



# PROXY Pro Web Console Installation Guide

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This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>), cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)), and compression software from the ZLIB project (<http://www.zlib.net/>).

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## Scope of This Document

This document includes information about installing and initially configuring the PROXY Pro Web Console.

For information about operating or changing configuration settings for the PROXY Pro Web Console, please consult the *PROXY Pro Web Console Operating Guide*.

For information about installing, configuring and operating the PROXY Pro Gateway Server, please consult the *PROXY Pro Gateway Administrator Guide*.

For information about installing, configuring and operating the PROXY Pro Host application, please consult the *PROXY Pro Host Guide*.

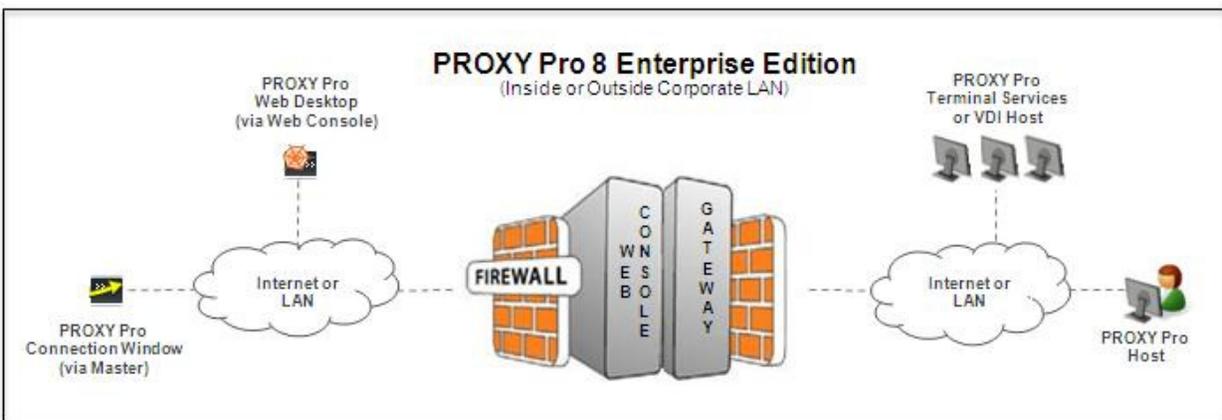
For information about installing, configuring and operating the standalone PROXY Pro Master application, please consult the *PROXY Pro Master Guide*.

For information about installing, configuring and operating the PROXY Pro Deployment Tool for mass installation and configuration of the PROXY Pro applications, particularly PROXY Pro Host, please consult the *PROXY Pro Deployment Tool Guide*.

## PROXY Pro Web Console Overview

PROXY Pro Web Console is a component of the Enterprise Edition of the PROXY Pro remote desktop solution. It is a web application that runs on Microsoft Internet Information Services (IIS) and works with the PROXY Pro Gateway Server. It gives network administrators, IT managers, helpdesk professionals and authorized employees secure web-based access to remote PCs and servers in your corporate network.

The Web Console can be used in conjunction with or instead of the standalone PROXY Pro Gateway Administrator and PROXY Pro Master applications.



## Preparing for Installation

The following sections describe requirements and prerequisites for installing and running the PROXY Pro Web Console.

### *Server Hardware Requirements*

The following section describes minimum and recommended specifications for the hardware needed to install and run the PROXY Pro Web Console server application:

Scenario	Server Hardware Requirements
<b>Minimum</b>	<ul style="list-style-type: none"><li>• 1 x 2.0 GHz dual-core CPU</li><li>• 2 GB RAM</li><li>• 1024 x768 display</li></ul>
<b>Recommended</b>	<ul style="list-style-type: none"><li>• 2 x 2.0 GHz dual-core CPU</li><li>• 4+ GB RAM</li><li>• 1024 x768 display</li></ul>

Recommended hardware requirements are intended to support a typical PROXY Pro environment with 1 to 5 Administrative and Master accounts, and up to 200 remote desktops. Larger environments will likely require even more powerful server hardware and/or multiple Web Console/Gateway Server installations.

