



Workspace Control

## **Release Notes**

2021.2 (version 10.7.10.0)

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# Important Information

## New installation

Before performing a new installation of Workspace Control, please read the following release note carefully:

### ActiveReports components

The ActiveReports components (libraries and object code) included in this release are proprietary to Data Dynamics, Ltd. (acquired by: GrapeCity, Inc.). By downloading and installing this release, end-users assume and accept sole responsibility of the use of the ActiveReports components, and will not act contrary to license terms applicable and available via <https://www.grapacity.com/legal/eula>.

## Microsoft .NET Framework prerequisite



Workspace Control 2021.2 (version 10.7.10.0) requires .NET Framework 4.7.2 or higher.

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## Drivers

The following table shows when Workspace Control drivers were last updated:

Driver	Last updated in
FileGuard	Ivanti Workspace Control version 10.3.40.0
ImgGuard	Ivanti Workspace Control version 10.4.50.0
NetGuard	Ivanti Workspace Control 2020 (version 10.5.0.0)
RegGuard	Ivanti Workspace Control 2021.2 (version 10.7.10.0)
RESNFLT	Ivanti Workspace Control 2021.1 Service Update 1 (version 10.6.40.0)



When upgrading to a Workspace Control version that updated one of drivers listed in the table above, a restart is required to activate the updated driver.

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## Datastore

The following table shows the Workspace Control version that introduced the Datastore revision level that applies to Workspace Control 2021.2.

Datastore revision level	Introduced in
13	RES Workspace Manager 2014 SR3



When upgrading to Workspace Control 2021.2, if the Datastore is of a lower revision level than the level specified in the table above, then the Datastore is automatically updated.

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# What's New

This section covers new features, enhancements, improvements or compatibility updates included in Workspace Control 2021.2 (version 10.7.10.0).

## User Voice Feature Requests

Thank you for your support and continued submission of Product Enhancement Requests using the [Product Ideas page on the Ivanti Community](#). These requests are reviewed every week and form a valuable input for the Workspace Control product roadmap. Please continue to submit your ideas and vote for your favorites.

The following user requests have been addressed in this version of Workspace Control:

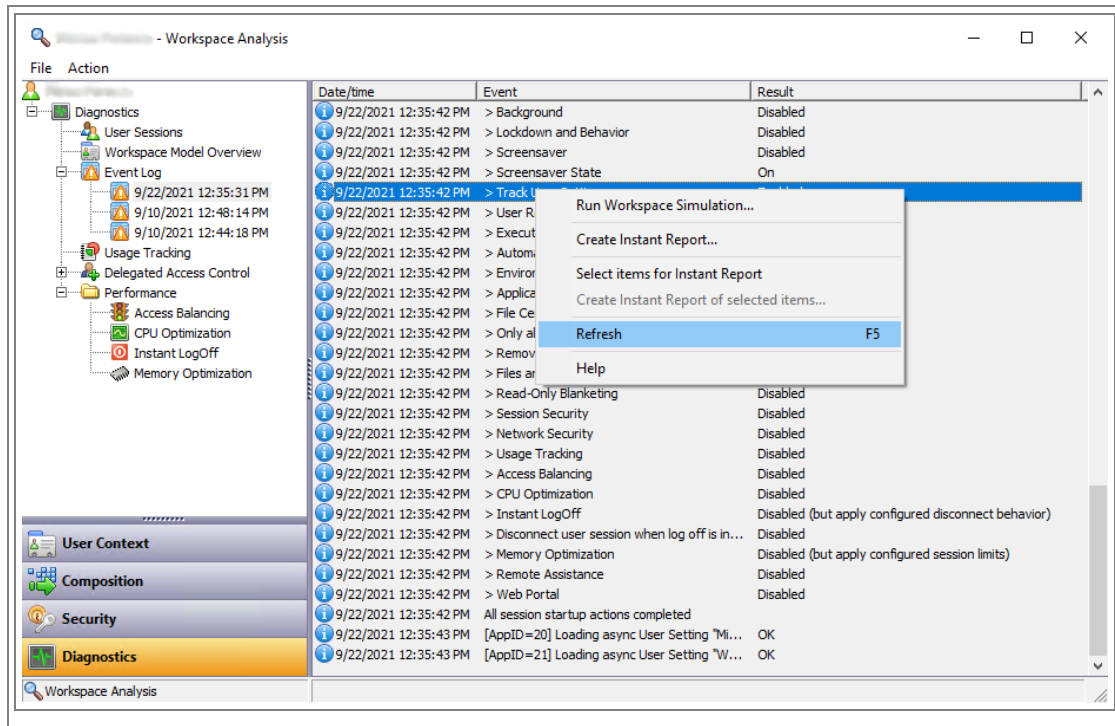
## Refresh event logs for Workspace Analysis

The Workspace Analysis tool is now enhanced with the option to refresh user event logs.

Open the Workspace Control Console and navigate to **Diagnostics > Workspace Analysis** or **User Sessions**. From the right-side pane, open the Workspace Analysis tool for a user from the list. In the **Workspace Analysis** window, navigate to **Diagnostics > Event log**.

To refresh the event log, use one of the following methods:

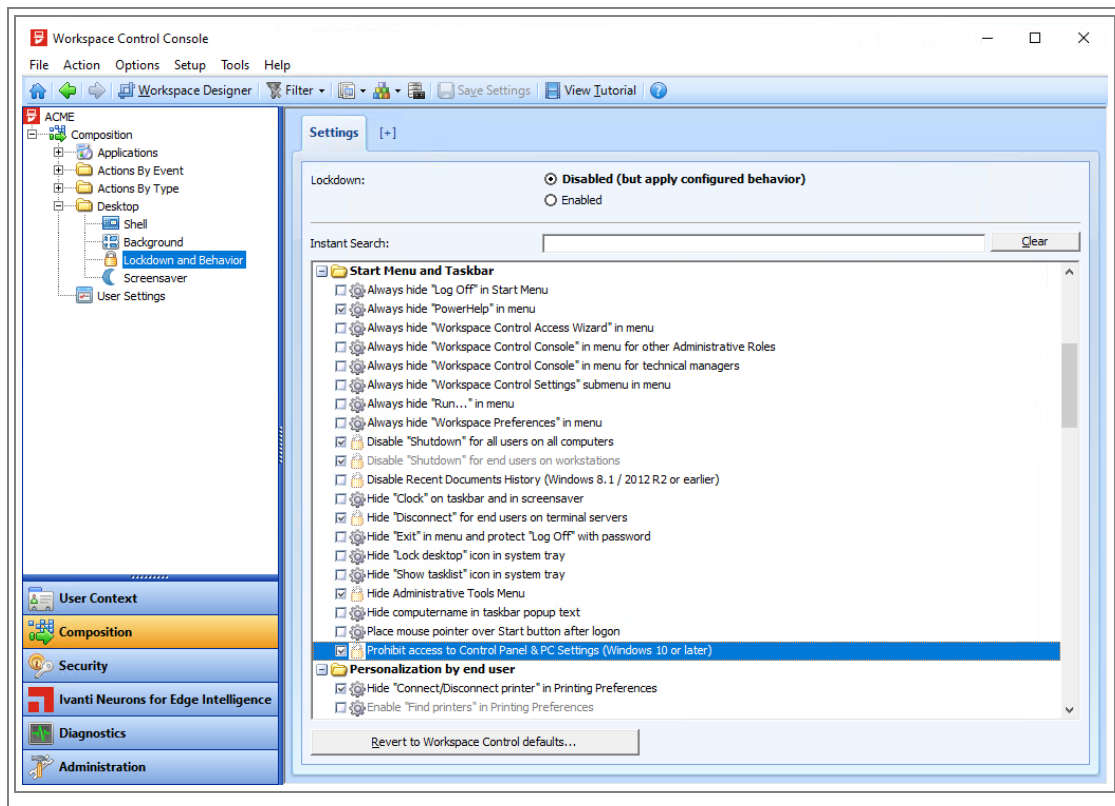
- Select an event log and press **F5**.
- In the main menu bar, select **Action > Refresh**.
- Right-click on an event log in the left-side navigation menu, or right-click on any log entry in the right-side pane, and then select **Refresh** from the context menu.



More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

## Prohibit access to Windows Control Panel and PC Settings

To prevent end-users on Workspace Control Agents from editing Windows settings, select the **Prohibit access to Control Panel & PC Settings** option from within the Workspace Control Console, under **Composition > Desktop > Lockdown and Behavior > Settings** tab, in the **Start Menu and Taskbar** section.



Deselecting the option grants end-users access to the Windows Control Panel and PC Settings.



This option is applicable only for Microsoft Windows 10 or later operating systems.

More details about this User Voice Feature Request are found on [Ivanti Ideas](#).



## New Enhancements and Improvements

The following enhancements and/or improvements are part of this version of Workspace Control:

### Block client IP address from being sent to the Datastore

To configure Workspace Control to ignore a specific IP range or IP address when sending client IP addresses to the Datastore, create the following registry setting (string value):

Key	<ul style="list-style-type: none"><li>• HKEY_LOCAL_MACHINE\SOFTWARE\RES\Workspace Manager (32-bit)</li><li>• HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\RES\Workspace Manager (64-bit)</li></ul>
Value	IgnoreClientIPAddress
Type	REG_SZ
Data	<XXX.XXX.XXX.XXX> (digit groups of the IP address or range to ignore)

For details on how to configure the registry setting, see the [Ivanti Workspace Control Administration Guide](#).

Additional information is found in this [KB article](#).

### Ivanti Neurons for Edge Intelligence integration security improvement

The security of the Ivanti Neurons for Edge Intelligence integration with Workspace Control has been improved.

## Improved Zone Rules

When configuring **Zones** in the Workspace Control Console, under **User Context > Locations and Devices**, an IP address check is now implemented for **Rules** to prevent incorrect IP configurations that can result in undesired behavior, such as mapping the wrong network drives or printers.. The check verifies if the entered IP address is composed of four digit groups, and that each digit group is between 0 and 255.

This applies to the following Zone Rules:

- **Computer > IP address > IP address/IP address range**
- **Network > IP address > IP address/IP address range**
- **Remote Desktop > IP address > IP address/IP address range**

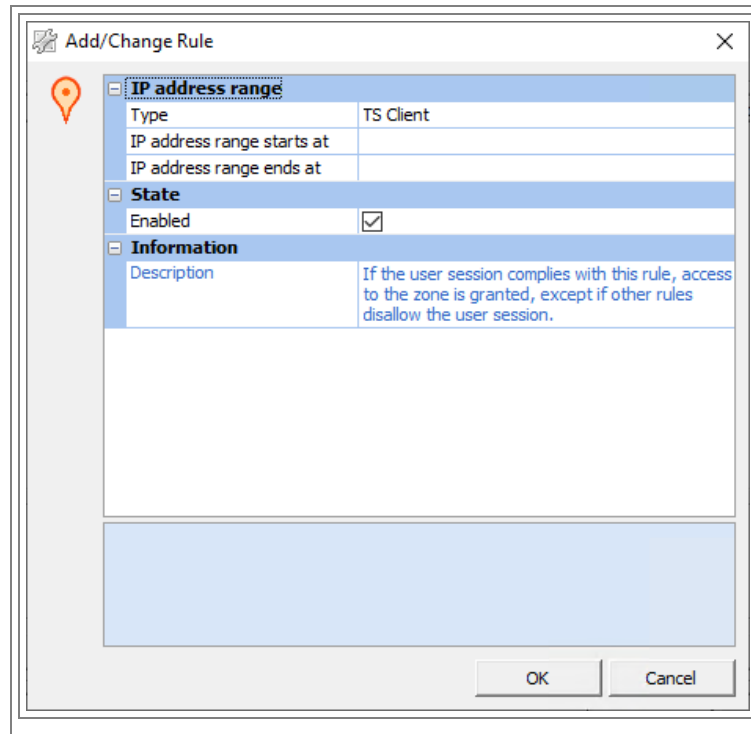


Wildcards can still be used when entering an IP address.

---

The following fields found in IP address range Zone Rules have been renamed to better reflect their functionality:

- **IP address starts at** was renamed as **IP address range start at**
- **IP address ends at** was renamed as **IP address range ends at**



**Add/Change Rule**

**IP address range**

Type	TS Client
IP address range starts at	
IP address range ends at	

**State**

Enabled	<input checked="" type="checkbox"/>
---------	-------------------------------------

**Information**

Description	If the user session complies with this rule, access to the zone is granted, except if other rules disallow the user session.
-------------	--

OK Cancel

## Blacklisting and Whitelisting changed to Deny and Allow

The **Blacklisting** and **Whitelisting** options in Workspace Control are now renamed to **Deny** and **Allow** respectively. This changes occurred in the Workspace Control Console for the following options:

- **Security > Applications > User Installed Applications > Settings tab > Software installations.**
- **Security > Applications > Websites > Settings tab > Security method.**
- **Security > Authorized Certificates.** Open a certificate and in the **Authorize Certificate** window > **Mode.**
- **Security > Network Connections > Settings tab > Security method.**

## Previous versions

The following sections covers the new features, enhancements, improvements or compatibility updates introduced in previous versions of Workspace Control 2021.

- ["Workspace Control 2021.1 \(10.6.50.0\)" on page 13](#)
- ["Workspace Control 2021.1 \(10.6.40.0\)" on page 21](#)
- ["Workspace Control 2021.1 \(10.6.30.0\)" on page 33](#)
- ["Workspace Control 2021.1 \(10.6.20.0\)" on page 41](#)
- ["Workspace Control 2021.1 \(10.6.10.0\)" on page 45](#)

# Workspace Control 2021.1 (10.6.50.0)

This section covers new features, enhancements, improvements or compatibility updates included in Workspace Control 2021.1 version 10.6.50.0.

## User Voice Feature Requests

Thank you for your support and continued submission of Product Enhancement Requests using the [Product Ideas page on the Ivanti Community](#). These requests are reviewed every week and form a valuable input for the Workspace Control product roadmap. Please continue to submit your ideas and vote for your favorites.

