Parallels Remote Application Server v16.2 Update 5
Hotfix 1 (February 08, 2019)

RAS Core v16.2.5.19572

Fixed:

- 2XDevRedir.exe process uses up to 100% CPU in some scenarios on RDSH

Parallels Remote Application Server v16.2 Update 5
(October 31, 2018)

RAS Core v16.2.5.19571

Fixed:

- Possible crash in the Publishing Agent if a published folder is not available in all sites.
- Publishing Agents reconnects if system time of servers are out of synch.
- Publishing settings are not always being replicated across sites. This issue could also result in Concurrent Licensing for a Published Application not to work.
- Possible delay for scan job to be processed.
- Administration account with "View Site Information" permission only could disable a Publishing agent or a Gateway.
- Remote PC might be shown in Not verified state.
- Possible drop of connection when tunnelling RDP connection over the gateway with UDP packets enabled.

HTML5 Gateway:

Fixed:

- When using the installed RAS client, after a password change, the client might use the old password.

Parallels Client (Windows) v16.2.5.19570

New:

- Option for enhanced move/size of published application windows.

Improved:
• Reviewed trusted.pem certificates.

Fixed:

• Possible delay for scan job to be processed.

WebPortal v16.2.5.19566

Fixed:

• Cross-site scripting vulnerability in “Logon.aspx”.

Parallels Remote Application Server v16.2 Update 4 - Hotfix 1 (Sept 21, 2018)

RAS WebPortal v16.2.4.19505

Fixed:

Cross-site scripting vulnerability.

Parallels Remote Application Server v16.2 Update 4 - (August 29, 2018)

RAS Core v16.2.4.19504

New

• Ability to replicate a published application target information across all site.

Fixed

• RDSH agent might become disabled after pushing a second PA.
• RAS Console crashes when removing “unmanageable” client device.
• Some RDSH sessions might not be shown in RAS Console.
• Users can connect to applications published from a disabled group.
• Printing properties window might freeze in the desktop publishing mode.
• RAS Console fails to switch on Turbo.net support.
• Mapped network drive might be locked after an enumeration of installed applications if applications to be published are located there.
• RAS redundancy service crashes on database upgrade.
• Linked clone might be created without an attached virtual disk on Hyper-v 2008 R2.
- RDSH agent is not enabled back after executing a scheduled task for disabling RDSH server.
- Published application might freeze upon an attempt to scan.
- RAS Console does not list RDSH servers located in the trusted domains.
- "Wait until all RAS Universal Printers are redirected before showing the application" option might not work properly.
- Uneven distribution of terminal sessions over RDSH hosts.
- VDI agent might crash while creating a clone on Hyper-v 2008 R2.
- Invalid state is shown for secondary PA after an update of master PA.
- RAS controller takes a long time to stop.
- Default DPI settings are not redirected.
- Duplex printing option does not work with Legacy Universal Printing.
- RDSH agents might be moved in "Not verified" state.
- Gateway HTTP forwarding does not work if different IIS web sites listening on the same socket are used.
- RAS controller might crash during RAS uninstallation.

**HTML5 Gateway:**

**Fixed**

- Time zones might not be redirected properly.
- Published Infinity Inpromed application cannot be launched.

**RAS PowerShell v16.2.4.19504**

**Fixed**

- Remove-PA does not remove all the installed features.

**Parallels Client (Windows) v16.2.4.19504**

**New:**

- Installer: Ability to create connections with passwords stored in a configuration file

**Fixed:**

- Custom fonts might not be installed.
- Shortcuts are not recreated when redirection policy is applied.
- Windows start menu might be shown in a wrong location if Desktop Replacement mode is used.
- Tray icon balloons are not displayed properly.
- Mouse might move to the edge of the screen when clicking on a published application in tray.
- 64-bit Parallels Client crashes if "Cache Printers Hardware Information" option is enabled.
- Mouse and keyboard might not work after reconnection.
- Performance degradation due to the printers caching.
- Desktop taskbar might disappear from the second monitor if dual monitors are used.

**Parallels Client (Linux) v16.2.4.1950**

**Fixed:**

- Video freezes if Remote FX acceleration is enabled.
- Double-sided printing settings are not applied.
Parallels Client (Mac) v16.2.4.19503

Fixed:

• Parallels Client might crash on opening of a published application.

Reporting v16.2.4.19503

Fixed:

• RAS Reporting might fail to update.
• Information about some Remote PC users is absent.
• Some users might appear twice in a report.

Parallels Remote Application Server v16.2 Update 3 - Hotfix 1 (June 27, 2018)

RAS Core v16.2.3.19428

Fixed

• Publishing Agents may fail to reconnect

Parallels Remote Application Server v16.2 Update 3 (May 15, 2018)

RAS Core v16.2.3.19419

New

• Added support for ECDHE key exchange algorithms.
• Added Radius support to forward to AD without challenge

Fixed

• Setting of Cached Session Timeout value in Russian and Chinese Simplified.
• Dialog to update of RAS Agents was not being shown.
• Dialog to update of RAS Agents was including VDI Guests that do not have an agent installed.
• RAS offline activation.
• Forward requests to HTTP Server was being changed on upgrading.
• Session idle timeout was not being calculated correctly.
• Published items performance degrades over time when use RAS Gateway SSL connection mode.
• Fixed: Printer Preferences dialog is shown on printing when policy "Use client preferences for all printers" is used.
- Fixed: Some advanced printing settings (some DPI settings, customer paper sizes) are not shown via Server Preferences in printing preferences.
- Fixed: Printer preferences dialog sometimes is opened behind opened remote application window making the application window irresponsive.