### *Server Software Requirements*

The following software must be installed on the server where you install PROXY Pro Web Console:

Server Component	Server Software Requirements
<b>OS</b>	<ul style="list-style-type: none"><li>• Microsoft Windows Server 2012</li><li>• Microsoft Windows Server 2008 R2</li><li>• Microsoft Windows Server 2008</li></ul>
<b>Gateway</b>	<ul style="list-style-type: none"><li>• PROXY Pro Gateway Server v8.0.2 or later</li></ul>
<b>Web Console</b>	<ul style="list-style-type: none"><li>• PROXY Pro Web Console v8.0.2 or later</li><li>• Microsoft .NET Framework 4.0 Full Profile</li><li>• Microsoft ASP.NET MVC 3</li></ul>
<b>Database</b>	<ul style="list-style-type: none"><li>• Microsoft SQL Server Express 2008 R2</li><li>• Microsoft Windows Installer 4.5 or later (required by SQL Server Express)</li><li>• Microsoft .NET Framework 3.5 SP1 (required by SQL Server Express)</li></ul>
<b>Web Server</b>	<ul style="list-style-type: none"><li>• Microsoft IIS 7 configured with:<ul style="list-style-type: none"><li>○ ASP.NET</li><li>○ Basic Authentication</li><li>○ IIS Windows Authentication</li><li>○ IIS Management Console</li><li>○ HTTP Redirection</li><li>○ Static Content</li></ul></li></ul>

## ***Client Software Requirements***

The following software must be installed on the machine used to access the PROXY Pro Web Console:

<b>Client</b>	<b>Client Requirements</b>
<b>OS</b>	<ul style="list-style-type: none"><li>• Windows 8</li><li>• Windows 7</li><li>• Windows Vista</li><li>• Windows XP</li></ul>
<b>Web Browser</b>	<ul style="list-style-type: none"><li>• Internet Explorer 9.x</li><li>• Internet Explorer 8.x</li></ul>

*NOTE: We do not support the installation of the PROXY Pro Web Console on a server that also runs Windows Server Update Services (WSUS).*

*NOTE: We also do not support the installation of the PROXY Pro Web Console on a domain controller.*

## Installing PROXY Pro Gateway Server

The PROXY Pro Gateway Server v8.0.2 (Gateway.msi) must be present and running on the same server as the PROXY Pro Web Console (GatewayWeb.msi). You can install the Gateway Server or upgrade from a previous version.

**NOTE:** You can skip steps 2 and 3 if you are upgrading the Gateway Server from a previous version.

Step	Actions
1	Double-click <b>Gateway.msi</b> and install both the "Gateway Administrator" and "Gateway Server" components.
2	The Gateway Server runs as a Windows Service Account, and by default the account name will be "DOMAIN\RemoteControlGateway". The installer will create this domain account in Active Directory for you. If you are upgrading from a previous version, the account will not be created as it would already exist.
3	If you are not in an Active Directory domain environment, the Gateway Service Account must be created manually in Windows Computer Management. The account does not have to be a local Administrator, but it will require the "Log on as a Service" right. After creating the account, open Administrative Tools -> Local Security Policy. Expand Local Policy, highlight User Rights Assignment, and find "Log on as a Service" on the list and add the Gateway Service Account that you just created (DOMAIN\RemoteControlGateway) to the list.

## Preparing to install the PROXY Pro Web Console

PROXY Pro Web Console requires several prerequisites to be in place, in addition to PROXY Pro Gateway Server:

