



| Release Notes



## Connection Broker

# Advanced Capacity and Connection Management For Hybrid Clouds

Version 9.0.10 – November 2018

## Contacting Leostream

Leostream Corporation  
271 Waverley Oaks Rd.  
Suite 206  
Waltham, MA 02452  
USA

<http://www.leostream.com>  
Telephone: +1 781 890 2019

To submit an enhancement request, email [features@leostream.com](mailto:features@leostream.com).

To request product information or inquire about our future direction, email [sales@leostream.com](mailto:sales@leostream.com).

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## Leostream Gateway 1.0.0.19 Update

Leostream Gateway 1.0.0.19 is a patch update to version 1.0.0.17. It is compatible with Connection Broker 9.0.10.

This version of the Leostream Gateway resolves issues related to launching HTML5 RDP connections to Windows 10 or Windows Server 2016 operating systems that have Network Level Authentication enabled for RDP.

## Connection Broker 9.0.10 Update

Connection broker 9.0.10 is a minor update to the initial release of Leostream 9. This update includes the following features and issue resolutions.

### Features

- The new **Control** action for multi-user centers allows you to power cycle the server associated with the center. The individual sessions for a multi-user center no longer offer individual **Control** actions.
- The Role option to log users into the remote desktop as either a local or domain users can now be specified per pool in a policy.
- The default NX configuration file in protocol plans now supports the NoMachine Enterprise Client version 6.2, and the default VMware View client command line parameters now support version 2.3.3 or higher.
- Pools of AWS T3 instances can now be provisioned.
- You can now create protocol plans that do not provide any protocol option for specific client types. This allows you to prohibit users from launch desktop connections from certain clients, such as from the Leostream Web client.

### Resolved Issues

- Connection closed events are now interpreted as a disconnect, and the associated Release Plan actions are taken, in cases where the user never logged into their assigned desktop.
- Multi-user sessions assigned to users are now evaluated when a Leostream Agent restart occurs. If an active session is not found for an assigned user, the Connection Broker now releases that session.
- Deallocated Azure instances are now considered as available to power on, to meet the pool's power management threshold.

- The Connection Broker allows more time for Leostream Agents to respond, to lower the chances of agents being marked as Unreachable in high-latency environments.
- The favicon now correctly appears in the browser tabs after logging into the web client.
- The logs now contain the full JSON response returned by the Azure APIs when an error is returned to the Connection Broker.
- The Connection Broker no longer removes the images inventoried from an Azure center if Azure returns an error or empty list. This ensures that, on a subsequent successful call to Azure, existing pools continue to provision with the previously selected image.
- The **Deploy from image** drop-down menu in pools now defaults to **<Select>** instead of the first image in the list.
- The logs now contain the errors output from the LDAP queries when a user bind fails.
- Resolves rendering issue of drop-down menus on Internet Explorer 11.

## Leostream Component Updates

Leostream component upgrades are available to resolve the following issues.

- **Leostream Connect 4.0.6** for Microsoft Windows Operating Systems
  - The installation package can now install Leostream Connect and the Leostream USB drivers on the latest updates of Windows 10 desktops that enable Secure Boot.
  - The Leostream Connect system tray menu contains a new **Login using Windows credentials** option when the client is installed with the client-side single sign-on, allowing users to log back into Leostream after they exit their initial session.
  - Resolves an issue opening the **Configuration** dialog for protocol parameters.
  - Supports launching the latest VMware Horizon client.
- **Leostream Agent 7.0.5** for Microsoft Windows Operating Systems – The installation package can now install the Leostream Agent and Leostream USB drivers on the latest updates of Windows 10 desktops that enable Secure Boot.
- **Leostream Agent 4.3.23** for Linux and macOS
  - Resolves an issue disconnecting RGS 7.4 sessions based on idle time settings in release plans.

