



# PROXY Pro Version 10 What's New

***Release 10.0.0 (Hotfix #1)  
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## Overview

Version 10.0.0 marks the beginning of the 3<sup>rd</sup> generation of PROXY Pro technology. This new generation allow development to use the latest tools and technologies available, leading to even more robust and secure code. The new architecture helps to lay the foundation for many enhancements down the road including things like scale up and scale out as well as multi-factor authentication, native x64 versions etc.

### **2-Factor Authentication**

Until now, authentication had been limited to Windows Authentication. Version 10 allows us to break from that in order to use alternate identity providers and provide multi-factor authentication. The initial release will include support for talking directly to the Microsoft Azure Active Directory (AAD) tenant service.

### **Hierarchical Grouping**

The Gateway now supports hierarchical groups. These groups will possess security inheritance, and Active Directory synchronization via Host Grouping rules (i.e. organizing Hosts workstations according to their location in AD).

**Active Directory Synchronization** This feature allows for Hosts to be organized in the same way that they are organized in Active Directory. This is driven by enhancements to the Host Grouping rules feature and the addition of hierarchical groups.

### **Decoupling of components**

The Gateway Server, Web Console, and supporting SQL Server instance can now be installed on different machines. This specifically includes running against a SQL instance managed separately (perhaps a SQL Server high-availability cluster)

### **Streamlined installation experience**

Highly improved installation experience for Web Console and Gateway Server. This will facilitate the services running on multiple boxes, setting up of SQL Express if needed, and automatic handling of prerequisites.

### **HTML5 Remote Control and Recording Playback**

As an alternative to the ClickOnce or installed connection windows, version 10 introduces the ability to use an HTML5 browser with no plugin. The Web Console will offer HTML5 as an option when ClickOnce is available, and use it by default when there is no native helper application available.

### **Migration to SQL database**

All data is now kept and managed by Microsoft SQL Server. Use of the "Jet" database engine (MDB files) has been retired.

### **Tighter integration between Gateway Server and Web Console**

The Gateway companion service will no longer be necessary as Web Console and Gateway Server now communicate directly with each other.

### **Refreshed UI**

Both installed components and Web UI will have an updated look and feel

### **More functionality available in the Web Interface**

This includes full administrative functionality, so that the MMC-based Gateway Administrator is no longer required to perform certain administrative tasks.

### **Remote PrxSysInfo generation**

Ability to generate PROXY System Information reports (prxsinfo) remotely. An administrator can now remotely request their respective servers, Host and Gateway, to initiate PrxSysInfo reports, and the results of those reports will be transmitted to the client for viewing and storage.

### **DMZ Deployment**

Deployment of the Gateway into a DMZ will be fully supported since we no longer require Windows Authentication and also allow off-box SQL. This will be completely fleshed out in a follow on release to 10.0.0 but the foundation for it has been laid.

### **Optimized Scrolling**

Version 10 Masters connecting to version 10 Hosts have an optimization that greatly improves vertical scrolling.

## **Enhancements and Fixes in v10.0.0 Hotfix #1**

### **Note on upgrading to this release:**

This release supports upgrading of all server-side components directly from the v10.0.0 initial release. No uninstalls are required. The server-side components cannot be upgraded from v9 or earlier releases. All other product components, including Host and Master, support upgrading from previous releases.

New for this release:

### **Server Installation**

In version 10.0.0, installation of the server software was greatly simplified by providing a bundle installer. This allowed all of the server-side components to be installed by running a single installation file. With hotfix #1, we took this further and now guide the user step by step to ensure these components are configured correctly. Additionally, we now actively guard against many potential misconfigurations. Various scenarios which some customers ran into with the initial release have been collected, analyzed and now guarded against.

### **Server Configuration Check utility**

This is a new standalone utility added to help diagnose and modify a server installation. It will examine the server system's configuration and identify possible configuration errors. It also allows for easy changing of the DNS name, networking ports, and SSL certificate selections for the installation. This utility is conveniently accessible from the Windows Start menu.

### **Deployment Tool**

In the initial release of v10.0.0, the PROXY pro Deployment Tool had not been updated. This release contains an updated release of the Deployment Tool (v10). Installation of this tool will upgrade v9 and earlier versions while preserving the relevant/supported state. This resolves the issues around creating and applying configurations for the Master component.

Major defect fixes in this release:

- Better handling of transparent/invisible cursor shapes has been implemented. Master now treats invisible pointer as equivalent to "null" pointer, so "show local cursor if Host cursor is missing or hidden" option works.
- Cursor calibration now correct when scaling. Host user mode mouse input injection was wrong in multiple monitor configuration with different display scale factors.
- Print spooler is now stopped as appropriate after installation of Remote Printing.
- Various user interface glitches fixed throughout Web Console – popup display, column sorting, etc.

- Master v10 was not sorting by IP address correctly.
- Host Manage Visual Effects (MVE) feature more reliable, should restore wallpaper correctly, and manages ClearType setting explicitly.
- Gateway Server v10 TCP polling was broken. The Gateway server tried to simultaneously connect to entire poll range, which caused severe problems for large polling ranges. This now polls as before, one address at a time.
- Security and Reliability “X-Forwarded-For” in HTTP header on WSS protocol caused Gateway crash.
- A Master crash in specific circumstances fixed.
- A Host crash in specific circumstances fixed.
- Using PhSetup to repeatedly add security to Host configuration no longer creates duplicate entries.
- Other reliability improvements that enhance the stability of Host, Master and Gateway components.
- Account validation on non-domain joined machines evaluates the authority.
- Master cycling monitor window is now always view-only and cannot take input control.
- The Gateway server may not automatically remove transient Hosts that have gone away and may blank out most fields of a Host record if there was an error during Host status processing.
- The latest OpenSSL, v1.0.2o, has been incorporated into the product.
- The End User License Agreement for all components (EULA) has been updated.

## Documentation

Documentation is available at:

- The “**PROXY Pro Server Installation Guide**” is a PDF included in the Private Cloud Edition download (zip file)
- [PROXY Pro Web Console Operations Guide](https://products.proxynetworks.com/docs/proxy/v100/wc/)  
(https://products.proxynetworks.com/docs/proxy/v100/wc/)
- [PROXY Pro Host Guide](https://products.proxynetworks.com/docs/proxy/v100/host/)  
(https://products.proxynetworks.com/docs/proxy/v100/host/)
- [PROXY Pro Master Guide](https://products.proxynetworks.com/docs/proxy/v100/master/)  
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- [PROXY Pro Deployment Tool Guide](https://products.proxynetworks.com/docs/proxy/v100/pdt/)  
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