need for each target machine to have email capability.

- HP Server Automation
  - New capability for applying HP SA self-signed certificates

- REST API
  - Updated to support all new capabilities introduced in this release

Refer to the *HP DMA 10.30 Support Matrix* for specific details.

Platform Requirements

The HP DMA version 10.30 server requires the following server platform infrastructure:

Server Platform Infrastructure	Product	Version
HP DMA Server platform	Red Hat Enterprise Linux	5.8 or 6.1 (or later), 64-bit
	SUSE Enterprise Linux	11 (or later) 64-bit
Server Management Tool	HP Server Automation	Server Automation 10.2x Ultimate Edition (SA 10.2x)[1]
		Server Automation 10.1x Ultimate Edition (SA 10.1x)
		Server Automation 10.0x Enterprise Edition (SA 10.0x)
		Server Automation 10.0x Standard Edition (SAVA 10.0x)
		Server Automation 9.1x (SA 9.1x)
DMA Backend Database Tool	Oracle Database Enterprise or Standard Edition	12c
		11gR2
	PostgreSQL Driver	9.3.5

See the *HP DMA Installation Guide* for additional information, including sizing requirements.

This document is available at the following web site:

https://softwaresupport.hp.com/

See Documentation Updates for information about accessing this web site.

Supported Browsers for HP DMA

The HP DMA web UI supports the following browsers: Chrome, Firefox, and Internet Explorer 9, 10, and 11.

Note: Internet Explorer 8 support has been deprecated.

Supported HP DMA Target Platforms

HP DMA supports managed target servers that use the following operating systems:

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[1] HP DMA only supports IPv4, so SA 10.2x must be run in IPv4 compatible mode with HP DMA.

- Linux

- Solaris

- AIX

- Windows

- HP-UX

For details regarding the operating systems and versions supported by each HP DMA workflow, see the *HP DMA Support Matrix*. This document is available at the following web site:

https://softwaresupport.hp.com/

See Documentation Updates for information about accessing this web site.

HP DMA Solution Packs

The HP DMA version 10.30 solution packs are included in the Master zip file. This includes the following solution packs:

Installation Media Directory Name	Solution Packs
`DMA_10.30.000.000_Database_Solution_Packs`	Advanced Database Patching Advanced Database Provisioning Database Compliance Database Provisioning Database Patching Database Release Management Database Refresh
`DMA_10.30.000.000_Middleware_Solution_Packs`	Application Server Provisioning Application Server Patching Application Server Configuration Management Application Server Release Management
`DMA_10.30.000.000_Server_and_Client`	Discovery Promote

> ➤ The Discovery solution pack is not automatically installed when the HP DMA server is installed. You must import it manually, as you would any other solution pack. See the *HP DMA Quick Start Tutorial* for instructions. This document is available at the following web site:
>
> https://softwaresupport.hp.com/
>
> See Documentation Updates for information about accessing this web site.

HP DMA Installation and Removal Scripts

The HP DMA installation and removal scripts are included in the **DMA_10.30.000.000_Install** folder:

File Name	Description

`dma_install.sh`
`install-options.txt`
`installhelperscript.sh`
	Tools that automate the installation of HP DMA.

`dma_remove.sh`
`remove-options.txt`
`removehelperscript.sh`
	Tools that automate the removal of HP DMA.

Backward Compatibility

To use HP DMA 10.00 or HP DMA 10.01 Content on the HP DMA 10.30 Platform:

If you desire to continue to use HP DMA 10.00 or HP DMA 10.01 content on the HP DMA 10.30 platform, you must install the HP DMA 10.01 Content Forward Compatibility Solution Pack. To do this, contact HP support by going to:

https://softwaresupport.hp.com/

Open a support case for Database and Middleware Automation and request the HP DMA 10.01 Content Forward Compatibility Solution Pack.

To use HP DMA 10.10 (or later) Content on the HP DMA 10.30 Platform:

HP has improved the upgrade experience. Existing HP DMA 10.10 (or later) workflows will run on HP DMA 10.30 without any changes.

To take advantage of the HP DMA 10.30 features and enhancements:

To use any new features or enhancements of the new HP DMA 10.30 workflows, after you have upgraded the HP DMA server you must import the HP DMA 10.30 solution pack, make a copy of the pertinent HP DMA 10.30 workflow, 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.

Fixed Issues

To display details about each software fix, click the Change Request's link in the table to go to the HP Software Online Support web site. The first time you click a link, you must enter your HP passport information (see Support).

Important: HP DMA 10.22 CP1 defects are included in this release of HP DMA.

Note: In the user interface, workflow names may include a version (for example, v2 or v3).

Change Request	Area	Description
QCCR1D176260	DB2	The DB2 – Provision Software workflow has been updated to ensure that the installation location cannot also be the parent directory of the staging directory.
QCCR1D201718	JBoss	The JBoss – Provision Software workflow has been updated to correct issues in the execution of the "Discovery" step.
QCCR1D201839	JBoss	The JBoss Provision Software workflow has been modified so that you can provision JBoss even if there is already an instance running. If the default port is already in use by another JBoss instance or application, the workflow will offset the port to an available one.
QCCR1D205004	MS SQL	The MS SQL - Create Always On Availability Group workflow has been updated to run on default standalone instances (for example, MS SQL Server) as well as named standalone instances.

