



Hewlett Packard
Enterprise

HPE Database and Middleware Automation

Ultimate Edition

Software Version: 10.40

Linux, Solaris, AIX, HP-UX, and Windows

Release Notes

Document Release Date: December 2015

Software Release Date: December 2015

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HPE Database and Middleware Automation Ultimate Edition 10.40.000.000/December 2015

This document provides an overview of the changes made to Hewlett Packard Enterprise Database and Middleware Automation (HPE DMA) Ultimate Edition, 10.40.000.000 (referred here after as 10.40). It contains the following important information:

- ["Release Highlights" below](#)
- ["Enhancements" on page 11](#)
- ["Known and Fixed Issues" on page 14](#)
- ["Backward Compatibility" on page 17](#)

Release Highlights

HPE DMA 10.40.000.000 is a significant step forward: enabling self-service cloud environments, improving time-to-value, reducing total cost of ownership, broadening support for both database and middleware use cases – with a focus on patching, and strengthening integrations between Operations Orchestrations and HPE Cloud Service Automation (HPE CSA) software.

Over 106 newly supported platform use cases have been added and 55 change request and 46 enhancements have been addressed in this release. Important highlights include:

- **HPE DMA Premium Edition**

Introduction of HPE DMA Premium Edition as a new product. HPE DMA Premium Edition features extend the supported use cases of DMA Express Edition to seamlessly integrate with HPE Operations Orchestration and HPE Cloud Service Automation and other HPE IT Operations Management products like HPE IT Operations Compliance and HPE Codar.

DMA Premium use cases run as native HP OO content, negating the need to install an HP Server Automation (HP SA) or HPE DMA Ultimate infrastructure. This capability now enables HP CSA, in conjunction with HP 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.

HPE DMA Premium supports all of the use cases in DMA Express Edition and includes support for:

- Provisioning of standalone Oracle, SQL Server, and MySQL environments.
- Provisioning of clustered Oracle and SQL Server environments.
- Provisioning of standalone Oracle, SQL Server, MySQL, JBoss, WebSphere, Apache Web Server, Apache Tomcat and WebLogic environments.
- 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 alternative 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.
- Code release into Oracle and SQL Server.
- Miscellaneous utilities like start/stop of a DB instance, DROP database, provision Oracle Client, etc.

There is no overlap between the DMA Premium Content Pack and the HP OO Database or Middleware Content Pack functionality.

For more information, refer to HPE DMA Premium Edition documentation provided under the DMA_Premium_10.40 folder in the master .zip file or access the most recent version from <https://softwaresupport.hp.com>.

- **Discovery Workflows**

- Discovery workflow now allows one or more specific platforms to be chosen for discovery. For example, Oracle.
- WebSphere and WebLogic discovery now stores patch information for multiple instances in the DMA repository should they reside on the same OS instance. This information can be used in patching workflows to target specific instances or used as part of other workflows.

- **Oracle Workflows**

- Support for the latest Oracle quarterly patches.
- New workflows support patching using a pre-patched GRID HOME 'gold image'. Individual database HOMEs can be patched as needed after patching the GRID HOME and attached to the patched GRID HOME gold image.
- Oracle "One-off" patches can now be applied without having to first apply a patch set updates (PSU).
- Support for Oracle Configuration Watch (OCW) formatted patches.

- **SQL Server Workflows**

- After DMA completes patching a cluster, the nodes are set as active and passive based on the state at the start of the patching.

- **DB2 Workflows**

- The latest Center for Internet Security (CIS) vulnerability checks are now included in compliance workflows.
- Extended the installation options for the provision software workflow.

- Enhance DB2 Provision Software Workflow to also install DB2 Universal Fixpacks to the DB2 Home and Instance.
- Improved support for DB2 patching using universal and custom fixpacks.
- New Feature to determine eligible DB2 instances and database and rebind them with the database packages upgraded post fixpack patch or rollback fixpack process is performed. It operates with the flag to perform package binding based on end-user discretion. This has been incorporated with patch and rollback workflow.
- New workflow, DB2 – Rollback Fixpack, to roll back and restore a standalone DB2 installation and associated instances and databases to the desired DB2 Fixpack level.
- **MySQL Workflows**
 - New workflows now support patching of MySQL installations.
 - Drop database workflow now removes the database from environment page.
- **Sybase Workflows**
 - The latest Center for Internet Security (CIS) vulnerability checks are now included in compliance workflows.
 - New feature to discover the SAP style patch level metadata field “sybase service pack” and populate it at the instance level for Sybase 15.7. If this field has already been discovered, then update it with the latest instance patch level.
 - Enhancement to extend the AIX platform support for instance provisioning on Sybase 15.7.
- **WebSphere Workflows**
 - Both Patching and Provisioning of the WebSphere environment now support a non-root user ID.
 - Patching of a multi-instance WebSphere configuration residing on the same OS instance is now supported.
 - Support for RedHat 7.x.
- **WebLogic Workflows**
 - Patching support has been extended to WebLogic instances that are not registered in Node Manager.
 - Patching of WebLogic 12c Release 2 and above is now supported using OPatch.
 - Support for RedHat 7.x.
- **JBoss Workflows**
 - New workflows now support provisioning of JBoss Community Edition.
 - New workflows now support patching and rollback of JBoss CE, EAP and Wildfly environments.
 - Support for RedHat 7.x.
- **Apache Web Server Workflows**

