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Workspace Control

Release Notes

Version 10.2.0.1

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1. What's new in Workspace Control version 10.2

1.1 About this Release

New installation

Before performing a new installation of Workspace Control 10.2, please read the following release note carefully:

Installation: Updated ActiveReports components

As of RES ONE Workspace version 10, the third-party components for ActiveReports have been updated to address a security vulnerability (CVSS v2 Base Score: 8.8).

The ActiveReports components (libraries and object code) included in this release, is proprietary to Data Dynamics, Ltd. (acquired by: GrapeCity, Inc.). End-User by downloading and installing this release assumes and accepts sole responsibility of the use of the ActiveReports component and will not act contrary to license terms applicable and available via

http://arhelp.grapacity.com/webhelp/Legacy/AR2std/HX_License_Agreement_and_Limited_Warranty_M.html.

Datastore

This table shows which Datastore revision level applies to Workspace Control 10.2 and in which version it was introduced:

Datastore revision level:	Introduced in:
13	RES Workspace Manager 2014 SR3

When installing this version, if the Datastore is of a lower revision level, it will automatically be updated.

Drivers

This table shows a list of drivers and when they were last updated.

Driver:	Last updated in:
FileGuard	Workspace Control version 10.2.0.0
ImgGuard	Workspace Control version 10.2.0.0
NetGuard	Workspace Control version 10.2.0.0
RegGuard	Workspace Control version 10.2.0.0
RESNFLT	Workspace Control version 10.2.0.0
AppGuard	<i>Obsolete as of RES ONE Workspace version 10.1.0.0</i>

If you are upgrading from a version that is older than the highest version in this overview, a reboot is required to activate the updated drivers.

Example:

Currently installed version: 10.1.0.0

Highest version in the list: 10.1.200.0 (*for example*)

Version 10.1.200.0 is newer than 10.1.0.0, therefore a reboot is required.

1.2 Highlighted Features

Application Security: New feature to allow or block applications based on file certificates

It is now possible to configure **Application Security** to use *file certificates* in Workspace Control. Checking file certificates gives the system administrator control over the user workspaces by only allowing executable files from trusted publishers, while only requiring a small amount of administrative overhead.

Publishers (for example Microsoft) sign executables with a certificate to authenticate their origin. Only allowing executables that have been signed with certificates from trusted publishers, will lead to enhanced IT Security by reducing the risk of network damages caused by harmful applications.

To set up the use of file certificates for **Application Security**, the setting **File Certificates security** must be enabled on the **Security > Applications > File Certificates** page of the Workspace Control Management Portal, on the **Settings** tab. When enabling this setting, each executable file's certificate is checked against the list of authorized certificates before it is allowed to be executed.

File certificates can be added manually, or discovered and imported using the **Workspace Control Application Whitelist Monitor**.

It is also possible to import an XML file containing a list of certificates manually, by using the command-line option `Pwrtech.exe /importfilesecurity=<filepath>`.

For more information about **File Certificates security**, please refer to the Workspace Control Management Portal Help.

Citrix XenApp / XenDesktop 7.15 compatibility

Workspace Control is now compatible with Citrix XenApp / XenDesktop 7.15.

1.3 Important Changes

Security enhancements

Several compatibility and reliability enhancements have been made to improve security.

Additionally, several settings have been changed to a more secure option by default. For example, when creating a new Datastore, **Force protocol encryption** is now set to **Enabled, with certificate validation**.

Please note, that while this is a secure setting, it does mean that the **Database server** must be specified by its hostname, which must match the Common name (CN) or Subject alternative name (SAN) in the database server certificate. Using an IP address is not possible with this setting.

1.4 Workspace Control version 10.2 (10.2.0.1)

Enhancements and Improvements

Documentation: Complete Release Notes and Help

Workspace Control version 10.2 (10.2.0.1) contains complete Release Notes and updated Help.

Workspace Control: Additional rebranded items

For Workspace Control version 10.2 (10.2.0.1) some additional items have undergone rebranding to the new product name and style.

1.5 Workspace Control version 10.2 (10.2.0.0)

Enhancements and Improvements

Agents: New ability to prevent Execute Command and User Registry actions from being applied in user sessions

The RES ONE Workspace Agent now has the ability to prevent the following actions from being applied in user sessions:

- **Execute Command**
- **User Registry**

This can be useful for customers who use the **Security** module of RES ONE Workspace, and want to create an extra layer of protection against unauthorized use of commands and scripts through the above-mentioned Actions (which are part of the basic feature set).

To use this new feature, configure the following registry settings on every Agent where the actions must be blocked:

Key	<ul style="list-style-type: none">• HKLM\Software\RES\Workspace Manager (32-bits)• HKLM\Software\Wow6432Node\RES\Workspace Manager (64-bits)
Value	BlockExecuteCommand
Type	REG_SZ
Data	Yes

Key	<ul style="list-style-type: none">• HKLM\Software\RES\Workspace Manager (32-bits)• HKLM\Software\Wow6432Node\RES\Workspace Manager (64-bits)
Value	BlockRegistry
Type	REG_SZ
Data	Yes

With these two registry settings configured, the Agent will never run any **Execute Command** or **User Registry** action, regardless of their configuration in the Datastore.



Notes

- Once **User Registry** actions are blocked by `BlockRegistry` on an Agent, you cannot use a **User Registry** action to undo this blockage. Removing the additional layer of protection will require direct access to the HKLM registry of each Agent in order to remove the setting.
- The RES ONE Workspace Console will still display the **Execute Command** and **User Registry** features and their configured objects. Those will still apply on Agent where the above-mentioned HKLM registry setting(s) are not present.

Console: Stored passwords now displayed as 14 asterisks (*)

In the Console, stored passwords at the following locations are now displayed as 14 asterisks (*):

- At **Composition > Desktop > Lockdown and Behavior**:
 - in the **Start Menu and Taskbar** section, at **Hide "Exit"** and **protect "Log Off"** with password.
 - in the **Workspace Control Shell** section, at **Protect "Emergency Exit"** with password.
- At **Setup > Integration > Alerting**, on the **Notification Types** tab, in the **Notification type** window.
- At **Setup > Integration > Integration > Application Virtualization > Citrix XenApp Publishing**, on the **Citrix XenApp 7.x** tab.

Datastore: Changed default setting for 'Disable Active Setup (skips first-time shell init)' in new environments

When creating a new Datastore, the setting **Disable Active Setup (skips first-time shell init)** is now disabled by default.

Current versions of Microsoft Windows depend on actions that are performed during Active Setup, which makes this a more logical (default) configuration.

The setting **Disable Active Setup (skips first-time shell init)** can be configured at **Composition > Applications**, on the **Settings** tab.

Drivers: New drivers implemented for Workspace Control version 10.2

For Workspace Control version 10.2, all drivers were optimized. This affects security and reliability in general, and performance of Folder Synchronization in particular.

After installation, a reboot is necessary to activate the new drivers.

Installation: Path to 'pwrinit.exe' now wrapped in quotation marks

During installation, the path to `pwrinit.exe` (stored in the `Userinit` key in the registry) is now wrapped in quotation marks ("`<path>`").

If an upgrade is performed, the existing path will be corrected to include the quotation marks.

Locations and Devices: New Chassis types 'Tablet' and 'Convertible'

The list of **Chassis types** for Zone Rules has been updated to include the types **Tablet** and **Convertible**.

Printing Preferences: Detection of client printers enhanced

In user sessions, using the **Printing Preferences** tool, the detection of client printers has been enhanced. Previously, printers with "/" or "#" in their name might be missed or wrongfully classified as a client printer. Also, the latest format to configure printers, for example 'FollowME on SRV-PRINT01', is now correctly detected as a client printer.

RES ONE Workspace: New branding as Ivanti Workspace Control

Following the acquisition of RES by Ivanti, we are introducing new branding for our products. This new branding includes a new product name (Workspace Control) and product logos, and also the following changes:

- New splash screens and setup images throughout Workspace Control.
- New default installation location for new installations:
 - C:\Program files\Ivanti\Workspace Control (32-bit)
 - C:\Program files (x86)\Ivanti\Workspace Control (64-bit)*Please note, that entries in the Microsoft Windows registry remain unchanged.*
- New logo in the default background and screensaver (new Datastores only) and Webportal.
- New default Datastore name "IvantiWorkspaceControl" when creating a new Datastore.
- New icons and column names in the Management Portal and Console.
- Updated references to other Ivanti products (for example at **Setup > Integration > Ivanti Products**)

Security: Enhanced protection of encryption cyphers for non-FIPS encrypted environments

Protection of encryption cyphers for environments that do not use FIPS-compliant security algorithms has been enhanced.

Security: Enhanced protection of RES ONE Workspace cache

The RES ONE Workspace cache has been enhanced with greater protection against injection vulnerabilities.

User Settings: Compression of User Setting files same as RES ONE Workspace version 10.0

The compressing of User Settings files has been improved to match the compressed file sizes as it was in RES ONE Workspace version 10.0.

User Settings: Enhanced templates for Windows Explorer

The User Settings templates for **Windows Explorer > Folder General** (under **Windows > version 10.2**) have been updated.

The Registry Tree `HKEY_CURRENT_USER\Software\Classes\Local Settings\Software\Microsoft\Windows\Shell\Bags\AllFolders` has been added to the templates, to keep track of the window location.

This enhancement only applies to newly created User Settings based on the templates. To apply the change to existing User Settings based on these templates, the User Settings must be edited manually.

Workspace Composer: Enhanced logging when 'Bypass composer for accounts and groups' is used

Logging has been enhanced to better reflect that a RES ONE Workspace session is bypassed because of the setting **Bypass composer for accounts and groups**.

If a user who qualifies to bypass the composer, logs on to a session, the following message is now written to the Microsoft Windows Event log:

```
pfwsmgr.exe bypassed composing session for user <USERNAME> in session <n>
```

Bypass composer for accounts and groups can be configured at **Setup > Advanced Settings**.

Resolved Issues

Agents: Configuration of Agent-only installation of RES ONE Workspace version 10.1 or higher could not be changed using 'res.exe /config'

Consider the following scenario:

- An Agent-only installation of RES ONE Workspace version 10.1 or higher was performed.
- The command `res.exe /config`, was used to change the configuration of the Agent.

Example:

```
"%RESPFDIR%\svc\res.exe" /config /DBSERVER=SRV-SQL01 /DBNAME=ROWDB  
/DBUSER=ROWDBUser /DBPASSWORD>Password1 /DBTYPE=MSSQL  
/INHERITSETTINGS=YES
```

In this scenario, after the command was executed, the configuration change had not been applied. This has been resolved.

