

Environment Manager 10.1 FR1

Release Notes

Components in this Release

Component	Version
Agent	10.1.423.0
Server	10.1.423.0
Console	10.1.423.0
Database	10.1.56

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 FR1.

**Note**

We are including 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 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.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 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 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.x 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. 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 FR1 Personalization Server in Evaluation Mode, to simplify the evaluation process we utilize 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 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 Endpoint.

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 FR1 and then target specific Endpoints for 10.1 FR1 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 FR1 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

Scheduling of Policy Nodes

It is now possible to configure Environment Manager Policy Nodes to additionally also run at a given schedule. This provides Administrators with the flexibility to re-apply or evaluate specific actions or conditions within their configuration at a determined interval without the trigger having to be re-executed.

For example, if an Administrator chose to schedule a Node within the User Pre-Desktop Trigger. It could run both during logon and at the determined schedule irrespective of whether the User had logged off and on again.

By using a similar workflow to the Windows Task Scheduler, we have made it simple for customers to leverage this new functionality as an alternative to complex scripting.

This feature is available within both the User and Computer Policy Triggers.

Configuration Notes and Comments

Within Environment Manager Policy, Administrators can now annotate their Node Actions and Conditions.

This feature introduces 3 new options:

- Comments within the Policy Node Action pane
- The default Node description is now editable
- A Notes tab has been added to the Policy Node Action view

These are especially useful in environments where multiple administrators will be accessing Policy configurations, allowing for visual tracking of key additional details and updates within the configuration.

Console Rebrand and Renaming

The Environment Manager Console has been updated to reflect the new company name of Ivanti - see [here](#) for more details.

You may still see the 'AppSense Environment Manager' name used in certain areas, such as the registry or services. This is to make the transition as least disruptive as possible for existing customers.

Icon Refresh

Having made significant changes to the design of the DesktopNow consoles in version 10, we have listened to feedback and added a splash of color back into the consoles by refreshing and updating some of the icons used in the Environment Manager console.

SQL Mirroring Support

Support for SQL Mirroring has been re-instated for 10.1 FR1 release - it was not available in 10.0/10.1. Our best practice for this use case is to utilize SQL Always On. From listening to customer feedback, we have decided to make this extra step to extend SQL Mirroring support with the FR1 release to allow customers adequate time to make the transition to our best practice.

For more information, see the [DesktopNow help](#).

Bugs Fixed

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

Problem ID	Title
14084	Environment Manager Configuration upgrade can take longer than expected to complete with a pre-10.1 Policy that contains a large amount of Group Policy actions
14075	Windows 10 Logoff could hang indefinitely at the "Running logoff actions..." notification
14051	Personalization of AppV 5.1 packages may fail in RDSH/Multi-Session environments
14030	After upgrade to EM 10.1, ODBC actions fail to execute for 32bit ODBC drivers
14029	Incorrect category maybe specified for a Group Policy action incorrect
13618	Windows Settings Groups fail to sync due to an Application Data INSERT constraint violation
13619	EmSystem.exe may crash when Nested Computer Group Queries are enabled
13604	Disabling Shell: Shortcuts natively on Windows 7 Endpoints can cause EM Folder Redirections to fail
13552	EMMon.exe fails to launch if it is the only application installed via the EM Administrative Tools MSI
13529	10.x Personalized applications fail to launch after an Endpoint has experienced an ungraceful shutdown
13502	FK_UserUserADGroup_UserADGroup errors are present within a Personalization server event log
13501	Application start is delayed due to PVC walking the path of 8dot3 filename format CreateFile requests
13499	Windows Setting Group Registry inclusions are incorrectly excluding Registry data from Application Personalization groups
13450	Configuration Profiles are not updated when an Inclusion or Exclusion path contains trailing whitespace
13436	Personalization console XML import could assign incorrect Windows Settings Groups to a Personalization Group
13398	Internet Explorer 11 experiences an issue at Application close within AppV 5.1 environments
13380	Set Registry Value Actions within EM Policy snippets that contain German Umlauts fail to import correctly
13359	Computer Group condition evaluates incorrectly if an Endpoint is within an AD Organizational Unit (OU) that contains a backslash character within its name
13338	EM Session or Environment variables could contain incorrect values when configurations contain many variable actions

Problem ID	Title
13330	IfElse and Elself expressions do not set their descriptions correctly when configured via EM Config API
13315	AddElselfExpression API is not contained within the Product Documentation
13309	Resume interrupted folder copy items is labelled incorrectly within the EM Config API
13303	Daily Archiving can take an excessive time to complete within large customer environments
13273	Index was outside the bounds or the array error when exporting Registry data via Personalization Analysis
13265	File Copy actions can fail to complete when the if exists option has been enabled
13247	ProgramFiles(x86) variable is not available within an Application Personalization folder path
13220	Incorrect import behaviour when adding a new Application with no path inclusions via Data Collection advanced mode
13218	Configurations created via the EM Config API fail to merge
13214	A child condition fails to apply if the Parent Condition has a child action already assigned
13082	Personalization fails to sync files that have names containing emoji characters
13060	AppSense EM Config - Shortcut\Event Log/XML Issue
13026	Policy actions within an Else condition do not execute correctly in certain circumstances
13016	Registry Set Value and Self Heal Actions are incorrectly truncated
13013	Endpoint Self-Service Tool generates a "Access to Personalization Server denied" error on FIPS enabled Endpoints
12598	Disabling a Process Start condition but enabling its Child action results in unexpected Policy execution on the Endpoint
12592	Profile Migration with V1 Windows Profiles can fail if the AppData & Local AppData shell folders entries are missing from the Users registry
12565	Personalized Office applications could fail to save Documents correctly to mapped drive locations
12452	An XML template containing an If Condition fails to be imported into the Desktop Created trigger
12005	Unable to Delete a Reusable Node from Group Node

Problem ID	Title
11518	Export-EMPMangedAppData cmdlet failing to export file inclusions
11438	Computer Group Policy actions within a reusable node run successfully but fail to raise the correct events
11420	Attempting to lockdown a dialog within Google Chrome can result in an application crash
11392	EMMON can display incorrect Session details within an ETL log that has been rolled over
11239	Etl2Txt.exe generates an "iostream stream error" when attempting to convert to a log file
11238	Enabling the EMMON 'Auto Filter Row' option results in slow keyboard input response
11083	Start Menu and Task Bar shortcut files can be duplicated within the database when a user un-pins and then re-pins items
11056	Deleting an Application Group directly whilst it is assigned to a User Group does not result in a User's Configuration being correctly updated
11050	Is VDI policy condition evaluates incorrectly
10900	Personalization API ApplicationGroup_GetByName Method doesn't contain correct Managed Folder data
10826	Environment Manager fails to apply "Fast Logoff" Policy Action on XenDesktop 7.5 x64 Endpoints
10545	REG_NONE values fail to import or export correctly using EMPRegUtil or Personalization Analysis
10505	Large volume of Client Computer OU conditions can exceed the permitted backlog queue limit in AFD.SYS
10163	Personalization data loss when moving between environments with/without folder redirection

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 ○ ISAPI 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 ○ 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

Component	Required Utilities and Components
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](#).