

# HP Database and Middleware Automation

## Release Notes

Software version: 10.20 / December 2013

This document provides an overview of the changes made to HP Database and Middleware Automation (HP DMA) for the 10.20 release. It contains the following important information not included in the manuals.

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## In This Version

HP DMA 10.20 is a significant step forward, delivering content for new relational database, application server, and operating systems releases and platforms, while improving your overall experience. HP DMA 10.20 introduces over 300 new use cases when compared to HP DMA 10.10.

New administrative capabilities greatly simplify the promotion of workflow components from development, to testing, to production environments using new, built-in workflows. You can now promote your Workflows, Steps, Parameters and all other relevant components to new environments in minutes. Built-in prerequisite and compatibility checks ensure that workflow components are exported and imported reliably, and simplify your content release management and workflow execution experience. This feature is available in the new Promote Solution Pack.

New workflows also fully support new and enhanced lifecycle capabilities for Oracle 12c, SQL Server 2012, IBM DB2 LUW 10.x, WebSphere 8.5.x, and WebLogic 10.x.

## Release Highlights

- Lifecycle management features are now fully supported for Oracle 12c, including discovery, provisioning, patching, compliance checking, code release management, upgrades from prior Oracle releases, and test data management. This includes support for new features of Oracle 12c (such as Container Database instances).
- Management of IBM DB2 has been extended to IBM DB2 10.x for discovery, provisioning, patching and upgrades.
- SQL Server has been enhanced to support in-place upgrades from SQL Server 2000, 2005, and 2008 to SQL Server 2012. SQL Server 2012 now supports full lifecycle management capabilities.
- WebSphere 8.5 and 8.5.5 are now supported in HP DMA 10.20.
- Nearly 20 new enhancements have been added to support WebLogic, Oracle, and SQL Server. Refer to the [Enhancements](#) listed in the table below for details about each enhancement.
- Significant effort has been made to standardize many workflows, improving prerequisite checking, moving this process to the first steps of a workflow, as well as standardizing workflow naming conventions to simplify administration.

- HP product portfolio integrations:
  - HP DMA 10.20 now supports the HP Server Automation Virtual Appliance (SAVA) version 10.x (also known as HP Server Automation Standard Edition 10.0).
  - Integration with HP Operations Orchestration 10.01 enables HP DMA deployments to be referenced directly within HP Operations Orchestration Developer Studio for seamless authoring of HP DMA activities within an HP Operations Orchestration workflow. This simplifies processes like provisioning, patching, or upgrading a database.
  - Improved integration with HP Cloud Service Automation enables IT self-service capabilities for Database-as-a-Service (DBaaS) and Platform-as-a-Service (PaaS) that invoke HP DMA workflows to implement these features on behalf of an IT end-user.

The overall quality and reliability of HP DMA 10.20 is a key focus of this release. As a result of these changes, many workflows have been modified and some have been replaced or deprecated. Refer to the *HP DMA 10.20 Support Matrix* for specific details, which is available at the following web site:

<http://h20230.www2.hp.com/selfsolve/manuals>

See [Documentation Updates](#) for information about accessing this web site.

## Installation Notes

Installation requirements and instructions for installing HP DMA 10.20 are documented in the *HP DMA Installation Guide*. The document file is included on the HP DMA DVD as:

DMA\_10.20\_Documentation/DMA\_10.20\_Installation\_Guide.pdf

## Platform Requirements

The HP DMA version 10.20 server requires:

- Red Hat Enterprise Linux version 5.8 or 6.1 (or later), 64-bit,

Or

- SUSE Enterprise Linux version 11 (or later), 64-bit.

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

This document is available at the following web site:

<http://h20230.www2.hp.com/selfsolve/manuals>

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 8, 9, and 10.

## Supported HP DMA Target Platforms

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

- 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:

<http://h20230.www2.hp.com/selfsolve/manuals>

See [Documentation Updates](#) for information about accessing this web site.

## HP DMA Solution Packs

The HP DMA version 10.20 solution packs are included on the installation media. This includes the following solution packs:

DVD Directory Name	Solution Packs
DMA_10.20_Database_Solution_Packs	Database Compliance Database Provisioning Advanced Database Provisioning Database Patching Advanced Database Patching Database Release Management Database Refresh
DMA_10.20_Middleware_Solution_Packs	Application Server Provisioning Application Server Patching Application Server Configuration Management Application Server Release Management
DMA_10.20_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:

<http://h20230.www2.hp.com/selfsolve/manuals>

See [Documentation Updates](#) for information about accessing this web site.

## Backward Compatibility

### To use HP DMA 10.00 or HP DMA 10.01 Content on the HP DMA 10.20 Platform:

If you desire to continue to use HP DMA 10.00 or HP DMA 10.01 content on the HP DMA 10.20 platform, you must install the HP DMA 10.01 Content Forward Compatibility Solution Pack. To do this, contact HP support by going to:

<http://support.openview.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 Content on the HP DMA 10.20 Platform:

HP has improved the upgrade experience. Existing HP DMA 10.10 workflows will run on HP DMA 10.20 without any changes.