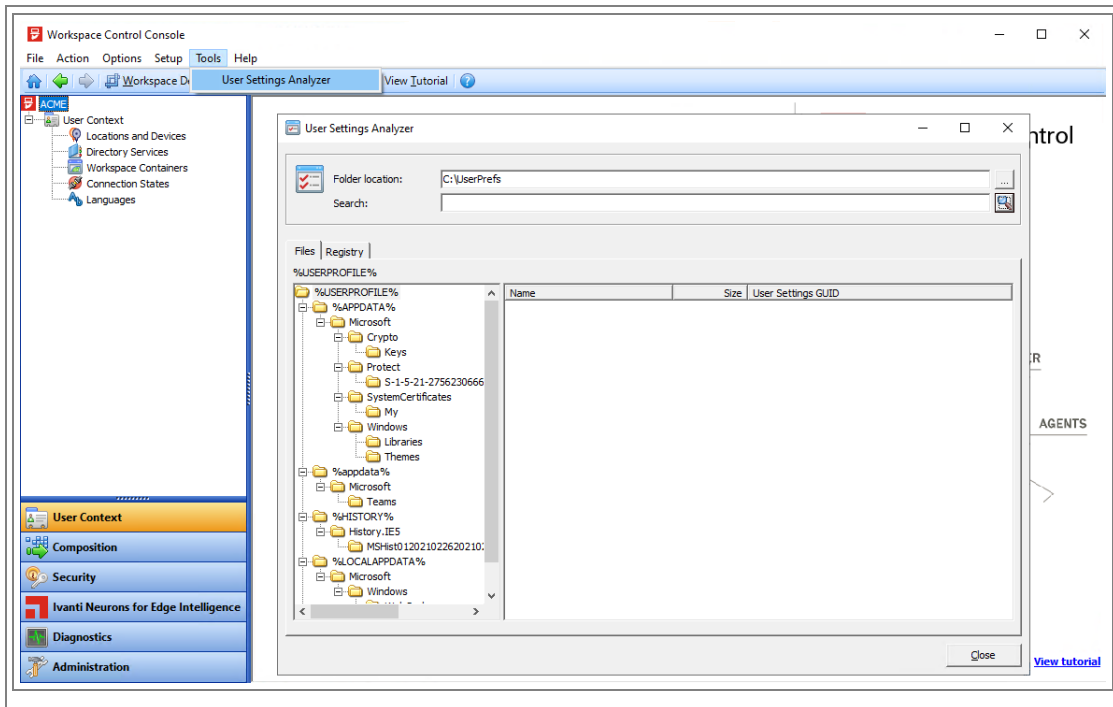
The following user requests have been addressed in this version of Workspace Control:

## User Settings Analyzer

The **User Settings Analyzer** is a Workspace Control tool that helps administrators inspect and analyze the various user settings found in the saved data of users. This is helpful, for example, when you need to search for a specific user setting among hundreds or more. The tool is used to analyze the `UserPrefs` folder, which is usually located on the home drive of the users.

The tool is found in the Workspace Control Console, in the main menu bar, under **Tools > User Settings Analyzer**.

For details on how to use the **User Settings Analyzer**, see the [Ivanti Workspace Control Administration Guide](#).



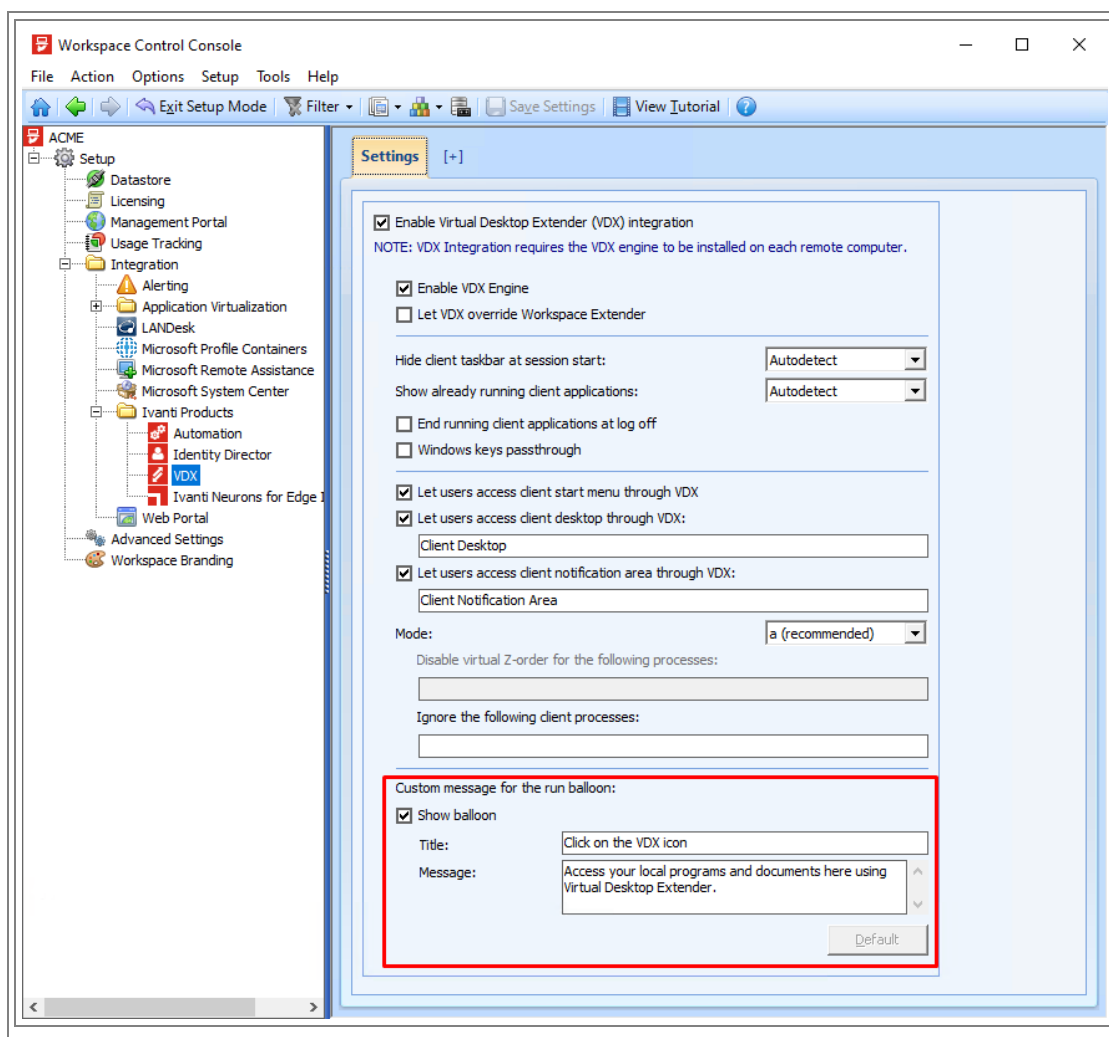
More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

## VDX Show balloon

In the Workspace Control Console, under **Setup > Integration > Ivanti Products > VDX > Settings** tab, a new option **Show balloon** was added.

By default, when the **VDX integration** is enabled, this option is selected and enables Ivanti VDX to display an information balloon with the details provided in the **Title** and **Message** options. The information balloon is displayed in the notification area of managed sessions on Workspace Control Agents during startup.

Deselecting the **Show balloon** option disables the information balloon from appearing.



For the **Show balloon** option to function, the VDX Agents and the VDX Engine need to be upgraded to Ivanti VDX version 10.3.70.0 or later.

More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

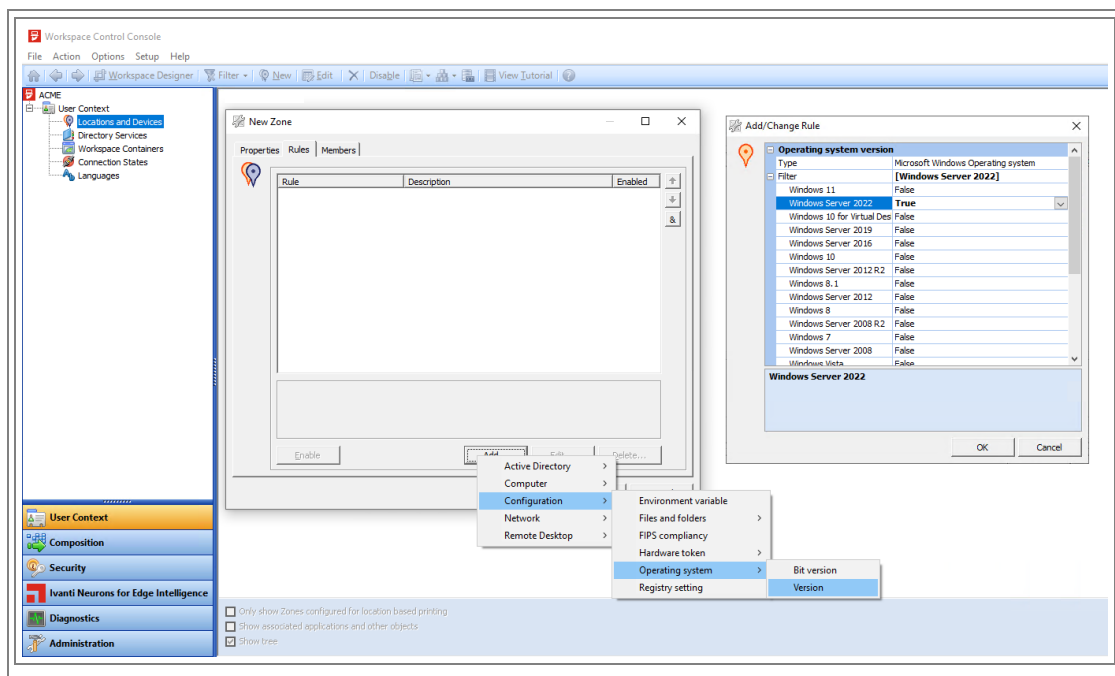
## New Enhancements and Improvements

The following enhancements and/or improvements are part of this version of Workspace Control:

### Windows Server 2022 option for Zone Rules

When configuring Microsoft operating system Rules for Zones, Windows Server 2022 is now available as an option.

The new operating system option is available under **User Context > Locations and Devices**. Create or edit a Zone and under its **Rules** tab, select **Add > Computer/Configuration > Operating system > Version**.

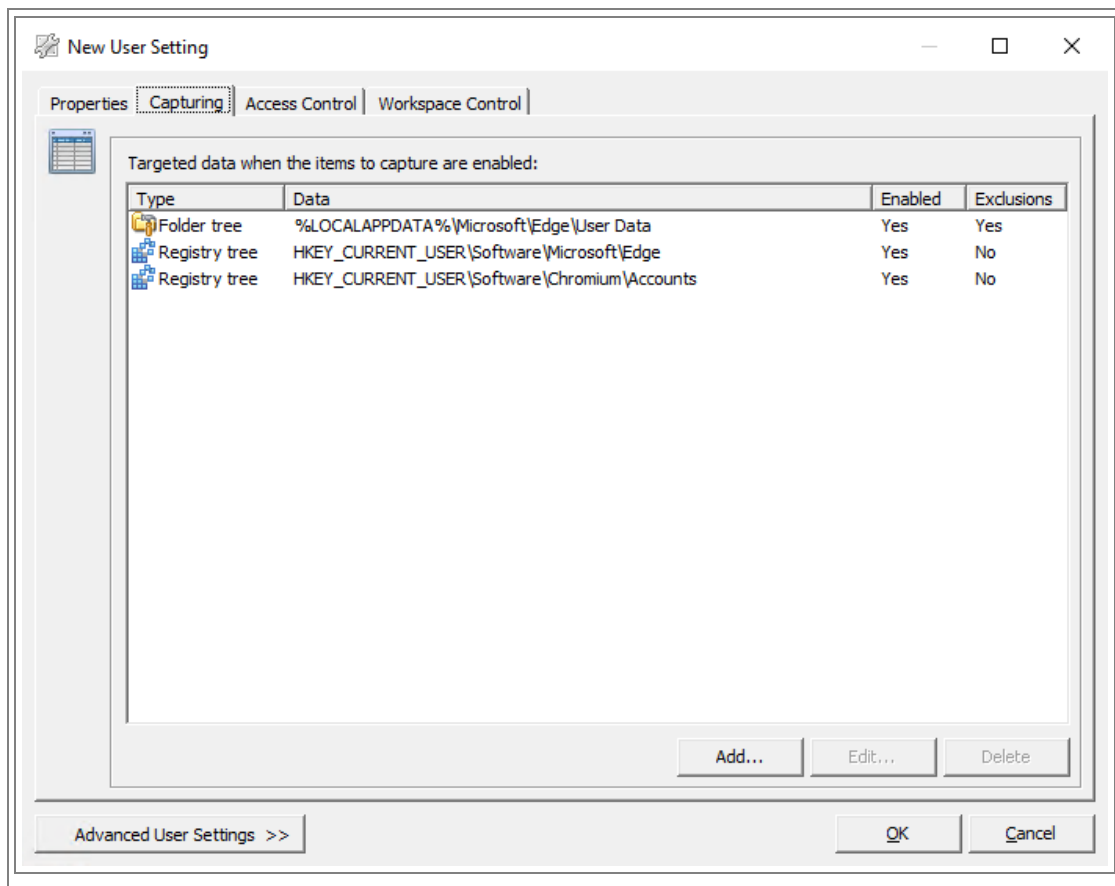




## Enhanced Edge Chromium user settings template

The user settings template for Edge Chromium was enhanced with the following changes:

- Folder trees %cookies% and %history% are removed.
- Folder tree %localappdata%\Microsoft\Edge is changed to %localappdata%\Microsoft\Edge\User Data
- %localappdata%\Microsoft\Edge\User Data\Default\Cache is added as an exclusion on %localappdata%\Microsoft\Edge\User Data



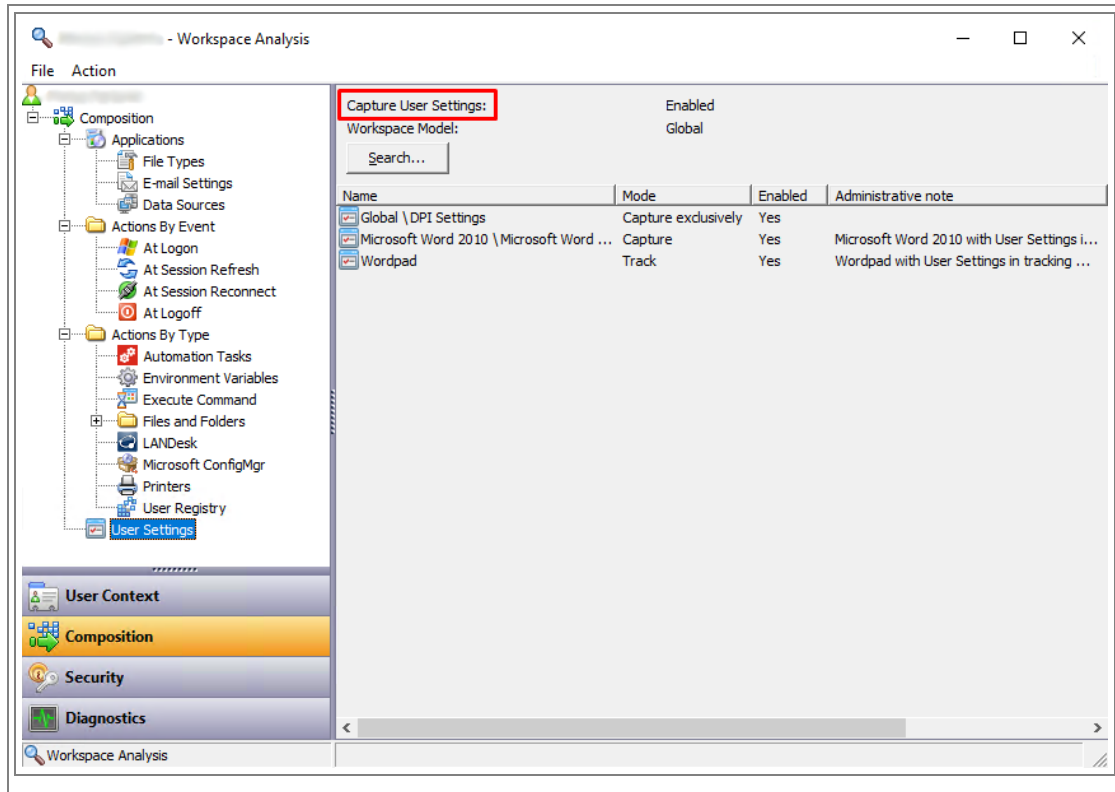
The template is found in the Workspace Control Console, under **Composition > User Settings**. From the main menu bar, select **New > Templates > Internet Browsing > Edge Chromium**.

