
HP Database and Middleware Automation Solution Packs

for Linux, Solaris, AIX, and Windows® operating systems

Release Notes

Software version: 9.14

This document provides an overview of the changes made to the HP Database and Middleware Automation Solution packs. It contains important information not included in the manuals or in online help.

In This Version

[Platform Requirements](#)

[Installation Notes](#)

[Enhancements](#)

[Fixes](#)

[Documentation Updates](#)

[Support](#)

[Legal Notices](#)

In This Version

The HP Database and Middleware Automation version 9.14 Solution Packs (HP DMA SP 9.14) release is an upgrade to HP DMA SP 9.13. This release includes new workflows designed to simplify provisioning, patching, and compliance for multi-server database and application server environments. It also includes code fixes and enhancements to existing workflows, such as support for recent releases of databases and application servers. Highlights include support for:

- IBM WebSphere Application Server version 7 multiple-node cells
- Microsoft® SQL Server 2012
- Oracle® Standalone Grid
- Oracle RAC One Node
- Oracle Data Guard
- Sybase Adaptive Server Enterprise symmetric multiprocessing (SMP)

Each HP DMA SP 9.14 upgrade is a separate patch available on HP Self-Solve Online (SSO):

Database Advanced Patching Solution Pack

Patch Name: platform independent OV DBMASP9.13 DBMASP DB Adv Patch 9.14
Patch File Name: DBMASP_00031.zip
SP Import File: AdvancedDBPatching_v9_14_ALL.zip

Database Patching Solution Pack

Patch Name: platform independent OV DBMASP9.13 DBMASP DB Patch 9.14
Patch File Name: DBMASP_00032.zip
SP Import File: DBPatching_v9_14_ALL.zip

Database Advanced Provisioning Solution Pack

Patch Name: platform independent OV DBMASP9.13 DBMASP DB Adv Prov 9.14
Patch File Name: DBMASP_00033.zip
SP Import File: AdvancedDBProvisioning_v9_14_ALL.zip

Database Provisioning Solution Pack

Patch Name: platform independent OV DBMASP9.13 DBMASP DB Prov 9.14
Patch File Name: DBMASP_00034.zip
SP Import Files: DBProvisioning_v9_14_ALL.zip
DBRefresh_v9_14_SA-9_11.zip

Database Release Management Solution Pack

Patch Name: platform independent OV DBMASP9.13 DBMASP DB RelMgmt 9.14
Patch File Name: DBMASP_00035.zip
SP Import Files: DBReleaseManagement_v9_14_ALL.zip

Database Compliance Solution Pack

Patch Name: platform independent OV DBMASP9.13 DBMASP DB Compl 9.14
Patch File Name: DBMASP_00036.zip
SP Import File: DBCompliance_v9_14_ALL.zip

Application Server Patching Solution Pack

Patch Name: platform independent OV DBMASP9.13 DBMASP AS Patch 9.14
Patch File Name: DBMASP_00037.zip
SP Import File: ASPatching_v9_14_ALL.zip

Application Server Provisioning Solution Pack

Patch Name: platform independent OV DBMASP9.13 DBMASP AS Prov 9.14
Patch File Name: DBMASP_00038.zip
SP Import Files: ASProvisioning_v9_14_SA-9_11.zip

Application Server Release Management Solution Pack

Patch Name: platform independent OV DBMASP9.13 DBMASP AS RelMgmt 9.14
Patch File Name: DBMASP_00039.zip
SP Import File: ASReleaseManagement_v9_14_ALL.zip

Discovery Solution Pack

Patch Name: platform independent OV DBMASP9.13 DBMASP Discovery 9.14
Patch File Name: DBMASP_00040.zip
SP Import File: Discovery_v9_14_ALL.zip



All HP DMA solution packs must run at the same release level. Be sure to upgrade all your HP DMA solution packs to HP DMA SP 9.14 at the same time.



Before you perform the upgrade from an earlier product version, be sure to thoroughly read these Release Notes to ensure a successful upgrade.

