

# Environment Manager

## Release Notes (version 10.1)

These release notes include:

- [Components in this Release](#)
- [Important Upgrade Information](#)
- [New Features](#)
- [Bugs Fixed](#)
- [Know Issues and Limitations](#)
- [Supported Operating System and Technologies](#)
- [Required Utilities and Components](#)

### Components in this Release

Component	Version
Agent	10.1.336.0
Personalization Server	10.1.336.0
Console	10.1.336.0
Tools	10.1.336.0
Documentation	10.1.336.0
Database	10.1.11

## Important Upgrade Information

This Upgrade section contains functionality changes that have been introduced in either Environment Manager v10.0 or v10.1. Any information that is new to this release is specifically listed as Environment Manager v10.1.

We are including this extended information for the convenience of customers upgrading from an 8.x version.

### Windows Server

Environment Manager 10+ Personalization Server requires Windows Server 2008 R2 SP1 or above. Microsoft mainstream support for both Windows Server 2008 and R2 ended on 13 January 2015, but we are continuing to support Windows Server 2008 R2 beyond this date.

### Windows Client

Support for Windows XP, Windows Vista, and Windows Server 2008 has been deprecated for the Environment Manager Agent, therefore the Environment Manager 10+ Agent now requires Windows 7 SP1 or above and Windows Server 2008 R2 SP1 or above. Microsoft extended support for Windows XP ended on 8 April 2014, mainstream support for Windows Vista ended on 10 April 2012.

In addition, both Windows 7 SP1 and Windows Server 2008 R2 SP1 must be updated to support SHA-2 hashing algorithm signing and verification prior to Agent Installation. As a minimum KB3125574 is required, but note that from October 2016, Microsoft have moved to Monthly Servicing Roll-up packs that will supersede this original KB.

### SQL Server

Support for SQL Server 2008 and 2008 R2 has been deprecated, the Environment Manager 10.0+ Personalization Server now requires SQL Server 2012 SP2 or above. Microsoft mainstream support for SQL Server 2008 and R2 ended on 8 July 2014.

Please refer to the [Required Utilities and Components](#) section for further details.

### Product Licensing

Environment Manager 10+ requires a v2 product license key and this key must be deployed to all endpoints to which the EM v10+ Agent is deployed. The new license key can be installed alongside the existing 8.x license key and should be deployed at the same time or before the EM Agent is deployed. The new license key is deployable via Management Center 10+ and is available from AppSense Licensing Support (Order Management) [om@appsense.com](mailto:om@appsense.com).

### Server Configuration Utility (SCU)

The Server Configuration Utility (SCU), which was used to configure instances of the Environment Manager Personalization Server, has been replaced in v10+ with the new Server Configuration Portal and new PowerShell cmdlets. It is no longer possible to configure the Personalization Server using the SCU. The new Server Configuration Portal is not able to detect and repair all missing Windows Server and IIS components because it requires some Windows Server and IIS components to be in place first. The functionality to detect all missing Windows Server and IIS components has been moved to the DesktopNow Installer. A list of the required Windows Server and IIS components is available in the [Required Utilities and Components](#) section for anyone not using the DesktopNow Installer.

## IIS Web Sites

Environment Manager 10+ Personalization Server Advanced Installations no longer install into the IIS default Web site, apart from in-place upgrades.

The installation creates a new Web site called Personalization with two configurable bindings, one of which can use host headers on port 80 and another on port 7771. Both are configurable during setup. In order to use host headers on port 80, the DNS servers will need to be updated (refer to install and upgrade guide for further information). In-place upgrades will install into the default Web site, if that is where EMPS is currently installed.

When installing Environment Manager 10.1 Personalization Server in Evaluation Mode, to simplify the evaluation process we now use the Default IIS Website and Port 80 in a similar method to previous 8.x installations.



### Caution

Care should be taken not to install into the default Web site if other applications are using it, as Personalization Server now uses the root of whichever Web site it is hosted, further information is available in the install and upgrade guide.

## Environment Manager Browser Interface (EMBI)

The Environment Manager Browser Interface (EMBI) has been replaced in v10+ with the Personalization Operations console and no longer includes the Self-Service functionality. Self-Service functionality for end users can now be found in the Enterprise Self Service Tool (ESST), which optionally appears on the user desktop in the taskbar.

## User Personalization Data

Introduced in Environment Manager 10+, Personalization Groups are no longer used as a container for user personalization data. Personalization Groups are now only used for assigning settings to users. If a user falls into a different Personalization Group because a membership rule changes, because Personalization Group hierarchy changes, or because Active Directory changes, their personalization data moves with them automatically. During the upgrade process, user personalization data that may have been orphaned due to user movement between Personalization Groups in the past will be merged. Where there is a conflict, the most recent user personalization data will be used. Pre-upgrade SQL scripts are included with the Personalization Server installation package to show the impact of any changes prior to upgrade.