**HTML5 Gateway:**

**New**
- Made security fixes to incorporate CredSSP encryption oracle remediation updates as described in CVE-2018-0886.

**Improved**
- Redirecting user to logon screen when page is refreshed.

**Fixed**
- Changing of domain password.
- Session disconnects when downloading a file with Japanese characters in the filename.

**RAS PowerShell v16.2.3.19419**

**New**
- Invoke-ExportSettings: Added support for UNC paths.

**Fixed**
- Commands: Get-GWStatus was returning the wrong cipher string.

**Parallels Client (Windows) v16.2.3.19419**

**Fixed**
- Drag and Drop issues after reconnecting
- Non-polices settings are set to default when applying new policies
- When disabling RDP-UDP tunneling on the gateway, connected client gets disconnected and don't recover the connection

**Parallels Client (Linux) v16.2.3.19422**

**New**
- Made security fixes to incorporate CredSSP encryption oracle remediation updates as described in CVE-2018-0886.
- When system locale is changed to Chinese (zh_TW or zh_CN), the client language is not changed.
• Combination of "CTRL-C" doesn't work in remote session.

Parallels Client (Mac) v16.2.3.19419

New?

• Made security fixes to incorporate CredSSP encryption oracle remediation updates as described in CVE-2018-0886.

Fixed

• Mouse pointer disappears on disconnect

Parallels Client (Chrome App) v16.2.3.19419

New

• Made security fixes to incorporate CredSSP encryption oracle remediation updates as described in CVE-2018-0886.

Parallels Client (iOS) v16.2.3.19401

New

• Made security fixes to incorporate CredSSP encryption oracle remediation updates as described in CVE-2018-0886.

Fixed

• Overridden device name is not shown in RAS Management Console.

Parallels Client (Android) v16.2.3.19401

New

• Made security fixes to incorporate CredSSP encryption oracle remediation updates as described in CVE-2018-0886.

Parallels Remote Application Server v16.2 Update 2 Hotfix 1 (April 13, 2018)
RAS Core v16.2.2 (19306)

Fixed

- Improper handling of empty MAC address on a secondary Publishing Agent. Error in database Execute: 19
- Crash of Publishing Agent after an upgrade to build 16.2.19300 in some cases.
- RAS Console suggests to update all virtual machines on a VDI host, even the VMs without RAS Guest Agent installed.

Parallels Remote Application Server v16.2 Update 2 (April 9, 2018)

RAS Core v16.2.2.19300

Fixed

- Agents statuses in RAS Console may be out of sync.
- Attempt to delete VDI guests twice on VMware vCenter.
- RAS Agents are not verified after upgrade.
- Session idle time and length is shown incorrectly in RAS Console.
- Possible crash of RAS Console when switching sites.
- Printers might fail to redirect after upgrade.
- Failed to install RemotePC agent on Windows XP.
- RDSH Agent becomes not verified after server reboot.
- Invalid RDS role state is shown in RAS Console.
- Controller might crash on settings reloading.
- Snapshot is not deleted after removal of VDI template on VMware vCenter.
- Printers might not be redirected to a RDSH server running Windows Server 2008.
- Pre-created VDI guests might not be deployed in advance.
- Failed to launch RAS installation using HTTP link.
- Printing preferences dialog might not appear if old version of Publishing agent is used.
- Failed to change a password if username contains a custom UPN suffix.
- Failed to connect to KVM if special characters are used in a password.
- Database execution errors might appear in logs.

HTML5 Gateway:

Fixed

- Application listing area might halt after opening a few links in Firefox.

RAS PowerShell v16.2.2.19300

Fixed

- Do not allow to reactivate a trial license. Affected commands:
  ♦ Invoke-LicenseActivate
- Gateway status might be invalid after restart of Publishing Agent.

Parallels Client (Windows) v16.2.2.19302

Fixed
Client crashes on attempt to print to "2X Universal Printer" without an actual printer assigned.
Published application might freeze upon TWAIN scanner selection.
"Print job failed" is displayed on attempt to print.
SSO option is not shown on Windows 10.

Parallels Client (Linux) v16.2.2.19300

Improved

• Use of multiple monitors.
• Audio playback and recording are enabled by default.

Fixed

• Client might hang while watching YouTube videos.
• Failed to launch a published application from CloudPortal if Advance Client Security is enforced.
• OTP field was not displayed correctly for Radius servers.

Parallels Client (Mac) v16.2.2.19300

New

• Delay in showing menubar in full screen mode.

Fixed

• RDP session might be frozen after waking up from hibernation.
• Client does not set a default printer.
• One might fail to save a password.
• URL redirection doesn't work for URLs longer than 100 characters

Parallels Client (Chrome App) v16.2.2.19300

Fixed

• OTPCC field was not displayed when required
• Published application menu might behave incorrectly if Graphics Acceleration is disabled.

Reporting v16.2.2.19300

Fixed

• Machine unique id might be found in Report list instead of machine name.