### To take advantage of the HP DMA 10.20 features and enhancements:

To use any new features or enhancements of the new HP DMA 10.20 workflows, after you have upgraded the HP DMA server you must import the HP DMA 10.20 solution pack, make a copy of the pertinent HP DMA 10.20 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](#)).

Change Request	Area	Description
<a href="#">QCCR1D167358</a>	Oracle	The code used in the "Parse Oracle Inventory" sub-step has been changed to pull patch information from 'opatch lsinventory' rather than have users rely on Oracle directories, which may be incorrect.
<a href="#">QCCR1D167676</a>	Oracle	The workflow "Oracle - Patch Grid Infrastructure and Databases" has been modified to support different grid and database users.
<a href="#">QCCR1D168672</a>	Oracle	In HP UX Environments with Oracle 11.2.0.1 Binaries installation, use the <code>groups</code> command (instead of the <code>id</code> command) in the function to find Oracle groups.
<a href="#">QCCR1D168845</a>	MS SQL	The out-of-the-box MS SQL: <code>create database</code> command no longer fails when creating an MS SQL database.
<a href="#">QCCR1D170605</a>	Platform	Apache Struts have been upgraded to the latest version.
<a href="#">QCCR1D171357</a>	MS SQL	The Install Standalone MS SQL Instance workflow no longer fails to delete setup files.
<a href="#">QCCR1D168757</a>	Oracle	The call to the operating system <code>chmod</code> using the <code>ostools.run_command()</code> to execute the <code>chmod</code> for HP-UX no longer fails.
<a href="#">QCCR1D169138</a>	Common	If the <code>ostools.unzip_file()</code> fails when the zip has multi-directory levels, then you must create the directory before extracting the file.
<a href="#">QCCR1D169372</a>	Oracle	The instance call wrapper on HP-UX now picks up the Oracle environment and works correctly for Oracle.
<a href="#">QCCR1D170031</a>	Platform	If the HP DMA Workflow fails when the HPSA software scan is running, you must explicitly set the timeout to 6 minutes (instead of 3 minutes).
<a href="#">QCCR1D170125</a>	Oracle	For Solaris - Patch Oracle Standalone Grid, the step "Cleanup Downloaded Files" no longer returns an error.
<a href="#">QCCR1D171266</a>	Platform	If a faulty return code is received during proxy setup testing, that code is logged and the workflow execution is stopped at the point at which the faulty code was received.
<a href="#">QCCR1D173392</a>	Platform	HP DMA skips the platform version check when importing solution packs.

<b>Change Request</b>	<b>Area</b>	<b>Description</b>
QCCR1D173560	Platform	Using the --host option no longer causes dma_upload.sh to fail.
QCCR1D168273	Platform	Workflow Export allows a single escape of any XML characters in the Workflow name, so upon import, the workflow name will be the same as the original workflow name.
QCCR1D167675	Documentation	The HP DMA API documentation now covers how to add a custom field to an organization.
QCCR1D167357	WebLogic	WebLogic - Provision Domain and Admin Server now supports WebLogic patching that was provisioned as a non-root user.
QCCR1D168754	MS SQL	The Restore MS SQL Database workflow no longer fails when multiple backup files are used.
QCCR1D168984	MS SQL	You can now install a MS SQL "hotfix pack" on SQL Server2008R2.
QCCR1D167725	Oracle	The patching workflows have been rebuilt and the slibclean step is now called in the correct sequence.
QCCR1D168970	MS SQL	You can now use the MS SQL: Rollback Patch workflow to roll back MSSQL service packs for SQL Server 2008 R2.
QCCR1D169069	Oracle	The Oracle - Patch Grid Infrastructure and Databases workflow now waits for GRID before starting an instance.
QCCR1D169225	Oracle	Oracle - Patch Grid Infrastructure and Databases no longer throws errors when the database is offline at the start of the workflow.
QCCR1D171592	Oracle	The Check If Download Files Exist workflow step no longer results in a password error.
QCCR1D152319	Oracle Patching	The workflow Oracle - Rollback Patch from Home and Databases no longer fails.
QCCR1D154023	Documentation	The HP DMA Support Matrix document was updated to show support on AIX 6/7 for Oracle Database 11.1.0.7, 10.2.0.5, 10.2.0.4, with the Discovery workflow.
QCCR1D174291	Platform	The Discovery workflow no longer fails on Windows 2012 Standard when 8.3 naming is disabled.
QCCR1D171895	Platform	Add Server to Organization API is not case-insensitive.
QCCR1D175099	Platform	When "Require Approval" is checked for "Run Program extension" in Server Automation Job Blocking, the workflow will wait for the approval process and then continue to run.
QCCR1D175197	Platform	Clicking an editable field in a step in the workflow editor now updates the step description text.

