

Environment Manager 10.1 Feature Release 4

Release Notes

Components in this Release

Component	Version
Agent	10.1.789.0
Server	10.1.789.0
Console	10.1.789.0
Database	10.1.153

Important Upgrade Information

This Upgrade section contains important functionality changes that have been introduced in Environment Manager v10.0 and above. Any information that is new to this release is specifically listed as Environment Manager v10.1 FR4.

**Note**

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

Windows Server

Environment Manager 10.x 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 Ivanti continues to support Windows Server 2008 R2 as a maintained platform.

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.x 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-256.

**Note**

For details of Windows 7 SP1 and Windows Server 2008 R2 SHA-256 requirements, please refer to the following [Community article](#).

SQL Server

Support for SQL Server 2008 and 2008 R2 has been deprecated, the Environment Manager 10.x Personalization Server now requires SQL Server 2012 SP2 or above. Microsoft mainstream support for SQL Server 2008 and 2008 R2 ended on 8 July 2014.

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

Product Licensing

Environment Manager 10.x requires a v2 product license key and this key must be deployed to all endpoints to which the EM v10.x 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.x and is available from Ivanti Licensing Support.

Further information on Licensing queries is available via the following [community article](#).

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.x with the new Server Configuration Portal and 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 User Workspace Manager 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 User Workspace Manager Installer.

IIS Web Sites

Except when performing an Evaluation install or an in-place upgrade, Environment Manager 10.x Personalization Server Advanced Installations no longer install into the IIS default Web site. 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. To use host headers on port 80, 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 FR4 Personalization Server in Evaluation Mode, to simplify the evaluation process we 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. This is due to Personalization Server now using the root of the IIS website on which it is hosted. Further information is available in the [Install and Upgrade help](#).

Environment Manager Browser Interface (EMBI)

The Environment Manager Browser Interface (EMBI) has been replaced in v10.x with the Personalization Operations (PersOps) console. PersOps does not provide User Self-Service functionality. Self-Service functionality for end users is provided via the Endpoint Self Service Tool (ESST), which is available for users via a system tray shortcut on their Windows desktop.

User Personalization Data

Introduced in Environment Manager 10.0, 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 due to a membership rule changes, or 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) to personalize virtualized registry keys and values. In version 10.x, the FBR mechanism has been replaced with registry hives for efficiency and performance. FBR files created in 8.x versions of Environment Manager will not be upgraded until the global setting

UpgradeFbrToHive is set to True. Once the UpgradeFbrToHive has been set to True (Not Reversible), 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.

For customers who want to stage the implementation of the New Registry Hive format from 8.x, you could first enable the UpgradeFbrToHive setting to True after Server Upgrade to 10.1 FR4 and then target specific desktops for 10.1 FR4 Agent deployment in controlled manner (via our Management Center for example). Please note that in this scenario, if a user roams between 8.x and 10.1 FR4 Agents, the 8.x Agent will continue using the Legacy FBR and the user settings are partitioned between 8.x FBR & 10.x Hive formats.

New Features

Cache Roaming for Virtual Sessions

Cache Roaming attaches a container to the user's virtual desktop or session during logon that persists application caches between sessions.

This feature introduces 2 new EM Policy actions:

- VHD Management – to create, attach and detach a container(s) during a user session
- Cache Roaming – configure locations within the user profile for redirection, either to a container managed with the above action or an alternate folder location

One of the key drivers behind this feature is to support the increasing adoption of Office 365 within the enterprise. Customers can now easily configure roaming between virtual sessions for scenarios, such as Outlook Cached Exchange Mode, using either the “out of box” profile cache options, or alternatively by setting up custom redirections.

GeoSync Set-up for existing Subscribers – Improved Workflow

GeoSync enables organizations to synchronise their personalization configuration and/or user settings across multiple locations, all without the requirement for any 3rd party technologies (such as SQL Merge Replication).

10.1 FR4 introduces capabilities to help existing customers who currently maintain multiple ‘stand-alone’ Personalization Databases but wish to move to GeoSync. To enable a smooth transition to a synchronised model, 10.1 FR4 provides customers with a script that can be used to ensure the subscriber database(s) are compatible with their publisher prior to set-up.

Windows 10 Enhancements

As part of our continued focus on Windows 10 adoption, 10.1 FR4 extends existing features in two key areas:

- The File Type Association (FTA) policy action now fully manages default application settings for file types
- User resizing of the Start Menu is now personalized across sessions on Windows 10 1703 (and above)

Bugs Fixed

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

Problem ID	Title
12636	EM 8.6 SP2 - Wallpaper not persisting if selected from a mapped drive
12953	Management Center reporting for Environment Manager events can produce errors when data contains apostrophe character
13532	Excessive registry keys within Group Policy could cause a delay in application launch times
14167	Registry export actions configured with 'Merge' option can result in Registry value types changing unexpectedly
14190	Registry hiving actions can incorrectly import REG_MULTI_SZ values
14212	App-V applications may fail to launch when personalized
14238	Recent item lists fail to personalize with Office 2016/365 'click-to-run' based applications
14243	Unable to start GeoSync after restoring backups of either Publisher or Subscriber databases
14254	Changes made to User Data on GeoSync subscribers via Personalization Analysis fail to sync if the targeted user has not yet logged on since enabled
14270	GeoSync statistics view can report incorrect profile sync status
14284	Import of Default ApplicationTemplates.xml incorrectly displays warning in 10.1 FR3
14286	Pinned App-V/Explorer shortcut links are not visible within user session after upgrade to EM 10.1 Agent

Known Issues and Limitations

The known issues and limitations are now detailed on community.ivanti.com.

Supported Operating System and Technologies

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

Required Utilities and Components



Note

For details of Windows 7 SP1 and Windows Server 2008 R2 SHA-256 requirements, please refer to the following [community article](#).

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"> • Common HTTP Features: <ul style="list-style-type: none"> ○ Default Document ○ Directory Browsing ○ HTTP Errors ○ Static Content ○ HTTP Redirection • Performance <ul style="list-style-type: none"> ○ Static Content Compression • Security: <ul style="list-style-type: none"> ○ Request Filtering ○ Basic Authentication ○ IP and Domain Restrictions ○ Windows Authentication • Application Development: <ul style="list-style-type: none"> ○ .NET Extensibility 4.6 ○ ASP.NET 4.6 ○ ISAPI Extensions ○ SAPI Filters • Management Tools: <ul style="list-style-type: none"> ○ IIS Management Console ○ IIS Management Scripts and Tools .NET Framework 4.6.1 Features: <ul style="list-style-type: none"> • .NET Framework 4.6.1 • ASP.NET 4.6 • WCF Services: <ul style="list-style-type: none"> ○ HTTP Activation

Component	Required Utilities and Components
	<ul style="list-style-type: none"> ○ TCP Port Sharing IIS URL Rewrite Module 2 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

Further Help and Information

Information about installing, configuring, and using Environment Manager is available from the [product help](#).

For details on all the features and fixes introduced since Environment Manager 10.1, please refer to the links below:

Environment Manager 10.1 FR1 Release Notes

<https://community.ivanti.com/docs/DOC-47758>

Environment Manager 10.1 FR2 Release Notes

<https://community.ivanti.com/docs/DOC-48987>

Environment Manager 10.1 FR3 Release Notes

<https://community.ivanti.com/docs/DOC-61807>