- The new `sso_desktop` parameter allows you to specify the window manager used for single sign on.
- The Leostream Agent now reports the port associated with the user's VNC session when you click **Status** on the Connection Broker > **Resources** > **Desktops** page.
- If a user has an open SSH session to a desktop, and establishes an RGS or VNC connection to that desktop using Leostream, forcefully logging the user out of their RGS or VNC session no longer closes their SSH session.

# Connection Broker 9.0 – Initial Release Notes


Connection Broker 9.0 is the next major release of the Leostream Connection Broker. It includes a new user interface and licensing scheme, as well as new Leostream Connect and Leostream Agent components and a new Leostream Gateway.

Connection Broker 9.0 includes all the issue resolutions and features available in the latest 8.2 version. For a full list of recent changes in 8.2, see the Connection broker 8.2 Release Notes.

## Important Notes

You cannot upgrade your existing Connection Broker 8.2 virtual appliance to version 9.0. You must build a new Leostream Connection Broker and obtain a new license key from [sales@leostream.com](mailto:sales@leostream.com).

After building your 9.0 Connection Broker and applying your new license, you can copy over your existing 8.2 configuration, to simplify the upgrade process. You must be running Connection Broker 8.2.37 or higher to copy your existing Connection Broker database to 9.0.

 Leostream Agent 7.0 for Windows operating systems is *not* compatible with Connection Broker 8.2.71 or earlier.

Connection Broker 9.0 supports Mechdyne TGX version 1.10. To use older versions of TGX, please remain on Connection Broker 8.2.

## Unsupported Connection Broker 8.2 Functionality

The following Connection Broker 8.2 features are no longer supported in Connection Broker 9.0. Leostream will continue to support version 8.2 for our existing customers. See the Leostream [Product Lifecycle page](#) for information on support dates for previous Connection Broker versions.

- Supported hosted platforms – The following platforms are no longer supported or are in the process of being deprecated.
  - Citrix XenApp and XenDesktop
  - Citrix XenServer
  - Open source Xen
  - Red Hat Enterprise Virtualization 3.x, including the SPICE display protocol
  - Microsoft Hyper-V 2012
- Connection Broker Skins no longer set form colors in the Administrator Web interface. Contact [support@leostream.com](mailto:support@leostream.com) for information on using customized CSS-files to modify the look-and-feel of the Connection Broke Web interface.
- The Policy Report and User Connection History report are no longer available. Use the improved User Assignment Report for detailed information about desktop usage per user.

- The Policy option to store assignment and connection information is no longer available for use with Leostream Connect for Linux and macOS.
- Display plans are no longer available. Instead, use the multi-monitor support natively provided by your chosen display protocol.
- Failover plans and failover desktops are no longer available. Use Backup Pools for all desktop failover needs.
- The Java NX client is no longer available in Protocol Plans for NX connections launched from a Web client login.
- Mechdyne TGX version 1.9 or older.

## Leostream Component Updates

- Leostream Connect for Microsoft® Windows® Operating Systems – Version 4.0.2
  - Provides support for USB redirection through the Leostream Gateway
  - Resolves issue where user pressing Ctrl-Shift-X wasn't breaking out of Shell mode
- Leostream Agent for Microsoft® Windows® Operating Systems –Version 7.0.4
  - Introduces new public key exchange to secure communication with Connection Broker 9.0.
  - Resolve issues identifying users in sub-domains.



Leostream Agent 7.0 is not compatible with Connection Broker 8.2.



The Java versions of Leostream Connect and the Leostream Agent were not upgraded between the Connection Broker 8.2 release and Connection Broker 9.0.

## Connection Broker 9.0 Features


- The Connection Broker is packaged for installation on a CentOS, Red Hat Enterprise Linux, Ubuntu, and SUSE Linux Enterprise Server operating system. Manage updates for the underlying operating system independently of your Connection Broker.
- Connection Broker 9.0 introduces a new design for the Administrator and End User Web interfaces. The Administrator menu has been reorganized to improve usability.
- Version 9.0 also introduces a new Leostream licensing scheme. You are issued a Leostream Serial number, which you can use to generate your Leostream license. Your Leostream license controls the functionality available in the Administrator Web interface.