Change Request	Area	Description
QCCR1D195192	Oracle	The Oracle – Provision Database Software v2 workflow has been updated to ensure that the directory dma_temp is cleaned up if the workflow execution fails.
QCCR1D203514	Oracle	The Oracle - Provision Database Software v2 workflow has been updated to ensure that it correctly parses the RAC node list (in the Validate Provision Oracle Software step).
QCCR1D205792	Oracle	The Oracle – Provision Database Software v2 workflow has been updated to ensure a cleanup is performed if the workflow execution fails during the "Download Software" step.
QCCR1D205791	Oracle	A step in the Gather Parameters for Provision Oracle Database v2 workflow has been modified ("Add oratab Entry") to ensure that the Oracle SID value is included correctly in the output of the step during Oracle RAC Database Installation.
QCCR1D187267	Platform	The shell command has been modified to handle unset time zones in the InitialAdminPasswordUpgrader file.
QCCR1D194183	Platform	The DMA API now allows restricted users who have Write permission on any organization to access the list of unassigned servers. These users can add unassigned servers using the new parameter com.hp.dma.api.envaction.overrideUnassignedServers (set the value to "true").
QCCR1D196331	Platform	There is a new parameter available for dma.xml, com.hp.dma.core.EvaluateSmartGroupJoin, which you can use to control the refresh times for Smart groups. The default value is 10,000 milliseconds.
QCCR1D202771	Platform	Recurring requests by the server to mark a step as completed will not cause workflow failures. In case of non-receipt of an acknowledgement, the server will return a warning and move on to the next step.
QCCR1D203623	Platform	Local caching now maintains object references; this reduces the impact on database performance during parameter verification and prevents delays in launching workflows.
QCCR1D203624	Platform	The Rest API now provides an option to query for the target server on HP DMA.
QCCR1D195118	Promote	To ensure that imports can be used with dissimilar HP DMA versions, there is a new advanced parameter, "Ignore Solution Pack Version," which acts as a flag that can ignore verification of locked objects coming from different versions of the Solution Packs.

Change Request	Area	Description
QCCR1D201711	Promote	Promote workflows have been enhanced to handle non-ASCII characters in step/workflow/function description with the limitation that it removes the non-ASCII characters from the promoted content.

Enhancements

To display details about each software fix, click the Change Request's link in the table to go to the HP Software Online Support web site. The first time you click a link, you must enter your HP passport information (see Support).

Important: HP DMA 10.22 CP1 enhancements are included in this release of DMA.

Note: In the user interface, workflow names may include a version (for example, v2 or v3).

Change Request	Area	Description
QCCR1D187934	DB2	A new workflow, DB2 – Upgrade Instance and Database, installs DB2 software and upgrades the existing instances and databases on multiple instances of DB2. This workflow upgrades DB2 instance(s) and database(s) for IBM DB2 LUW (Linux, UNIX, and Windows) on the target server where it is deployed, and currently supports the following DB2 Versions: 9.5, 9.7, 10.1, and 10.5 on Red Hat Linux and AIX servers.
QCCR1D190424	DB2	There is a new workflow, DB2 – Configure HADR Database, that configures DB2 database(s) for IBM DB2 LUW (Linux, UNIX, and Windows) on the target source and destination servers where it is deployed. This is an instance-level workflow that validates that DB2 installations exist on primary and standby nodes and configures the database with HADR (High Availability Disaster Recovery).
QCCR1D190474	DB2	The new workflow, DB2 - Upgrade Instance and Database, upgrades DB2 instances from version 9.x to 10.x.
QCCR1D201363	MS SQL	The "Discover MS SQL Databases" step in various workflows includes new functions that detect the presence of Analysis, Reporting, and Integration Services.
QCCR1D202185	Oracle	There is a new workflow, Oracle – Drop Database, that deletes the Oracle database instance on an Oracle Standalone or Grid Standalone environment.

Change Request	Area	Description
QCCR1D202252	Oracle	The Oracle – Provision Database v2 workflow has been updated to include timeout logic in the "Run DBCA" step so that it times out if the output from DBCA does not change for over 60 minutes. Also, if the entire DBCA process takes longer than six hours, then the workflow will fail.
QCCR1D185470	Platform	Users can filter workflows to easily distinguish between different database types (for example, Oracle, DB2, MS SQL).
QCCR1D201717	WebSphere	The Create and Configure WebSphere Data Sources v2 workflow has been modified so that the workflow supports both cluster and stand-alone setups.

Support

You can visit the HP Software support web site at:

https://softwaresupport.hp.com/

This web site provides contact information and details about the products, services, and support that HP Software offers.

HP Software online software support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as an HP Passport user and sign in. Many also require an active support contract. To find more information about support access levels, go to the following URL:

http://h20230.www2.hp.com/new_access_levels.jsp

To register for an HP Passport ID, go to the following URL:

http://h20229.www2.hp.com/passport-registration.html

Or click the **New users - please register** link on the HP Passport login page.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your HP sales representative for details.

Documentation Updates

The first page of this release notes document contains the following identifying information:

- Version number, which indicates the software version.
- Publish date, which changes each time the document is updated.

To check for recent updates or to verify that you are using the most recent edition, visit the following URL:

https://softwaresupport.hp.com/

This site requires that you register for an HP Passport and sign-in. To register for an HP Passport ID, go to:

http://h20229.www2.hp.com/passport-registration.html

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