RES ONE™ WORKSPACE
Module Capability Matrix

FEATURE	CORE	COMPOSITION	SECURITY	GOVERNANCE
RES Reporting — With RES Reporting you can analyze the data in your RES ONE Workspace, RES ONE Identity Director, and RES ONE Automation environments. This helps you to, for instance, determine the most used applications, most frequently requested services, and most run jobs. It also allows you to find out the number of unused licenses and provides you with performance data of the different RES products.				✓
Locations and Devices — Access Control can be based on the location where and the device on which a user session is started. This allows you to create Zones that can only be accessed if the rules that specify these Zones are met. You can base Zone rules on various criteria, such as Active Directory sites, IP-addresses, computer names, hardware requirements, environment variables, operating system versions, USB storage device serial numbers, etc. You can apply Zones to applications, printers, configuration settings, Workspace Containers, administrative roles, etc.	✓	✓	✓	✓
Web-based Management Portal — Workspace analysis and logging capabilities that allow IT service desks to easily troubleshoot and monitor the workspace.		✓		
Workspace Composer — Support for Server 2016, the Workspace Composer can be run as an endpoint in remote desktop services and Citrix XenApp scenarios. This enables all Workspace components to be run on Server 2016. Configuration for Linux and Mac OS X is supported. The Run Workspace Composer setting for an Agent can be changed.		✓		
Usage Reporting — Web-based feature that creates documentation of any part of the Management Consoles with one click to export to PDF. This helps save time for administrators and provides essential documentation for both internal and external use, including: most and least used applications, most and least visited websites and log-on performance.				✓

Feature				
Audit Tacking — Web-based feature that allows you to leverage log reports for auditors to prove access and policy controls are in place, and to determine where data is or is not accessed.				✔
Building Blocks — Makes changes predictable by guaranteeing repeatable results in test, accept and production environments. Allows encapsulation of best practices, which results in quicker turnaround times during implementation. Allows easy transportation of configuration settings from one RES ONE Workspace environment to another. A building block stores all properties of a setting or feature in an XML file.	✔	✔	✔	✔
Data Sources — Data Sources technology makes it possible to define the data source using a simple Wizard in the Management Console and then link the applications that need to connect to it. When the user starts the application, the database connections will automatically be set up and made available for the application. This makes it flexible, fast, and reliable to create data sources.	✔	✔	✔	✔
User Settings — Usually, users can change certain settings in a session, such as their default printer, or the view in which an application should open. In many environments, however, such changes are lost when the user logs off. This is particularly the case if mandatory profiles are used, or if roaming profiles are used in combination with pass-through applications in a Citrix XenApp environment. User Settings make it possible to preserve changes that users make to certain settings, files and folders during a session. These User Settings are stored in the user's home folder, and are restored automatically when required. These settings are applied globally in Core. For all other modules more granular user settings can be applied.	✔	✔	✔	✔
Workspace Containers — Organizes applications, configuration, security and other settings in logical containers. There are many ways to organize a complex Windows® environment (e.g. terminal servers, laptops, desktops). Simplifies administration of heterogeneous desktop infrastructures.	✔	✔	✔	✔
Integration with RES ONE Products — Allows integration with RES ONE Service Store services in RES ONE Workspace, and uses them as access principle when configuring Access Control for objects. RES ONE Automation Integration allows you to run specific Automation Tasks in the user workspace, such as context-aware, on-demand installation of software or the creation of user profiles.	✔	✔	✔	✔

Workspace Extensions — Virtual Desktops (VDI) and Terminal Services (Microsoft and Citrix XenApp) offer remote desktops. Workspace Extension enhances a remote desktop with locally running applications by merging both desktops into a single workspace. Workspace Extensions eliminates the need to switch between a local and remote desktop. It also enables management and control of access to local applications as well as Terminal Server and VDI applications from one central point.	✓	✓	✓	✓
Application Virtualization Integration — Configuring and securing virtualized applications is more complex than configuring and securing traditional applications. RES ONE Workspace eliminates this complexity by launching a helper process from within the virtual application environment. This helper process makes configuration changes in the virtual environment (such as registry settings) as easy as in traditional environments. Integration is provided for Citrix XenApp, Microsoft App-V and Thinstall.	✓	✓	✓	✓
Citrix XenApp Application Publishing — Citrix XenApp Publishing makes it possible to create and manage Citrix XenApp published applications directly from the RES ONE Workspace Console. Users can run Citrix XenApp published applications side-by-side with their local applications, as if they were running on the user's local computer. RES ONE Workspace supports Citrix XenApp Integration for MetaFrame XP and later.	✓	✓	✓	✓
TS RemoteApps Integration — Microsoft RDS/TS RemoteApp makes it possible to create and manage RDS/TS RemoteApps applications directly from the RES ONE Workspace Console. Users can run Microsoft RDS/ TS RemoteApp applications side-by-side with their local applications, as if they were running on the user's local computer.	✓	✓	✓	✓
Microsoft System Center — Microsoft System Center ConfigMgr allows you to distribute, configure and manage software across virtual, distributed and mobile environments. With Microsoft System Center ConfigMgr Integration enabled in RES ONE Workspace, it is possible to install an application when the user clicks the application shortcut.	✓	✓	✓	✓
Virtual Desktop Extender (VDX) Integration — Allows IT to determine which local applications are accessible through RES VDX. Also allows IT to centrally manage the configuration of RES VDX reverse seamless technology. Simplifies the management of local applications and RES VDX.	✓	✓	✓	✓
Workspace Analysis — Previews a user's workspace. It shows all applied configuration, desktop settings, accessible applications, security events and configuration errors for a specific user. Decreases resolution times for helpdesks, in turn, decreasing workload.	✓	✓	✓	✓