## File-Based Registry (FBR)

Environment Manager 8.x utilized a file-based registry (FBR) in order to capture virtualized registry keys and values, and these FBR files are also stored in the Environment Manager Personalization database. In version 10+, the FBR mechanism has been replaced with registry hives. FBR files created in 8.x versions of Environment Manager will not be upgraded until the global setting UpgradeFbrToHive is set to True. This should not be set to True until all endpoints have been upgraded to a version 10+ agent. Once the UpgradeFbrToHive has been set to True, the FBR files on the endpoints will be converted to registry hives at next logon or application launch. The old FBR files will remain in place for a period of at least 30 days, after which time they will be deleted if they have not been accessed by version 8.x agents.

## New Features

### Windows Server 2016 Support

Environment Manager 10.1 Personalization Server, Console, and Agent Components are all compatible with Windows Server 2016 (Server with Desktop Experience installation).

### Policy

- **Group Policy Action Enhancements** – The Policy console editor for ADM/ADMX actions has been redesigned to allow administrators to view/edit configurations in a much simpler workflow. Configuration Profiler has also been extended to provide detailed settings (Enabled/Disabled/Value etc) on ADM/ADMX actions. In addition, it is now possible to set a default location for Policies that the Console will use for further configuration.
- **Microsoft Office 2016 Lockdown** – It is now possible use EM Policy Lockdown Actions on applications in the Office 2016 suite using the updated Office Lockdown wizard.
- **Delete File or Folder older than N days' condition** – A new option is now available in the Delete File/Folder action to only remove if the File/Folder attribute (Created/Accessed/Modified) is older than a specified number of days.
- **Simplified Triggers for XenDesktop Sessions** – XenDesktop sessions will now correctly run the appropriate EM Policy triggers during a Session Lock/Unlock or a Disconnect/Connect change. Previously this required additional configuration in EM Policy.
- **Windows 10/Server 2016 Build Number condition** – In the existing Operating System condition you can now target specific Windows 10/2016 build versions.
- **View/Edit functionality now available within Find and Replace** – You are now able to quickly navigate to specific actions/conditions that are returned within an EM Policy search results with the View/Edit option.

### Personalization

- **Enhanced Shortcut Management** – Users who ordinarily roam their personalization settings across multiple endpoints can now benefit from our new shortcut management feature. This protects personalized shortcuts from being displayed (usually as a 'white' icon) if their target path does not exist.
- **Windows Server 2016 Personalization** – Out of the Box configuration is now available for Windows Server 2016 Personalization.
- **Personalization Operations Console Localization** – The Helpdesk console now supports localization to French, Dutch and German languages.

## Bugs Fixed

The following customer support issues have been resolved in this release:

Problem ID	Title
10178	EM Reports 9495 event incorrectly during configuration update
10240	EM console incorrectly handles ADM/X files when changing 'Default' values
10308	Incorrect behaviour of Backspace within the Find & Replace Console feature
10391	EM Agent Not Licensed shows incorrectly within Management Center Alerts
10395	Missing scrollbar within ADMX EM Policy Console
10412	Environment variables syntax using %% within Policy may fail to apply
10449	EM Personalization Analysis File/Date Time view headers are incorrect
10470	Layered configurations can overwrite nodes within a base layer
10481	EM Console incorrectly applies "Apply Permanently" when Create Shortcut actions are copied from Logon to the Start-up trigger
10485	EM Debug Setup Tool displays incorrectly at 150% DPI
10497	Importing a Windows Settings Group from xml performs a 'Merge' rather than 'Replace'
10567	Import Registry Action silently fails to import (bracketed) values
10728	Cloning of Windows Setting - Taskbar - fails to copy O/S specific settings
10766	EMClientDebugSetup incorrectly formatted when at 150% DPI
10788	Personalization Analysis shows incorrect profile sizes following a WSG clean up
10789	Desktop Setting 'Folder Options' lost when upgrading Personalization Server
10794	Unable to open a merged 8.4 configuration in 8.5 console
10876	Personalization XML file(s) fail to import into EM Console when FIPS is enabled
10882	Parallel AND conditions only show "AND" label for first condition
10918	EMPreUtil IMPORT fails if reg_sz contains a newline/linefeed or carriage return characters
10929	Copy Folder action failing on RecurseCreateDirectory() due to limited permissions
10961	Custom Execute (PowerShell) action creates numerous temp files
11014	EMP File Utility - Export windows settings
11035	EM ADM 'Specify which personalization servers are virtual hosts' explain text truncated in EM Console
11037	Desktop icon size fails to persist with default windows settings
11047	Desktop icon size not persisting correctly following upgrade