Agents: Duplicate Agents might be listed after installing RES ONE Workspace version 10.1

Consider the following scenario:

- A RES ONE Workspace environment contained Agents running a RES ONE Workspace version other than 10.1.
- At **Administration > Agents**, on the **Settings** tab, **Identify Agents by** was set to **MAC address of the first enabled network interface card**.
- RES ONE Workspace version 10.1 was installed on the Agents.

In this scenario, the list of **Agents** (at **Diagnostics > Agents Overview** or at **Administration > Agents**, on the **Agents** tab) contained duplicate Agents. This has been resolved.

Please note, that installing RES ONE Workspace version 10.1.100.0 or higher will not remove duplicate agents. This must be done manually or by using the **Automatic Agent Removal** feature (at **Administration > Agents**, on the **Settings** tab).

For more information about the **Automatic Agent Removal** feature, please refer to the RES ONE Workspace Help.

Agents: Dynamic configuration (using DHCP) of Datastore or Relay Server connection not applied after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, dynamic configuration (using DHCP) of the Agent connection to either a Datastore or a Relay Server was not applied. This has been resolved.

For more information about **Dynamic Datastore configuration** or **Dynamic Relay Server configuration**, please refer to the RES ONE Workspace Help or Administration Guide.

Agents: High CPU usage for pwr-cache.exe after installing RES ONE Workspace version 10.1 or higher, if certificate configuration for Relay Server was incorrect

After installing RES ONE Workspace version 10.1 or higher, if the custom certificate configuration for connecting to the Relay Server was incorrect, `pwr-cache.exe` would exhibit high CPU usage. This has been resolved.

Agents: Not getting in sync after installing RES ONE Workspace version 10.1 if custom certificate was used for Relay Server

After installing RES ONE Workspace version 10.1, Agents that connected to a Relay Server did not get in sync if a custom certificate was used to secure communication between the Agents and the Relay Server. This has been resolved.

For more information about using custom certificates, please refer to the RES ONE Workspace Administration Guide.

Agents: Not switching to Relay Server based on Workspace Container

Consider the following scenario:

- At **User Context > Workspace Containers**, Workspace Container 'A' was configured, that used (for example) a Zone based on IP address range for Access Control.
- At **Administration > Agents**:
 - on the **Agents** tab, the **Datastore connection** for an Agent was set to **Inherited** (on the **Connection** tab of the **Edit RES ONE Workspace Agent** window).
 - an exception was configured for Workspace Container 'A', with the **Datastore connection** set to **Connect through Relay Server**.
 - For **Connection method(s)**, the option **Preconfigured (using list)** was selected, and 'Relay Server 1' was added to the list.
- The Agent was started while *not* in Workspace Container 'A' (i.e. the IP address of the Agent was not in the configured IP address range).

In this scenario, if the Agent was moved to a situation where it was in Workspace Container 'A', the Agent did not switch to 'Relay Server 1'. This has been resolved.

Agents: Pwrcache.exe grew unexpectedly and OutOfMemory exception was logged after installing RES ONE Workspace version 10.1 or higher

Under rare circumstances, after installing RES ONE Workspace version 10.1 or higher, `pwrcache.exe` grew unexpectedly to 1.9GB memory and an `OutOfMemory` exception was logged. This has been resolved.

Applications: Order of actions 'At application end' not saved

At **Composition > Applications**, on the **Configuration > Actions > At application end** tab of an application, if the order of actions was changed, the new order was not preserved when the application was saved. This has been resolved.

Applications: Runtime error might occur when selecting App-V 5.x package from Console after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher on Microsoft Windows Server 2016, if an Microsoft App-V 5.x package (.appv) was selected for **Command line** (at **Composition > Applications**, on the **Properties > General** tab of an application) from a Console-only installation of RES ONE Workspace, the following error occurred:

```
Microsoft Visual C++ Runtime Library
```

```
Runtime Error!
```

```
An application has made an attempt to load the C runtime library incorrectly.
```

After closing the error window, this was followed by this error:

Process	pwrtech.exe
Procedure	SharedSoftGrid.flngGetFileFromAppvContainer
Error #	48
Error description	File not found: WMOPC.dll

Both errors have been resolved

Building Blocks: Error 'Control array element xx doesn't exist' might occur when importing a multi-file Building Block

At **Setup > Licensing**, when a Building Block was imported that consisted of multiple files and that contained **Access Balancing**, the Console user might be prompted to save the changes made to "Access Balancing" and the following error might occur:

Process	pwrtech.exe
Procedure	UpdateActionMenu
Error #	340
Error description	Control array element 'xx' doesn't exist (where xx is a number)

This has been resolved.

Citrix XenApp 7.x: Error 'Test failed, make sure you are authorized to publish' might occur when publishing application to Citrix XenApp 7.13 or higher

At **Composition > Applications**, if an application was published to Citrix XenApp 7.13 or higher (on the **Properties > Publishing > Citrix XenApp Published Application** tab of the application), publishing might fail and the following error might occur:

```
Test failed, make sure you are authorized to publish
```

This has been resolved.

Citrix XenApp 7.x: Error 'The RES ONE Workspace Citrix PA Intercept service terminated unexpectedly' logged multiple times in Windows Event log after installing RES ONE Workspace version 10.1 or higher

Consider the following scenario:

- RES ONE Workspace version 10.0.x or older was installed on a machine running Citrix XenApp/XenDesktop 7.x.
 - At **Administration > Agents, Run Workspace Composer** for the Agent was set to **Automatic**, for example on the **Settings** tab of the Agent.
- RES ONE Workspace version 10.1 or higher was installed on the machine.

In this scenario, the following error was logged to the Microsoft Windows Event log multiple times:

```
The RES ONE Workspace Citrix PA Intercept service terminated unexpectedly.  
It has done this xxxx time(s).
```

This has been resolved.

Please note, that the issue also occurred on any machine with the RES ONE Workspace registry value `XenDesktop7Intercept` set to `Yes`, regardless of the setting for **Run Workspace Composer**.

Citrix XenApp 7.x: High CPU usage every few seconds if only Citrix Delivery Controller was installed

RES ONE Workspace Agents with the Citrix Delivery Controller installed and not the Citrix Virtual Delivery Agent, exhibited high CPU usage by `pfxa7.exe` every few seconds. This has been resolved.

Citrix XenApp 7.x: New delivery groups not available if more than one Citrix Delivery Controller was configured for one Citrix Site after upgrading to RES ONE Workspace version 10.1 or higher

After upgrading to RES ONE Workspace version 10.1 or higher, at **Setup > Integration > Application Virtualization > Citrix XenApp Publishing**, on the **Citrix XenApp 7.x** tab, if more than one Delivery Controller was configured, new delivery groups might not be available in the Management Console. This has been resolved.

Citrix XenApp 7.x: Passthrough application not starting if Dynamic Privileges were configured

Consider the following scenario:

- At **Composition > Applications**, an application was configured with the following settings:
 - On the **Properties > Publishing > Citrix XenApp Published Application** tab of the application, **Citrix XenApp Application Publishing** was enabled.
 - On the **Settings** tab (part of the **Citrix XenApp Published Application** tab), **Enable Instant Passthrough for computers not publishing this application** was selected.
 - On the **Security > Dynamic Privileges** tab of the application, **Access token** was set to **Add administrator rights**.
- A user logged on to a RES ONE Workspace session on a machine that did not publish the application, and started the published application.

In this scenario, in the user session, the application did not start and the Citrix Receiver displayed the following error message:

```
Cannot start app. Please contact your help desk.
```

This has been resolved.

Citrix XenApp 7.x: Published application may take a very long time to start or might not start at all

Consider the following scenario:

- At **Setup > Integration > Application Virtualization > Citrix XenApp Publishing**, on the **Citrix XenApp 7.x** tab, credentials to communicate with a Citrix XenApp server were for a Citrix 'Group Delivery Administrator'.
- At **Composition > Applications**, an application was configured to be published to Citrix XenApp (on the **Properties > Publishing > Citrix XenApp Published Application** tab of the application).
- A user logged on to a session and started the application.

In this scenario, in the user session, the application took a very long time to start or returned the following error:

```
Application can't be started
```

This has been resolved.

To resolve this issue, the method of publishing applications to Citrix XenApp has been changed. Applications that were affected by this issue must be republished after installing Workspace Control 10.2 or higher.

Citrix XenApp 7.x: Session might not be logged off completely after installing RES ONE Workspace version 10.1 or higher

Under rare circumstances, after installing RES ONE Workspace version 10.1, Citrix XenApp 7.x session were not completely logged off. This has been resolved.

To resolve this issue, a reboot is necessary after installing Workspace Control version 10.2.

Citrix XenApp 7.x: Test Publishing Ability function could give misleading results

At **Setup > Integration > Application Virtualization > Citrix XenApp Publishing**, on the **Citrix XenApp 7.x** tab, if a Citrix Site was configured with multiple Delivery Controllers separated by a semicolon (;), when clicking **Test Publishing Ability** on the **Settings** tab, the test results could be misleading. For the same Citrix site, the test results could mention that it failed and passed. This has been resolved. When clicking **Test Publishing Ability** on the **Settings** tab, the test is executed and now displays the correct results.

Citrix XenApp: Instant Passthrough might not work after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, **Instant Passthrough** for Citrix XenApp Published applications might not work. This has been resolved.

For this issue to be resolved, the following registry value must be set:

Key	<ul style="list-style-type: none">HKLM\Software\RES\Workspace Manager (32-bits)HKLM\Software\Wow6432Node\RES\Workspace Manager (64-bits)
Value	SelfServicePoll
Type	REG_SZ
Data	No

For more information about this registry value, please refer to the online Administration Guide for Workspace Control / RES ONE Workspace at <http://help.res.com/WorkspaceAdminGuide10>.

Citrix XenApp: Published applications started with a delay after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, managed Citrix XenApp published applications started with a delay. This has been resolved.

Citrix XenApp: Session not logged off after closing application that was published to a French-language Citrix server (version 7.8 or higher)

Consider the following scenario:

- At **Composition > Applications**, an application was configured with the following settings:
 - On the **Properties > Publishing > Citrix XenApp Published Application** tab of the application, **Citrix XenApp Application Publishing** was enabled.
 - On the **Properties > Publishing > Citrix XenApp Published Application > Servers** tab of the application, a French-language Citrix XenApp server (version 7.8 or higher) was listed under **Configured servers / groups**.
- A user logged on to a session and opened the published application.

In this scenario, when the user closed the published application, the `Agent d'hôte transparent ICA` (ICA Seamless Host Agent) on the Citrix XenApp server might prevent the session from logging off. This has been resolved.