Parallels Remote Application Server v16.2 Update 1 Hotfix 3
(March 26, 2018)

Parallels Client (iOS) v16.2.1-19130

Fixed

• Custom resolution for a remote session is not saved
• Crash on settings migration form a Legacy Client
• Sometimes capital letter is doubled in a remote session when hardware keyboard is used.
• Client version format.
Parallels Client (Android) v16.2.1-19131

Fixed

- Custom resolution for a remote session is not saved
- Unexpected text might be inserted when typing in a remote session

Parallels Remote Application Server v16.2 Update 1 Hotfix 2 (March 06, 2018)

RAS Core v16.2.1.2.19170

Fixed

- Universal printer driver is not upgraded.

Parallels Client (Mac) v16.2.1.2.19171

Fixed

- Version format.

Parallels Remote Application Server v16.2 Update 1 Hotfix 1 (February 22, 2018)

RAS Core v16.2.1.1.19168

Fixed:

- Printers not being redirected
- Intermittent RDSH Agent hanging when connecting to Publishing Agent
- Intermittent RAS Console crashing when changing sites.

Parallels Client (Mac) v16.2.1.1.19166

Fixed:

- URL redirection from a remote session

Parallels Remote Application Server v16.2 Update 1 (February 05, 2018)

RAS Core v16.2.1.19160

New

- Added option to forward first OTP from Radius to Windows authentication provider.

Improved
• Added 5 minutes to current time to newly created schedules.

Fixed

• Agents states might be shown as "Not verified" after performing an upgrade.
• RDSH pending schedule is lost if you reboot the machine or RAS RDSH service.
• Possible client disconnections if gateway settings are changed.
• Wyse wnos folder not deleted when upgrading RAS.
• Possible lock which causes a denial of service on the Gateway service.
• Turbo.net applications might fail to launch.
• VDI guests list is not shown if VDI host system locale is set to Chinese.
• Guest computer account might not be removed from Organizational Unit on VDI guest removal.
• Fail to create VDI guests if Organizational Unit is changed in VDI Template properties.
• Name of connected user might not be shown for VDI guest.
• Parallels Client might fail to connect to VDI guest running Windows 10.

**HTML5 Gateway**

**Improved**

• No client detection if running on Chrome OS.

**Fixed**

• URLs redirected to local browser may not work.

**RAS PowerShell v16.2.1.19160**

**New**

• Added support for Radius "Forward the first OTP from Radius to Windows authentication provider" option. Affected commands:
  
  - Set-2FASetting
  - Get-2FASetting

**Parallels Client (Windows) v16.2.1.19160**

**Fixed**

• RAS device manager shadowing service might fail to start.
• Accidental crash while attempting to print.
• Printer added by IP address might fail to redirect on Windows 10.

**Parallels Client (Linux) v16.2.1.19160**

**New**

• Support for RAW printing data when using RAS Universal Printing.

**Fixed**

• Client doesn't start on Raspberry Pi with Debian 9.1
• Logout from local computer might be blocked when Client is running
• Multiple USB drives might not be auto-mapped to a remote session
• USB drives are not mapped to a remote session if Client is launched via Web Portal
• Logoff from a remote session blocks Linux desktop with a black screen.
• Crash on published app launching if user is forced to change his password on a connection to a remote server

**Parallels Client (Mac) v16.2.1.19160**

New

• Use Smart cards for authentication

Improved

• Drag & Drop of local files to remote applications.

Fixed

• Crash when a Smart card is redirected to a remote session
• Japanese characters from a remote session are pasted incorrectly sometimes

**Parallels Client (iOS) v16.2.1.19123**

New

• iPhone X support
• Use Face ID to unlock Client

Improved

• Screen scrolling behaviour in Mouse Pointer mode

Fixed

• Incorrect scan codes are sent for some keys in PC Keyboard mode
• On typing in a remote session, double hyphen always transformed into dash
• Accidental crash when device microphone is redirected to a remote session
• Search for published folders doesn't work

**Parallels Client (Android) v16.2.1.19123**

New

• Store automatically published shortcuts in a special "Parallels Shortcuts" folder on device's Home screen

Improved

• Screen scrolling behaviour in Mouse Pointer mode
• Drag & Drop behaviour on AppLauncher

Fixed

• Crash on connection to a server which uses RADIUS multi-factor authentication with multiple OTPs
• Incorrect scan codes are sent for some keys in PC Keyboard mode

**Reporting v16.2.1.19160**

Fixed

• Invalid session time if RDSH agent disconnect from Publishing agent.
Parallels Remote Application Server v16.2 Hotfix 2 (January 18, 2018)

RAS Core v16.2.0.19048

Fixed

• Possible PA service blocking when resolving processes inheritance.
• Free resources taken by abnormal terminal clients.
• Possible lock on Proxy gateway when using RDP UDP tunnelling.

Parallels Remote Application Server v16.2 Hotfix 1 (December 21, 2017)

RAS Core v16.2.0-19043

Fixed

• Parallels RAS Console may crash when switching between sites.

Parallels Client (Windows) v16.2.0-19043

Fixed

• Crash on Windows 10 Version 1709 due to Amyuni Document Converter 400 printer driver.
• Client side printer preferences dialog was hidden under Microsoft Word.
• Possible crash if the “Swap Mouse Buttons” option is enabled.