Additional information is found in this [KB article](#).

## Track User Settings renamed to Capture User Settings

The **Track User Settings** option in the Workspace Analysis tool was renamed to **Capture User Settings** to better reflect the functionality of the option.

The option is found in the Workspace Control Console, under **Diagnostics > User Sessions**. Select a user from the right-side pane and then double-click on the entry to open the Workspace Analysis tool for the selected user. In the **Workspace Analysis** window, navigate to **Composition > User Settings**.



## Block IP addresses from being sent to the Datastore

To configure Workspace Control to ignore a specific IP range or IP address when sending the computer IP address to the Datastore, create the following registry setting (string value):

Key	<ul style="list-style-type: none"><li>• HKEY_LOCAL_MACHINE\SOFTWARE\RES\Workspace Manager (32-bit)</li><li>• HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\RES\Workspace Manager (64-bit)</li></ul>
Value	IgnoreServerIPAddress
Type	REG_SZ
Data	<XXX.XXX.XXX.XXX> (digit groups of the IP address or IP range to ignore)

For details on how to configure the registry setting, see the [Ivanti Workspace Control Administration Guide - IgnoreServerIPAddress](#).

Additional information is found in this [KB article](#).

## **Compatibility Updates**

The following compatibility updates are part of this version of Workspace Control:

### **Windows Server 2022**

Ivanti Workspace Control now supports Windows Server 2022 operating systems.

### **Windows 11 Tile Management**

Microsoft Windows 11 operating systems do not use tiles for application shortcuts. Therefore, Workspace Control tile management for Windows 11 is unavailable.

# Workspace Control 2021.1 (10.6.40.0)

This section covers new features, enhancements, improvements or compatibility updates included in Workspace Control 2021.1 version 10.6.40.0.

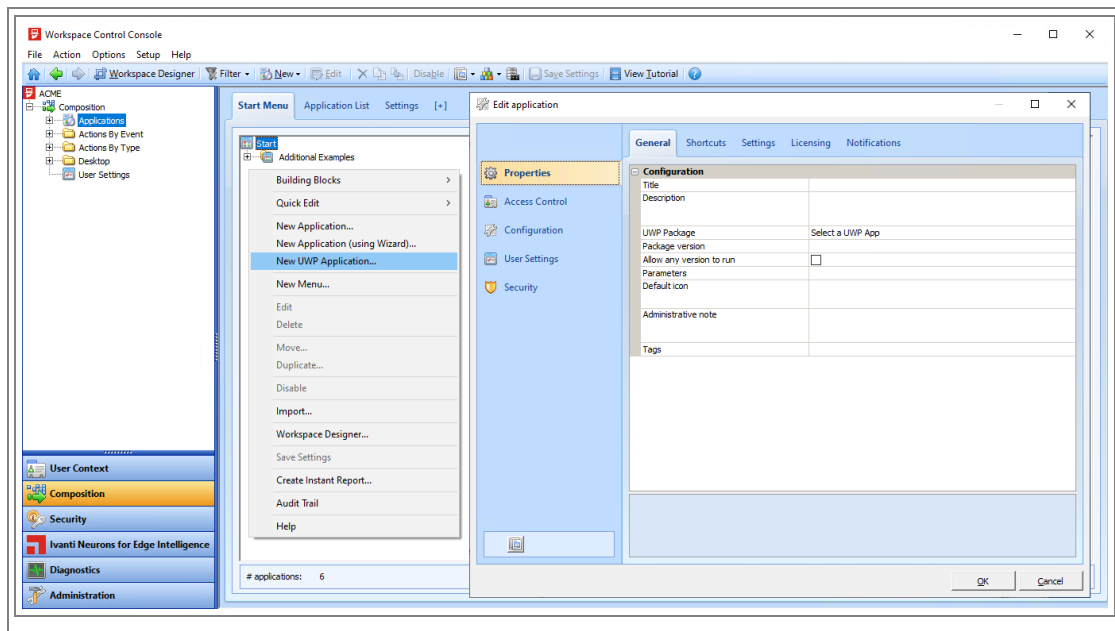
## User Voice Feature Requests

Thank you for your support and continued submission of Product Enhancement Requests using the [Product Ideas page on the Ivanti Community](#). These requests are reviewed every week and form a valuable input for the Workspace Control product roadmap. Please continue to submit your ideas and vote for your favorites.

The following user requests have been addressed in this version of Workspace Control:

## Support for UWP Applications

In the Workspace Control Console, under **Composition > Applications**, Universal Windows Platform (UWP) applications can now be configured as Workspace Control managed applications. For more details, see the [Workspace Control Administration Guide](#).

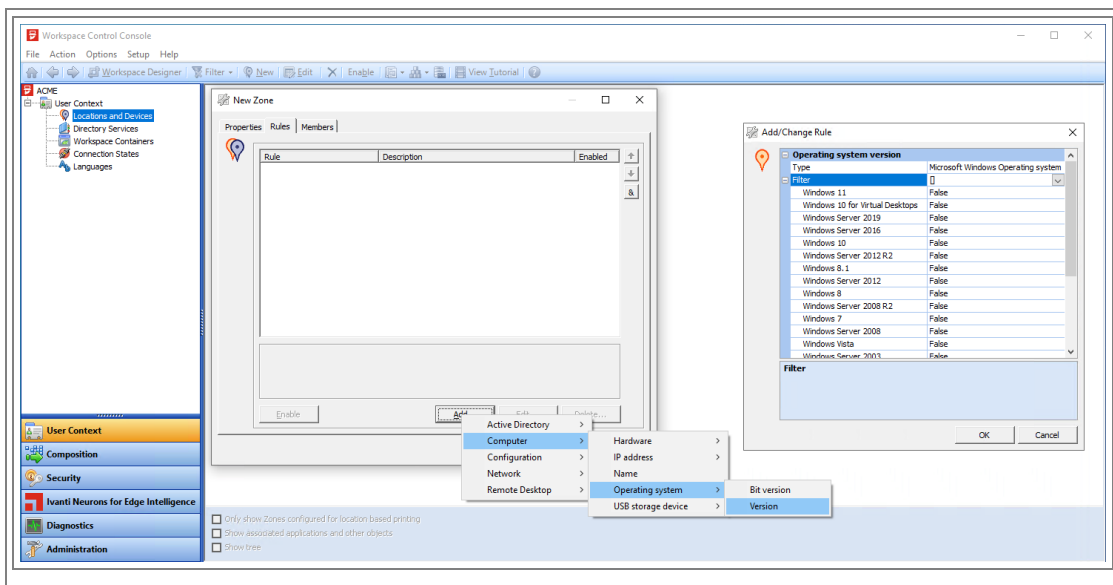


More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

## Zone Rules display operating systems in reverse chronological order

In the Workspace Control Console, when configuring operating system **Rules** for Zones, the available Microsoft Windows operating systems are now displayed from newest to oldest.

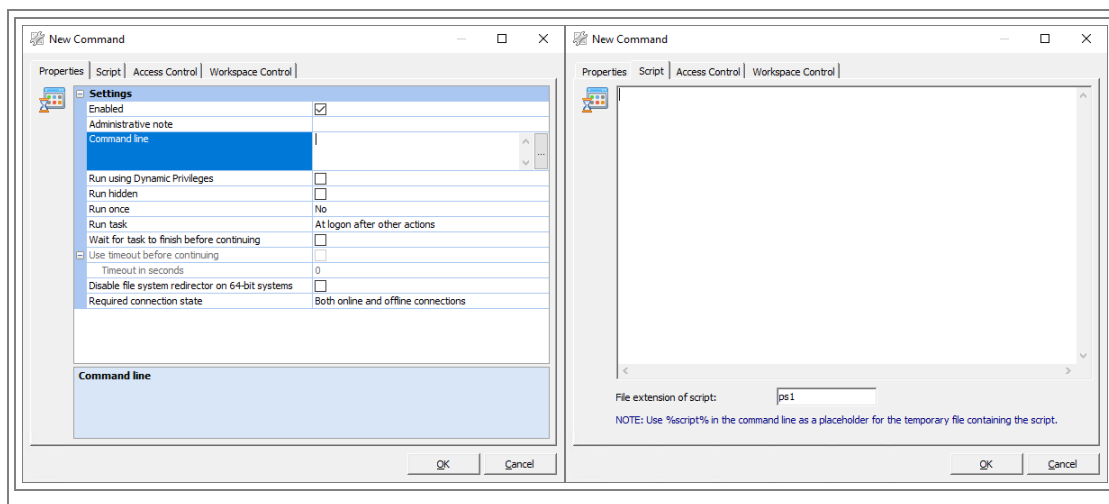
This is available under **User Context > Locations and Devices**. Create or edit a Zone and under its **Rules** tab, select **Add > Computer/Configuration > Operating system > Version**.



More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

## Script text for execute commands is selectable using CTRL + A

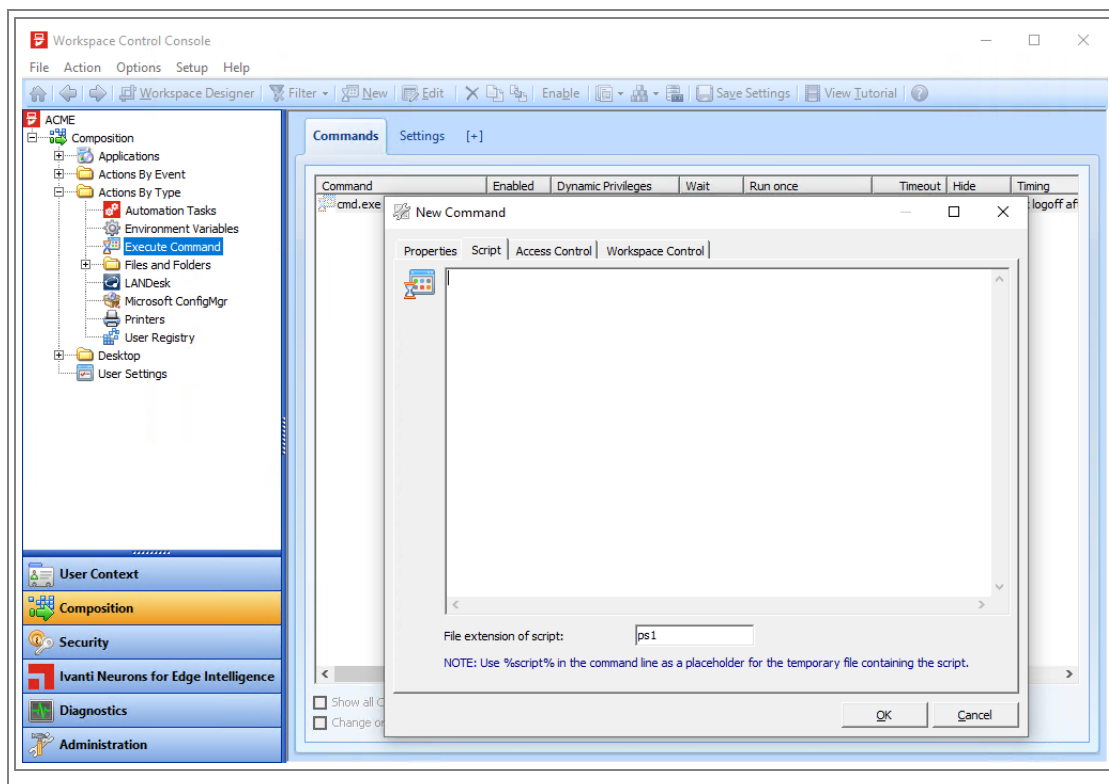
In the Workspace Control Console, when configuring commands under **Composition > Actions By Type > Execute Commands**, the inputs fields for the **Command line** option (under the **Properties** tab) and the **Script** tab can now be selected using **CTRL + A**.



More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

## PS1 as the default script file extension

In the Workspace Control Console, when configuring commands under **Composition > Actions By Type > Execute Commands**, the default file extension for scripts is now `ps1`.