Platform Requirements

HP DMA SP 9.14 requires one of the following platforms:

Platform	Instructions
HP Server Automation 9.11 (HP SA 9.11) with DMA 9.11Hotfix_1	The HP DMA SP 9.14 workflows require fixes provided in DMA 9.11Hotfix_1 to function correctly. Contact HP support to obtain this hot fix prior to installing HP DMA SP 9.14.
HP Server Automation 9.13 (HP SA 9.13)	Follow HP SA 9.13 installation instructions.

- ▶ HP DMA 1.00 (“Data Palette”) users: DMA SP 9.14 does not support HP DMA 1.00. Contact your HP Software Support representative to discuss options to upgrade to HP SA 9.13.
- ▶ For supported operating systems and versions, see the *HP Database and Middleware Automation Solution Packs version 9.14 Support Matrix* at <http://h20230.www2.hp.com/selfsolve/manuals>.

Servers running the following operating systems can be used as HP DMA targets:

Supported HP DMA Target Platforms

Operating System	Architecture	Version
AIX	POWER	AIX 5.3 AIX 6.1
HP-UX	PA-RISC Itanium 2	HP-UX 11iv2 (11.23) HP-UX 11iv3 (11.31)
Linux	x86 32-bit or 64-bit	Red Hat Enterprise Linux AS 4 Red Hat Enterprise Linux ES 4 Red Hat Enterprise Linux WS 4 Red Hat Enterprise Linux Desktop 5 Red Hat Enterprise Linux Server 5 Red Hat Enterprise Linux Server 6 SUSE Enterprise Linux Server 11 Oracle Linux 5.3
Solaris	SPARC	SunOS 5.9 (Solaris 9)
	SPARC	SunOS 5.10 (Solaris 10)
Windows	x86 32-bit or 64-bit	Windows Server 2003 Windows Server 2008
	x86 64-bit only	Windows Server 2008 R2 x64

For additional information, see the *HP Server Automation Support and Compatibility Matrix*.

Installation Notes

Be sure to review all instructions and the *Hewlett-Packard SupportLine User Guide* or your Hewlett-Packard support terms and conditions for precautions, scope of license, restrictions, and, limitation of liability and warranties, before installing this patch.



Always back up your HP DMA system before installing a patch.



HP DMA SP 9.14 requires HP Server Automation 9.11 (HP SA 9.11) with DMA 9.11Hotfix_1 or HP SA 9.13.

HP SA 9.11 Customers: Contact HP support to obtain the DMA 9.11Hotfix_1 prior to installing HP DMA SP 9.14. The HP DMA SP 9.14 workflows require fixes provided in this hot fix to function correctly. See the [Platform Requirements](#) on page 3 for details.

The process of upgrading an HP DMA Solution Pack consists of two steps: removing the old solution pack, and installing the new solution pack. Instructions for both steps are included in the following procedure.

To upgrade an HP DMA solution pack:

- 1 Download the ZIP file for the solution pack that you want to install (see the list of ZIP file names under In This Version on page 1).
- 2 On the system where you downloaded the solution pack ZIP file, go to:
`http://<HP_SA_CoreServer>/dma/login`
- 3 Log in to HP DMA using an account with administrator privileges.
- 4 Go to the Solutions → Installed page.
- 5 Click the **Browse** button in the lower right corner. The Choose File dialog opens.
- 6 Select the ZIP file that you downloaded in step 1, and click **Open**.
- 7 Click the **Import solution pack** button.