Feature				
Instant Reports — Creates documentation of any part in Management Console with a single click. Documentation can be exported to PDF. Saves valuable time for the administrator. Provides essential documentation for internal and external use.	✓	✓	✓	✓
Workspace Designer — Provides clear insight in how existing (unmanaged) desktops are used. Assists in designing user workspaces by analyzing data taken from the Desktop Sampler. Decreases implementation time of user workspaces and increases quality of the implementation.	✓	✓	✓	✓
Session Actions — Session actions make it possible to apply configuration changes in the end-user session for a predefined allocation of users without the need for complex scripting. The following settings can be controlled: Drive and Port Mappings, Drive Substitutes, Home Directory actions, Profile Directory actions, Printers, User Registry settings, User Registry policies, Commands, RES ONE Automation Tasks and Environment Variables.	✓	✓	✓	✓
Folder Synchronization — Session-Based: As a result of growing mobile workforces, there is an increasing need for offline access to data. If copying of data is not performed automatically, there is a risk of data loss. Folder Synchronization makes it possible for IT administrators to set up and execute synchronization of local and network folders, to download files and folders from the network to local computers and to upload local files and folders to the network.	✓	✓	✓	✓
Connection State — RES ONE Workspace uses the IP address of the local network connection to determine the connection state of the computer. If no IP address is available, an 'offline' connection state will be assumed. Connection State Advanced pings a list of hosts for a specific zone to determine the Connection State of the computer. This method is smarter than using the IP address of the local network connection.		✓	✓	✓
Date and Time — The Date and Time feature makes it possible to set a start and/or end date on access to a managed application. For example, a project-specific application can become available on the start date of the project. Weekly restrictions make it possible to limit application availability to a recurring pattern per week. For example, only during lunch breaks, working hours, or outside of maintenance windows.		✓	✓	✓
Advanced Locations and Devices — The Zone rules "Connected network (SSID)" and "Nearest Access Point (BSSID)" provide excellent ways to determine the location of roaming users and dynamically give access to the right services. Use these Zone rules to apply policies and give or prohibit access to resources (such as printers and applications) based on wireless network names or on wireless access point signal strength.		✓	✓	✓

Override Feature Properties — The properties of a workspace feature can be overridden for specific Workspace Containers. This capability is essential for supporting hybrid desktop environments and different types of users.	✓	✓	✓
Advanced Workspace Containers — Apply an additional layer of security to desktops by securing your workspace containers with access control. Access control criteria for workspace containers can be based on groups, users, administrative roles, languages and zones. Many applications, configuration settings and other objects can be secured with access control and workspace control. You can attach a configuration setting that is restricted for a specific workspace container to an application that is accessible to all workspace containers. This allows you to configure applications that behave differently, depending on the workspace container that applies to the user.	✓	✓	✓
Workspace Preferences, Printing Preferences and PowerHelp — Workspace Preferences allows users to customize their desktop and workspace. Printing Preferences provides users with simple printer-related information and a Printer Management console. Only user-related printers are shown. Users can manage their documents and prints by clicking the Open button in Printing Preferences.	✓	✓	✓
Directory Services Integration —A directory service is used to store information about resources (such as printers), services (such as e-mail) and users in a network. The directory service provides information on these objects, organizes them, and provides authentication and validation. A well planned and well maintained directory service reflects the hierarchical and functional structure of an organization and is a powerful tool in the delivery of applications and resources to users. RES ONE Workspace supports Microsoft Windows NT Domains, Microsoft Active Directory Services, Novell Directory Services and Workgroup scenarios.	✓ (in addition to column shown)		
Administrative Roles — Administrative Roles allow granular delegation of control in the Management Console. Users, groups, OUs, and zones can be assigned to read or modify specific parts of the Management Console. Administrative Roles can also be used to allow access to specific applications.	✓	✓	✓
Workspace Branding — Use the Workspace Branding feature to place your organization's own logo and matching progress bar color in RES ONE Workspace splash screens and Management Console.	✓	✓	✓
Audit Trail — Audit Trail provides detailed information on changes made on objects in RES ONE Workspace. This detailed information includes: date/time, type of object, action, name of object, user, computer and client.	✓	✓	✓

Note for the Directory Services Integration row: there is an additional checkmark present in the first (leftmost) value column, followed by checkmarks in all three remaining columns.