Console: Remote Control of session failed if initiated from session host

At **Diagnostics > User Sessions**, when **Remote Control <username>** was attempted from the machine that was also hosting the session that was to be controlled, the following message was displayed to the Console user:

```
It is not possible to remote control a user session from the console.
```

This has been resolved for session-hosts running Microsoft Windows Server 2012 and higher.

Because of limitations in earlier versions of the Windows Server OS, this issue cannot be resolved for Windows Server 2008 R2 (and earlier).

Console: Saving an application when a filter was applied might change its Workspace Control settings

For applications with certain combinations of Access Control, if a filter was applied to the Console when the application was saved, the **Workspace Containers** setting for the application was changed to **All workspace containers**. This has been resolved.

Drivers: Rare Stop error after installing RES ONE Workspace version 10.1 or higher

Under very rare circumstances, after installing RES ONE Workspace version 10.1, a Stop error could occur when **Website Security** was enabled. This has been resolved.

To resolve this issue, a reboot is necessary after installing Workspace Control version 10.2.

Error message: 'Out of memory' error logged multiple times for pfwsmgr.exe after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, an 'Out of memory' error might be logged multiple times in the common error log (at **Diagnostics > Errors**). This has been resolved.

File Hash Monitor: No new file hashes calculated for files changed by Windows Update

When the RES ONE Workspace File Hash monitor was active and Microsoft Windows Update applied changes, the changed files were not picked up by the File Hash Monitor to calculate a new file hash. This has been resolved.

This is an improved version of the change that was released in RES ONE Workspace version 10.0.300.0.



Note

For this issue to be resolved, RES ONE Workspace File Hash Monitor version 10.0.600.0 or higher (excluding version 10.1 and version 10.1.100.0) must be installed.

Installation: Driver-related errors could occur after uninstalling older version, then installing RES ONE Workspace version 10.1 or higher

If a previous, older version of RES Workspace Manager or RES ONE Workspace was uninstalled from a machine before installing RES ONE Workspace version 10.1 or higher, RES ONE Workspace-driver related errors could occur when a user logged on to a RES ONE Workspace session. This has been resolved.

Installation: Error 'AppGuard was unable to protect your session' could occur after upgrading to RES ONE Workspace version 10.1 or higher

After upgrading to RES ONE Workspace version 10.1 or higher on a machine where the original installation was, for example, RES Workspace Manager 2011 SR3, RES ONE Workspace driver related errors could occur when a user logged on to a RES ONE Workspace session. After these errors occurred, the following message was displayed to the user:

```
AppGuard was unable to protect your session. Please contact your administrator or helpdesk.
```

This has been resolved.

Installation: Parameter 'AUTORUNCOMPOSER=yes' not working if 'INHERITSETTINGS=yes' was also used

When performing an unattended installation of RES ONE Workspace, if the parameters `AUTORUNCOMPOSER=yes` and `INHERITSETTINGS=yes` were used together, the Agent was not configured to start the Workspace Composer automatically until the first update of the RES ONE Workspace cache. This has been resolved.

Installation: RESNFLT driver not updated after upgrading to RES ONE Workspace version 10.1 or higher

After upgrading to RES ONE Workspace version 10.1 or higher, the RESNFLT driver was not updated. This has been resolved.

Managed Application Security: Unexpected BLOCK messages might be logged when USB key was inserted

If **Managed Application Security** was enabled and the **Lockdown and Behavior** option **Refresh Workspace on USB storage device change** was selected, when an USB key was inserted that was allowed by **Removable Disks Security**, `BLOCK` messages might appear in the **Managed Application Security** log and in the **Removable Disks Security** log. This has been resolved.

Managed Application Security can be found at **Security > Applications > Managed Applications**. **Removable Disks Security** can be found at **Security > Data > Removable Disks**.

Microsoft App-V 5.x: Application parameter might be changed incorrectly after installing RES ONE Workspace version 10.1.100.0 or higher

At **Composition > Applications**, if a Microsoft App-V 5.x application was imported or edited in a RES ONE Workspace Console version 10.1.100.0 or higher, if the **Parameters** field of the application contained `/appvve:<PackageID>_<VersionID>` followed by other parameters, data other than the `appvve`-parameter might be removed. This has been resolved.

Please note, that this change does not restore affected applications. Data that was previously removed, will have to be added manually.

Microsoft App-V 5.x: Execute command with Dynamic Privileges inside App-V virtual environment not executed

After installing RES ONE Workspace version 10.1.200.0 or higher, **Execute command** actions for Microsoft App-V 5.x applications were not executed if **Run using Dynamic Privileges** was *enabled* and **Run outside App-V virtual environment** was *disabled*. This has been resolved.

Microsoft App-V 5.x: Error 'Length cannot be less than zero' might occur when starting an application with a /appvve parameter after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, when users started an application that was configured with `/appvve:<PACKAGEID>_<VERSIONID>` for **Parameters**, the following error might occur:

Process	pfwsmgr.exe
Procedure	fysnChangedRunProgram
Error #	N/A
Error description	Length cannot be less than zero

This has been resolved.

For more information about the parameter `/appvve:<PACKAGEID>_<VERSIONID>`, please refer to the RES ONE Workspace Help.

Microsoft App-V 5.x: RES ONE Workspace environment variable in '/appvve' parameter not resolved

Consider the following scenario:

- At **Composition > Applications**, an application was configured, for example Microsoft Excel.
 - On the **Properties > General** tab of the application, for **Parameters**, a RES ONE Workspace environment variable was used to specify the Microsoft App-V 5.x Package ID for the `/appvve:<PACKAGEID>_<VERSIONID>` parameter.
Example: `/appvve:%VariableForPackageID%_%APPVPACKAGECURRENTVERSION%`
- At **Composition > Actions By Type > Environment Variables**, `VariableForPackageID` was configured as a valid App-V Package ID, for example of an add-in for Excel.
- A user logged on to a RES ONE Workspace session and started Excel.

In this scenario, in the user session, the environment variable was not resolved and Excel did not run inside the App-V virtual application environment, causing the add-in not to be available. This has been resolved.

For more information about the parameter `/appvve:<PACKAGEID>_<VERSIONID>`, please refer to the RES ONE Workspace Help.

Registry Settings: 'InterceptManagedApps' did not take into account the Ignore value for setting 'If managed shortcut was not used'

The registry setting `InterceptManagedApps` did not take into account the value **Ignore** for the setting **If managed shortcut was not used**. This has been resolved.

The setting **If managed shortcut was not used** can be configured at **Composition > Applications**, on the **Properties > Shortcuts** tab of an application.

Remote Control: Error 'Not enough storage is available to complete this operation' could occur when Remote Control was started

At **Diagnostics > User Sessions**, if **Remote Control** of a session was started from a machine running Microsoft Server 2012 or older, the following error could occur:

```
Remote control failed. Error coder 14
Error [14]: Not enough storage is available to complete this operation.
```

This has been resolved.

RES ONE Workspace Shell: Application icons not available in system tray after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, if the RES ONE Workspace Shell was used, application icons in the system tray were not available. This has been resolved.

RES ONE Workspace Shell: Break line missing in Start menu after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, if the RES ONE Workspace Shell was used, in the Start menu, the break line between **Programs** and **RES ONE Workspace settings** was missing. This has been resolved.

RES ONE Workspace Shell: Desktop background picture and color only applied on primary screen after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, if the RES ONE Workspace Shell was used, the desktop background picture and color (at **Composition > Desktop > Background**) were only applied to the primary screen. This has been resolved.

RES ONE Workspace Shell: Emergency Exit not working after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, the **Emergency Exit** in the RES ONE Workspace Shell did not work anymore. This has been resolved.

RES ONE Workspace Shell: Error 'A new guard page for the stack cannot be created' could occur at logoff after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher on a machine running a 32-bit version of Microsoft Windows 7, if the RES ONE Workspace Shell was used, the following error could occur at logoff:

```
A new guard page for the stack cannot be created
```

This has been resolved.

RES ONE Workspace Shell: Error 'Collection was modified; enumeration operation may not execute' might occur at logoff after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, when using the RES ONE Workspace Shell, if the **Lockdown and Behavior** option **Force Microsoft Office Excel to show open workbooks on RES ONE Workspace Shell taskbar** was selected, the following error could occur at logoff:

Process	pfwsmgr.exe
Procedure	modEnd.Logoff
Error #	N/A
Error description	Collection was modified; enumeration operation may not execute

This has been resolved.

RES ONE Workspace Shell: Error 'Index was out of range' after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, if the RES ONE Workspace Shell was used, the following error might occur:

Process	pfwsmgr.exe
Procedure	TrayIconHandler
Error #	N/A
Error description	Index was out of range. Must be non-negative and less than the size of the collection.
Parameter name	index

This has been resolved.

RES ONE Workspace Shell: Icons on taskbar might be displayed incorrectly after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, when using the RES ONE Workspace Shell, some icons on the taskbar might be displayed incorrectly. This has been resolved.

RES ONE Workspace Shell: Lower quality icons after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, if the RES ONE Workspace Shell was used, icons for shortcuts were of lower quality than in earlier versions of RES ONE Workspace. This has been resolved.

RES ONE Workspace Shell: Memory leak (handle leak) could occur after installing RES ONE Workspace version 10.1 or higher, if Memory Optimization was enabled

Consider the following scenario:

- At **Administration > Performance > Memory Optimization**, on the **Settings** tab, **Memory Optimization** was enabled with the following options selected:
 - **Limit amount of memory per session**
 - **Show memory usage in systemtray**
- A user logged on to a RES ONE Workspace session that used the RES ONE Workspace Shell, on a machine with RES ONE Workspace version 10.1 or higher installed.

In this scenario, a handle leak in the Workspace Composer could occur, which (over time) caused the system to effectively run out of memory. This has been resolved.

RES ONE Workspace Shell: Option "Force Microsoft Office Excel to show open workbooks on RES ONE Workspace Shell taskbar" not working on Microsoft Office Excel 2010 after upgrading to RES ONE Workspace version 10.1 or higher

After upgrading to RES ONE Workspace version 10.1 or higher, the Lockdown and Behavior option **Force Microsoft Office Excel to show open workbooks on RES ONE Workspace Shell taskbar**, was not working in user sessions for Microsoft Office Excel 2010. New workbooks were opened in the same window as the one that was already open. This has been resolved.

The option **Force Microsoft Office Excel to show open workbooks on RES ONE Workspace Shell taskbar** can be configured at **Composition > Desktop > Lockdown and Behavior**, in the RES ONE Workspace Shell section.