Apache Web Server is a newly supported DMA platform. Supported use cases include:

- Provisioning
- Patching
- Discovery

- **Apache Tomcat Workflows**

Tomcat J2EE Server is a newly supported DMA platform. Supported use cases include:

- Provisioning
- Patching
- Discovery

- **Platform**

- User interface and documentation has been upgraded to reflect Hewlett Packard Enterprise (HPE) branded content.
- DMA server now supports Internet Protocol version 6 (IPv6) network addressing and infrastructures in addition to Internet Protocol version 4 (IPv4) and dual stack network infrastructures. The DMA target support servers running on IPv4, IPv6, and dual stack network infrastructure.
- Improvements to sending email directly from the DMA server to an email user. This can also email the history of workflow execution results.
- A new parameter in a deployment allows the workflow to terminate after running a specific step. This is useful to validate an environment by running the first several steps in a workflow without having to create an entirely new workflow and set of deployments.
- 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.
- Workflows can now be hidden from Administrator view in the DMA UI. This helps you see only workflows you want to see. You can use this to hide retired workflows.
- If the feature is enabled, a workflow can now be automatically cancelled if it has not responded after a pre-defined time-out period.
- Workflows can now be searched for by Execution ID. A new option ExecutionID is now a filter criteria to the Search options under the Automation > History tab.
- Tablespace names can be customized for a freshly installed DMA database repository, and defined as optional parameters to dmaBaseline.sh. Default values are hpdma_data and hpdma_idx.
- If the feature is enabled, the logged in user will be validated against HP Server Automation (SA) to determine whether the user is authorized to download files from SA.

- **Documentation**

- DMA documentation is now packaged as a browser-based online documentation 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 opens the DMA documentation in a separate browser window.
- The application programmer interface (API) documentation can be accessed using the URL <http://<dma-server>:8443/dma/api>.
- DMA documentation is also available on [HPE Live Network](#). HPE Passport credentials are required to access this site. The documentation available on [HPE Live Network](#) is the latest.

For more information, see the HPE DMA 10.40.000.000 [Workflow Support Matrix](#).

Platform Requirements

The HPE DMA version 10.40.000.000 server requires the following server platform infrastructure:

Server Platform Infrastructure	Product	Version
HPE 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 10.1x and 10.2x Ultimate Edition (SA 10.1x and 10.2x)
		Server Automation 10.1x and 10.2x Enterprise Edition (SA 10.1x and 10.2x)
		Server Automation 10.0x Standard Edition (SAVA 10.0x)
	DCA Virtual Appliance	DCA Virtual Appliance 2016.01
DMA Backend Database Tool	Oracle Database Enterprise or Standard Edition	12c
		11gR2
	PostgreSQL Driver	9.3.5
Oracle Java	Java Runtime Environment (JRE)	1.7u80 and 1.7u85. The JRE 1.7u85 is supported only in AIX and HP-UX platforms.

See the HPE DMA Installation Guide, available at <https://softwaresupport.hp.com/>, for additional information.

Supported Browsers for HPE DMA

The HPE DMA web UI supports the following browsers:

- Chrome
- Firefox
- Internet Explorer 10 and 11

Supported HPE DMA Target Platforms

HPE 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 HPE DMA workflow, see the HPE DMA Support Matrix, available at <https://softwaresupport.hp.com/>.

Solution Packs

The HPE DMA version 10.40.000.000 solution packs are included in the Master zip file. This includes the following solution packs:

Installation Media Directory Name	Solution Packs
DMA_10.40.000.000_Database_Solution_Packs	Advanced Database Patching Advanced Database Provisioning Database Compliance Database Provisioning Database Patching Database Release Management Database Refresh
DMA_10.40.000.000_Middleware_Solution_Packs	Application Server Provisioning Application Server Patching Application Server Configuration Management Application Server Release Management
DMA_10.40.000.000_Server_and_Client	Discovery Promote

The Discovery solution pack is not automatically installed when the HPE DMA server is installed. You must import it manually, as you would any other solution pack. See the HPE DMA Quick Start Tutorial at <https://softwaresupport.hp.com/>. See Documentation Updates for information about accessing this website.