Parallels Remote Application Server v16.2 (December 1, 2017)

RAS Core v16.2.0.19039

New

• Support for drag and drop of files from local desktop to a remote application (Windows and Mac clients only. Some applications may not be supported in this release).
• Integration with Indeed-Id Enterprise Single Sign-On.

Improved

• Agents status reporting while establishing a connection to the publishing agents.
• Appearance of the Reporting page when multiple reports are opened.
• Error message when Remote PC connection is already used by another user.

Fixed

• UPD status reported in Console might be incorrect.
• Various problems with Universal printing.
• VDI sessions might not be shown from some of the VDI hosts.
• VDI guests might hang in the Preparing state.
• VDI guest might be provided to several users.
• Failed to connect to VDI guest with an error "A specific machine was not found".
HTML5 Gateway:

New

• Support for microphone redirection.

Improved

• Support for German keyboard.
• Support for 2nd level authentication challenge codes.

Fixed

• File transfer blocks session when Internet Explorer is used.
• Input events might be sent multiple times after session restarts.
• Application filtering using Gateway IP.
• Second level authentication exclusion using Gateway IP.
• Second level authentication - no dialog to enter challenge OTP.

RAS PowerShell v16.2.0.19039

Fixed

• Component status not returning needs update. Affected commands:
  - Get-RASAgent
  - Get-RDSStatus
  - Get-GWStatus
  - Get-PASStatus
  - Get-SiteStatus
  - Get-VDIHostStatus
• Disabled RDS agent from the configuration are shown as 'Not Verified'. Affected commands:
  - Get-RDSStatus
• Delete 'Windows Device Group List' when deleting a Site which was causing adding a new site to fail. Affected commands:
  - New-Site
  - Remove-Site

Parallels Client (Windows) v16.2.0.19039

New

• Support for drag and drop files from local desktop to remote applications.
• Allow certificates with no extended key usage certificate attribute policy enabled when client is installed.
• Possible crashes when enabling/disabling Single Sign-On.
• Automatic registering .doc to be wrongly assigned to Parallels client on installation.

Parallels Client (Linux) v16.2.0.19039

Fixed

• Redundant "Printers" checkbox under "Local Resources" on RAS Connection properties
• Cannot print from Remote PC connection.

Parallels Client (Mac) v16.2.0.19039

New
• Support for drag and drop files from local desktop to remote applications.
• "Save password" state is reset if 2nd level authentication is used.
• Possible crash if second monitor is added or removed multiple times.
• Cannot redirect printers with a comma "," in the name.

Parallels Client (Chrome App) v16.2.0.19039

Fixed

• Reporting HTML5 instead of Chrome to the server.

RAS Reporting v16.2.0.19039

New

• Added new report "Farm Health by Machine".

Improved

• Renamed report "Server Health by Server" to "Farm Health by Server".

Fixed

• Reports which has username as argument may show the same user more than one time.

RAS Performance Monitor v16.2.0.19039

Improved

• Set Dashboard default time-zone to match the browser's settings
• Upon installation the Monitoring dashboard is opened.

Fixed

• RAS Performance Monitor installation fails due to permissions issue if not run as administrator.

Parallels Remote Application Server v16.1 (November 1, 2017)

Parallels RAS Core v16.1.0.18915

New

• The ability to organize Remote PCs and manage them as pools.
• Integration with RAS Performance Monitor
• The ability to enable/disable the file transfer capability (new settings in RD Session Host, VDI Host, Remote PC and HTML5 GW properties).
• Added policy setting to enable/disable the file transfer capability.
• The ability to enable/disable the clipboard redirection capability when using Parallels HTML5 Client (a new setting in the HTML5 GW properties).
• Effective access window now allows exporting information to a CSV file.
• In places where host name can be entered, the ability to open the Browse for Computer dialog.
• Added a notification when system cannot authenticate users because domain controller is not reachable.
• Child processes identified with the parent published application in the Processes window.
• The ability to change order of footer URLs in the Theme properties.
• Reintroduced the ability to install RAS Proxy Gateway on 32-bit OSes.
• The ability to start a remote control session from the Processes window.
• The ability to lock a device from the client manager category.
• The ability to configure firewall and remote access setting when pushing a VDI guest agent.
• The ability to encrypt connections with GOST algorithm.
• The ability to apply a certificate in PFX format to RAS Proxy Gateway.
• Support for Citrix XenServer 7.2 hypervisor. The ability to view running sessions from VDI hosts.
• The ability to execute remote operations within running sessions from VDI hosts.
• The ability to customize the structure of directories of a user profile disk.

Improved

• RAS Console: Improved UI of many pages. The Administration category has been restructured
• RAS Console: Streamlined the process of applying settings. Improved: Error reporting when a user is not allowed to access a HTML5 gateway Theme.

Fixed

• User accounts have been added to the "Remote Desktop users" group even though option is not enabled.
• Radius retries settings not saved.
• WIA not working due to not detecting Desktop Experience on non-English OSes.
• Possible Publishing Agent service termination if there are network errors in a multi PA site.
• Possible crash when uploading a file with zero size.
• PC agent / VDI guest agent does not close session when a published application is closed.
• RDSH scheduler fails if a schedule is created in the past.
• Application run mode is not used when starting published applications.
• RAS Console may fail to list VDI guests occasionally.
• Failed to connect to VDI guest with an error "A specific machine was not found".