Enhancements

The following enhancements are available in HP DMA SP 9.14:

Solution Pack	Workflow	Enhancement
Advanced Database Patching	Patch Oracle Standalone GRID	<p>This workflow applies an Oracle patch to a GRID Stand Alone Oracle Home (Oracle Restart Home).</p> <p>If OPatch archive is specified, OPatch will be upgraded before the patch is applied; otherwise the workflow will attempt to use the current version of Opatch.</p> <p>This workflow was designed for 11.2.0.1 or later versions of Oracle GRID Infrastructure for Stand Alone Server or Oracle Restart Home.</p>
Advanced Database Provisioning	Deploy Data Guard One Node RAC	<p>This new workflow deploys two Oracle GRID clusters, sets up a RAC One Node database on the first cluster, and configures Data Guard to ship logs to the second Standby Cluster.</p> <p>The workflow invokes five other workflows in the following order:</p> <ul style="list-style-type: none"> • Install or Configure ASMLIB • Provision Oracle RAC 11gr2 CRS and ASM components • Provision Oracle Software • Provision an Oracle Database • Install or Configure ASMLIB • Provision Oracle RAC 11gr2 CRS and ASM components • Provision Oracle Software • Provision Oracle Data Guard
Advanced Database Provisioning	Provision One Node RAC	<p>This workflow provisions an Oracle RAC One Node database on 2 or more servers.</p> <p>This new workflow invokes four other workflows in the following order:</p> <ul style="list-style-type: none"> • Install or Configure ASMLIB • Provision Oracle RAC 11gr2 CRS and ASM components • Provision Oracle Software • Provision an Oracle Database <p>The workflow creates a fully functional RAC One Node database ready for use.</p>
Advanced Database Provisioning	Provision Oracle Data Guard	<p>This workflow configures Oracle Data Guard for existing Oracle 11.2 (or later) RAC or RAC One Node databases and a pre-provisioned Oracle Database Home set up on a Standby GRID or CRS cluster.</p>
Advanced Database Provisioning	Provision Oracle RAC 11gr2 CRS and ASM components	<p>This is a new version of an older workflow that was re-factored to resolve structural issues and improve performance.</p>

Solution Pack	Workflow	Enhancement
Database Provisioning	Provision Oracle Software Provision an Oracle Database	These new versions of older workflows now have the ability to build a RAC One Node.
Database Provisioning	Register Sybase SySAM License	This workflow acquires and registers a served license for a Sybase Adaptive Server Enterprise (ASE), Enterprise Edition, version 15 installation from a local or remote Sybase Software Asset Management (SySAM) License Server.
Database Provisioning	Enable Sybase ASE 15 SMP Feature	This workflow enables the Sybase ASE symmetric multiprocessing (SMP) feature and creates multiple Sybase ASE engines on the target host machine.
Database Provisioning	Configure Sybase ASE 15 Server	This workflow enables you to configure a large number of user-definable parameter settings for an existing Sybase Adaptive Server Enterprise (ASE) version 15 instance. The workflow updates settings for both static and dynamic parameters.
Database Provisioning	Deploy Sybase ASE 15 SMP Server	This workflow consolidates multiple individual workflows to implement the end-to-end Sybase ASE 15 provisioning process. The workflow invokes each of seven other workflows through a dynamic deployment mechanism. It provisions Sybase ASE 15 Enterprise Edition, registers the SySAM license, configures the Sybase ASE server and enables the SMP feature.
Database Provisioning	Deploy MS SQL 2008 R2 Cluster	This workflow consolidates multiple individual workflows to implement an end-to-end MS SQL 2008 R2 cluster provisioning process. It provisions an MS SQL 2008 R2 cluster, adds a second node, and patches both nodes.
Database Compliance	n/a	The workflows in this solution pack have not changed. However, shared functions have changed, and a new version of the solution pack is released to ensure compatibility with other 9.14 solution packs.
Application Server Patching	Patch WebSphere 7 StandAlone Profile	This workflow installs a new instance of the IBM Update Installer and cumulative fixes related to the core application server and IBM SDK.
Application Server Patching	Patch WebSphere 7 Network Deployment Cell	This workflow installs a new instance of the IBM Update Installer and cumulative fixes related to the core application server and IBM SDK. This workflow takes into account the multiple components related to a Network Deployment implementation and makes sure that all components (dmgr, nodeagent and application servers) are stopped before proceeding with the patching.
Application Server Provisioning	Provision HTTP Server and WebSphere 7 StandAlone Profile	This workflow provisions IBM HTTP Server version 7 on a single machine. It then provisions IBM WebSphere Application Server version 7 on the same machine and creates a StandAlone profile. This workflow is intended for small development environments used for development and integration testing.