At any time, you can contact [sales@leostream.com](mailto:sales@leostream.com) to discuss adding functionality to your Leostream license. Additional licensing fees may or may not apply.

- The Connection Broker and Leostream Agent for Windows now use a public/private key exchange to verify communications.
- Connection Broker 9.0 can be immediately attached to an external Microsoft SQL Server or PostgreSQL database after installation, avoiding the need to re-enter your Leostream license in the cluster.
- Protocol plans now provide Leostream Gateway support for RGS and TGX connections launched from Leostream Connect, as well as RDP connections launched from a Dell Wyse ThinOS client.
- Users can now send invitations to collaborate on their existing Mechdyne TGX connections.
- A new > **Resources** > **Images** page lists all images available for provisioning in Leostream pools
- You can now specify a domain when creating an OpenStack centers.
- The provisioning logic in Connection Broker 9.0 now allows many desktops to be simultaneously provisioned, instead of running serially.
- For cloud environments, you can specify additional provisioning parameters, including:
  - OpenStack – Set the security groups and availability zone
  - Azure – Use new image formats and specify security groups
  - AWS – Provision T2 unlimited instances and set an IAM role on the instance
- Role enhancements – separate role for downloading logs and add role for permission to remove users
- NIS authentication now supports SHA 512 for NIS passwords and allows policies to be assigned based on the user's `netgroup` membership.
- The Connection Broker now logs out rogue when an already-assigned user requests a connection to the desktop, not just upon the initial assignment.
- The Connection Broker no longer store Leostream Agent registrations if there is no Uncategorized Desktops center. To register desktops using the Leostream Agent, first create the uncategorized Desktops center and then install or restart your Leostream Agents, ensuring that they are pointing at your Connection Broker.

## Leostream Gateway 1.0.0.17

 The Leostream Gateway described in this document is for use with Connection Broker 9.0. You cannot upgrade the Leostream Gateway for Connection Broker 8.2 to the 9.0-compatible version.

- The HTML5 viewer now supports SSH and VNC HTML5 connections, as well as RDP.
- The Leostream Gateway can forward user login traffic to your Connection Broker, allowing you to isolate your Connection Broker in the same network as your desktops.
- The Leostream Gateway includes a new Command Line Interface for configuring certain gateway functionality, such as limiting the ports used by the Leostream Gateway and installing SSL certificates.
- The Leostream Gateway now enables UDP for RDP connections.
- You can use Connection Broker protocol plans to set additional parameters for HTML5 RDP connections.

## Appendix A: Version Compatibility

### Leostream Agent Compatibility Matrix

The following table indicates the Leostream Agent versions that are compatible with the different Connection Broker versions. Connection Brokers cannot communication with incompatible Leostream Agents, resulting in a loss in Leostream functionality.

Connection Broker	Version	8.1	8.2	9.0
Leostream Agent for Windows	5.x	Y	Y	N
	6.x	Y	Y	Y
	7.0	N	N	Y
Leostream Agent for Linux	3.x	Y	Y	N
	4.x	Y	Y	Y

- Leostream Agent versions older than 5.0 for Windows and 3.0 for Linux are not compatible with any supported Connection Broker.

## Leostream Connect Compatibility Matrix

The following table indicates the Leostream Connect versions that are compatible with the currently supported Connection Broker versions.

Connection Broker	Version	8.1	8.2	9.0
Leostream Connect for Windows	< 3.8	Y	Y	N
	3.8	Y	Y	Y
	4.0	N	Y	Y
Leostream Connect for Linux	< 3.3	Y	Y	N
	3.3	Y	Y	Y
	3.4	Y	Y	Y

- Not all features supported by the latest Leostream Connect version are available when using an older Connection Broker version.