HTML5 Gateway:

Improved

• Performance when listing applications and desktop.

Fixed

• Authentication failed if password contains some non latin characters.
• Pressing space key might scroll down the desktop.
• RDP Session hangs when trying to download file from Internet explorer.
• Applications may be listed in the wrong folder.

HALB v16.1.0.18914

Fixed

• Clients are disconnected when failed HALB master comes back online.

RAS PowerShell v16.1.0.18915

New commands:

• Get-RASVersion
• Get-RASInvitationSettings, Set-RASInvitationSettings, Invoke-SendRASInvitation
• Get-RASAgent, Update-RASAgent, Remove-RASAgent
• Get-SiteStatus, Get-VDIHostStatus, Get-GWStatus, Get-PAStatus, Get-RDSSStatus
• Get-RDSSchedule, Remove-RDSSchedule,
• New-RDSScheduleDisable, Remove-RDSScheduleDisable, Get-RDSScheduleDisable,
  Set-RDSScheduleDisable
• New-RDSScheduleReboot, Remove-RDSScheduleReboot, Get-RDSScheduleReboot,
  Set-RDSScheduleReboot
• Get-2FASetting, Set-2FASetting
• Get-RASAllowedDevicesSetting, Set-RASAllowedDevicesSetting
• Get-RASAuthSetting, Set-RASAuthSetting
• Get-RASSessionSetting, Set-RASSessionSetting
• Add-2FAExcludeGWIPList, Remove-2FAExcludeGWIPList, Add-2FAExcludeIPList, Remove-2FAExcludeIPList
• Add-2FAExcludeMACList, Remove-2FAExcludeMACList, Add-2FARadiusAttribute, Remove-2FARadiusAttribute

Improved commands:

• Get-VDIGuest - Get list of VDIGuests created from RAS Template
• Invoke-Apply - Changed Invoke-Apply to a Synchronise call.
• Set-GW - The ability to enable\disable file transfer capability
• Set-RDS, Set-RDSDefaultSettings - The ability to enable\disable file transfer capability
• Set-VDIHost - The ability to enable\disable file transfer capability

Parallels Client (Windows) v16.1.0.18915

New

• The ability to enable extended logging.
• URL schema now supports OverrideArgs argument.
• The ability to show notification when domain password is about to be expired.
• Support for authentication with Etoken Smart Card.

Improved

• Changed default connection timeout to 60 seconds.
• Changed default for "Show desktop if published application does not start" to 30 seconds.

Fixed

• A failure during password change may clear settings enforced by a policy. Parallels Client (Linux) v16.1.0.18912 (QA Verified)
• 64-bit build of Linux Client.
• The ability to enable extended logging.
• URL schema now supports OverrideArgs argument.
• Support for connection redirection policy.

Improved

• Video playback smoothness.
• Sound recording quality inside a remote session.
• UI layout when Parallels Client runs on Raspberry Pi.
• Use the system language as the default language.

Fixed

• Failed to launch applications from shortcuts on Ubuntu 12.
• USB drive may not get mapped to a remote session.
• Black screen appears if incorrect password is specified during login to a remote session.
• "Delete" button doesn't work for active connections.
• "Minimize to tray" option is available even if system tray is not supported by Linux desktop environment.
• All client-side monitors are used in a remote session published with a disabled multi-monitor option.
• Desktop composition flag is not passed correctly to a remote session.

Parallels Client (Linux) v16.1.0.18912
New

• 64-bit build of Linux Client.
• The ability to enable extended logging.
• URL schema now supports OverrideArgs argument.
• Support for connection redirection policy.

Improved

• Video playback smoothness.
• Sound recording quality inside a remote session.
• UI layout when Parallels Client runs on Raspberry Pi.
• Use the system language as the default language.

Fixed - Failed to launch applications from shortcuts on Ubuntu 12. - USB drive may not get mapped to a remote session. - Black screen appears if incorrect password is specified during login to a remote session. - "Delete" button doesn't work for active connections. - "Minimize to tray" option is available even if system tray is not supported by Linux desktop environment. - All client-side monitors are used in a remote session published with a disabled multi-monitor option. - Desktop composition flag is not passed correctly to a remote session.

Parallels Client (Mac) v16.1.0.18912

New

• The ability to view and clear the log file.
• The ability to enable extended logging.
• Smart Card redirection within an established RDP session.

Fixed

• Local printers with comma in their name are not redirected to a remote session.
• Client preferences window may disappear when switching between window tabs.

Parallels Client (iOS) v16.1.0.18896

New

• Keyboard mode: PC keyboard.
• URL schema now supports OverrideArgs argument.
• Ability to show connections as a compact list.
• Search for a connection by its name or address.
• Ability to navigate a hierarchy of published folders.

Improved

• Scrolling with SwiftpointGT mouse.

Fixed

• Switch input language with CMD+Space shortcut when using hardware keyboard.

Parallels Client (Android) v16.1.0.18896

New

• Keyboard mode: PC keyboard.
• URL schema now supports OverrideArgs argument.
• Ability to show connections as a compact list.
• Search for a connection by its name or address.
• Ability to navigate a hierarchy of published folders.

Fixed

• Custom resolution may not be saved.

Parallels Client (Chrome App) v16.1.0.18912

Improved

• Performance when listing published resources.