RES ONE Workspace Shell: Remote Desktop session not displayed full-screen after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, when using the RES ONE Workspace Shell, Remote Desktop sessions could not be displayed full-screen: the taskbar of the 'local' session remained visible. This has been resolved.

RES ONE Workspace Shell: 'Restart' resulted in logoff instead of reboot after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, if the RES ONE Workspace Shell was used, when users selected **Restart** from the list of **Exit** options, the session logged off and no reboot was initiated. This has been resolved.

RES ONE Workspace Shell: Right-click on Start stopped working during session after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, if the RES ONE Workspace Shell was used, repeatedly right-clicking on the **Start** button might cause the context-menu not to appear anymore. This has been resolved.

RES ONE Workspace Shell: Shortcuts in Startmenu might be displayed twice when switching between large and small icons after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, when using the RES ONE Workspace Shell, if a user switched between **Use small icons** and **Use large icons**, shortcuts that were in a (sub)folder in the Startmenu might appear twice: both large and small. This has been resolved.

The selection of icon size can be found in the **Workspace Preferences** tool, on the **Options** tab.

RES ONE Workspace Shell: Shortcuts on desktop might be sorted incorrectly after installing RES ONE Workspace version 10.1 or higher

Consider the following scenario:

- At **Composition > Applications**, several applications were configured.
 - On the **Properties > Shortcuts** tab of the applications, **Create Start Menu shortcut** was selected for some, but not all applications.
- At **Composition > Desktop > Shell**, the option **Use RES ONE Workspace Shell as the default shell** was selected.
- A user logged on to a RES ONE Workspace session on a machine with RES ONE Workspace version 10.1 or higher installed.

In this scenario, in the user session, shortcuts on the desktop were not sorted correctly. This has been resolved.


RES ONE Workspace Shell: Shortcuts on desktop might not work after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, when using the RES ONE Workspace Shell, shortcuts on the desktop might not work after a Workspace refresh occurred. This has been resolved.

RES ONE Workspace Shell: Shortcuts surrounded by background color when overlapping the background picture after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, if the RES ONE Workspace Shell was used, shortcuts that overlapped the desktop background picture were surrounded by the desktop background color. This has been resolved.

RES ONE Workspace Shell: 'Show or hide desktop' not working correctly after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, if the RES ONE Workspace Shell was used, the **Show or hide desktop** button () exhibited the following incorrect behavior:

- Open windows were minimized when the button was clicked, but the windows were not restored when the button was clicked again.
- When multiple screens were used, only windows on the primary screen were minimized.

Both issues have been resolved.

RES ONE Workspace Shell: Unexpected empty window when opening an Excel workbook after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, when using the RES ONE Workspace Shell, if the **Lockdown and Behavior** option **Force Microsoft Office Excel to show open workbooks on RES ONE Workspace Shell taskbar** was selected and a Microsoft Excel workbook was opened in a user session, an additional empty window was visible unexpectedly. This has been resolved.

RES ONE Workspace Shell: Unhandled exception when using an icon file as screensaver image after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, when using the RES ONE Workspace Shell, if an icon file (.ico) was used as the screensaver image, an unhandled exception occurred when the screensaver started, and the icon was not displayed. This has been resolved.

RES VDX Integration: Passing resolved environment variables to extended application not working after installing RES ONE Workspace version 10.1 or higher

Consider the following scenario:

- At **Composition > Applications**, an application was configured with the following settings:
 - On the **Properties > General** tab of the application:
 - **Run as Workspace Extension** was selected.
 - for **Parameters**, an environment variable was entered, that was to be resolved at the Terminal Server side and then passed to the (extended) application.
Example: `$username$`
- A user logged on to a RES ONE Workspace session on a machine with RES VDX installed, and started the extended application.

In this scenario, in the user session, the resolved variable was not passed to the application. This has been resolved.

RES VDX Integration: VDX not available in VMware View session if 'Secure Tunnel Connection' was disabled

In VMware View sessions that used the Blast Extreme protocol, RES VDX was not available if the VMware Horizon option 'Secure Tunnel Connection' was disabled. This has been resolved.

Usage Tracking: Blocked websites listed as Active/Open

Consider the following scenario:

- At **Setup > Usage Tracking**, Usage Tracking was enabled.
 - The option **Enable Website Usage Tracking and log web sites visited** was selected.
- At **Security > Applications > Websites**:
 - on the **Settings** tab, **Website Security** was **Enabled**.
 - on the **Websites** tab, a **Deny** rule was configured for a website, for example `resone.org*`.
- A user logged on to a RES ONE Workspace session and visited `resone.org`.
Access to the website was blocked, based on the **Deny** rule at Website Security.

In this scenario, in the **Usage Tracking Viewer**, even though access to `resone.org` had been blocked, the website was listed with **Time active** and **Time open**. This has been resolved.

Please note, that installing RES ONE Workspace version 10.0.400.0 or higher will only resolve the issue for newly generated Usage Tracking data. Existing Usage Tracking data will not be corrected.

* The scenario as described above applies to configurations of Website Security where the **Security method** was either **Whitelisting** or **Blacklisting**. If the **Security method** was **Whitelisting**, not having an **Allow** rule for `resone.org` was enough to cause the issue, even if no **Deny** rule was configured.

Usage Tracking: Error 'String or binary data would be truncated' logged in common error log

Consider the following scenario:

- At **Setup > Usage Tracking**:
 - **Usage Tracking** was enabled.
 - **Log session information** was selected.
 - **Anonymous logging (avoids conflicts with privacy policies)** was selected.
- A user with a username that was longer than 25 characters (including the Domain name) logged on to a RES ONE Workspace session.

In this scenario, after the user had logged off, the following error could appear in the common error log (at **Diagnostics > Errors**):

Process	pwrccache.exe
Procedure	<pre>clsPFDAL.Execute, INSERT INTO tblSession (rowguid, lngID, strUser, strOU, strServer, strClientIP, strClientName, lngStart, lngStartTime, lngEnd, lngEndTime, lngDuration, lngConnState, replicaguid) values (newid() , ? , ? , ? , ? , ? , ? , ? , ? , ? , ? , ? , ? , ? , ? , ?)</pre>
Error #	-2146232060 (or similar)
Error description	String or binary data would be truncated. The statement has been terminated.

This has been resolved for newly created Datastores.

If you encounter this issue in your current Datastore, please contact RES Support for instructions on how to resolve this.

User Registry: Configuration for Policy might not be saved if window contained checkboxes and text field

Consider the following scenario:

- At **Composition > Actions By Type > User Registry**, a **Policy** was configured based on an ADMX file.
 - From the **Properties** tab of the **Edit registry setting (based on xxx.admx)** window, data for a value in the policy was defined using a window that contained both checkboxes and a multi-line text field.
 - Only one line of text, not followed by <Enter>, was entered in the text field.

In this scenario, if the data-entry window was closed, the data in the text field was not saved. This has been resolved.

User Registry: Error 'Failed to connect to RegGuard driver' occurred when tracing registry changes after installing RES ONE Workspace version 10.1 or higher

Consider the following scenario:

- At **Composition > Actions By Type > User Registry**, a registry setting was created or edited.
 - In the **Edit registry setting** window, from the **Action > Registry** menu, a Console user selected **Trace registry changes**.
The **Trace registry changes** windows opened.
 - The user selected a process and clicked **Start trace**.

In this scenario, the trace did not start and the following error was displayed to the Console user:

```
Failed to connect to RegGuard driver
```

This has been resolved.

User Sessions: 'Reset' and 'Disconnect' not available for sessions using Blast Extreme

At **Diagnostics > User Sessions**, the options **Reset "<username>"** and **Disconnect "<username>"** were not available for sessions that used the VMware Blast Extreme protocol. This has been resolved.

User Settings: Capture Wizard might create User Settings configuration item containing an incorrect or empty registry entry

In certain scenarios, the User Settings Capture Wizard created a User Settings configuration item that contained an incorrect or empty registry entry. This has been resolved.

Workspace Composer: 10 second delay might occur during logon after installing RES ONE Workspace version 10.1 or higher

Under rare circumstances, after installing RES ONE Workspace version 10.1 or higher, users experienced a 10 second delay during logon to a RES ONE Workspace session. This has been resolved.

Workspace Composer: Access Control based on Groups might not work correctly after installing RES ONE Workspace version 10.1 or higher

Consider the following scenario:

- At **User Context > Directory Services**, a Directory Service was configured to **Process Access Control based on Account SIDs**.
- Access Control on (for example) a User Setting was configured for an Active Directory Group.
 - After Access Control was defined, at some point, the name of the Group was changed in Active Directory.
- A user who was a member of the Group, logged on to a machine with RES ONE Workspace version 10.1 or higher installed.

In this scenario, in the user session, the User Setting was not applied and updated. This has been resolved.

Please note, that this issue affected several, but not all features where access control based on Active Directory Groups can be configured.



Warning: Potential data loss

Consider the following scenario:

- User Settings in your environment are affected by this issue.
 - Targeted items for the User Settings include files, folders and/or folder trees.
 - Changes were made to the targeted (local) files after the upgrade to RES ONE Workspace version 10.1.0.0, 10.1.100.0 or 10.1.200.0.

In this scenario, depending on configuration, the local files may be overwritten with the last stored version in the User Setting.

To prevent data loss, create a backup of the local files in a different location before installing RES ONE Workspace version 10.1.300.0 or higher.

Workspace Composer: Additional mailboxes not applied to Outlook 2013 and newer when assigned to a group

At **Composition > Applications > E-mail Settings**, if **Additional mailboxes** were configured for an Active Directory group (under **For this user/group**), these mailboxes were not applied to Microsoft Outlook 2013 and newer. This has been resolved.

Additional mailboxes can be configured from the **Configure Service** window for **Microsoft Exchange Online (Office 365)** or **Microsoft Exchange Server 5.5** or higher.

Workspace Composer: Administrative note for Execute Command might not be displayed

At **Composition > Actions By Type > Execute Command**, on the **Properties** tab of a command, if an **Administrative note** was entered and the **Command line** contained `%script%` followed by a parameter, the administrative note was not displayed in the RES ONE Workspace splash screen at logon when the command was executed. This has been resolved.