## Enhancements

To display details about each software enhancement, 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](#)).

Change Request	Area	Description
<a href="#">QCCR1D140138</a>	Promote	You can now run a Promote Workflow solution in the Preview Mode that will provide a summary of the differences between two workflows sitting on two different DMA servers.
<a href="#">QCCR1D167857</a>	Promote	The Promote Workflow solution enables you to export a workflow with all its related automation objects (including Policies, Deployments, Custom Fields, SmartGroups, Steps and Functions). It also enables you to import these DMA objects into another DMA server.
<a href="#">QCCR1D170717</a>	Platform	HP DMA attempts to run a workflow on Server Automation even though the server is deactivated in Server Automation, but still exists in HP DMA.
<a href="#">QCCR1D167437</a>	WebLogic	You can now install a WebLogic patch when only the base WebLogic software is installed.
<a href="#">QCCR1D156804</a>	Oracle Provisioning	There is a new input parameter: 'Network Admin Files' for Oracle - Provision Database Software and Oracle - Provision or Upgrade Grid Infrastructure advanced parameter steps. This parameter allows you to specify a site-specific <code>sqlnet.ora</code> and <code>ldap.ora</code> file in <code>\$ORACLE_HOME/network/admin</code> when the software is provisioned.
<a href="#">QCCR1D156805</a>	Oracle Provisioning	The Oracle - Provision Database Software workflow has a new Advanced parameter that allows you to enable DNFS immediately after installing the Oracle Software.
<a href="#">QCCR1D156893</a>	Oracle Patching	The Oracle - Patch Grid Infrastructure and Databases workflow now verifies that the Home patch is already installed before continuing on to the next step.
<a href="#">QCCR1D158186</a>	WebLogic Provisioning	When creating a Domain and Admin Server in the WebLogic workflow, there is a new option to specify the Admin Server name.
<a href="#">QCCR1D161433</a>	WebLogic	All WebLogic - Patch Domain workflow patches now extract to the <code>cache_dir</code> directory and not individual patch directories under the <code>cache_dir</code> .
<a href="#">QCCR1D167359</a>	Oracle	The DMA Oracle Quarterly Patch Information File now accepts and uses <i>both</i> the existing default information and the information contained in a patch information file. So older patches can still be applied even if their information is not contained in the patch information file, and newer patches whose information is only available from a patch information file can also be applied without requiring different deployments.

<b>Change Request</b>	<b>Area</b>	<b>Description</b>
QCCR1D167665	WebLogic	The WebLogic - Provision Domain and Admin Server workflow has been updated to prompt you to configure and/or enable SSL and take the appropriate action. It will configure and enable SSL when specified, or configure and not enable or perform any SSL. There is also a new workflow that creates the Trust and Identity Keystore.
QCCR1D167970	WebLogic	After running WebLogic - Provision Software and WebLogic - Patch Domain, HP DMA now deletes the staging directory and its contents. Installation files (WebLogic installer or WebLogic patch archives) are also deleted after installation or patching.
QCCR1D154944	Oracle Patching	The Oracle - Patch Grid Infrastructure and Databases workflow was updated to add a validation step that specifies if a backup location is provided, then there is at least 10GB of space available for a backup on that device.
QCCR1D159340	MS SQL	The MS SQL: Backup Databases workflow step now provides an option for Backup Type.
QCCR1D167851	WebLogic	The out-of-the-box WebLogic workflow has been updated to allow for additional security configuration.
QCCR1D167453	Oracle	The Add or Alter an ASM Diskgroup workflow has been modified to allow the asm_diskstring parameter to be compared against what it should be for new disks to be added, and updates the parameter within Oracle if necessary.
QCCR1D168306	Oracle	Provision CRS and ASM build can now provision more than one disk group. New parameters allow you to specify multiple disks.
QCCR1D169070	Platform	The Automation, Environment and Solutions tabs now display the numbers of objects on that page. For example, the Workflow page now displays the number of workflows.
QCCR1D170871	Platform	The Download Software step from HP DMA now offers a checksum option to validate that file has arrived and is the correct size.
QCCR1D171265	Platform	A monitor has been created for Server Automation Connections or Health Check Status from HP DMA.
QCCR1D171289	Platform	Added a History tab to the Workflow and Function pages so users will know when a workflow or function has changed.
QCCR1D171788	Platform	The Running Workflows API has been enhanced to cancel a running workflow from the API.
QCCR1D174805	Platform	A new script is available to help the DMA administrator change and encrypt the database connection user password.

## Support

You can visit the HP Software support web site at:

**<http://www.hp.com/go/hpsoftwaresupport>**

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](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:

**<http://h20230.www2.hp.com/selfsolve/manuals>**

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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