Fixed

• A screen are was unusable when an application is maximized.

Reporting v16.1.0.18912

Fixed

• Timeout during update can happen due to large amount of data.

Web Portal v16.1.0.18911

Improved

• Logoff action logs off the RAS session completely.

Fixed

• No published items displayed after user is forced to change password.

RAS Performance Monitor v16.1.0.18915

New

• First release of RAS Performance Monitor.

Parallels Remote Application Server v16 Update 1 (Sept 12, 2017)

Parallels Remote Application Server Core v16.0.1.18458

Improved:

• Publishing agents status when installing or uninstalling an agent.
• Second level authentication OTP is asked if user moves from a gateway which does not require OTP to a gateway which requires it.
• Remote application may not appear on the client side.
• Universal Printing from Internet Explorer.
• RDSH agent deployment.
• Performance and stability of the Client Manager.
Fixed:

- Published Application run mode not working.
- RAS Console locking while retrieving agent states in a multi-site environment.
- Crash if preferred PA is deleted but still referenced by an other agent.
- "Running processes" and "Session manager" filtering not working if multiple filters are used.
- VDI information not properly synched between PAs.
- Disabled PA still receives information from other PAs.
- Predefined application list not being provided from standalone RAS Console.
- "Sign in to Parallels My Account" displayed multiple times.
- Guest listing after VDI host agent restart.
- Pre-created guests creation in multiple-PA environment.
- Nutanix guest deletion.
- Issues with cloning KVM templates.
- Publishing of VDI applications via specific guest.
- Issues with override guest RDP port.
- Issues with guest recreate and domain joining.

HTML5 Gateway

Improved:

- Support Japanese input on when using Parallels HTML5 Client via Internet Explorer.
- Performance when listing a long list of published applications.

RAS PowerShell

New Commands:

- Get-RASTurboSetting
- Set-RASTurboSetting
- Added Parameters
- Set-GW -WebRequestsURL

Parallels Client (Windows) v16.0.1.18457

Fixed:

- SSO stability on Windows 10.
- Connection properties policy removed if user changed his password.
- Smart Card detection message not correct when Smart Card is un-enrolled.
- Possible crash with new version of Windows UI automation module.

Parallels Client (Linux) v16.0.1.18456

New:

- Automatic reconnection on network failures
Fixed:

- Black screen on connection to a published desktop if server authentication is set to "Do not connect" or "Warn"
- Client occasionally hangs on session startup if a powered-off mobile device is redirected to the session.
- Client hangs occasionally on attempt to configure USB devices for redirection into a remote session
- Crash when session client is launched w/o user password specified.
- A list of connected MTP devices is not refreshed correctly.
- Client-side session dialogs are not translated.

Parallels Client (Mac) v16.0.1.18459

Improved:

- The mouse pointer moves better when you use an on-screen keyboard as a trackpad.
- More detailed error messages are displayed when an RDP connection fails.

Fixed:

- Client machine name is not sent to a RAS server.
- 'OverrideArgs' URL parameter is ignored when launching an app in an already running session.

Parallels Client (iOS) v16.0.1.18459

Improved:

- More detailed error messages are displayed when an RDP connection fails.
- Handling of touch gestures when using the Dumbo mouse.
- Overall stability.

Fixed:

- Now you cannot export or import connections when these actions are prohibited by the policy on the RAS server.
- The “Delete” key on an external keyboard doesn’t get stuck anymore.
- App Switcher becomes disabled after you log in to RAS and some published app starts automatically.
- When you’re working with a published app and need to enter a password, the on-screen keyboard doesn’t show predictive text anymore.

Parallels Client (Android) v16.0.1.18459

Improved:

- More detailed error messages are displayed when an RDP connection fails.
- Improved handling of touch gestures when using the Dumbo mouse.
- Overall stability.

Fixed:

- Now you can scroll a page up and down when an on-screen keyboard is opened.
- Parallels Client doesn’t freeze anymore after you disconnect an RDP session.
Sound from other apps is not muted anymore when you open Parallels Client and connect to RAS
If a published application is configured to create a desktop shortcut, such shortcuts appear automatically on the desktop of your Android device.

Parallels Client (Chrome App) v16.0.1.18454

Fixed:

• Universal printing crashes the client.

Reporting v16.0.1.18455

Fixed:

• Wrong calculated time in some reports.
• VDI Apps sessions logged to VDI desktop sessions.

WebPortal v16.0.1.18457

• When "Enforce HTTPS" is selected, users and administrators cannot log in.

HA-LB Appliance v16.0.1.18457

Improved:

• If a master device goes down users connect to the secondary device, if the master is recovered users do not re connected with it but keep the connection on the secondary device.

Parallels Remote Application Server v16 - Hotfix 2 (August 11, 2017)

Parallels Remote Application Server Core v16.0.0.18342

Fixed:

• When installing RDSH agent, RDSH role fails to be added.
• Published application might disappear when the state changed multiple times
• Default theme was not created for secondary sites during upgrades.
• RDSH agent might switch to the disabled state.
• Check for update feature was not working properly.
• High CPU usage when printing via "legacy" mobile clients.
• Print jobs might not get spooled from redirected universal printers.

Parallels Remote Application Server Power Shell:

Fixed:

• New-VDIGuest pushing of Guest Agent fails if VM is not started.
Parallels Client (Windows) v16.0.0.18343

Fixed:

- Credentials are prompted every time a published item is launched.