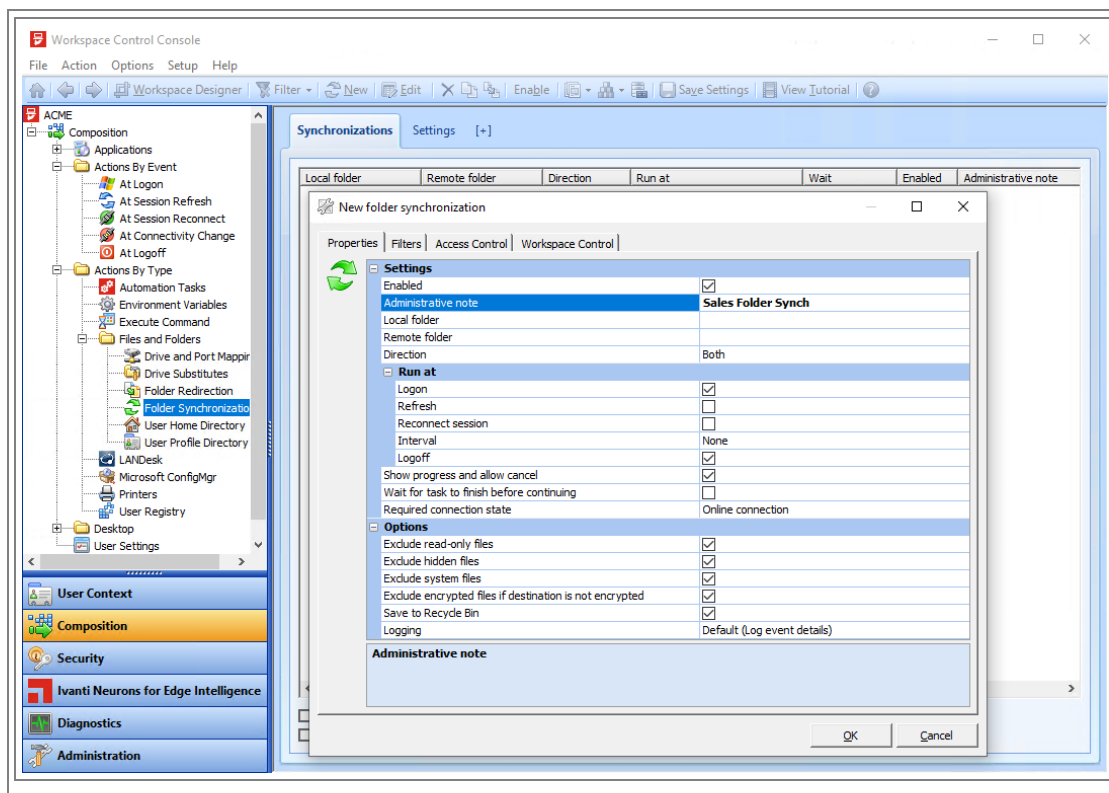


More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

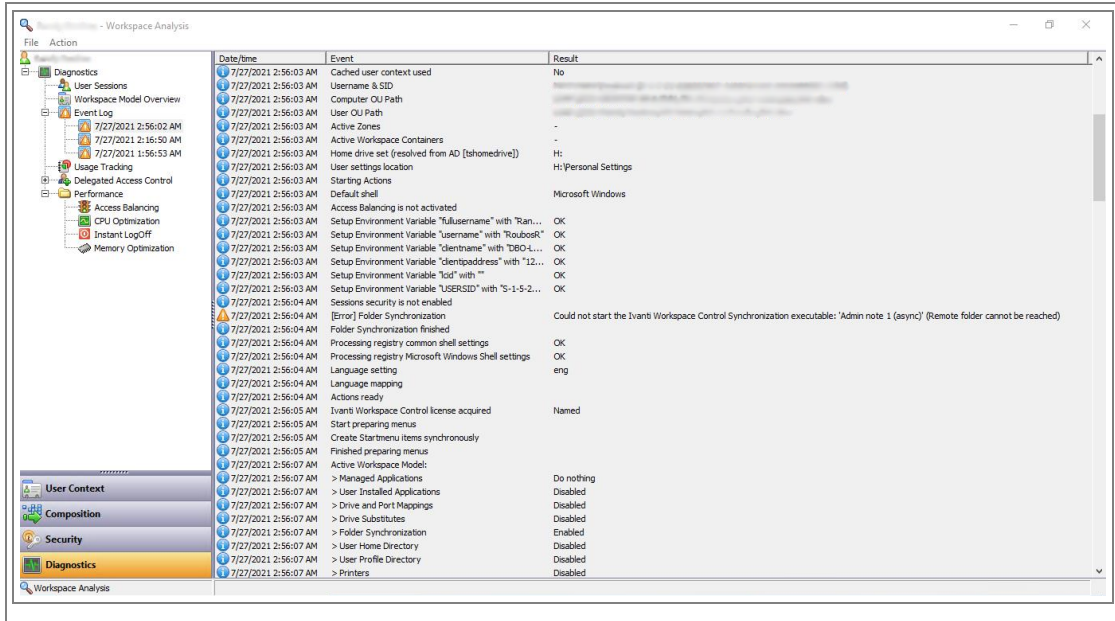


## Event log shows administrative notes for Folder Synchronizations

In the Workspace Control Console, under **Composition > Actions By Type > Files and Folders > Folder Synchronization**, folder synchronizations can be set up with administrative notes.



These administrative notes now show in error messages in the **Event Log** when using Workspace Analysis. Event logs are available for users in the Workspace Control Console, under **Diagnostics > User Sessions**.



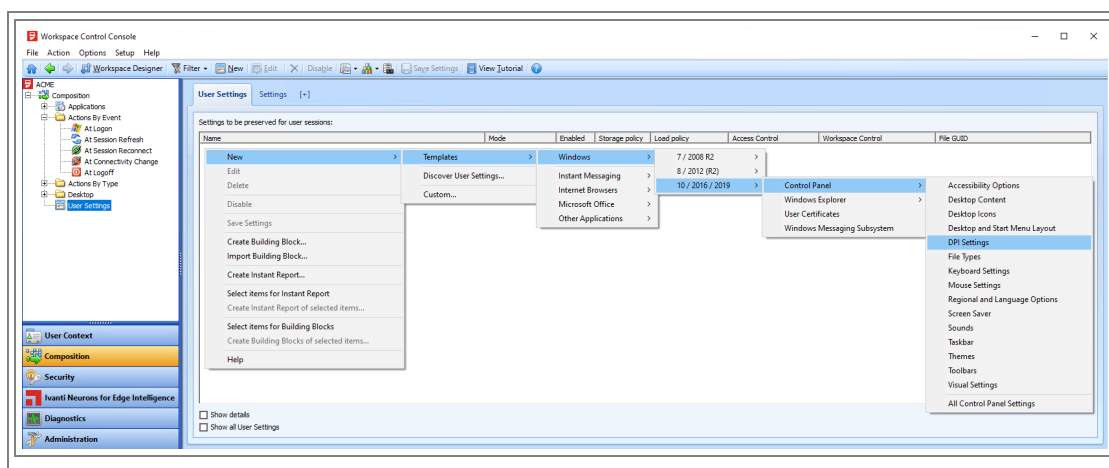
More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

## New Enhancements and Improvements

The following enhancements and/or improvements are part of this version of Workspace Control:

### Capture DPI settings using User Settings template

A new template was added to facilitate the capture of Display Scaling (DPI) settings. The template is found in the Workspace Control Console, under **Composition > User Settings**. Right-click in the **User Settings** tab and from the context menu select **New > Templates > Windows > 10/2016/2019 > Control Panel > DPI Settings**.



For an example on how to use the DPI Settings template, see the [Workspace Control Administration Guide](#).

### Launch user installed applications on servers

User installed applications can now be configured on machines running server operating systems. To allow user to install applications on servers, configure the following registry key (string value):

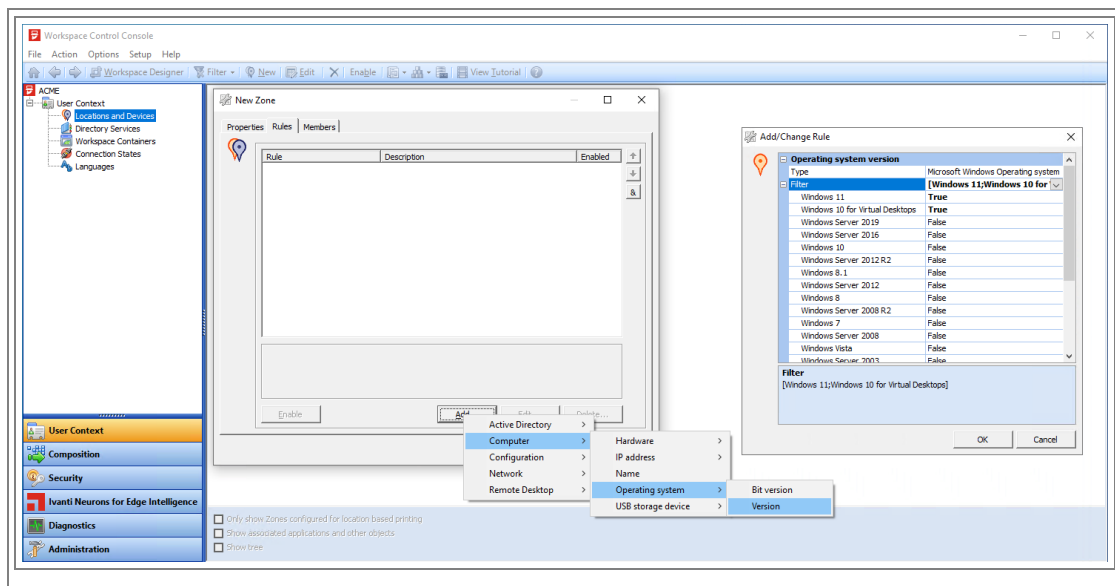
Key	HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\RES\Workspace Manager
Value	AllowUIAonServers
Type	REG_SZ
Data	Yes

## New operating systems options for Zone Rules

When configuring Microsoft operating system Rules for Zones, the following options are now available:

- Windows 11
- Windows 10 for Virtual Desktops

The new options are available under **User Context > Locations and Devices**. Create or edit a Zone and under its **Rules** tab, select **Add > Computer/Configuration > Operating system > Version**.



## RunRES.exe tool no longer supported

Workspace Control no longer supports running the RunRES.exe tool. The tool was mainly used for Workspace Control upgrades within Workspace Control managed sessions. Executing commands through the RunRES.exe tool now results in failure. The following error message is displayed when this occurs: *Running the command '<command to execute>' through the RES Agent service failed with the error code 'RemoteError'.*

To automate Workspace Control upgrades, Ivanti recommends using Ivanti Automation or other deployment methods of your preference.

Additional information is found in this [KB article](#).

## Application process interception for Azure Virtual Desktop application groups

Applications published through Azure Virtual Desktop (AVD) application groups can now be intercepted. To enable application process interception for AVD application groups, configure the following registry key (string value) on the AVD machine that hosts the published applications:

Key	<ul style="list-style-type: none"><li>• HKEY_LOCAL_MACHINE\SOFTWARE\RES\Workspace Manager (32-bit)</li><li>• HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\RES\Workspace Manager (64-bit)</li></ul>
Value	XenDesktop7Intercept
Type	REG_SZ
Data	Yes

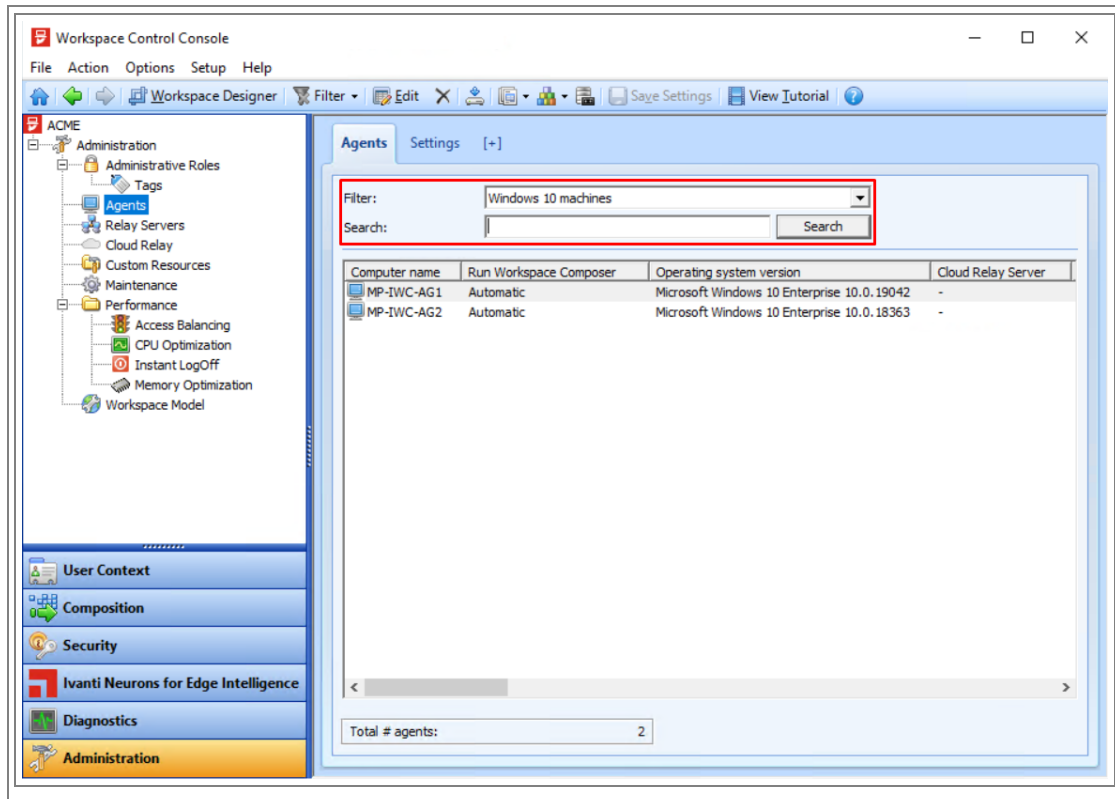
Additional information is found in this [KB article](#).

## Replaced legacy RES URLs

Legacy RES URLs present in the Workspace Control Console are now replaced with the appropriate Ivanti URLs.

## Workspace Control Agent overview

When the overview of Workspace Control Agents is filtered on specific Workspace Containers, it now shows only the Agents to which the filter applies. The overview is available in the Workspace Control Console, under **Administration > Agents > Agents** tab.



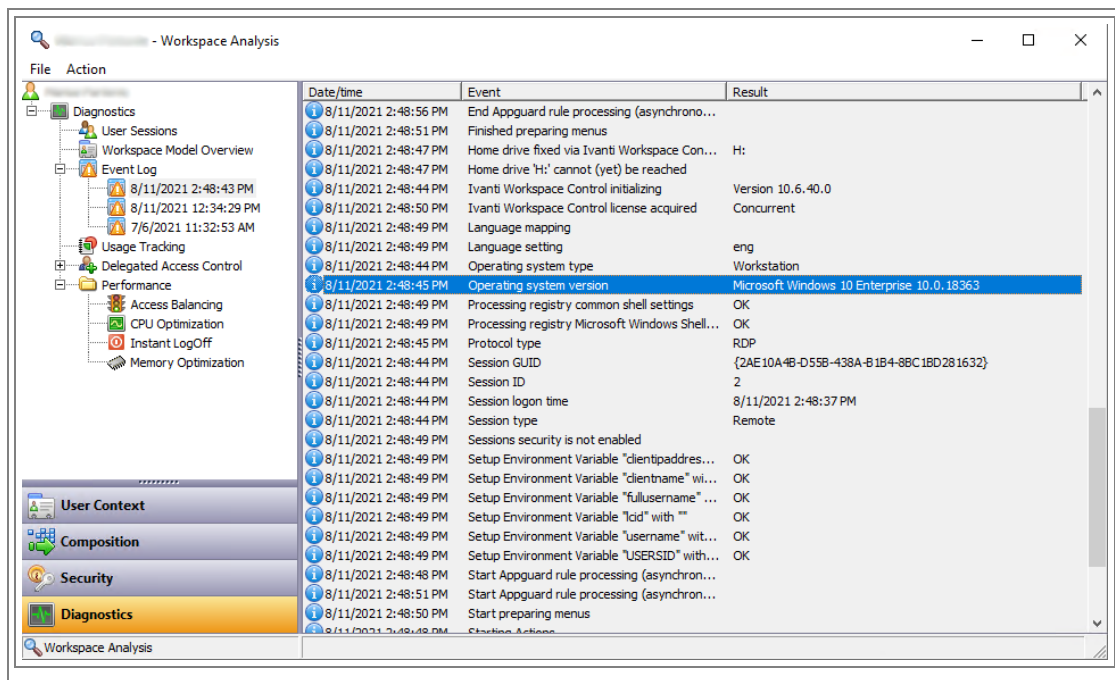
Additional information is found in this [KB article](#).