Workspace Composer: Application added to desktop using Workspace Preferences tool after installing RES ONE Workspace version 10.1 not visible

Consider the following scenario:

- At **Composition > Applications**, on the **Settings** tab, **Windows Shell shortcut creation** was set to **Replace all unmanaged shortcuts**.
 - The option **Replace all unmanaged tiles on start screen** was enabled.
- At **Composition > Desktop > Lockdown and Behavior**, in the **Windows Explorer** section, the following options were enabled:
 - **Hide My Computer Icon**
 - **Hide My Documents Icon**
 - **Hide My Network Places Icon**
 - **Hide Recycle Bin Icon**
- A user logged on to a RES ONE Workspace session on a machine running Microsoft Windows 8.1 or higher, with RES ONE Workspace version 10.1 installed.
 - Using the **Workspace Preferences** tool, the user added an application to the desktop (on the **Desktop** tab of the tool), and clicked **Apply new settings now**.

In this scenario, in the user session, **Apply new setting now** did not trigger a Workspace refresh and the shortcut for the application did not appear on the desktop. This has been resolved.

Workspace Composer: Application User Settings not always saved on application end after installing RES_P> version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, if **Windows Shell shortcut creation** was set to **Do not create shortcuts**, application User Settings with **Zero Profile mode** set to **Capture targeted items on application end** were not always saved when the application was closed. This has been resolved.

Workspace Composer: Applications started before their User Settings were loaded after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, if application User Settings were configured to **Prefetch in background, check on application start**, applications did not wait for their User Settings to be fully loaded. This has been resolved.

The global behavior of **Application User Settings** can be configured at **Composition > User Settings**, on the **Settings** tab.

Workspace Composer: 'Bypass composer...' might not work for Active Directory Groups when offline

Consider the following scenario:

- At **Setup > Advanced Settings**, the option **Bypass composer for accounts and groups** was enabled.
 - In the **Bypass composer** window, an Active Directory group was entered, for example `RESONE\WorkspaceAdmins`.
- A user who was a member of the `RESONE\WorkspaceAdmins` group, logged on to a session on a machine that had just (re)booted.
 - The machine had no connection to Active Directory

In this scenario, the Active Directory group membership of the user was not recognized and a managed RES ONE Workspace session started. This has been resolved.

Workspace Composer: Captured User Settings might be reloaded at every start of application, after installing RES ONE Workspace version 10.1 or higher

Consider the following scenario:

- At **Composition > Applications**, an application is configured with the following settings:
 - On the **User Settings > Properties** tab of the application:
 - **Zero Profile mode** was set to **Capture targeted items on application/session end**.
 - **Apply** was set to **Prefetch in background, check on application start**.
 - On the **User Settings > Capturing** tab of the application, only **Targeted items** of type **File, Folder** or **Folder tree** were configured.
- A user with stored User Settings for the application, logged on to a RES ONE Workspace session.

In this scenario, in the user session, every time the user started the application, the stored user settings were reloaded before the application started, even though the latest version of the stored settings had already been loaded. This has been resolved.

Workspace Composer: 'Change password' window may appear in the background after installing RES ONE Workspace version 10.1 or higher

Under rare circumstances, after installing RES ONE Workspace version 10.1 or higher, if a user selected **Change password** (for example using a managed shortcut with the **Command line** pointing to `pfwsmgr.exe`, and the **Parameter** `/password`), the RES ONE Workspace **Change password** window appeared in the background. This has been resolved.

Workspace Composer: Configured File Type for PDF not always applied correctly for new users on Windows 10 (version 1607 and earlier)

Consider the following scenario:

- At **Composition > Applications**, an application that can open PDF files was configured, for example Adobe Reader.
 - On the **Properties > File Types** tab of the application, PDF was configured as a file type for the Command `Open`.
- A user with no existing user profile logged on to a RES ONE Workspace session on a machine running Microsoft Windows 10 version 1607 or earlier, and opened a PDF file.

In this scenario, in the user session, the PDF might be opened using the Windows default application, Microsoft Edge. This has been resolved. Now, in this scenario, Adobe Reader will be used to open the file.

Workspace Composer: Connection state based on 'Open URL' might fail after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, connection states based on **Open URL (http)** or **Open URL (https)** failed if authentication was required upon accessing the specified URL. This has been resolved.

Workspace Composer: Context might not be applied correctly for online sessions with no connection to Active Directory

Context based on Active Directory computer information (for example computer Group membership) might not be applied for sessions that were online, but did not have a connection to Active Directory. This has been resolved.

As a result of this issue, for example, remote workers might not be able to login if Workspace Containers were based on computer Active Directory Group membership.

To correct this issue, after installing Workspace Control version 10.2 or higher, the user must logon to an Workspace Control session on the affected machine once, while connected to Active Directory.

Workspace Composer: Customized default tile-layout lost for users with no existing user profile

If a customized default tile-layout was defined in the Microsoft Windows default user profile, this layout was lost when a user with no existing user profile logged on to a RES ONE Workspace session on a machine running Windows 8.1 or higher. This has been resolved.

Workspace Composer: Data Sources not working correctly after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, Data Sources (at **Composition > Applications > Data Sources**) might not be applied correctly in user sessions. This has been resolved.

Workspace Composer: Default RES ONE Workspace environment variables reset or deleted by Workspace refresh after installing RES ONE Workspace version 10.1

Consider the following scenario:

- At **Compositions > Actions By Type > Environment Variables**, on the **Settings** tab:
 - **Environment Variables** was enabled.
 - **Reset Environment Variables on refresh of Workspace** was enabled.
- A user logged on to a RES ONE Workspace session on a machine with RES ONE Workspace version 10.1 installed.

In this scenario, when a Workspace refresh occurred in the user session, default RES ONE Workspace environment variables (%fullusername%, %USERSID%, etc.) were reset or deleted. This has been resolved.

Workspace Composer: Default tile layout in Custom Resources not applied after installing RES ONE Workspace version 10.1 or higher

At **Administration > Custom Resources**, if a `DefaultTileLayout_Windows10.xml` file was used to create a default tile layout in user sessions, after installing RES ONE Workspace version 10.1 or higher, this layout was no longer applied. This has been resolved.

For more information about using a `DefaultTileLayout_Windows10.xml` file, please refer to the RES ONE Workspace Administration Guide.

Workspace Composer: Default tile layout might not be applied when logging on to Windows 10 (build 1703)

When a new user or a user with a mandatory profile logged on to a RES ONE Workspace session on a machine running Microsoft Windows 10 (build 1703), the default tile layout might not be applied in the Start menu. This has been resolved.

Workspace Composer: Default tiles not generated for new users on Windows Server 2016 in Merge mode

On Microsoft Windows Server 2016, when a user with no existing user profile logged on to RES ONE Workspace session in Merge mode, the Windows default tiles were not generated in the Start Menu. This has been resolved.

Merge mode is configured at **Composition > Applications**, on the **Settings** tab, by setting the option **Windows Shell shortcut creation** to **Merge with unmanaged shortcuts**.

Workspace Composer: Delay after logon for new users in Windows Server 2016

On Microsoft Windows Server 2016, when a user with no existing user profile logged on to a RES ONE Workspace session, creating managed shortcuts in the Start Menu and Taskbar could be delayed by one minute. This has been resolved.

Workspace Composer: Delay might occur at logon on machines with more than one NIC after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, if a machine was equipped with more than one NIC (Network Interface Controller) and at least one NIC did not give access to Active Directory or DNS, a delay might occur when logging on to a RES ONE Workspace session. This has been resolved.

Workspace Composer: desktop.ini visible on redirected desktop after installing RES ONE Workspace version 10.1

Consider the following scenario:

- At **Composition > Actions By Type > Files and Folders > Folder Redirection**:
 - on the **Redirections** tab, the `Desktop` folder was redirected.
 - on the **Settings** tab, **Use localized names for redirected Windows folders** was not selected.
- A user logged on to a RES ONE Workspace session on a machine running RES ONE Workspace version 10.1.

In this scenario, in the user session, a (not hidden) `desktop.ini` file was visible on the desktop. This has been resolved.

Workspace Composer: Detection of connection state based on 'Open remote port' not working correctly after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, if **Advanced detection of connection state** was configured based on **Open remote port** and no network was available, the Agent was reported as online. This has been resolved.

Workspace Composer: Edge might be pinned to taskbar at every logon after installing RES ONE Workspace version 10.1 or higher

Under rare circumstances, after installing RES ONE Workspace version 10.1 or higher, Microsoft Edge might be pinned to the taskbar at every logon to a RES ONE Workspace session on a machine running Microsoft Windows 10. This has been resolved.

Workspace Composer: Environment variables not applied for intercepted applications

Consider the following scenario:

- At **Composition > Applications**, an application was configured with the following settings:
 - On the **Properties > Shortcuts** tab of the application, **If managed shortcut was not used** set to **Intercept new process and apply configuration**.
 - On the **Configuration > Actions > At application start** tab of the application, an **Environment Variable** was configured.
- A user logged on to a RES ONE Workspace session and started the application, using an unmanaged shortcut.

In this scenario, in the user session, the environment variable was not applied for the intercepted application. This has been resolved.

Workspace Composer: Error 'Application can't be started' after installing RES ONE Workspace version 10.1 or higher, if dynamic privileges were used

After installing RES ONE Workspace version 10.1 or higher, when a user attempted to start an application that was configured to use Dynamic Privileges (on the **Security > Dynamic Privileges** tab of the application), the following error could be displayed:

```
Application can't be started
```

This has been resolved.

Workspace Composer: Error 'Illegal characters in path' might occur at logon after installing RES ONE Workspace version 10.1

If an application was configured (at **Composition > Applications**) with one of the characters " < > | in the filename, after installing RES ONE Workspace version 10.1, the following error could occur during logon:

Process	pfwsmgr.exe
Procedure	Various
Error #	N/A
Error description	Illegal characters in path

Depending on other configuration, logon might fail.

These issues have been resolved.

Workspace Composer: Error 'Index out of bounds' might occur at logoff after installing RES ONE Workspace version 10.1 or higher

Under rare circumstances, after installing RES ONE Workspace version 10.1 or higher, the following error could occur at logoff:

Process	pfwsmgr.exe
Procedure	TrinitySetTasks
Error #	N/A
Error description	Index was out of bounds.

This has been resolved.

Workspace Composer: Error 'Index was out of range' might occur during Workspace refresh after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, in a user session, if the **Memory Optimization** window was open when a Workspace refresh started, the following error occurred repeatedly:

Process	pfwsmgr.exe
Procedure	frmMemoryShieldMessageBox.UpdateTasks
Error #	N/A
Error description	Index was out of range. Must be non-negative and less than the size of the collection.
Parameter name	index

This has been resolved.