Feature			
E-mail Settings — E-mail Settings makes it possible to preconfigure and manage various mail profiles for all users from a single point of administration, without any programming or scripting. E-mail Settings also handles e-mail signatures for Microsoft Outlook. This enables control over legal disclaimers and corporate identity in e-mails.		✓	
App Level User Settings — In Core, User Settings are available at session level, and can be configured to store specific parts of the registry or profile directory and apply the stored settings at logon. In the Composition module, User Settings are also available at application level, and there are additional Zero Profile modes to preserve changes in real time using a set and forget approach.		✓	
Actions — Application actions make it possible to apply configuration changes in the end-user session for a predefined allocation of users without the need for complex scripting. The following settings can be controlled: Drive and Port Mappings, Drive Substitutes, Folder Synchronization, Home Directory actions, Profile Directory actions, Printers, User Registry settings, User Registry policies, Commands, RES ONE Automation Tasks and Environment Variables.		✓	
Instant Pass-through — Instant Pass-through automatically redirects a user to a Citrix XenApp Published Application or Microsoft TS RemoteApp if the application is not installed on the user's computer. This technology is essential in mixed environments where both Citrix XenApp and traditional desktops are used.		✓	
RES ONE Workspace Shell — RES ONE Workspace shell presents a simple Windows-like shell with additional RES ONE Workspace-only presented by Microsoft, whereas the Microsoft Windows functionality shell is the exact shell as it is, including the various available themes.		✓	
Web Portal — The Web Portal makes it possible to offer the Workspace Composer through a web browser. This can be useful in secured environments, in which it is desirable that users can only access applications and folders through a web browser. The Web Portal can also be used to integrate the Workspace Composer in a corporate intranet.		✓	
Remote Assistance Integration — Allows any helpdesk to quickly remote control a user's desktop after approval of the user by integrating with Microsoft Remote Assistance technology. This decreases resolution times for helpdesk, and in turn, decreases workload.		✓	
Dynamic Privileges — Dynamic Privileges allow you to elevate rights for applications and commands, while maintaining default privileges for users.			✓	

User Installed Applications — User Installed Applications allows a specific end user to install software on a computer. This can be particularly useful to give expert users a degree of control over their own computer, so that they can install software themselves as and when needed. User Installed Applications is always restricted to specific computers, based on Workspace Containers and/or Zones and can optionally be further restricted to specific users. All installations are audited.			✓	
User Session Security — Session Security makes it possible to prevent users from starting more than one concurrent session. This improves the performance of the application server and helps to control license usage. Sessions security also prevents problems with locked data in a user's home directory, which can occur when a user tries to read the same data from two sessions simultaneously.			✓	
Managed Application Security — Application Security makes it possible to prevent access to and use of unauthorized applications. When enabled, only applications that are exposed to the user in the workspace are automatically authorized.			✓	
Website Security — Website Security allows you to configure user specific web filtering based on rules. This prevents access to unauthorized websites. Web filtering can be done by means of blacklisting and/or whitelisting, including support for Linux and Mac platforms.			✓	
Files and Folders Security — Files and Folders security makes it possible to block access to specific file types and folders.			✓	
Network Connection Security — Network security makes it possible to secure the user workspace by preventing applications from using unauthorized network connections to other applications and/or services running on remote computers (for example, database applications, ICA/RDP clients, telnet, MSN Messenger, etc.).			✓	
Read-Only Blanketing — Makes it possible to render all local fixed drives on a computer read-only for the end user. This not only secures the user's workstation against corruption and loss of information, but it safeguards the entire Terminal Server environment.			✓	
Advanced Removable Disk Security — Detection of USB storage devices based on serial numbers or vendor IDs/product IDs makes it possible to allow specific USB storage devices to be used on a computer. It also allows for advanced scenarios in which USB storage devices can function as a key to unlock an application or a laptop.			✓	