## Detailed operating system information for user event logs

User event logs include information about the operating system running on the user's machine. Event logs now provide additional operating system information under the **Operating system version** entry:

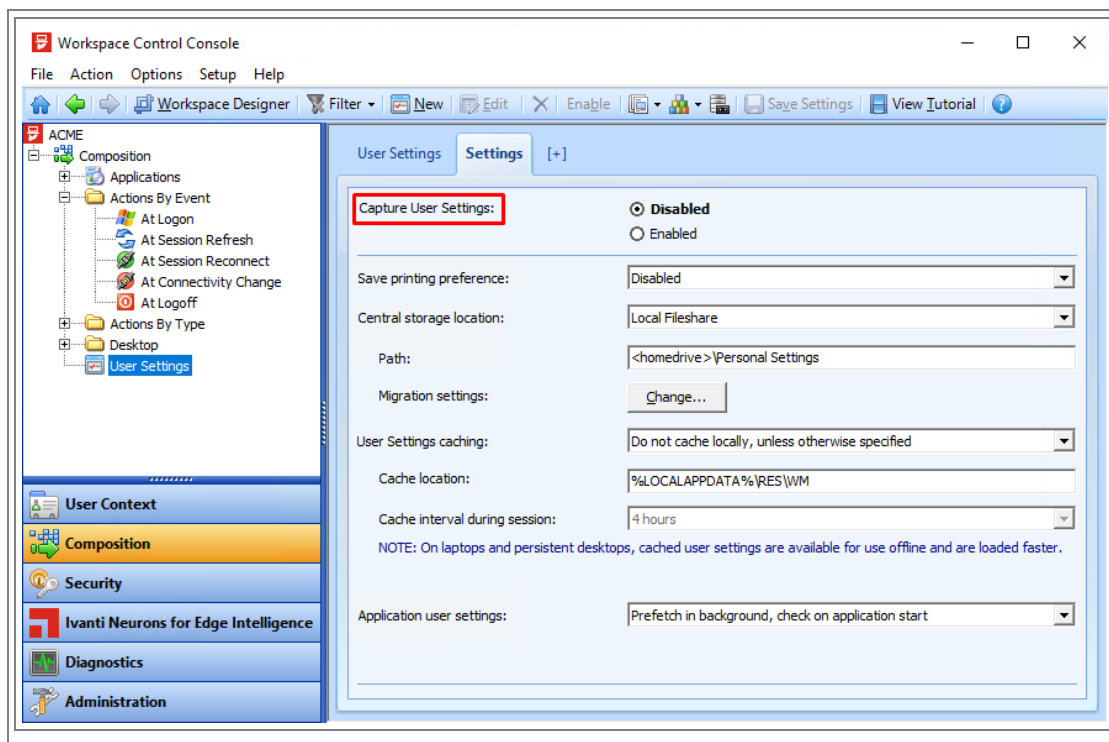
- Operating system name
- Operating system type
- Operating system version

User event logs are available in the Workspace Control Console, under **Diagnostics > User Sessions**. Double-click on a user from the right-side pane to open Workspace Analysis for that user. In the **Workspace Analysis** window, navigate to **Diagnostics > Event log** and select a log from the list.



## Track User Settings renamed to Capture User Settings

In the Workspace Control Console, under **Composition > User Settings > Settings** tab, the **Track User Settings** option was renamed to **Capture User Settings** to better reflect the functionality of the option.





# Workspace Control 2021.1 (10.6.30.0)

This section covers new features, enhancements, improvements or compatibility updates included in Workspace Control 2021.1 version 10.6.30.0.

## User Voice Feature Requests

Thank you for your support and continued submission of Product Enhancement Requests using the [Product Ideas page on the Ivanti Community](#). These requests are reviewed every week and form a valuable input for the Workspace Control product roadmap. Please continue to submit your ideas and vote for your favorites.

The following user requests have been addressed in this version of Workspace Control:

### Reset Workspace Analysis last visited node

By default, when closing the **Workspace Analysis** window for a specific user, Workspace Control remembers the last visited node. When opening **Workspace Analysis** for another user, Workspace Control navigates to the last visited node when the previous **Workspace Analysis** window was closed.

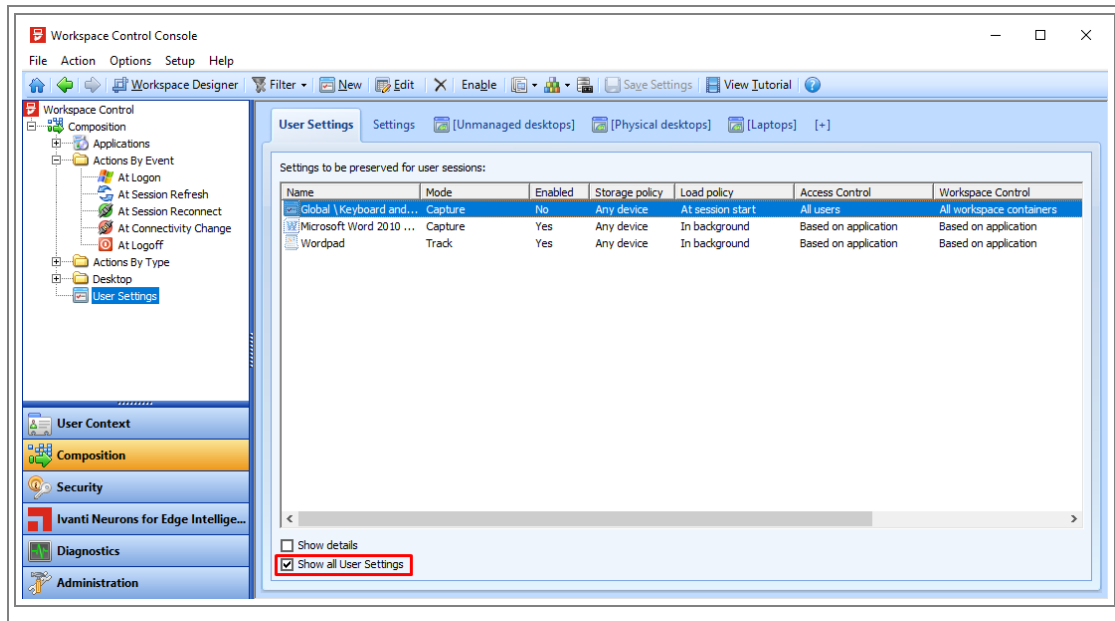
Create the following string value to configure the Workspace Control Console to not remember the last visited node when closing the **Workspace Analysis** window.

Key	HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\RES\Workspace Manager
Value	RememberLastWSANode
Type	REG_SZ
Data	No

More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

## Reset Show all User Settings option when switching tabs

By default, in the Workspace Control Console, under **Composition > User Settings**, only configured global user settings are displayed in the right-side pane, in the **User Settings** tab. To display all available user settings, including application-level settings, select the **Show all User Settings** option from the bottom of the Workspace Control Console window.



Once selected, the option persists only until the Workspace Control Console is closed. When the Console is opened again, the **Show all User Settings** option is unchecked.

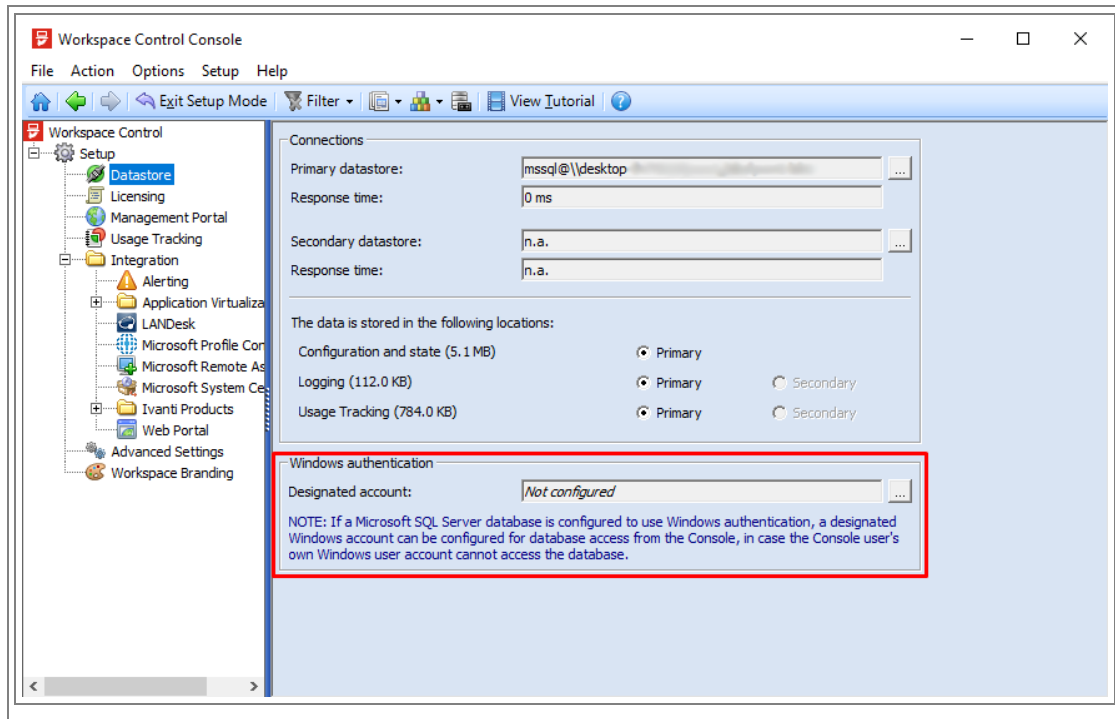
Create the following string value to automatically uncheck the **Show all User Settings** option after it is selected and you switch to a different tab or node in the left-side navigation menu.

Key	HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\RES\Workspace Manager
Value	RememberShowAllUserSettings
Type	REG_SZ
Data	No

More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

## Use the Designated Account when connecting to the Datastore

When the logged on Windows user account has Datastore read permissions, the Workspace Control Console first attempts to connect to the Datastore using the logged on Windows user, even if a designated account is configured under **Setup > Datastore**.

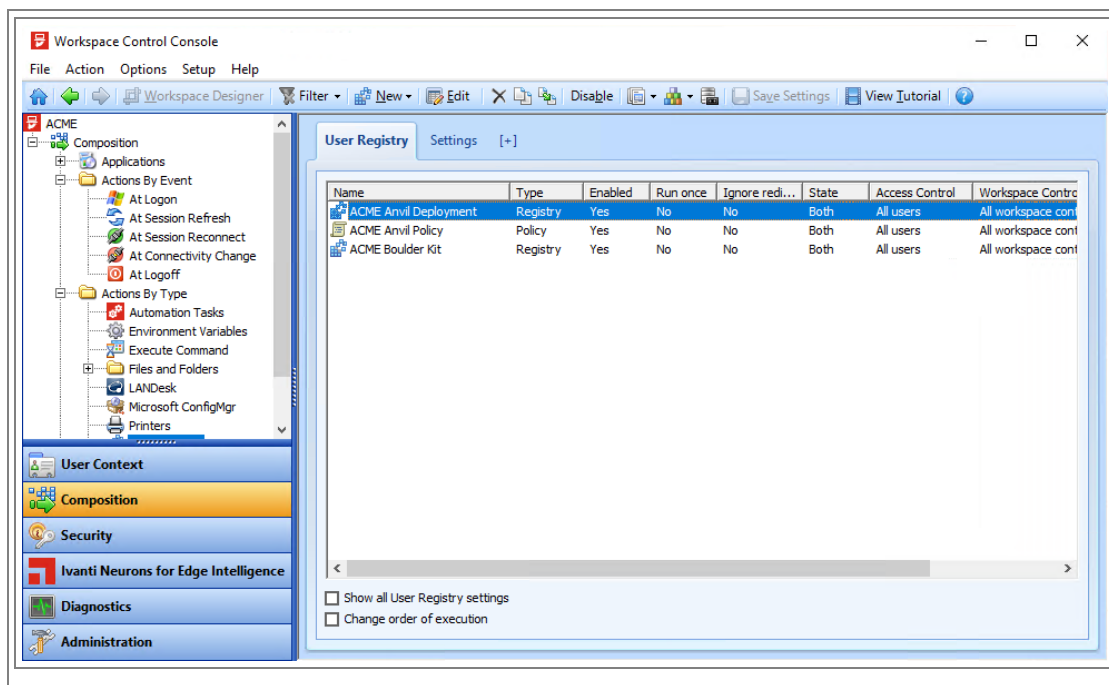


Workspace Control now connects to the Datastore using the Windows User Account, only if the user has both read and update permissions. If the Windows User Account does not have both read and update permissions, then the Designated Account, if configured, is used to connect to the Datastore.

For more details about using a designated account, see [Workspace Control Administration Guide](#). More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

## Registry Settings and Policies Icons

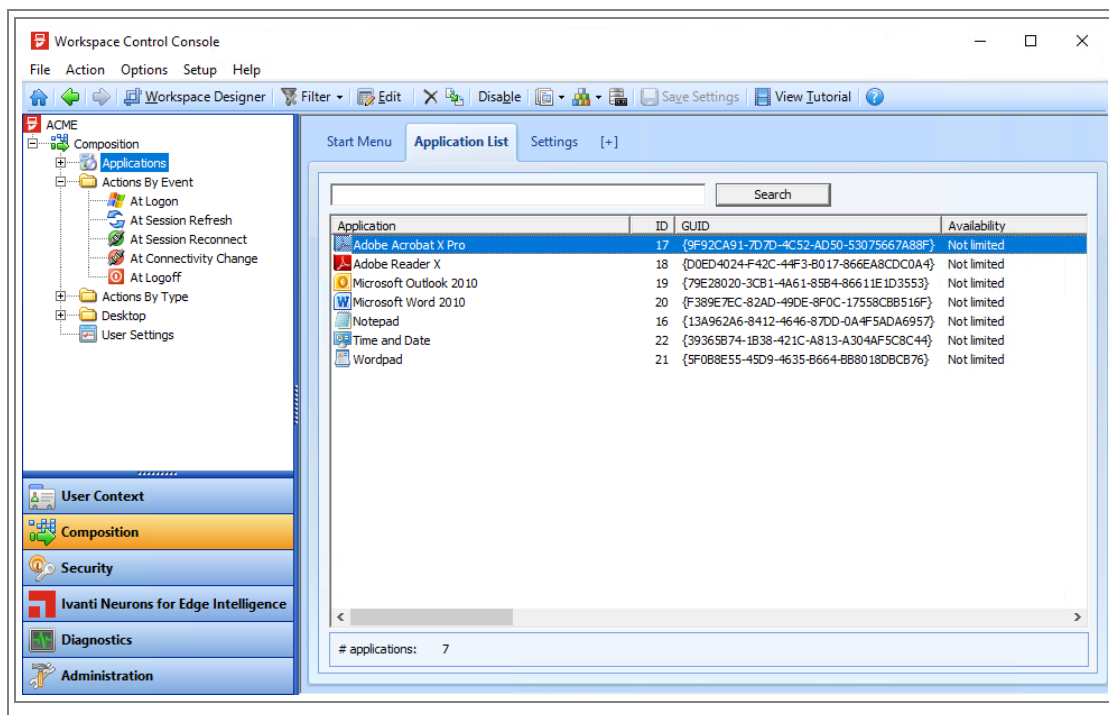
**Registry Settings** and **Policies** now have separate icons in the Workspace Control Console, under **Composition > Actions By Type > User Registry**.



More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

## Managed application GUID displayed in Application List

Managed applications have their Globally Unique Identifier (GUID) shown under the **GUID** column in the Workspace Control Console, under **Composition > Applications > Application List** tab.