Workspace Composer: Error 'Index was outside the bounds of the array' might occur during logon after installing RES ONE Workspace version 10.1

If a User Registry was configured with the following settings (at **Composition > Actions By Type > User Registry**):

Key	<ul style="list-style-type: none">HKCU\Software\Microsoft\Windows\CurrentVersion\Explorer\StuckRects2 (Windows 7/Server 2008 R2/8(.1)/Server 2012 (R2))HKCU\Software\Microsoft\Windows\CurrentVersion\Explorer\StuckRects3 (Windows 10/Server 2016)
Value	Settings
Type	REG_BINARY
Data	<empty>

, after installing RES ONE Workspace version 10.1, the following error might occur during logon:

Process	pfwsmgr.exe
Procedure	SetTaskbarFeature
Error #	N/A
Error description	Index was outside the bounds of the array

This has been resolved.

Workspace Composer: Error 'Object reference not set to an instance of an object' at logoff after installing RES ONE Workspace version 10.1 or higher

Consider the following scenario:

- At **Composition > User Settings**, on the **User Settings** tab, a User Setting was configured with the following configuration:
 - On the **Properties** tab of the User Setting, **Zero Profile mode** was set to **Capture targeted items on session end**.
 - On the **Capturing** tab of the User Setting, the **Data** field of a targeted item contained a wildcard (* or ?).

In this scenario, when a user logged of from a RES ONE Workspace session on a machine with RES ONE Workspace version 10.1 or higher installed, the following error could occur:

Process	pfwsmgr.exe
Procedure	fysnSaveUserPreferenceSettings
Error #	N/A
Error description	Object reference not set to an instance of an object

This has been resolved.

Workspace Composer: Error 'Object reference not set to an instance of an object' could occur when RES ONE Workspace Core was used after installing version 10.1 or higher

Under rare circumstances, after installing RES ONE Workspace version 10.1 or higher, the following error could occur when users logged on in an environment that used RES ONE Workspace Core:

Process	pfwsmgr.exe
Procedure	sharedAuthenticateUser.fysnCheckUSBInfo
Error #	N/A
Error description	Object reference not set to an instance of an object.

This has been resolved.

Workspace Composer: Error 'Object reference not set to an instance of an object' during logon after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, the following error might occur during login:

Process	pfwsmgr.exe
Procedure	clsDSInstance.EnumADGroups
Error #	N/A
Error description	Object reference not set to an instance of an object

This has been resolved.

Workspace Composer: Error 'Object reference not set to an instance of an object' during user session after installing RES ONE Workspace version 10.1

Consider the following scenarios:

- At **Composition > User Setting**, on the **Settings** tab:
 - **Track User Settings** was enabled.
 - **User Settings caching** was set to **Cache locally at logon, during the session, and at logoff, unless otherwise specified**.
- The **Path** that was specified for **Central storage location** (at **Composition > User Setting**, on the **Settings** tab) was not available.

or

- At **Composition > User Setting**, on the **Settings** tab:
 - **Track User Settings** was disabled.
 - **User Settings caching** was set to **Cache locally at logon, during the session, and at logoff, unless otherwise specified**.

In this scenario, after installing RES ONE Workspace version 10.1, the following error might occur shortly after logon:

Process	pfwsmgr.exe
Procedure	frmTaskbar.CheckUSSyncOnIntervalMMF
Error #	N/A
Error description	Object reference not set to an instance of an object

This has been resolved.

Workspace Composer: Error 'startIndex cannot be larger than length of string' at logon after installing RES ONE Workspace version 10.1

Consider the following scenario:

- At **Composition > Actions By Type > Files and Folders > User Home Directory or User Profile Directory**, on the **Actions** tab, an action was configured with the following settings on the **Properties** tab of the object:
 - For **Object**, a folder was selected.
 - For **Alias**, \ was entered.
- A user logged on to a RES ONE Workspace session on a machine running RES ONE Workspace version 10.1

In this scenario, the following error might occur during logon:

Process	pfwsmgr.exe
Procedure	ProcessModelDirRules
Error #	N/A
Error description	startIndex cannot be larger than length of string
Parameter name	startIndex

This has been resolved.

Workspace Composer: Error 'Subscript out of range' could occur at logoff

Under rare circumstances, the following error could occur during logoff:

Process	pfwsmgr.exe
Procedure	modEnd.CheckSaveUserPreference
Error #	9
Error description	Subscript out of range

This has been resolved.

Workspace Composer: Error 'The system cannot find the file specified' if path for shortcut was not available, after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, if the path in the **Command line** of an application (at **Composition > Applications**, on the **Properties > General** tab of the application) was not available, the following error was displayed to the user:

Process	pfwsmgr.exe
Procedure	PinManager.CheckAndResolveShortcut
Error #	N/A
Error description	The system cannot find the file specified. (Exception from HRESULT 0x80070002)

Also, the application shortcut could not be used. This has been resolved.

Now, in this scenario, the shortcut still cannot be used, but the error will only be logged to the common error log (at **Diagnostics > Errors**).

Workspace Composer: Errors might occur when opening Word file from Windows explorer after installing RES ONE Workspace version 10.1

Consider the following scenario:

- At **Composition > Applications**, an application was configured for Microsoft Word, with the following settings:
 - On the **Properties > File Types** tab of the application, for the **Type doc**, the application was associated with the **Command open**.
 - The application was **Registered as default command for this file type** (in the **Add/Change File Type** window).
- A user logged on to a RES ONE Workspace session on a machine with RES ONE Workspace version 10.1 and Microsoft Word installed.
 - Using the Microsoft Windows Explorer, the user browsed to a path that contained Unicode characters (for example —, also known as an Em-dash) and opened a DOC file.

In this scenario, in the user session, several Windows error messages were displayed:

The directory name is not valid, followed by one or more The file could not be found messages.

This has been resolved.

Workspace Composer: Exclusion of folder tree for User Settings might not work

If an exclusion of a **Folder tree** was configured for a User Setting (on global level at **Composition > User Settings**, or on application level at **Composition > Applications**, on the **User Settings** tab of an application), the exclusion might not be applied in user sessions. This has been resolved.

Workspace Composer: Execute Command containing Visual Basic-script not executed correctly after installing RES ONE Workspace version 10.1

After installing RES_P> version 10.1, Execute Command actions that contained Visual Basic-scripts might not be executed correctly. This has been resolved.

For more information about using scripts in Execute Command actions, please refer to the RES ONE Workspace Help.

Workspace Composer: Execute Command with Dynamic Privileges might not be visible after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, **Execute command** actions with the option **Run using Dynamic Privileges** enabled were not visible when run from a mapped (network) drive. This has been resolved.

Workspace Composer: Expanding list in Printers.lst not possible after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, if a `Printers.lst` file was used to present a list of printers, clicking **Connect** in the **Printing Preferences** tool displayed only the top-level of the list and users were unable to expand the list of printers. This has been resolved.

For more information about how to configure a `Printers.lst` file, please refer to the RES ONE Workspace Administration Guide.

Workspace Composer: Explorer might start with every application after installing RES ONE Workspace version 10.1.300.x

Consider the following scenario:

- At **Composition > Applications**, on the **Settings** tab, **Windows Shell shortcut creation** was set to **Replace all unmanaged shortcuts**.
- A user logged on to a RES ONE Workspace session on a machine with the RES ONE Workspace registry value `StartWithShortcut` set to `No`.

In this scenario, for every application that the user started, `explorer.exe` started as well. This has been resolved.

Workspace Composer: File might be opened with incorrect application on Windows 10 (build 1703) if multiple associations were configured

Consider the following scenario:

- At **Composition > Applications**, two applications were configured.
 - On the **Properties > File Types** tab of both applications:
 - for example, `PDF` was configured as a file type for the Command `Open`.
 - at **Assigned priority if associations conflict**, one of the applications (for example Foxit Reader) was listed at the top. The other application (for example Adobe Reader), was listed below that.
- A user logged on to a RES ONE Workspace session on a machine running Microsoft Windows 10 (build 1703), and opened a PDF file.

In this scenario, in the user session, the file was opened using Adobe Reader. This has been resolved.

Now, in this scenario, Foxit Reader will be used to open the file.

Workspace Composer: Folder redirection not working on Windows 10 after installing RES ONE Workspace version 10.1

Consider the following scenario:

- At **Composition > Actions By Type > Files and Folders > Folder Redirection**, redirections were configured for the Windows folders **Documents**, **Downloads**, **Music**, **Pictures** or **Videos**.
- A user logged on to a RES ONE Workspace session on a machine running Microsoft Windows 10 with RES ONE Workspace version 10.1 installed.
 - The user opened the Windows File Explorer.
 - From the **This PC** section, the user opened the shortcut to one of the folders for which a redirection was configured.

In this scenario, in the user session, the shortcut pointed to the local folder instead of to the redirected location. This has been resolved.

Workspace Composer: Idle timeout for application licensing might not be applied after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, the **Idle timeout in minutes** for application licensing (at **Composition > Applications**, on the **Properties > Licensing** tab of an application) might not be applied in user sessions. This has been resolved.

Workspace Composer: Incorrect message that the default printer cannot be found after upgrading to RES ONE Workspace version 10.1 or higher

After upgrading to RES ONE Workspace version 10.1 or higher, in a user session with a default printer available, incorrectly a message was displayed that the default printer cannot be found. This has been resolved.

Workspace Composer: Initiating logoff caused Start menu to appear on Windows 10

When a user initiated a logoff from a RES ONE Workspace session on a machine running Microsoft Windows 10, the Start menu (re)appeared. This has been resolved.

This issue could give users the impression that the logoff did not start, especially if **Hide main splash screen at session start, end and refresh** was enabled (at **Composition > Desktop > Lockdown and Behavior**, in the **Workspace Composer** section).

Workspace Composer: Intercepted application might not start after installing RES ONE Workspace 2015 Revision 5 or higher

Consider the following scenario:

- At **Composition > Applications**, an application, for example Ariba, was configured with the following settings:
 - On the **Properties > Shortcuts** tab of the application, **If managed shortcut was not used** was set to **Intercept new process and apply configuration**.
 - On the **Properties > Settings** tab of the application, **Startup style of application** was set to **Normal**.
- A user logged on to a RES ONE Workspace session on a machine running RES ONE Workspace 2015 revision 5 or higher, and started the application.

In this scenario, in the user session, the application might not start. This has been resolved.

Workspace Composer: "Lock desktop" and "Show tasklist" icons not available in system tray after installing RES ONE Workspace version 10.1

Consider the following scenario:

- At **Composition > Applications**, on the **Settings** tab, **Windows Shell** shortcut creation was set to **Replace all unmanaged shortcuts**.
- At **Composition > Desktop > Shell**, the option **Use Microsoft Windows Shell as the default shell** was selected.
- At **Composition > Desktop > Lockdown and Behavior**, in the **Start Menu and Taskbar** section, the following options were not selected:
 - **Hide "Lock desktop" icon in system tray**
 - **Hide "Show tasklist" icon in system tray**
- A user logged on to a RES ONE Workspace session on a machine running RES ONE Workspace version 10.1.