Problem ID	Title
11054	EM Console doesn't display exclamation point for 'Stop sub nodes on fail' when contained within an if-else condition
11127	EM 8.6 PS Console slow when clicking "Add Existing" application groups
11140	Declining to upgrade an EM configuration could crash the console
11217	Invalid Connection String parameters to EMPFileUtil results in Crash
11221	EM Policy: Copy Node with If brings up "Unable to Complete Operation Conflicts Detected"
11252	Invalid Characters can incorrectly be added to Windows Setting File Name Inclusions
11297	EMPFileUtil.exe IMPORT failing with EM 8.6
11353	EMPluginActionController::InvokeAction error when editing ADM Policies
11361	Save as Live Configuration in EM 8.5 Sp1
11373	Moving If/Else conditions between nodes generates "If not valid for this event" error in console
11571	Unable to add an FQDN UNC path into the User Profile Migration Location
12031	Editing a Registry Action REG_MULTI_SZ to remove lines does not work
12035	EM Console Crash - Duplicate Key when deserializing ConsoleSettings.dat
12109	"Browse" registry keys mechanism within "Import Registry File" action creates incorrect actions
12236	EM Console could intermittently crash when using Find & Replace within large EM Policy configurations
12239	Upgraded Desktop Settings not working following XML export import after 8.4 - 8.5/6 upgrade
12384	Setting ADMX multi_sz is being set as sz when using Environment Manager
12629	Legacy Session Data does not re-upgrade after removing Windows Settings Group Data
12632	Configuration History - Failure to track Registry Hive action changes
12635	EM Console ADMX action settings go missing, example Office "Save Autorecover Info"
12651	Importing a .reg file into the EM console causes registry value names to have whitespace trimmed
12989	EM layered configuration fails to deploy via the Management Center
13033	XenApp Published Application launches a second EMUser process during logoff causing a 40 second delay
13055	Unable to add a Reusable Node into Desktop Created if the RN has an If-Else
13133	Applying a driver change on Win10 requires an additional reboot
13213	EM 8.6 - WSG conditions do not apply following configuration XML import
13225	Desktop Created trigger failing to execute for 32bit published Applications (Citrix)

Problem ID	Title
13251	LSAISO.EXE consumes 25% of CPU when EMAGENT is installed on Windows 10
13269	A 2 <sup>nd</sup> EMUser process can incorrectly launch at logoff from XenApp 6.5 Published Application sessions
13274	User Account Picture fails to roam between sessions with Windows Personalization
13278	Unable to access the Start Menu on Windows 10 when personalizing the vedatamodel.edb file
13288	SCP username validation fails on valid domain username characters
13300	Internet Explorer UserData Windows Personalization update
13480	SQL Replication setup scripts fails to run on SQL Server 2016

## Known Issues and Limitations

The known issues and limitations are now detailed on [support.appsense.com](https://support.appsense.com).

## Supported Operating Systems and Technologies

The maintained Operating Systems and Technologies are now detailed in a [maintained platform matrix](#).

## Required Utilities and Components

Component	Required Utilities and Components
Database Server	Microsoft SQL Server 2012 SP2 or above – all editions Microsoft SQL Server 2014 SP1 or above – all editions Microsoft SQL Server 2016 or above – all editions
Personalization Server	Microsoft Windows Installer 5.0 .NET Framework 4.6.1 Web Server (IIS) <ul style="list-style-type: none"> <li>• Common HTTP Features                             <ul style="list-style-type: none"> <li>○ Default Document</li> <li>○ Directory Browsing</li> <li>○ HTTP Errors</li> <li>○ Static Content</li> <li>○ HTTP Redirection</li> </ul> </li> <li>• Performance                             <ul style="list-style-type: none"> <li>○ Static Content Compression</li> </ul> </li> <li>• Security                             <ul style="list-style-type: none"> <li>○ Request Filtering</li> <li>○ Basic Authentication</li> <li>○ IP and Domain Restrictions</li> <li>○ Windows Authentication</li> </ul> </li> <li>• Application Development                             <ul style="list-style-type: none"> <li>○ .NET Extensibility 4.6</li> <li>○ ASP.NET 4.6</li> <li>○ ISAPI Extensions</li> <li>○ ISAPI Filters</li> </ul> </li> <li>• Management Tools                             <ul style="list-style-type: none"> <li>○ IIS Management Console</li> <li>○ IIS Management Scripts and Tools</li> </ul> </li> </ul> .NET Framework 4.6.1 Features <ul style="list-style-type: none"> <li>• .NET Framework 4.6.1</li> <li>• ASP.NET 4.6</li> <li>• WCF Services                             <ul style="list-style-type: none"> <li>○ HTTP Activation</li> <li>○ TCP Port Sharing</li> </ul> </li> </ul> <a href="#">IIS URL Rewrite Module 2</a> Windows PowerShell 3.0 or above Microsoft Core XML Services (MSXML) 6.0 Microsoft Visual C++ 2015 Redistributable Package Update 3
Console	Microsoft Windows Installer 5.0 Microsoft .NET Framework 4.6.1
Client	Microsoft Windows Installer 5.0 XML Lite 1.0.1018.0 Microsoft Core XML Services (MSXML) 6.0 Microsoft Visual C++ 2015 Redistributable Package Update 3 * Windows 7 SP1 and Windows Server 2008 R2 SP1 must be updated to support SHA-2 hashing algorithm signing and verification prior to Agent Installation. As a minimum, MS KB3125574 is required, but note that from October 2016 this will be superseded by Microsoft's new Monthly Servicing Roll-up model.