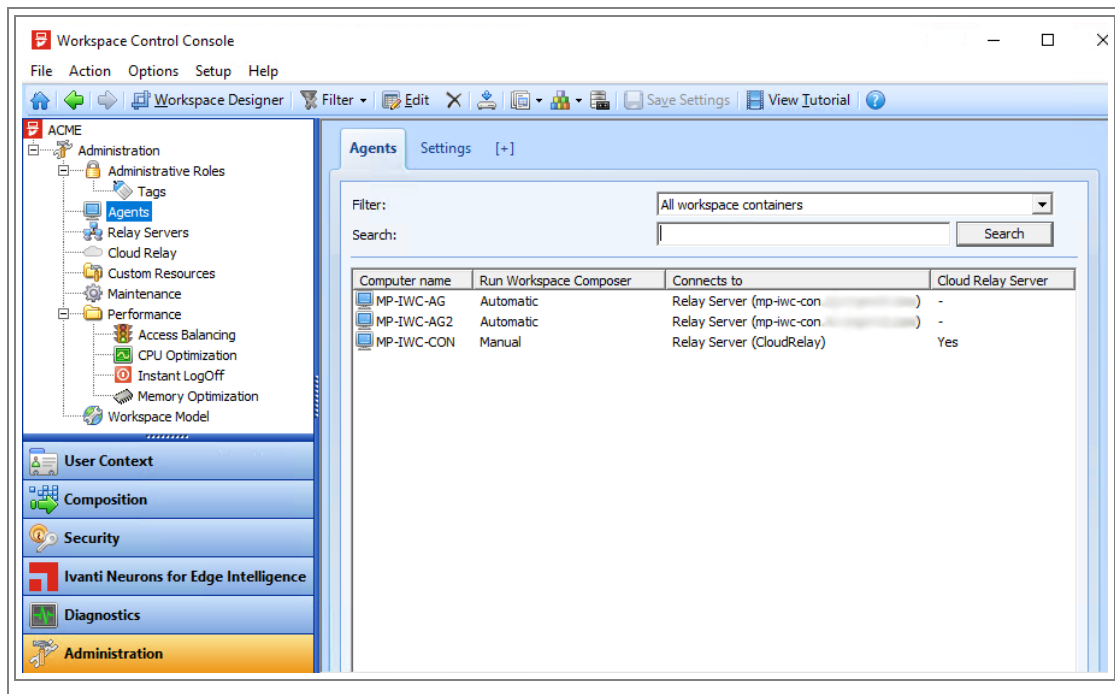
More details about this User Voice Feature Request are found on [Ivanti Ideas](#).

## New Enhancements and Improvements

The following enhancements and/or improvements are part of this version of Workspace Control:

### Workspace Control Agent status displays connected Relay Server

When Workspace Control Agents connect to Relay Servers, this is specified in the Workspace Control Console, under **Administration > Agents**, the **Connects to** column in the **Agents** tab. The information now includes the name of the connected Relay Server.



This requires upgrading the Workspace Control Agents and Workspace Control Console to Workspace Control 2021.2 Service Update 1 (version 10.6.30.0 or later).

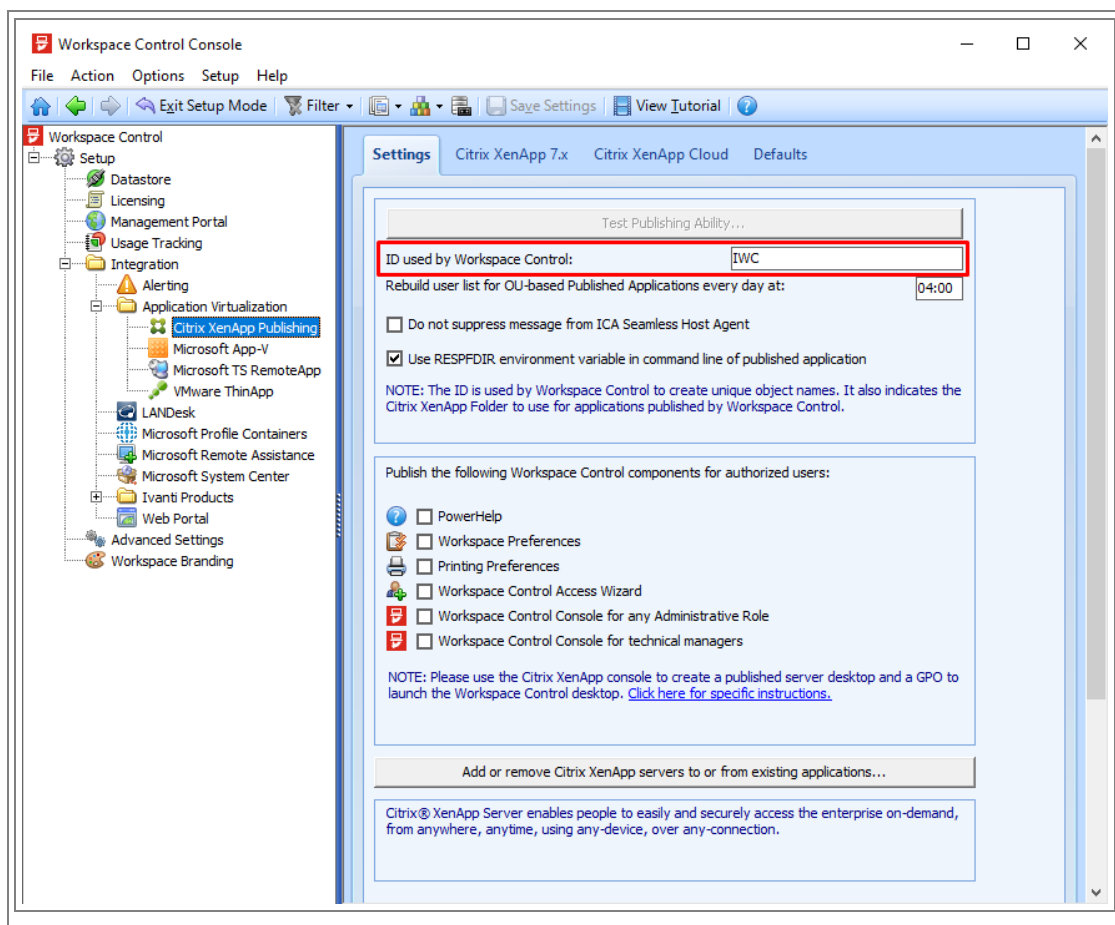
## Compatibility Updates

The following compatibility updates are part of this version of Workspace Control:


### Citrix XenApp application publishing to specific Citrix folder

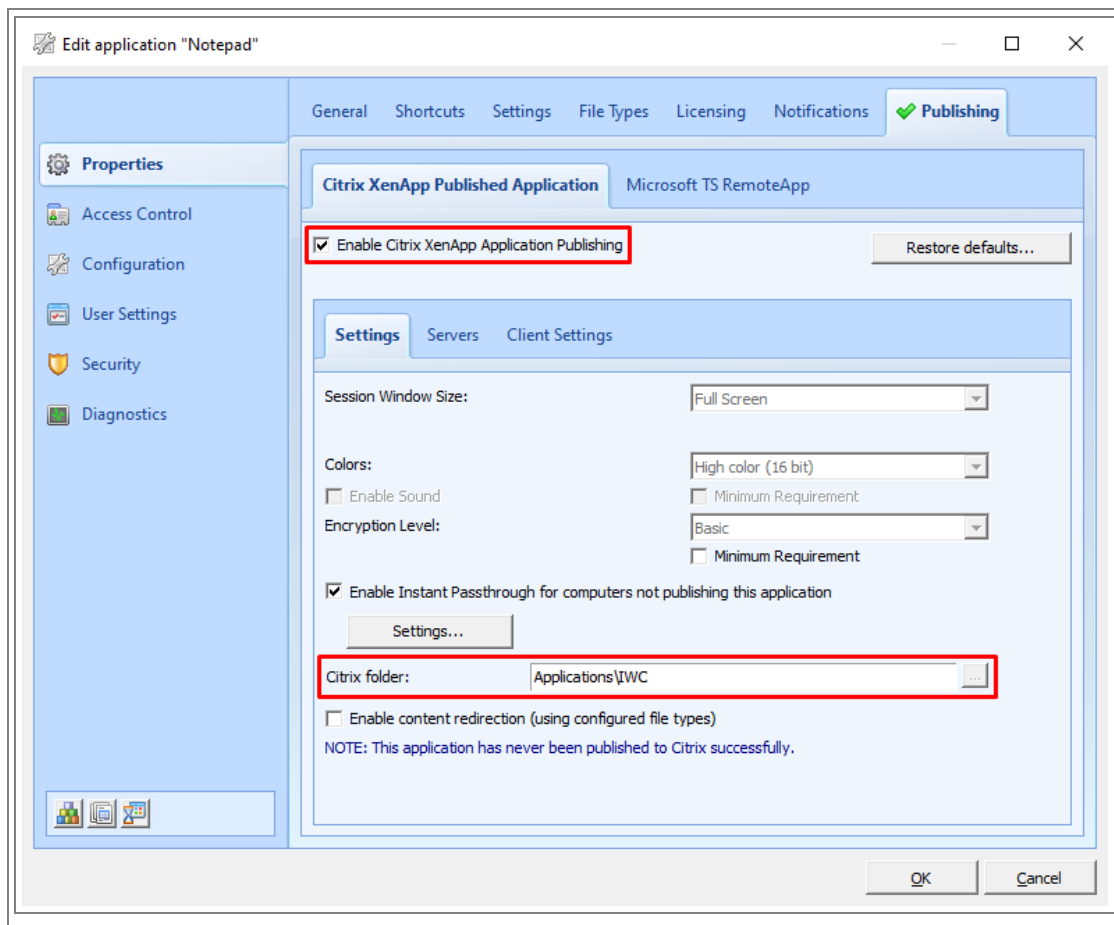
Managed applications can be published to specific Citrix folders when using Citrix XenApp.

To influence the publishing path for all Citrix published applications, open the Workspace Control Console and then navigate to **Setup > Application Virtualization > Citrix XenApp Publishing**. From the **Settings** tab, modify **ID used by Workspace Control**.



To set up the publishing path for individual Citrix published applications, follow these steps:

1. Navigate to **Composition > Applications**. Double-click on an application to edit it.
2. In the **Edit application** window, go to **Properties > Publishing > Citrix XenApp Published Application** tab and select **Enable Citrix XenApp Application Publishing**.
3. Go to the **Settings** sub-tab and select the  button next to the **Citrix folder** option. Select the desired Citrix folder and then select **OK**.
4. Select **OK** to save the changes to the application.



Additional information is found in this [KB article](#).



# Workspace Control 2021.1 (10.6.20.0)

This section covers new features, enhancements, improvements or compatibility updates included in Workspace Control 2021.1 version 10.6.20.0.

## User Voice Feature Requests

Thank you for your support and continued submission of Product Enhancement Requests using the [Product Ideas page on the Ivanti Community](#). These requests are reviewed every week and form a valuable input for the Workspace Control product roadmap. Please continue to submit your ideas and vote for your favorites.

The following user requests have been addressed in this version of Workspace Control:

### Display Scaling (DPI) settings are saved per user

Workspace Control can now save Windows display scaling (DPI) settings on a per user basis and apply them every time the user starts a Workspace Control managed session.

Display scaling settings are saved for either single monitor or multiple monitor setups, regardless of the individual monitor resolution or scaling configuration.

For more details on how to configure Workspace Control to save display scaling settings for individual users, see [Capture display scaling \(DPI\) settings in the Workspace Control Administration Guide](#).

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The following limitations apply:



- Custom display scaling settings are not saved between Workspace Control sessions.
  - Saving display scaling user settings is available only on Microsoft Windows 10 and Windows Server 2019.
-

## New Enhancements and Improvements

The following enhancements and/or improvements are part of this version of Workspace Control:

### Workspace Control Cloud Relay

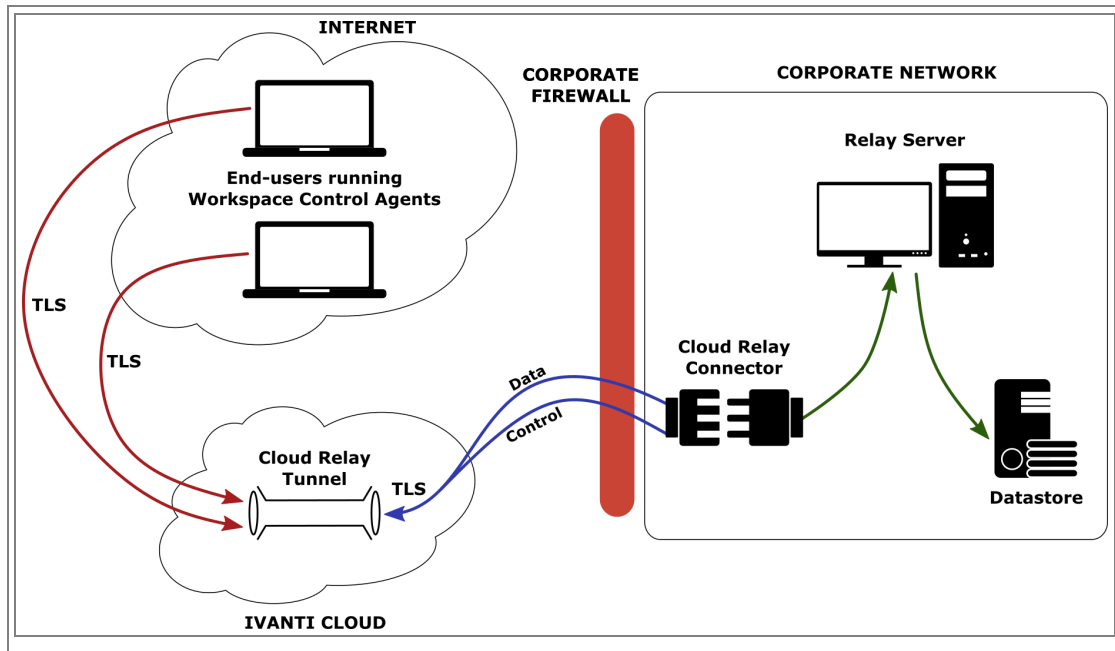
In Workspace Control environments using Relay Servers, Workspace Control Agents residing outside the corporate firewall do not receive configuration updates from the Datastore unless they are connected to the corporate network through VPN. Using Workspace Control Cloud Relay, Agents no longer require a VPN connection to receive the latest Datastore information.

An inbound port is required to be opened in the firewall to let the Workspace Control Agents connect to the Relay Server. Using Workspace Control Cloud Relay, security concerns about inbound ports in the corporate firewall are alleviated. Cloud Relay uses only an outbound connection from within the corporate network to the Internet.

Workspace Control Cloud Relay employs the following components:

- The Cloud Relay Connector
- The Cloud Relay Tunnel

The Cloud Relay Connector resides within the corporate network and connects directly to both the Relay Server and the Cloud Relay Tunnel (using outbound connections). It passes on requests received from Workspace Control Agents through the Cloud Relay Tunnel connection and returns data from the on-premises Relay Server to the requesting Agents.



The Cloud Relay feature is found in the Workspace Control Console under **Administration > Cloud Relay**.

Using Workspace Control Cloud Relay offers the following benefits:

- The Workspace Control Agents connect directly to the Cloud Relay Tunnel and do not require a VPN connection to access the Datastore information.
- No more inbound connection to the corporate firewall.
- Workspace Control Cloud Relay connections are encrypted using Transport Layer Security (TLS).
- The Cloud Relay Tunnel is hosted on the Ivanti Cloud. It does not store any information in the cloud, and thus, there are no associated storage costs or GDPR concerns.