Parallels Client (Android) v16.0.0.18319

Improved:

- Screen scrolling when keyboard is open.
- Overall stability.

Parallels Remote Application Server v16 - Hotfix 1 (July 20, 2017)

Parallels Remote Application Server Core v16.0.0.18335

Improved

- Corrected localizations strings.
- Stability and memory management.
- Agent status reported when services are not running.

Fixed

- Site replication setting in Universal Scanning section.
- Invalid error message was shown when using VDI Host agent appliance.

RAS PowerShell API

Fixed

- Remote installations of RAS Agents.

Parallels Client (Windows) v16.0.0.18330

Improved

- Corrected localizations strings.

Parallels Remote Application Server v16 (July 10, 2017)

Parallels Remote Application Server Core v16.0.0.18328

New features:

- Application publishing introduces support for Turbo.net containerized applications.
• Quick Keypads: keyboard shortcut templates for quick access to menu commands from mobile clients.
• VDI: Support for Nutanix Acropolis and KVM hypervisors.
• VDI: Support for Citrix XenServer 7.0 hypervisor.
• VDI: Support for linked clones (VMware, KVM, Hyper-V).
• VDI: Test VDI Template Wizard - allows to validate a VDI template before usage.
• VDI: Ability to recreate existing guest VMs with same names for linked clones.
• VDI: Ability to send messages or log off sessions from the VDI Template Guest VM list window.
• VDI: RASPrep, a faster alternative to SysPrep.
• RAS Console can now be installed on any Windows computer and connect remotely to different farms.
• RAS Console can be deployed without the need of elevated privileges.
• RAS Console: Support for custom client filtering instead of browsing for exiting client devices.
• RAS Console: Ability to search in the Settings audit category.
• RAS Console: Ability to view what is published from an RDSH or RDSH group.
• RAS Console: Ability to view effective access for published items for a user with specific device and connecting through a particular gateway.
• RAS Console: Ability to view running sessions from a selected RDSH.
• RAS Console: Support of AD groups for Administration accounts.
• RAS Console: Redesigned UI of the Site and Remote Desktop Session Host categories.
• RAS Console: Redesigned UI of the Gateway properties window. Added an option to forward requests to a Web server. Also added the ability to specify a default URL for HTML5 access.
• RAS Console: Ability to see on which servers a published item is running and by which users.
• Ability to mark a published folder to be used for administrative purposes only (i.e. not visible on the application listing on the client).
• Ability to specify an overlay icon for a published application icon.
• Ability to restrict access to full RDP desktop if only applications are published to a user.
• Policies: A setting to control for clipboard redirection.
• Policy to redirect connections from one gateway to another gateway within the same farm or to a gateway from a different farm.
• Ability to add users to Remote Desktop Users group when deploying RAS Agent from the RAS Console.
• Desktop experience is automatically enabled when the RDSH agent is installed.
• Helpdesk email option for mobile device clients.
• Sending alerts when a Publishing agent state changes.
• Ability to rename RADIUS OTP connection type name.
• Ability to automatically log off clients from the RAS farm if no sessions are running.
• Device Manager settings allow administrator to disable USB storage devices.
• Device Manager can now lock a device remotely.
• Ability to assign preferred publishing agent to a RSDH agent, VDI agent, PC agent and Secure proxy gateway.
• Automatically enable "Touch mode" for Office 2013/2016 applications used on iOS and Android devices.

**Improvements:**

• Help desk administration accounts cannot apply settings to the farm.
• Installer: Prohibits installation of server components on operating systems other than Windows Server.
• VDI and PC connections make use of all available PAs.
• Server states are now the actual running state as seen by the publishing agents.
• RAS VDI stack received numerous stability and performance improvements.
• RAS Gateway is now a 64 bit application.
• Device Manager received numerous stability and performance improvements.
• VDI guest sessions require VDI guest agent to be installed is now mandatory.

**HTML5 Gateway**

**New features:**

• Themes - allow to customize appearance of Parallels HTML5 Client to match your company branding.
• File transfer: upload/download files to/from the server hosting a remote session.
• Support for Network Level Authentication (NLA).
• Support for high resolution icons.
• Ability to automatically log off clients from the RAS farm if no sessions are running.

**Improvements:**

• Second level OTP entry fields use password asterisks.

**RAS PowerShell**

**New Commands:**

• Invoke-LicenseDeactivation
• Get-RASFarmSettings, Set-RASFarmSettings
• Get-RASLBSettings, Set-RASLBSettings
• New-VDIHost, Get-VDIHost, Set-VDIHost, Remove-VDIHost
• Get-VM, Start-VM, Stop-VM, Suspend-VM, Restart-VM
• New-VDIGuest, Get-VDIGuest, Set-VDIGuest, Remove-VDIGuest
• Get-VDIGuestDefaultSettings, Set-VDIGuestDefaultSettings
• New-VDIPool, Get-VDIPool, Set-VDIPool, Remove-VDIPool, Add-VDIPoolMember, Remove-VDIPoolMember
• New-PubVDIDesktop, Get-PubVDIDesktop, Set-PubVDIDesktop, Remove-PubVDIDesktop
• New-PubVDIApp, Get-PubVDIApp, Set-PubVDIApp, Remove-PubVDIApp
• New-VDITemplate, Get-VDITemplate, Set-VDITemplate, Remove-VDITemplate
• Get-VDITemplateSettings, Set-VDITemplateSettings
• Add-VDITemplateLicenseKey, Remove-VDITemplateLicenseKey
• Get-VDIPersistentGuest, Set-VDIPersistentGuest
• Get-VDISettings, Set-VDISettings
• New-RASAdminAccount, Get-RASAdminAccount, Set-RASAdminAccount, Remove-RASAdminAccount
• Get-RASMailboxSettings, Set-RASMailboxSettings, Invoke-TestMailboxSettings
• Get-RASLoadBalancing, Set-RASLoadBalancing
• New-PA, Get-PA, Set-PA, Remove-PA