Solution Pack	Workflow	Enhancement
Application Server Provisioning	Provision IBM HTTP Server and WebSphere 7 Two Node Cell	<p>This workflow provisions IBM HTTP Server version 7 on two target machines and then provisions IBM WebSphere Application Server version 7 on two other target machines. It creates a Deployment Manager profile and two Custom Node profiles, thus creating a two node Network Deployment Cell.</p> <p>This workflow creates two clusters. The first is meant for a given application to be deployed to it, and it is both vertically and horizontally clustered. The second cluster is meant for memory-to-memory replication of HTTP sessions, and it is horizontally clustered.</p> <p>All the cluster members are configured to take part in a replication domain where the application cluster members are the clients, and the replication cluster members are the servers.</p> <p>The workflow also creates unmanaged nodes and web server objects for mapping applications at deployment time as well as remote management of the two IBM HTTP Servers.</p>
Application Server Provisioning	Add WebSphere 7 Node To Existing Cell	<p>The workflow works in conjunction with the Provision HTTP Server and WebSphere 7 StandAlone Profile workflow. It expands the cell by adding one more node. The cell can have a total of 10 nodes.</p> <p>The workflow provisions IBM WebSphere Application Server version 7 on a given target machine, creates a Custom Node profile, and federates new node into the cell. It expands the n node Network Deployment Cell to an n+1 node cell.</p> <p>This workflow also expands the existing two clusters by adding cluster members onto the new node—vertically and horizontally for the application cluster, and horizontally for the replication servers. The cluster members are configured to take part in a replication domain, where the application cluster members are the clients, and the replication cluster members are the servers used to store session data.</p>
Application Server Release Management	n/a	The workflows in this solution pack have not changed. However, shared functions have changed, and a new version of the solution pack is released to ensure compatibility with other 9.14 solution packs.
Discovery	Discovery	The Discovery workflow now correctly discovers WebSphere version 7 installations on Linux, Windows, Solaris, and AIX.

Fixes

The following items are fixed in HP DMA SP 9.14:

Change Request	Description
QCCR1D142265	The instance URL returned a NULL value when multiple runs of the Discovery workflow were executed on the same server.
QCCR1D145753	The Oracle SQL Release workflow succeeded but threw an error during the Download Software step when using a file on the server.
QCCR1D145754	The Oracle SQL Release workflow ended with a status of “finish” instead of “failure” when a failure actually had occurred.
QCCR1D145755	The Oracle SQL Release workflow documentation did not explain the process flow in sufficient detail.
QCCR1D147351	The Provision Oracle Software workflow failed on AIX, unable to verify that the Oracle user was a member of the correct group.
QCCR1D147607	The Provision Oracle Grid Infrastructure For Standalone Server workflow failed to set up disk groups correctly.
QCCR1D147818	The Provision Oracle GRID Infrastructure for Standalone Server failed on Solaris with an assignment error.
QCCR1D148018	The MS SQL - Install Standalone SQL Instance workflow caused the Windows Task Scheduler to hang.
QCCR1D148356	The Provision Oracle Database workflow failed on AIX when a GRID installation already had a Listener/database.
QCCR1D148843	The Apply Critical Patch Update to Oracle Home workflow failed on AIX.

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>

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

Support

You can visit the HP Software support web site at:

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

Legal Notices

©Copyright 2012 Hewlett-Packard Development Company, L.P.

Confidential computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

Trademark Acknowledgements

HP-UX Release 10.20 and later and HP-UX Release 11.00 and later (in both 32 and 64-bit configurations) on all HP 9000 computers are Open Group UNIX[®] 95 branded products.

Windows and Microsoft are U.S. registered trademarks of Microsoft Corporation.

Oracle is a registered trademark of Oracle and/or its affiliates.

UNIX is a registered trademark of The Open Group.