Cloud Relay is not active upon upgrading to Workspace Control 2021.2 version 10.6.20.0 or 10.6.20.1. To activate the feature, contact Ivanti Support through the [Ivanti Community portal](#) and submit a support request. Ivanti Support will provide the 10.6.20.1 installer and offer guidance on how to activate and use Cloud Relay in your Workspace Control environment.

## Workspace Control files are digitally signed

The following files are now digitally signed:

- `IWC.Azure.UserSettings.dll`
- `IWC.Azure.UserSettings.exe`
- `IWC.Azure.UserSettings.Views.dll`

## Enhanced tracing for MultiSubnetFailover SQL connection string

Workspace Control 2020.0 (version 10.5.60.0) introduced the option to connect to the Datastore using the `MultiSubnetFailover = True` connection property in the SQL connection string.

Workspace Control Tracing is now enhanced to include the `MultiSubnetFailover` connection property when it is used.

Additional information is found in this [KB article](#).

## Security improvements

The security of Workspace Control has been improved.

## Reduced size of Workspace Control installation files

Workspace Control installation files are now smaller in size than previous versions.

# Workspace Control 2021.1 (10.6.10.0)

This section covers new features, enhancements, improvements or compatibility updates included in Workspace Control 2021.1 version 10.6.10.0.

## New Enhancements and Improvements

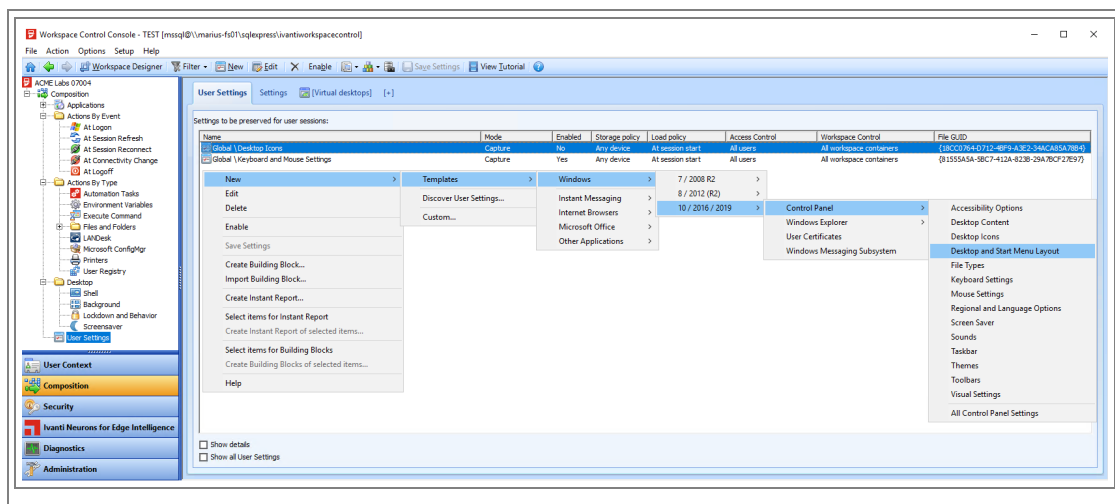
The following enhancements and/or improvements are part of this version of Workspace Control:

### Improved template for capturing Desktop and Start Menu Layout

The layouts of the desktop and the Windows Start Menu that are configured by end-users from within Workspace Control managed sessions can be captured using the **Desktop and Start Menu Layout** template. The template has been improved when capturing icon sizes for the following Microsoft Windows operating systems:

- Windows 10
- Windows Server 2016
- Windows Server 2019

The **Desktop and Start Menu Layout** template is found in the Workspace Control Console under **Composition > User Settings**. In the right-side pane, bring up the context menu by right-clicking and then select **New > Templates > Windows > 10/2016/2019 > Control Panel > Desktop and Start Menu Layout**.



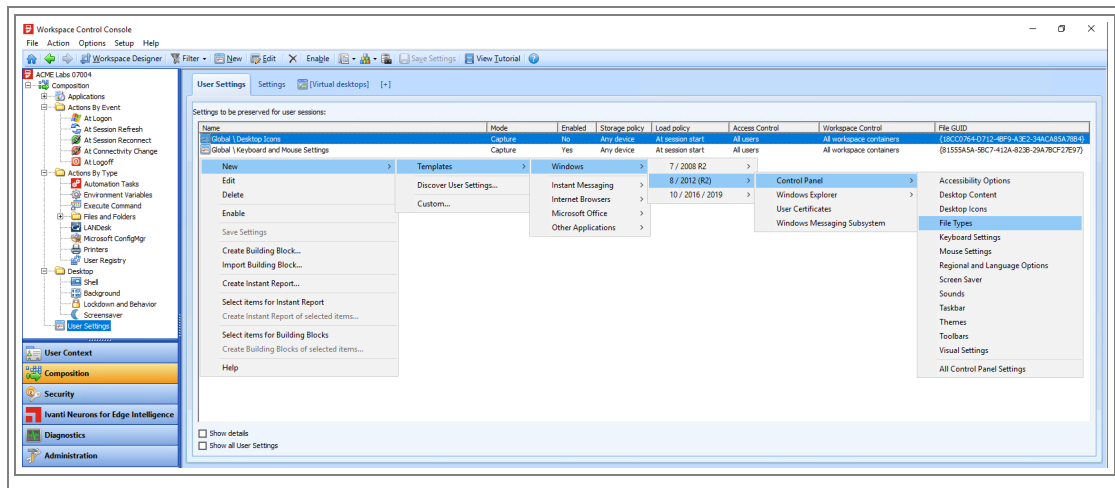
Additional information is found in this [KB article](#).

## Improved template for capturing File Type associations

File types associations configured by end-users from within Workspace Control managed sessions can be captured using the **File Types** template. The template has been improved for the following Microsoft Windows operating systems:

- Windows 8
- Windows 10
- Windows Server 2012 R2
- Windows Server 2016
- Windows Server 2019

The **File Types** template is found in the Workspace Control Console under **Composition > User Settings**. In the right-side pane, bring up the context menu by right-clicking and then select **New > Templates > Windows > 8/2012 (R2) or 10/2016/2019 > Control Panel > File Types**.

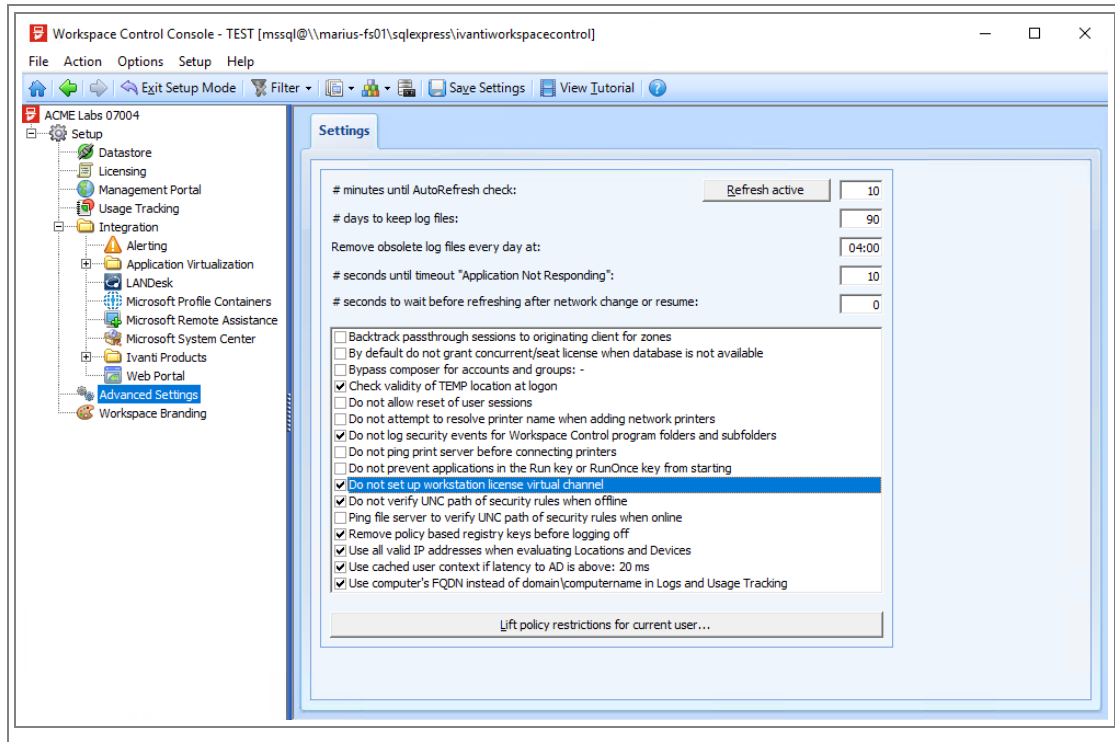


Additional information is found in this [KB article](#).

## Changed default setting for workstation license virtual channel

When starting a terminal session from a desktop, Workspace Control can establish a virtual channel (either Citrix ICA or Microsoft RDP) to communicate with the terminal session. Workspace Control uses the virtual channel to acquire licenses from the Workspace Composer.

The **Do not set up workstation license virtual channel** option is configured from the Workspace Control Console under **Setup > Advanced Settings**.



By default, when configuring a new Datastore, this option is now enabled and Workspace Control does not set up a virtual channel to communicate with the terminal session.

For more information, see the [Workspace Control Administration Guide](#).

## Compatibility Updates

The following compatibility updates are part of this version of Workspace Control:

### Microsoft Edge Chromium shortcut in Windows 10 20H2

Workspace Control now correctly handles the shortcut for Edge Chromium on Microsoft Windows 10 20H2 machines. This issue occurred when option **Windows Shell shortcut creation** is set to **Replace all unmanaged shortcuts** in the Workspace Control Console under **Composition > Applications > Settings**.

Additional information is found in this [KB article](#).



# Bug Fixes

The following customer support issues have been resolved in this version of Workspace Control:

Problem ID	Title
74895	<p>The Workspace Control splash screen becomes unresponsive for up to 10 seconds while loading license information. This occurs when a user logs both onto a session running Windows Desktop OS and a Microsoft RDS-based session. Both sessions need to be managed by Workspace Control and the machines on which the user logs on must be both connected to the same Datastore.</p> <p><a href="#">Link to KB article</a></p>
76686	<p>Logging into a Workspace Control managed RDP session or Citrix XenApp or XenDesktop session on Microsoft Windows Server machines results in a black screen during the login process.</p> <p><a href="#">Link to KB article</a></p>
76917	<p>Microsoft TS RemoteApp Server Groups are not correctly updated in the Workspace Control Console. They are visible under <b>Setup &gt; Integration &gt; Application Virtualization &gt; Microsoft TS RemoteApp</b>, in the right-side pane, under the <b>Server Groups</b> tab. This occurs in the following conditions:</p> <ul style="list-style-type: none"><li>• The Microsoft TS RemoteApp Integration is enabled in the Workspace Control Console.</li><li>• Multiple Microsoft Remote Desktop Session Host Servers are simultaneously added to a Remote Desktop Service Collection group using the <b>Add RD Session Host Servers</b> task under <b>Server Manager &gt; Remote Desktop Services &gt; Collections</b> in Microsoft Windows Server operating systems.</li></ul> <p><a href="#">Link to KB article</a></p>
76927	<p>Remote Procedure Calls (RPCs) to machines that have an active Workspace Control managed session result in failure.</p> <p><a href="#">Link to KB article</a></p>

Problem ID	Title
77668	<p>After configuring <b>Date and Time Access Control</b> restrictions to allow access to websites only during specific time intervals using the <b>Only allow access on</b> option, websites are still accessible outside the defined restrictions until a Workspace Refresh is performed.</p> <p><a href="#">Link to KB article</a></p>
87057	<p>After upgrading to Workspace Control 10.5.10.1, configuring Workspace Control to use Microsoft Active Directory (in the Workspace Control Console, under <b>User Context &gt; Directory Services</b>), can result in session login times to increase. This occurs when configuration items (such as zones, applications, drive and port mappings, and more) are based on Active Directory groups.</p> <p><a href="#">Link to KB article</a></p>

## Previous versions

The following section covers the customer support items resolved in previous versions of Workspace Control 2021.

- ["Workspace Control 2021.2 \(10.7.0.0\)" on the next page](#)
- ["Workspace Control 2021.1 \(10.6.50.0\)" on page 53](#)
- ["Workspace Control 2021.1 \(10.6.40.0\)" on page 54](#)
- ["Workspace Control 2021.1 \(10.6.30.0\)" on page 55](#)
- ["Workspace Control 2021.1 \(10.6.20.0\)" on page 58](#)
- ["Workspace Control 2021.1 \(10.6.10.0\)" on page 60](#)

# Workspace Control 2021.2 (10.7.0.0)

The following customer support issues have been resolved in this version of Workspace Control:

Problem ID	Title
87114	<p>After upgrading to Workspace Control 10.6.40.0, under <b>Composition &gt; Applications</b>, creating a new application using <b>New Application (using wizard)</b> results in an empty application after completing the wizard. The <b>Edit application</b> window appears, but all fields are empty and the new application cannot be saved without filling in the required fields.</p> <p><a href="#">Link to KB article</a></p>
87129	<p>After upgrading Workspace Control Agents to version 10.6.30.2, Workspace Control Composer CPU usage is increased. This occurs when Workspace Control is used to manage Citrix published applications. The CPU usage increases with each Composer process (<code>pfwsmgr.exe</code>) running on the host of the published application.</p> <p><a href="#">Link to KB article</a></p>
87243	<p>After upgrading to Workspace Control version 10.6.50.0, duplicating an application results in the creation of a copy without appending <i>Copy of</i> before the original application title. This occurs in the Workspace Control Console, under <b>Composition &gt; Applications &gt; Start Menu</b> tab. Right-click on an application and then select <b>Duplicate</b> from the context-menu.</p> <p><a href="#">Link to KB article</a></p>

# Workspace Control 2021.1 (10.6.50.0)

The following customer support issues have been resolved in this version of Workspace Control:

Problem ID	Title
75777	New Workspace Control managed applications disappear from the Workspace Control Console, under <b>Composition &gt; Applications</b> , if their title contains Unicode characters. <a href="#">Link to KB article</a>
76696	When FSLogix is configured to run, it creates a new path: <code>\Users\local_%username%</code> . Writing data to this directory is blocked when <b>Read-Only Blanketing</b> is enabled in Workspace Control managed sessions on Windows Server 2019 machines. This is enabled in Workspace Control Console, under <b>Security &gt; Data &gt; Read-Only Blanketing &gt; Settings</b> tab. <a href="#">Link to KB article</a>
86705	In a specific scenario where multiple Microsoft Windows Active Directory domains are configured in the Workspace Control Console, a delay occurs during the start of the Workspace Control managed session. The delay happens during <i>Preparing Applications</i> when users log on from an external domain. <b>Note:</b> Refer to the KB article for the specific details of this scenario. <a href="#">Link to KB article</a>
86713	After renaming the folder where a UWP package resides, the list of UWP applications is not properly populated when creating a new Workspace Control managed UWP application. This is done from the Workspace Control Console, under <b>Composition &gt; Applications &gt; Start Menu</b> tab. <a href="#">Link to KB article</a>
86834	In the Workspace Control Console, under <b>Administration &gt; Agents &gt; Agents</b> tab, if the <b>Filter</b> is set to another option than the default ( <b>All Workspace Containers</b> ), it remains active even after switching to other node. This can cause Workspace Control Agents to not be visible under <b>User Context &gt; Workspace Containers</b> . <a href="#">Link to KB article</a>
	When using the Ivanti Neurons for Edge Intelligence integration for Workspace Control, the <b>Export to CSV</b> option did not save the files to the <i>Downloads</i> folder on Windows machines. The CSV files were instead saved to the Windows <i>temp</i> directory.