Installation and Uninstallation Scripts

The HPE DMA installation and removal scripts are included in the DMA_10.40.000.000_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

Enhancements

To view details of 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.

Important: HPE DMA 10.30.001.000 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
QCCR1D171273	Apache	Add Apache as a supported middleware application.
QCCR1D208308	Apache	Add Apache Tomcat provisioning.
QCCR1D182483	DB2	Provision software - step failure- Install DB2 Software V2 when using fixpack to install software.
QCCR1D183245	DB2	Provision Software installation options
QCCR1D212335	DB2	Patch Universal fixpack is not supported in DMA.
QCCR1D212336	DB2	Patch fixpack workflow does not support custom fixpack.
QCCR1D212337	DB2	Restart DB2 instance(s) and Admin Server before cleanup and discovering the Environment in DMA.
QCCR1D213637	DB2	DB2 - Bind packages to database post apply fixpack or rollback fixpack.

Change Request	Area	Description
QCCR1D215866	DB2	Latest CIS compliance audit support for DB2 database.
QCCR1D152082	Discovery	Options to run Discovery for only selected Databases or Application Servers.
QCCR1D175177	JBoss	Provisioning flows should check for DMA connectivity at the beginning of the flow.
QCCR1D212692	JBoss	Jboss Wildfly provisioning as well as patching with rollback is not supported for standalone environments.
QCCR1D214503	MySQL	Added support for upgrading MySQL Databases.
QCCR1D214504	MySQL	Add support of MySQL Code Release.
QCCR1D160756	Oracle	Apply Oracle grid standalone and apply database needs to handle multiple version.
QCCR1D180100	Oracle	Validation has been added to check the uncompressed size of Oracle zipped files and designed to fail early if space requirements are not met.
QCCR1D194121	Oracle	To facilitate the Oracle - Patch Grid Infrastructure and Databases v3 workflow to patch on multiple homes.
QCCR1D201954	Oracle	The Oracle - Provision Data Guard workflow has been enhanced to handle all the prerequisites automatically.
QCCR1D203919	Oracle	Oracle Upgrade flow does not give a possibility to make the upgrade preview.
QCCR1D204559	Oracle	Add support for Oracle apply one-off and OCW patches.
QCCR1D205571	Oracle	Advanced parameters have been provided to support the post configuration tasks Archivelog On, Log Archive Destination, Log Archive Format, Maximum Dump File Size, and Redo Log Destinations.
QCCR1D205799	Oracle	The FLASHBACK_TIME parameter supports "systimestamp" keyword in the Oracle - Export and Refresh Database via Data Pump v3 and Oracle - Export Database via Data Pump v3 workflows.
QCCR1D205863	Oracle	Export Database via Data Pump fails when QUERY parameter is specified.
QCCR1D209482	Oracle	Oracle – SQL Release needs option to print output of the SQL script in DMA console.
QCCR1D210240	Oracle	The Oracle - Export and Refresh Database via Data Pump v3 workflow should have additional functionality.
QCCR1D211437	Oracle	Provide a workflow to patch data guard standalone instance.

Change Request	Area	Description
QCCR1D211461	Oracle	Oracle Grid Patching workflow need 2 Phase patching solution.
QCCR1D212690	Oracle	Oracle One-Off Patching in Grid Environments for database homes.
QCCR1D214356	Oracle	Provide with clear validation message if incorrect ASM diskgroup list values provided.
QCCR1D215066	Oracle	Support for patching mixed grid and database versions (e.g GRID 12c, 11.2.0.4 databases).
QCCR1D215478	Oracle	Migrate databases one at a time after Oracle Grid Patching workflow has patched a new cloned home
QCCR1D215480	Oracle	Gold clone patching for grid and database.
QCCR1D152300	Platform	Add a Search Option on the Environment Dashboard page to find servers.
QCCR1D165233	Platform	Enhance DMA to allow Select All to be disabled when configuring a deployment.
QCCR1D168486	Platform	Enhance DMA to send Workflow execution results after workflow completion in the form of E-mail.
QCCR1D172467	Platform	DMA bypasses HPSA security to find software for download.
QCCR1D185825	Platform	Option to configure the table space names during DMA installation.
QCCR1D186771	Platform	API to install or delete DMA Solution Packs by DMA Administrators.
QCCR1D189623	Platform	View Custom field name restricted.
QCCR1D194010	Platform	Functionality to remove Deprecated Workflows from DMA GUI.
QCCR1D204110	Platform	Restarting target server while execution of workflows will cause DMA flows to run forever.
QCCR1D209704	Platform	Automatic deployments recreation after DMA upgrade/hotfix.
QCCR1D212696	Platform	Upgrade to AES256 SHA-2.
QCCR1D214485	Platform	Stop the workflow at a desired StepName indicated as part a deployment parameter.
QCCR1D214486	Platform	Rebranding to reflect the new HP Enterprise style in the DMA GUI.