**HALB v16.0.0.18322**

• No updates

**Parallels Client (Windows) v16.0.0.18324**

**New features:**

• Support for local printer settings in the remote application.
• Session Information window that shows the quality, bandwidth and RTT of the active connections.
• Clipboard redirection setting.
• Ability to automatically log off clients from the RAS farm if no sessions are running.
• PDF printing without the need of an external application.
• Support for Smart Cards PIN pass-through when SSO is enabled.
• Installer: Automatically install portable Parallels Client if the user does not have administrative privileges to install into Program Files.
Improvements:

- Hide RDP connection bar on top of the screen when sessions starts.
- When desktop is replaced by Device manager, auto play feature is disabled.
- Second level OTP entry fields use password asterisks.

Parallels Client (Linux) v16.0.0.18325

New features:

- Added Bi-directional audio redirection.
- Generic USB device redirection.
- Support Plug and Play device redirection
- Support for automatic detection of connection quality.
- Clipboard redirection option.
- Ability to automatically log off clients from the RAS farm if no sessions are running.

Improvements:

- Second level OTP entry fields use password asterisks.
- Support for RDP-UDP transport.

Parallels Client (Mac) v16.0.0.18324

New features:

- Ability to change domain password.
- Support for high resolution icons.
- Support for automatic detection of connection quality.
- Clipboard redirection option.
- Ability to automatically log off clients from the RAS farm if no sessions are running.
- Added client logs to help troubleshooting.

Improvements:

- Second level OTP entry fields use password asterisks.
- Support for RDP-UDP transport.
- Reduced network data usage for bi-directional audio.

Parallels Client (iOS) v16.0.0.18316

New features:

- Swiftpoint GT mouse support.
- Support for Quick Keypads: keyboard shortcut templates.
- Unlock Parallels Client with Touch ID & Passcode.
- "Dumbo" mouse mode.
- Support for automatic detection of connection quality.
- Clipboard redirection option.
- Automatically enable "Touch mode" for Office 2013/2016 applications.
- Automatically start applications when the user logs into a RAS connection.
- Support for formatted text clipboard redirection (RTF and HTML).
• Settings to distinguish between RAS Gateway and RDP Server authentication.
• Support for multiple concurrent RDP connections.
• Support for RAS policies (connection properties & applicable settings).
• Use help desk RAS settings to send problem reports.
• Ability to rearrange connections.
• Use Spotlight to find and launch published applications.
• Support 3D touch for connecting to hosts from iOS dashboard.
• Today extension to launch recent connections and published applications.
• Export and import connections.
• Display resolution settings with support for DPI configuration.

**Improvements:**

• Second level OTP entry fields use password asterisks.
• Support for RDP-UDP transport.
• Input fields detection.
• Detection of text for selection.
• Display multiple connections on the screen.
• Display of published items with long names.
• Relocated global settings to reside within the application.

**Parallels Client (Android) v16.0.0.18316**

**New features:**

• Support for Quick Keypads: keyboard shortcut templates.
• Unlock Parallels Client with fingerprint & PIN code.
• "Dumbo" mouse mode.
• Support for automatic detection of connection quality.
• Ability to automatically log off clients from RAS farm if no sessions are running.
• Clipboard redirection setting.
• Automatically enable "Touch mode" for Office 2013/2016 applications.
• Automatically start applications when the user logs into a RAS connection.
• Support for formatted text clipboard redirection (RTF and HTML).
• Settings to distinguish between RAS Gateway and RDP Server authentication.
• Support for multiple concurrent RDP connections.
• Support for RAS policies (connection properties & applicable settings).
• Use help desk RAS settings to send problem reports.
• Ability to rearrange connections.
• Export and import connections.
• Display resolution settings with support for DPI configuration.

**Improvements:**

• Client user interface is redesigned according to Material design guidelines
• Second level OTP entry fields use password asterisks.
• Support for RDP-UDP transport.
• Input fields detection.
• Detection of text for selection.
• Display multiple connections on the screen.
• Display of published items with long names.
Parallels Client (Chrome App) v16.0.0.18324

New features:

- File transfer: upload/download files to/from the server hosting a remote session.
- Support for high resolution icons.
- Ability to automatically log off clients from RAS farm if no sessions are running.

Improvements

- Second level OTP entry fields use password asterisks.
- Support for RDP-UDP transport.

Reporting v16.0.0.18324

Improvements

- Fixed session type information.

WebPortal v16.0.0.18324

Improvements

- “Secure option” is now hidden rather than disabled when the option is not needed. Error messages if applications listing times out.

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