# Workspace Control 2021.1 (10.6.40.0)

The following customer support issues have been resolved in this version of Workspace Control:

Problem ID	Title
77276	In the Workspace Control Console, under <b>Composition &gt; Actions By Event &gt; At Logon</b> , managed applications launched through execute commands using <code>%respfdir%\pwrgate.exe %application ID%</code> as the command line can result in the application intermittently not starting. <a href="#">Link to KB article</a>
77280	Workspace Control does not correctly restore user settings with <code>Value=</code> (Default) if their <code>Data</code> field is empty. <a href="#">Link to KB article</a>
77533	When using the Workspace Control Shell, the taskbar is not visible when Windows exits the screensaver. <a href="#">Link to KB article</a>
85812	Workspace Control Agent cache do not update successfully when the Microsoft TS RemoteApp integration is enabled. <a href="#">Link to KB article</a>
86358	The <code>TCPIP.sys</code> driver causes BSOD during Workspace Control managed sessions. The following error message is displayed: <i>DRIVER_IRQL_NOT_LESS_OR_EQUAL failed tcpip.sys</i> . <a href="#">Link to KB article</a>
86588	When <b>File Certificate Security</b> is enabled, the Workspace Control splash screen does not load past 90% (Composing Data Sources) during session logon. This prevents the session logon to complete and prevents other users from logging into the same server. <a href="#">Link to KB article</a>
	When setting up Ivanti Cloud Relay in new Workspace Control environments, the <code>ConnectorId</code> and <code>ConnectorKey</code> registry keys are not updated. <a href="#">Link to KB article</a>

# Workspace Control 2021.1 (10.6.30.0)

The following customer support issues have been resolved in this version of Workspace Control:

Problem ID	Title
76175	When the Workspace Control Shell is used, Microsoft Teams cannot be closed during log off. <a href="#">Link to KB article</a>
76839	Citrix Private VM hosted applications are not intercepted by Workspace Control. <a href="#">Link to KB article</a>
77769	Executing <code>res.exe /config</code> commands with additional parameters from Ivanti Automation or the Windows Task Scheduler, results in failure. <a href="#">Link to KB article</a>
77993	When Citrix XenApp Publishing is used, the Remote Access Connection Manager service cannot start if the Secure Socket Tunneling Protocol Service is disabled on the Citrix server. <a href="#">Link to KB article</a>
78162	Importing a connection file in the Workspace Control Agent using the command line, results in message: <i>Ivanti Workspace Control Agent - Configure connection. Please enter a Cloud Relay Server Account Id.</i> <a href="#">Link to KB article</a>
78173	<code>pwrccache.exe</code> generates error: <i>ProfileContainerConfigurationFactory.CreateConfiguration - Input String was not in a correct format.</i> This occurs when configuration changes are made to <b>Location and Devices</b> or <b>Workspace Containers</b> in Workspace Control environments where the Microsoft Profile Container Integration was never enabled. <a href="#">Link to KB article</a>
78255	Registry setting <code>MonitorEndProgram</code> does not work when Workspace Control is configured to use French or Norwegian languages. <a href="#">Link to KB article</a>
78287	When a Workspace Control managed session is started, duplicate entries are created for <b>User Registry</b> settings of type string with <code>Name={Default}</code> . <a href="#">Link to KB article</a>

Problem ID	Title
78327	After upgrading from Workspace Control 10.0.400.0 to version 10.1.100.0, User Installed Applications are not visible in the Start Menu. <a href="#">Link to KB article</a>
85813	Windows 10 template for capturing taskbar settings causes Workspace Control to become unresponsive while loading. <a href="#">Link to KB article</a>
86056	In the same Workspace Control managed session, starting second instances of Citrix published applications takes a minute before the instance starts. <a href="#">Link to KB article</a>
86077	Opening PDF files from Workspace Control managed App-V applications takes over a minute before the file opens. <a href="#">Link to KB article</a>
86311	After upgrading to Workspace Control 10.6.30.0, App-V applications configured as Workspace Control managed applications do not start. <a href="#">Link to KB article</a>
86316	After upgrading to Workspace Control 10.6.30.0, managed applications configured with dynamic privileges do not start. <a href="#">Link to KB article</a>
86338	After upgrading to Workspace Control 10.6.30.0, <b>Folder Synchronization</b> does not work on Windows Server operating systems. This option is found in the Workspace Control Console under <b>Composition &gt; Actions By Type &gt; Files and Folders &gt; Folder Synchronization</b> . <a href="#">Link to KB article</a>
86354	After upgrading to Workspace Control 10.6.30.0, user settings with Value= (Default) are restored with empty Data fields. <a href="#">Link to KB article</a>
	When using Ivanti Cloud Relay, Workspace Control Agents sometimes create duplicate copies of the Agent. <a href="#">Link to KB article</a>



Problem ID	Title
	<p>When users log into Workspace Control managed sessions configured to use the Workspace Control Shell as the default desktop shell, three instances of Microsoft Edge can be opened in the taskbar and cannot be closed. This behavior prevents users from logging off.</p> <p><a href="#">Link to KB article</a></p>
	<p>In the Workspace Control Console, under <b>Administration &gt; Agents</b>, configuring <b>Run Workspace Composer</b> to either <b>Automatic</b> or <b>Manual</b> does not work correctly for Workspace ControlAgents that are configured to connect to the Cloud Relay.</p> <p><a href="#">Link to KB article</a></p>
	<p>A locally authenticated user with low privileges can leverage an unspecified attack vector to bypass Files and Folders Security. This makes it possible to start unapproved applications with elevated privileges.</p> <p><a href="#">Link to KB article</a></p>

## Removed Fixes

The following fix was removed from this version of Workspace Control:

Problem ID	Title
77280	<p>Workspace Control does not correctly restore user settings with <code>Value= (Default)</code> if their <code>Data</code> field is empty.</p> <p><a href="#">Link to KB article</a></p>
77385	<p>The execution order is incorrect when using <code>pwrgate %ID%</code> in execute commands under <b>Actions by Event &gt; At Logon</b>.</p> <p><a href="#">Link to KB article</a></p>

# Workspace Control 2021.1 (10.6.20.0)

The following customer support issues have been resolved in this version of Workspace Control:

Problem ID	Title
76526	Pixelated icons are displayed for Citrix XenApp published application on the Citrix StoreFront website. <a href="#">Link to KB article</a>
76781	Triggering a Relay Server force cache update from the Workspace Control Console results in error: <i>Windows can not access the specified device, path, or file. You may not have the appropriate permissions to access the item.</i> <a href="#">Link to KB article</a>
76832	User settings are not synchronized if a Workspace refresh is performed when users log into Workspace Control managed sessions and then establish a VPN connection. <a href="#">Link to KB article</a>
76916	The Windows desktop background is not always set in Workspace Control managed sessions. <a href="#">Link to KB article</a>
77183	Checking the <b>Do not show this message again</b> option does not prevent further <b>Network Security</b> notifications from displaying. <a href="#">Link to KB article</a>
77250	After installing Workspace Control, an incomplete Workspace Control Agent cache causes user sessions to contain unmanaged shortcuts and generate multiple errors of type <i>out-of-memory</i> . <a href="#">Link to KB article</a>
77350	Creating Building Blocks using the following command does not generate the corresponding XBB files: <code>pwrtech.exe /export path\&lt;file path&gt; /guid={&lt;GUID&gt;}</code> <a href="#">Link to KB article</a>
77385	The execution order is incorrect when using <code>pwrgate %ID%</code> in execute commands under <b>Actions by Event &gt; At Logon</b> . <a href="#">Link to KB article</a>

Problem ID	Title
77387	When <b>ImgGuard filter-driver</b> is active, <i>Surpass Viewer</i> application is not displayed after being started. This occurs on Workspace Control version 10.4.50.0 or higher. <a href="#">Link to KB article</a>
77492	Under <b>Administration &gt; Agents &gt; Agents</b> tab, no Workspace Control Agents are displayed upon request using the <b>Search</b> button. This occurs on Workspace Control 2021.2 (version 10.6.0.0 or 10.6.10.0) with MySQL as the database type. <a href="#">Link to KB article</a>
77494	Differences between Building Blocks created from the Workspace Control Console and Building Blocks created using the <code>pwrtech.exe</code> command-line tool. <a href="#">Link to KB article</a>
77511	Microsoft FSLogix configuration made in the Workspace Control Console is not applied correctly to VMware Horizon environments when Access Control is based on Active Directory membership. <a href="#">Link to KB article</a>
77513	Microsoft Edge Chromium managed shortcut is removed from the taskbar upon starting a new Workspace Control session. This occurs on Workspace Control 2021.2 (version 10.6.10.0) running on Windows 10 build 20H2. <a href="#">Link to KB article</a>
77514	When the <code>UseStoreBrowse</code> registry setting is configured to <code>Yes</code> , the <b>Instant Passthrough</b> zone membership configuration is not applied to published applications. <a href="#">Link to KB article</a>
77830	Workspace Control Console 10.6.0.0 MSI file can trigger a virus alert. <a href="#">Link to KB article</a>
77833	Workspace Control Management Portal 10.6.10.0 MSI file can trigger a malware alert from Symantec Endpoint Protection. <a href="#">Link to KB article</a>
	The text of the drop-down menu options for <b>Setup &gt; Integration &gt; Ivanti Products &gt; Ivanti Neurons for Edge Intelligence &gt; Settings</b> tab is editable.

# Workspace Control 2021.1 (10.6.10.0)

The following customer support issues have been resolved in this version of Workspace Control:

Problem ID	Title
74104	Ivanti Automation tasks are not executed after configuring them to run as Notification type from the Workspace Control Console. <a href="#">Link to KB article</a>
74777	Microsoft Windows Firewall service becomes unresponsive and results in a black screen when logging into Workspace Control sessions. <a href="#">Link to KB article</a>
74781	During logon, if the printer creation process takes too long to complete, it prevents Workspace Control from establishing a connection between the VDX Plugin and the VDX Engine. <a href="#">Link to KB article</a>
74887	After new Workspace Control Agent installations, Agent cache synchronization takes an unexpectedly long time to complete. <a href="#">Link to KB article</a>
75496	When attempting to delete zones configured for global authorized files under their <b>Access Control</b> tab > <b>Locations and Devices</b> , it results in error message: <i>The selected Locations and Devices cannot be removed because it is still referenced by the following objects.</i> <a href="#">Link to KB article</a>
75991	Workspace Control configures the screensaver timeout interval even when the screensaver is disabled from the Workspace Control Console under <b>Composition</b> > <b>Desktop</b> > <b>Screensaver</b> . <a href="#">Link to KB article</a>
76174	Microsoft Exchange Online (Office 365) e-mail template no longer works. <a href="#">Link to KB article</a>
76310	Execute Commands that use PowerShell scripts are carried out, but result in error message: (2) - <i>The system cannot find the file specified.</i> <a href="#">Link to KB article</a>

Problem ID	Title
76317	Long Desktop Background file names are truncated in the Workspace Preferences menu, under <b>Background &gt; Select</b> . <a href="#">Link to KB article</a>
76783	Under specific conditions, the results of Maintenance Actions are not reported correctly. These actions are configured in the Workspace Control Console under <b>Administration &gt; Maintenance</b> . <a href="#">Link to KB article</a>
76875	White lines at the end of digitally signed PowerShell scripts are removed, resulting in invalid digital signatures and the scripts failing to execute. <a href="#">Link to KB article</a>
76945	In the Workspace Control Console, under <b>Security &gt; Applications &gt; User Installed Applications</b> or <b>Administration &gt; Performance &gt; CPU Optimization</b> , entries in the <b>Log</b> tab can be displayed in incorrect order under the <b>Time</b> column. <a href="#">Link to KB article</a>
77130	In the Workspace Control Console, under <b>Composition &gt; User Settings</b> , if the <b>Show all User Settings</b> option is checked, the <b>Load Policy</b> column displays incorrect default settings. <a href="#">Link to KB article</a>
77141	After configuring <b>User Settings Capturing</b> for a managed application, starting another managed application occurs only after the capture is complete. <a href="#">Link to KB article</a>
77161	Profile Containers status not updating in local cache after disabling the Microsoft Profile Containers Integration. <a href="#">Link to KB article</a>
77208	Disabling the Microsoft Profile Containers Integration triggers dialog box: <i>Not all required parameters are filled in. Would you like to continue?</i> <a href="#">Link to KB article</a>
77276	In the Workspace Control Console, under <b>Composition &gt; Actions By Event &gt; At Logon</b> , managed applications launched through execute commands using <code>%respfdir%\pwrgate.exe %application ID%</code> as the command line can result in the application intermittently not starting. <a href="#">Link to KB article</a>

# Additional information

## Workspace Control Product Area

Product downloads and documentation, or useful configuration and troubleshooting guides are found at the following link:

<https://forums.ivanti.com/s/workspace-control-powered-by-res>

## Previous Versions of Ivanti Workspace Control

Downloads links to previous versions of Ivanti Workspace Control and their corresponding release notes are available on the Ivanti Community:

<https://forums.ivanti.com/s/article/Ivanti-Workspace-Control-revision-download-links>

## Supported Operating Systems and Technologies

Supported Operating Systems, Database Systems, Directory Services, and third-party software are detailed in the Compatibility Matrix:

[https://help.ivanti.com/res/help/en\\_US/IWC/2021/Help/Content/49657.htm](https://help.ivanti.com/res/help/en_US/IWC/2021/Help/Content/49657.htm)

## Workspace Control Upgrade Guide

Information about the upgrade path of Workspace Control is found at the following link:

<https://forums.ivanti.com/s/article/Ivanti-Workspace-Control-Upgrade-Guide-10-2-x-10-3-x>

## Workspace Control Antivirus Best Practices

Antivirus exclusions required for Workspace Control are found at the following link:

<https://forums.ivanti.com/s/article/Ivanti-Workspace-Control-Antivirus-Best-Practices>

## Workspace Control Ideas

Vote for new ideas or submit your own ideas for Workspace Control:

<https://ivanti.uservoice.com/forums/928756-workspace-control>

## Further Help and Information

Information about installing, configuring, and using Ivanti Workspace Control is available in the Administration Guide:

[https://help.ivanti.com/res/help/en\\_US/IWC/2021/Help/default.htm](https://help.ivanti.com/res/help/en_US/IWC/2021/Help/default.htm)