Change Request	Area	Description
QCCR1D214902	Platform	Add a quick link/button to access DMA Online Help from DMA homepage.
QCCR1D215022	Platform	Add Execution ID as additional filter to the History page.
QCCR1D215864	Sybase	Latest CIS compliance audit support for Sybase database.
QCCR1D215869	Sybase	Latest CIS compliance support on Sybase database version 15.7.
QCCR1D168504	WebLogic	Add Workflow to Rollback Weblogic Patch.
QCCR1D212693	WebLogic	To enable connection to Weblogic admin server through three different types of connection (username password boot-prop keyconfig file).
QCCR1D212694	WebLogic	Patch an operating system instance containing multiple installations of WebLogic.
QCCR1D214507	WebLogic	Patch and rollback weblogic software using OPatch utility.
QCCR1D212691	WebSphere	The Patch WebSphere workflow should handle multiple instances and non-root user installation of Websphere.

Known and Fixed Issues

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

Important: HPE DMA 10.30.001.000 defects are included in this release of HPE DMA.

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

Change Request	Area	Description
QCCR1D209376	Common	Output and error messages are not logged in run command of postools function.
QCCR1D190585	DB2	Step Validate Provision DB2 Software - forces setting which can cause OOM error.
QCCR1D212336	DB2	DB2 - Patch fixpack workflow does not support custom fixpack in DMA.
QCCR1D208624	JBoss	The step JBoss 7 StandAlone Start Server in the Provision Open Source JBoss 7 StandAlone Mode workflow seems to have

Change Request	Area	Description
		inconsistent behavior.
QCCR1D209260	JBoss	The JBoss - Patch Software workflow has an issue with the JBoss restart in the step "Apply Patch for JBoss Software" when running this workflow.
QCCR1D212791	JBoss	The JBoss - Provision Software V2 workflow has the parameter "Download Location:".
QCCR1D212798	JBoss	In the JBoss - Provision Software V2 workflow, unnecessary debug statement being logged without even the debug level being set.
QCCR1D212870	JBoss	In the JBoss - Patch Software V2 workflow JBoss discovery does not seem to be capturing the patch version.
QCCR1D212871	JBoss	The JBoss - Patch Software V2 workflow does not record the custom field parameter correctly in multi tenancy deployment.
QCCR1D213294	JBoss	The JBoss - Patch Software V2 workflow does not have validation to check if the target JBoss process is running or not, this leads to a behavior where the patching fails.
QCCR1D212386	MS SQL	Cluster Patch workflow doesn't restore cluster to same active/passive configuration as pre-patch state.
QCCR1D212468	MS SQL	The otools.run_command_win does not work on Windows systems where shortname paths are disabled.
QCCR1D212951	MS SQL	SQL instance error during prerequisites check.
QCCR1D213510	MS SQL	Option to write MS SQL Instance Information.
QCCR1D213640	MS SQL	DMA attempting to run RunAsApp using short path - fails MS SQL workflows.
QCCR1D191570	Oracle	DMA Function oraclevalidation function validate_oracle_version(home) issue.
QCCR1D204783	Oracle	Provision Database Software fails during uncompressing archive if there are different oracle OS users.
QCCR1D207269	Oracle	Oracle Compliance workflow fails when Listener is started without using Listener.ora file.
QCCR1D207499	Oracle	Function get_oracle_user gets non pmon Processors also.
QCCR1D209880	Oracle	DMA Provision Oracle Software Installs Wrong Oracle - SE instead of EE.
QCCR1D209963	Oracle	Oracle - Upgrade Database flow fails with the following error: ORA-00201 - incompatible control file