In this scenario, in the user session, the "Lock desktop" and "Show tasklist" icons were not available in the system tray. This has been resolved.

Workspace Composer: Microsoft Fixmapi could stop working when 'Send to > Mail recipient' was used

Consider the following scenario:

- At **Composition > Applications > E-mail Settings**, an e-mail setting for Microsoft Exchange was configured, with **Use Autodiscover** enabled.
- At **Composition > Applications**, an application was configured for Microsoft Outlook.
 - On the **Configuration > E-mail Settings** tab of the application, the e-mail setting for Microsoft Exchange was selected.
- A user logged on to a RES ONE Workspace session on a machine with Outlook 2013 or 2016 installed.
 - The user right-clicked on a file and, from the context menu, selected the Microsoft Windows option **Send to > Mail recipient**.

In this scenario, in the user session, Microsoft Fixmapi could stop working. This has been resolved.

Please note, that this issue may or may not display the following message to the user:

```
FIXMAPI 1.0
```

```
MAPI Repair Tool has stopped working
```

An error will always be written to the Windows Application Log.

Workspace Composer: New Microsoft Excel file opened behind already open Excel file after installing RES ONE Workspace 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, in RES ONE Workspace sessions with the RES ONE Workspace registry value `AllowExcelMinimized` set to `Yes` and with Microsoft Excel 2013 or higher, if an Excel file was open and the user opened another Excel file, the second file opened behind the first file. This has been resolved.

Workspace Composer: No taskbar icons after installing RES ONE Workspace version 10.1 if OS language was changed using a User Registry

At **Composition > Actions By Type > User Registry**, if a **User Registry** was configured that changed the default language of the Windows OS, when users logged on after installing RES ONE Workspace version 10.1 or higher, no taskbar icons were present in the user session. This has been resolved.

Workspace Composer: Office files might not be returned in results of Windows Search when configured as File Type

At **Composition > Applications > File Types**, if a Microsoft Office file type (DOCX, XLSX, etc.) was listed, the contents of files of that type were not searched by Windows Search and the files might not be returned in the results. This has been resolved.

Workspace Composer: Online-only shortcut not appearing on desktop after switching from offline to online

Consider the following scenario:

- At **Composition > Applications**, on the **Settings** tab:
 - **Windows Shell shortcut creation** was set to **Replace all unmanaged shortcuts**.
 - **Do not show online applications when computer is offline** was enabled.
- At **Composition > Applications**, an application was configured with the following settings:
 - On the **Properties > Shortcuts** tab of the application, in the **Automatic shortcuts** section, **Desktop** was set to **Set voluntary shortcut**.
 - On the **Properties > Settings** tab of the application, **Required connection state** was set to **Online connection**.
- At **Composition > Desktop > Lockdown and Behavior**, in the **Workspace Composer** section, **Do not refresh Workspace when network connectivity changes** was not enabled.
- A user had added a shortcut for the application to the desktop, using the **Workspace Preferences** tool.
 - The user logged on to a RES ONE Workspace session in an offline connection state.
 - The session switched to an online connections state, triggering a Workspace refresh.

In this scenario, after the Workspace refresh in the user session had finished, the shortcut for the application did not appear on the desktop. This has been resolved.

Workspace Composer: Pinned tiles might not be created properly on Microsoft Windows 10 (build 1703) and Server 2016

In RES ONE Workspace sessions running on Microsoft Windows 10 (build 1703 or higher) or Server 2016, tiles that were pinned to the Start screen might not be created properly, especially if the policy **Turn off Microsoft Consumer Experience** was enabled. This has been resolved.

For the resolved issue to work properly, it is required to have the latest Microsoft Windows updates installed on your system.

The Microsoft Windows policy **Turn off Microsoft consumer experiences** can be enabled in the Microsoft Windows Group Policy Editor, at **Computer Configuration > Administrative Templates > Windows Components > Cloud Content**.

Workspace Composer: Pinned tiles might not be created properly on Microsoft Windows 8.1 or Server 2012 R2 after installing RES ONE Workspace version 10.1 or higher

In RES ONE Workspace sessions running on Microsoft Windows 8.1 or Server 2012 R2, after installing RES ONE Workspace version 10.1 or higher, tiles that were pinned to the Start screen might not be created properly, especially if a mandatory user profile was used.

Workspace Composer: Pinned Universal Windows Platform apps disappeared from taskbar at next logon

If **Windows Shell shortcut creation** was set to **Merge with unmanaged shortcuts**, when users pinned Universal Windows Platform apps to the taskbar, these pins disappeared at the next logon. This has been resolved.

Workspace Composer: Position of icons on desktop might be lost after installing RES ONE Workspace version 10.1.100.0 or higher

After installing RES ONE Workspace version 10.1.100.0 or higher, the position of icons on the desktop might be lost when a user logged on to a RES ONE Workspace session on a machine running Microsoft Windows 8.1 or Server 2012 R2. This has been resolved.

Workspace Composer: Printer information not displayed in Printing Preferences after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, when the **Printing Preferences** tool was opened, not all information was displayed for the printer that was initially selected. This has been resolved.

Workspace Composer: Pwrgrid.exe crashed at first logon if 'Discover new file hashes' was used after installing RES ONE Workspace version 10.1 or higher

Consider the following scenario:

- At **Security > Applications > Managed Applications**, on a Workspace exception for `Container 1` (as an example), **Discover new file hashes** was enabled.
- A user logged on to a RES ONE Workspace session on a machine with RES ONE Workspace version 10.1 or higher installed.
 - The session was part of the Workspace Container `Container 1`.

In this scenario, if this was the first logon on the machine after enabling **Discover new file hashes**, `pwrgrid.exe` crashed. This has been resolved.

Workspace Composer: Reconnecting to VMware Horizon View session could result in disconnect after a few seconds

If a user reconnected to a VMware Horizon View session on a machine with the RES ONE Workspace registry value `ForceDisconnectOnIdle` configured, the session could be disconnected again after a few seconds. This has been resolved.

For more information about `ForceDisconnectOnIdle`, please refer to the RES ONE Workspace Administration Guide.

Workspace Composer: Refresh might cause redirected Start Menu to be incomplete after installing RES ONE Workspace version 10.1

Consider the following scenario:

- At **Composition > Applications**, on the **Settings** tab, **Windows Shell shortcut creation** was set to **Replace all unmanaged shortcuts**.
- At **Composition > Action By Type > Files and Folders > Folder Redirection**, the Windows folder **Start Menu** was redirected to a network location.
- A user logged on to a RES ONE Workspace session on a machine running Microsoft Windows 7 or Server 2008 R2, with RES ONE Workspace version 10.1 installed.
 - Using the shortcut in the Start Menu, the user initiated a Workspace refresh.

In this scenario, after the refresh had finished in the user session, the contents of the Start Menu might not be complete. This has been resolved.

Workspace Composer: Refresh Workspace when reconnecting to a session did not always work after installing RES ONE Workspace version 10.1 or higher

If the option **Do not refresh Workspace when reconnecting to a session** (at **Composition > Desktop > Lockdown and Behavior**, in the **Workspace Composer** section) was not selected, after installing RES ONE Workspace version 10.1 or higher, reconnecting to a session did not always trigger a Workspace refresh. This has been resolved.

Workspace Composer: Saving User Settings might take longer after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, saving User Settings that were configured to **Keep settings for user per device** might take longer than before. This has been resolved.

Now, the time it takes to save these User Settings is back to the level of RES ONE Workspace version 10.0.

Workspace Composer: Session started on desktop instead of Start screen on Windows 8.1 / Server 2012 R2 after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, if the option **Go to the desktop instead of the Windows 8 Start screen after logon** was not selected, RES ONE Workspace sessions still started on the desktop instead of the Start screen on Microsoft Windows 8.1 / Server 2012 R2. This has been resolved.

Workspace Composer: Session could become unresponsive after installing RES ONE Workspace version 10.1 or higher

Under rare circumstances, after installing RES ONE Workspace version 10.1, the Workspace Composer could end up in an endless loop, causing the user session to become unresponsive. This has been resolved.

Workspace Composer: 'Shortcut keys' not working after installing RES Workspace Manager 2014 SR3 or higher

If a user configured a custom 'Shortcut key' for a shortcut, after installing RES Workspace Manager 2014 SR3 or higher, this 'Shortcut key' did not work anymore when the user logged on to a new session or if a workspace refresh occurred. This has been resolved.

'Shortcut keys' are configured using standard Microsoft Windows functionality, in the properties of a shortcut.

Workspace Composer: Shortcuts on Windows 10 desktop no longer used localized names in 'Replace' mode

In RES ONE Workspace sessions on machines running Microsoft Windows 10, if **Windows Shell shortcut creation** was set to **Replace all unmanaged shortcuts** (at **Composition > Applications**, on the **Settings** tab), shortcuts on the desktop no longer used localized names. Instead, English names were used. This has been resolved.

Workspace Composer: Special characters in Outlook signature not displayed correctly after installing RES ONE Workspace version 10.1

Consider the following scenario:

- At **Composition > Applications > E-mail Settings**, an E-mail Setting for an **Outlook Signature** was configured.
 - In the **Configure Feature - Outlook Signature** window, in the **Signature** section, an `$adinfo` property was used.
- At **Composition > Applications**, Microsoft Outlook was configured as an application.
 - On the **Configuration > E-mail Settings** tab of the application, the **Outlook Signature** was added to the **Selected E-mail Settings**.
- A user logged on to a RES ONE Workspace session on a machine running RES ONE Workspace version 10.1.
 - The user started Outlook, and created a new e-mail.

In this scenario, in the user session, if the `$adinfo` property for the user contained special characters (for example `é`, `à`, `ö`, `ç`, etc.), these characters were not displayed correctly in the e-mail. This has been resolved.

Workspace Composer: 'Terminate application if running application is no longer authorized' might not work after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, if **Managed Application Security** based on file hashes was enabled and the **Default behavior if running application is no longer authorized** was set to **Terminate application**, a running application was not terminated if the file hash for the application executable was no longer allowed. This has been resolved.

Managed Application Security can be configured at **Security > Applications > Managed Applications**.

Workspace Composer: Unable to logon on machine with registry value 'SpecialFoldersFromRegistry' and Office 2016 installed if App-V 5.x was not available

Consider the following scenario:

- A user tried to log on to a RES ONE Workspace session on a machine running RES ONE Workspace version 10.1 or higher. On the machine:
 - the RES ONE Workspace registry value `SpecialFoldersFromRegistry` was set to `Yes`.
 - Microsoft Office 2016 was installed.
 - Microsoft App-V 5.x was not installed or enabled.