Step	Actions
1	Install all available Windows Updates on your Windows Server 2008 OS. Anything listed as "Optional" updates are not required. Reboot when required, and run updates again, to ensure that your server is fully patched with the latest and greatest updates before getting started.
2	Visit the following link to download and install the Microsoft Web Platform Installer: <a href="http://www.microsoft.com/web/downloads/platform.aspx">http://www.microsoft.com/web/downloads/platform.aspx</a> . This is essentially a package manager that allows you to conveniently download and install each of the Proxy Web Console's pre-requisites found in the next step.
3	Launch Web Platform Installer 4.5, click " <b>Products</b> " from the top-most section and then begin selecting the below components from the list of items: <ul style="list-style-type: none"><li>• IIS: ASP.NET</li><li>• IIS: Basic Authentication</li><li>• IIS: Windows Authentication</li><li>• IIS: Management Console</li><li>• IIS: HTTP Redirection</li><li>• IIS Recommended Configuration</li><li>• SQL Server 2008 R2 Management Studio Express with SP1</li><li>• SQL Server Express 2008 R2</li></ul>
4	Click <b>Install</b> and agree to the list of dependencies. The download and installation process of these pre-requisites may take anywhere from 10 minutes to an hour or more, depending on the speed of the internet connection.

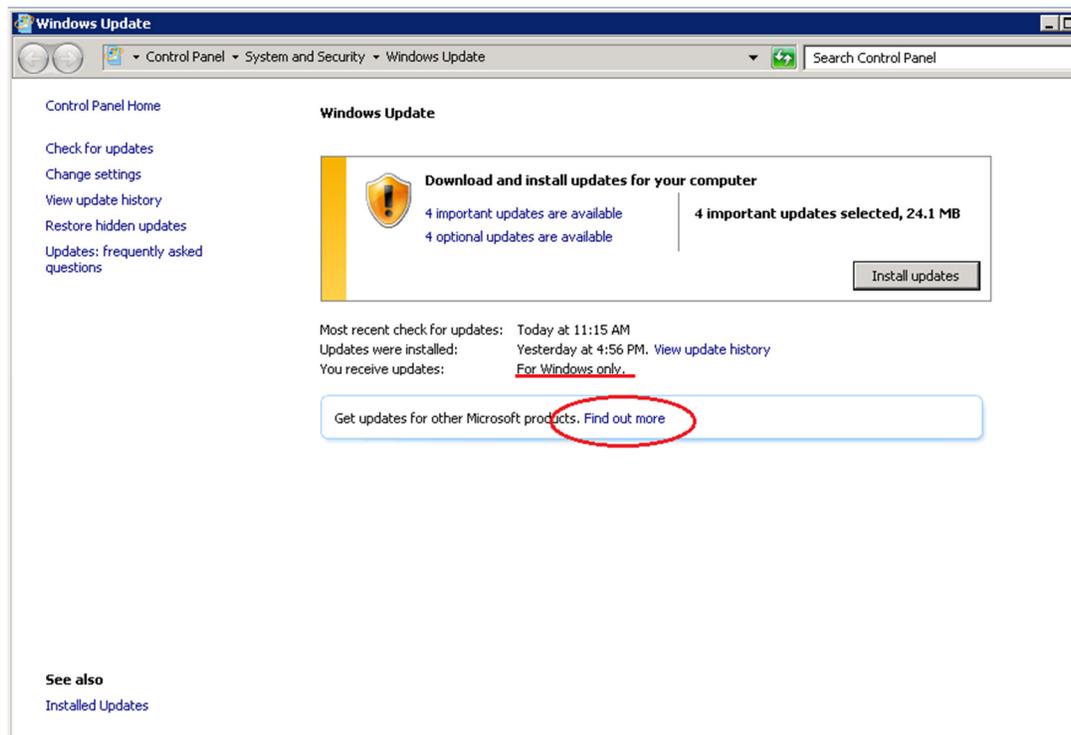
- 
- 5 Select **Windows Integrated Authentication** when prompted and click **Continue**

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  - 6 After installation, run the following commands in an elevated command prompt. This ensures that ASP.NET v4 is properly registered with Internet Information Services (IIS)
    - `cd "C:\WINDOWS\Microsoft.NET\Framework\v4.0.30319"`
    - `aspnet_regiis -i`