Change Request	Area	Description
QCCR1D210182	Oracle	Oracle Upgrade workflow prechecks do not work properly.
QCCR1D210239	Oracle	Export and Refresh Database via Data Pump v3 fails if oracle account differs between source and target.
QCCR1D210917	Oracle	Oracle 12.1.0.2 crsctl start res ora.cssd is invalid.
QCCR1D211525	Oracle	Issue "list" object has no attribute "strip" has been addressed in Oracle Compliance workflows.
QCCR1D213011	Oracle	Run Oracle Grid Post Install Commands V2 step fails.
QCCR1D213630	Oracle	The Verify Grid and Databases Patched v2 workflow uses wrong view for verification of patch for Oracle 12.1.0.2.
QCCR1D213963	Oracle	Oracle Discovery workflow failure.
QCCR1D189751	Platform	Custom name for a DEPLOYMENT via the API.
QCCR1D195039	Platform	On upgrade of 10.22, the UI does not list the servers added. Throws Corba Exception.
QCCR1D208676	Platform	The solutionPackImporter Shell script fails with ORA-01882: timezone region not found.
QCCR1D209386	Platform	Output and error messages are not logged in run command of postools function.
QCCR1D209704	Platform	Programmatically attach deployments from old workflow to new V2 workflow.
QCCR1D209720	Platform	Accessing of DMA APIs has been fixed.
QCCR1D209969	Platform	Adding New Roles throw error: ORA-01795: maximum number of expressions in a list is 1000.
QCCR1D209970	Platform	Adding New Roles throws the following error: ORA-01795: maximum number of expressions in a list is 1000
QCCR1D210095	Platform	A parameter has been added to extend the character length of the URL.
QCCR1D210098	Platform	Sub workflow fails to start due to longer Run Time parameter values.
QCCR1D211200	Platform	DMA JRE version has been upgraded to JRE 1.7u80.
QCCR1D213879	Platform	The get_proc_info function in postools does not return the process info if it has grep word in it.
QCCR1D156800	Sybase	Sybase Compliance Audit workflow does not return reasons for pass/fail compliance checks.
QCCR1D211588	WebLogic	The Discover Weblogic workflow should handle the removed domains.
QCCR1D212348	WebSphere	Add support for WebSphere base version in DMA.

Backward Compatibility

DMA version	Target version
To use new features or enhancements in DMA 10.40 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 10.40 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 10.40 features and enhancements	<p>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.</p> <p>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.</p>

Download HPE DMA Binaries

Perform the following steps to download the DMA installation files:

1. Log on to <https://softwaresupport.hp.com/group/softwaresupport/home>, with your HP Support Credentials.
2. Navigate to Software Patch.
3. Under Software Patch, download the patch that you want to download, by clicking the patch name.

Installation Files

The zip file contains folders for each of following content packs, as well as licensing information, and product documentation:

Folder	Contents
DMA_10.40.000.000_Server_and_Client	Includes HPE DMA 10.40.000.000 server and client software RPMs, HPE DMA 10.40.000.000 Discovery Solution Pack, and HPE DMA 10.40.000.000 Promote Solution Pack. Refer to the installation guide for instructions on installing solution packs.
DMA_10.40.000.000_Database_	Includes all of the HPE DMA 10.40.000.000 flows for databases

Folder	Contents
Solution_Packs	
DMA_10.40.000.000_Documentation	Includes documentation available at the time of the release. Download the latest version of HPE DMA 10.40.000.000 the documents from the HP Software Support website: https://softwaresupport.hp.com/ . You need your HP Passport credentials to access HP Software Support website.
DMA_10.40.000.000_Middleware_Content_Pack	Includes all of the HPE DMA 10.40.000.000 flows for Middleware
DMA_10.40.000.000_Install	Includes DMA 10.40.000.000 TTV bundle related to DMA auto installation
DMA_10.40.000.000_Open_Source_Licenses.zip	Includes all of the HPE DMA 10.40.000.000 Open Source license information

The HPE DMA version 10.40.000.000 solution packs are included in the Master zip file. This includes the following solution packs:

Directory Name	Solution Packs
DMA_10.40.000.000_Database_Solution_Packs	Advanced Database Patching Advanced Database Provisioning Database Compliance Database Provisioning Database Patching Database Release Management Database Refresh
DMA_10.40.000.000_Middleware_Solution_Packs	Application Server Provisioning Application Server Patching Application Server Configuration Management Application Server Release Management
DMA_10.40.000.000_Server_and_Client	Discovery Promote

The Discovery solution pack is not automatically installed when the HPE DMA server is installed. You must import it manually, as you would any other solution pack. See the HPE DMA Quick Start Tutorial at <https://softwaresupport.hp.com/>. See Documentation Updates for information about accessing this website.

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Feedback on Release Notes (Database and Middleware Automation 10.40)

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