Removable Disks — Removable Disks Security configures permissions for usage of removable disks for specific people on specific locations. Read and write permissions can be assigned to Floppy Disks, DVD/CD Disks and Removable Disks like USB/Firewire Sticks. This increases an organization`s security by preventing any user from copying sensitive corporate data to and from removable disks.			✓	
Authorized Files — Global Authorized Files make it possible to create exceptions to the security restrictions in the user workspace by authorizing specific applications, files, folders and drives.			✓	
Adaptive Security — With Adaptive Security, you can secure the user workspace by preventing access to unauthorized applications, files, folders, removable media and network connections, and by logging all security events. All Security components are based on Windows filter drivers, which offer a high level of security while minimizing the overhead on your system.			✓	
Data Security — With Data Security, you can secure access to files and folders on local and removable disks. With Removable Disks Security, you can secure the use of removable disks in the user workspace. Removable Disks Security allows you to configure permissions for usage of removable disks for specific people on specific locations. With Files and Folders Security, you can prevent specific file types and folders from being used in the user workspace.			✓	
USB Access Token — Detection of USB storage devices based on serial numbers or vendor IDs/product IDs makes it possible to allow specific USB storage devices to be used on a computer. It also allows for advanced scenarios in which USB storage devices can function as a key to unlock an application or a laptop.			✓	
Filtering — The Workspace Simulation Wizard enables you to assess the workspace that would result from a particular simulation, combining a fictional or existing user's identity with different context criteria such as location, time and connection state.				✓
Workspace Simulations— The Workspace Simulation Wizard enables you to assess the workspace that would result from a particular simulation, combining a fictional or existing user's identity with different context criteria such as location, time and connection state.				✓
Role-based Access Controls — Access to settings and applications can be based on administrative roles or by delegating control to application managers. This enables re-using assigned administrative roles to help make applications and settings available to the users. These roles tend to be expert users or those responsible for a certain application and can be made 'application Managers.' 'Application managers' have access to the Access Wizard, which assists with granting and revoking access to applications.				✓

License Management — Licensing Metering makes it possible to manage and report the number of people that are allowed to use an application, based on the application licenses that are available. This makes it possible to enforce license compliance to, for example, Microsoft licensing models, while managing license usage in your user workspaces. It also prevents overspending on software licenses.				✓
Alerting — Alerting makes it possible to automatically send alerts on specific events in the user workspace to e-mail systems, SNMP management frameworks or by launching external tasks.				✓
Usage Tracking — Usage Tracking makes it possible to monitor application and computer usage in detail, using various selection criteria. Usage Tracking can be used to monitor the actual use of applications per user, per application or per server. Usage Tracking also monitors active sessions and the actual CPU load of an application. This information can be useful to find users or applications that utilize a more than average amount of system resources, to re-distribute licenses, or simply for troubleshooting.				✓
Website Usage Tracking — Website Usage Tracking makes it possible to track actual web site usage, including the time a web site is opened (time open) and the time a web site is used (time active). Web site usage will only be tracked for Microsoft Internet Explorer.				✓
Access Balancing — If many users log on to a remote desktop simultaneously, this can cause serious problems to the network and the desktop server. This situation can be prevented with Access Balancing, which makes it possible to limit the number of simultaneous logons per desktop server.				✓
CPU Optimization — CPU Optimization makes it possible to prevent applications from taking up too much processor time. This prevents other applications from malfunctioning				✓
Instant LogOff — Instant LogOff makes it possible to manage user profiles that fail to unload during logoff. If certain applications do not close their registry handles when they are terminated, this can result in slow logoffs, roaming profiles that do not reconcile and reaching of the registry size limit. Instant LogOff disconnects the user session on logoff and proceeds with the logoff in the disconnected session.				✓

Memory Optimization — Memory Optimization makes it possible to optimize the physical memory usage of running applications in the user workspace.				✓
Scope Control — Scope Control makes it possible to restrict the scope of administrative roles to individual settings in the Management Console, based on the Access Control criteria and Workspace Control criteria of these settings.				✓

RES ONE AUTOMATION

The RES ONE Automation module is available as an add-on to any RES ONE Workspace module. RES ONE Automation eliminates the need to manually deliver services and apps, eliminating risk of error, creating a strong audit trail, and freeing up resources for projects with more strategic impact on the business. It offers a simple yet scalable architecture for automating IT, with extensive out-of-the-box knowledge and integration. Virtually anyone can automate their daily activities with increased control and better security and compliance, laying the foundation for IT as a service. It's the best way to provision and de-provision services directly for the workforce. The module comes with over 270 pre-built in, as well as a framework to build your own. Automation capabilities are not limited to, but include:

- Version control
- Advanced job scheduling
- Activity automation
- Delegation of control
- Configure once
- Trust security
- Advanced change control

Visit http://res.com/products/res-one-workspace to find out how **RES ONE Workspace** can further drive your business.

ABOUT RES

RES creates, automates and secures digital workspaces to improve the experience and productivity of the workforce while lowering IT costs. RES takes a people-centric approach to making technology access secure, even in complex multi-device/multi-location scenarios, across physical, virtual and cloud environments. RES boasts numerous patented technologies, fast time to value, and superior customer support for more than 2,500 companies around the world. For more information, visit www.res.com, contact your preferred RES partner, or follow updates on Twitter @ressoftware.

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