In this scenario, the user was unable to logon and the Workspace Composer crashed. This has been resolved.

Workspace Composer: Unexpected copyright remark added under Outlook Signature after installing RES ONE Workspace version 10.0 or higher

After installing RES ONE Workspace version 10.0 or higher, if an **Outlook Signature** was created or changed (at **Composition > Applications > E-mail Settings**), the following remark was added at the bottom of the HTML version of the e-mail signature:

```
The copyright string has probably changed; the code needs to be modified  
C:\AR2\Source\ActRpt\process.cpp 404
```

This has been resolved.

Workspace Composer: Unexpected 'System Tools' folder might be displayed on Start screen of Windows 8.1 / 2012 R2

Consider the following scenario:

- At **Composition > Applications**, on the **Settings** tab, **Windows Shell shortcut creation** was set to **Replace all unmanaged shortcuts**.
- At **Composition > Desktop > Lockdown and Behavior**:
 - in the **Windows Explorer** section, **Hide my Computer Icon** was not selected.
 - in the **Microsoft Windows Shell** section, **Enable Windows 8.1 Start Menu (Windows 8.1 / 2012 R2)** was selected.
- A user logged on to a RES ONE Workspace session on a machine running Microsoft Windows 8.1 or Server 2012 R2.

In this scenario, in the user session, a 'System Tools' folder containing a shortcut for 'This PC' was visible in the Workspace Start Menu and the Windows Apps screen.

To resolve this issue, set the following registry value:

Key	<ul style="list-style-type: none">• HKLM\Software\RES\Workspace Manager (32-bit)• HKLM\Software\Wow6432Node\RES\Workspace Manager (64-bit)
Value	HideSystemTools
Type	REG_SZ
Data	Yes

Workspace Composer: Unexpected Workspace refresh might occur when adding a printer manually in Windows 10

Consider the following scenario:

- At **Composition > Desktop > Lockdown and Behavior**, in the **Workspace Composer** section, **Do not refresh Workspace when network connectivity changes** was not selected.
- A user logged on to a RES ONE Workspace session on a machine running Microsoft Windows 10.
 - The machine was equipped with an (enabled) WiFi network adapter, but was not connected to a WiFi network.
 - Using the default Windows 10 functionality **Add printers & scanners**, the user added a printer.

In this scenario, in the user session, a Workspace refresh occurred. This has been resolved.

Workspace Composer: Unmanaged default printer might not be restored by User Settings after installing RES ONE Workspace version 10.1 or higher

Consider the following scenario:

- At **Composition > User Settings**, a User Setting was configured to capture the registry tree `HKEY_CURRENT_USER\Printers\Connections`.
- A `Printers.lst` file was used to present available printers in the **Printing Preferences** tool.
- A user logged on to a RES ONE Workspace session on a machine with RES ONE Workspace version 10.1 or higher installed.
 - The user set an unmanaged printer as default, using the **Printing Preferences** tool.

In this scenario, at the next logon of the user, the unmanaged printer was not connected and no default printer was set. This has been resolved.

For more information about how to configure a `Printers.lst` file, please refer to the **Workspace Control Administration Guide**.

Workspace Composer: Unmanaged printers disconnected after installing RES ONE Workspace version 10.1 or higher, even though 'skip unmanaged printers' was selected

If the option **skip unmanaged printers** was selected for **Disconnect network printers** (at **Composition > Actions By Type > Printers**, on the **Settings** tab), after installing RES ONE Workspace version 10.1 or higher, unmanaged printers were still disconnected from user sessions. This has been resolved.

Workspace Composer: USB storage device not immediately blocked by Removable Disk Security

Consider the following scenario:

- At **Security > Data > Removable Disks**, on the **Settings** tab, **Removable Disks Security** was enabled.
- At **Composition > Desktop > Lockdown and Behavior**, in the **Workspace Composer** section, the option **Refresh Workspace on USB storage device change** was enabled.
- A user logged on to a RES ONE Workspace session and inserted a USB storage device, triggering a Workspace refresh.

In this scenario, in the user session, the user was able to access the USB storage device before and during the Workspace refresh. This has been resolved.

Workspace Composer: User Profile Directory actions not always executed after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, **User Profile Directory** actions that were configured to **Always copy**, were not always executed. This was especially likely for INI files that did not contain Unicode characters.

If an action was not executed, the following error was logged to the **User Event Log**:

```
ERROR: copy failed The file '<path to file>' already exists.
```

This has been resolved.

User Profile Directory actions can be configured at global level (at **Composition > Actions By Type > Files and Folders > User Profile Directory**) and at application level (at **Composition > Applications**, on the **Configurations > Actions** tab of an application).

Workspace Composer: User Registry actions containing XML-data not applied correctly after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, **User Registry** actions (at **Composition > Actions By Type > User Registry**) that contained XML-data were not applied correctly in user sessions. This has been resolved.

Workspace Composer: User Registry Policy 'Site to Zone Assignment List' not applied after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, the User Registry Policy *Site to Zone Assignment List* (configured at **Composition > Actions By Type > User Registry**) was not applied in user sessions. This has been resolved.

Workspace Composer: User Settings cached on terminal servers after installing RES ONE Workspace version 10.1 or higher

At **Composition > User Settings**, on the **Settings** tab, if **User Settings caching** was set to **Cache locally(...)**, after installing RES ONE Workspace version 10.1 or higher, User Settings were cached on Microsoft RDS and Citrix XenApp terminal servers. This has been resolved. Now these servers are automatically excluded from User Settings caching.

Workspace Composer: User Settings, restorable by users, not applied if previous session ended non-gracefully

At **Composition > User Settings**, on the **Properties** tab of a User Setting, if the option **Allow end users to: Restore settings from previous session(s)** was selected, and a user's session ended non-gracefully, the User Setting was not applied in the next session of that user. This has been resolved.

This is an improved version of the change that was released in RES ONE Workspace version 10.0.400.0.

Workspace Composer: Users might be prompted to select default program for configured File Types on Windows 10 version 1703

Consider the following scenario:

- At **Composition > Applications**, an application was configured, for example Adobe Reader.
 - On the **Properties > File Types** tab of the application, for example PDF was configured as a file type for the Command `Open`.
- A user logged on to a RES ONE Workspace session on a machine running Microsoft Windows 10 version 1703, and opened a PDF file.

In this scenario, in the user session, the following message might be displayed to the user:

```
How do you want to open this file?  
Keep using this app
```

This has been resolved.

Workspace Composer: Variables stored in User Settings might be restored incorrectly after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, if a stored User Setting contained a variable that was wrapped in double percent-signs (%%), this variable was restored incorrectly.

Example:

The stored registry (REG_SZ) value %%APPDATA%% was restored as %<resolved APPDATA path>%.

This has been resolved.

Now, in this scenario, the value is restored as %%APPDATA%%.

Workspace Composer: Voluntary tiles on Windows Start screen might reappear at next logon after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, if a user removed voluntary tiles from the Start screen on Microsoft Windows 8.1 or Server 2012 R2, these tiles might reappear at the next logon. This has been resolved.

Workspace Composer: Website security not working as expected if configured differently for various locations

At **Security > Applications > Websites**, if **Website Security** was configured differently for various locations (e.g. disabled for in the office, enabled with specific rules for any location outside the office), website security did not work as expected when roaming between configured locations. This has been resolved.

To resolve this issue, the RESFNLT driver has been updated.

Workspace Composer: 'When offline/online, start a specific application' might not work after installing RES ONE Workspace version 10.1 or higher

Consider the following scenario:

- At **Composition > Applications**, on the **Settings** tab, one of the following options was enabled:
 - **When offline, start a specific application () instead of full desktop**
 - **When online, start a specific application () instead of full desktop**
- In the **Offline/Online Application Properties** window, the option **Launch before other actions** was selected.

In this scenario, after installing RES ONE Workspace version 10.1 or higher, the configured application did not start. This has been resolved.

Workspace Composer: White custom icons when Desktop folder was redirected and 'LocalCachePath' was used

Consider the following scenario:

- At **Composition > Applications**, an application was configured with a high-quality custom icon (on the **Properties > General** tab of the application).
- The Windows folder **Desktop** was redirected to a network location, for example by configuring a redirection at **Composition > Actions By Type > Files and Folders > Folder Redirection**.
- On 'Computer 1' the registry value `LocalCachePath` was set to, for example, `D:\RES\Cache`. This registry value was not set on 'Computer 2'.
- The user logged on to a RES ONE Workspace session on 'Computer 1'.
- The user then also logged on to a RES ONE Workspace session on 'Computer 2'.

In this scenario, in the user session on 'Computer 1', the custom icon of the application changed to a white rectangle. This has been resolved.

Workspace Composer: White icons when restarting the RES service if 'LocalCachePath' was used after installing RES ONE Workspace version 10.1

After installing RES ONE Workspace version 10.1, if the RES ONE Workspace registry value `LocalCachePath` was used, shortcuts that were created by RES ONE Workspace turned white when the RES service was restarted. This has been resolved.

For more information about the registry value `LocalCachePath` (and possible companion value `LocalCacheOnDisk`), please refer to the RES ONE Workspace Administration Guide.

Workspace Composer: Zones based on IP address might not be applied correctly after installing RES ONE Workspace version 10.1 or higher

After installing RES ONE Workspace version 10.1 or higher, Zones that were based on an **IP address (range)** might not be applied correctly in user sessions. This has been resolved.

This issue is known to affect, but may not be limited to, Dell Wyse 3040 thin clients.

Relay Servers: Resolved Issues

Relay Servers: Not possible to configure or edit Relay Servers in Console after upgrading to RES ONE Workspace 10.1 or higher in environment with Silver or Bronze (Extended) Edition

After upgrading to RES ONE Workspace 10.1 or higher, at **Administration > Relay Servers**, on the **Relay Servers** tab, it was not possible to configure new or edit existing Relay Servers in environments with a Silver or Bronze (Extended) Edition. This has been resolved.

Relay Servers: Options 'Force Cache Update', 'Suspend' and 'Resume' could not be executed from RES ONE Workspace Console

At **Administration > Relay Servers**, on the **Relay Servers** tab, the options **Force Cache Update**, **Suspend** and **Resume** could not be executed for Relay Servers in the list. This has been resolved.

Please note that if you did not start the Console with 'Run as Administrator', executing the options described above will trigger an UAC prompt that must be confirmed by the administrator.