---

  - 7 After all pre-requisite software has been installed, run Windows Update again **and upgrade to Microsoft Update by clicking the "Find out more" button** (if you have not yet already done so). The key difference is that Windows Update gathers updates for the operating system only, and Microsoft Update gathers operating system updates plus updates for any installed Microsoft products (SQL). It's **critical** that your server be fully patched with the latest and greatest Microsoft updates for best results; below is how to upgrade from Windows Update to Microsoft Update:



## Configuring SQL Server Express 2008 R2

The next step is to configure the SQL database:

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Step	Actions
1	Open SQL Server Management Studio and click <b>Connect</b> on the "Connect to Server" screen

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- 
- 2 Right-click the server name in the “Object Explorer” pane and click **Properties**
    - If the server memory is less than 2GB, highlight **Memory** and assign 512MB for the “Max Server Memory” field
    - If the server memory is greater than 2GB, highlight **Memory** and assign 1024MB for the “Max Server Memory” field

## ***Installing the PROXY Pro Web Console***

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<b>Step</b>	<b>Actions</b>
<b>1</b>	Double-click <b>GatewayWeb.msi</b> to install the PROXY Pro Web Console.
<b>2</b>	When prompted to select a database server, leave the default values as “(local)\SQLEXPRESS” and “Windows authentication credentials of current user” and click <b>Next</b> to continue the installation.
<b>3</b>	When prompted to select a web site authentication method, select one of the following: <ul style="list-style-type: none"><li>• Basic Authentication – Simplest and most compatible HTTP 1.0 authentication.</li><li>• *Integrated Windows Authentication – Microsoft NTLM or Kerberos V5 authentication for use in environments desiring Single Sign-On capability.</li></ul> <p>*Recommended for use in any domain environment.</p>
<b>4</b>	Click <b>Next</b> and then <b>Install</b> to continue the installation.
<b>5</b>	Click <b>Finish</b> . Internet Explorer will automatically launch and bring you directly to the PROXY Pro Web Console’s login prompt ( <a href="https://&lt;servername&gt;">https://&lt;servername&gt;</a> ). Note that it’s normal to receive the website certificate error because one is not yet in place. Please read the following section before attempting to log in for the first time.

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## ***Logging into the PROXY Pro Web Console for the first time***

Once you reach this point in the installation process and are ready to log into your Proxy Web Console for the first time to it is suggested that you review the Proxy Web Console Operations Guide PDF for additional information about first-time configuration.

The user account credentials (domain\username and password) you supply to log into the PROXY Pro Web Console for the first time **must meet** one of the following criteria:

- The local user account named “Administrator”
- A domain user account that is a member of the Local Administrators group
- A local account that is a member of the local Administrators group – but only if UAC (User Account Control) is disabled

The user account credentials you provide when logging into the Web Console for the first time will automatically become an Administrative account. **Do not** attempt to log into the Proxy Web Console as the Gateway Service Account.

**Note:** *If UAC is enabled, local machine accounts that are members of the Local Administrators group do not run as elevated users and therefore do not have the rights that are given to the Local Administrators group. For this reason local machine accounts should not be designated as Administrative account type when UAC is enabled.*

## Accounts Tab - Importing New Web Console Accounts

Each user account imported into your Proxy Web Console's **Accounts** tab will be designated as one of the following three account types: **Administrative** users, **Master** users, or **Personal** users.

- **Administrative Accounts** are users who are expected to have Full Control/Administration rights within Proxy, including the ability to view & modify Gateway Server settings, configure access rights for all other users of the Master and Personal account types, and run usage reports. A user of an Administrative account type will see all 7 tabs in the Proxy Web Console.
- **Master Accounts** would be the account type designated for each of your day-to-day Proxy users. Users of this account type do not have administration rights over the Gateway Server and may be granted a broad level of access Hosts and Groups (as defined by an Administrative user) and will see only the Home, Hosts and Recordings tabs.
- **Personal Accounts** are users who may log into your Proxy Web Console from anywhere and take remote control a single Host computer - their desktop PC at the office. Personal Accounts were designed with end-users in mind and is intended to be an ideal work-from-home to be used by any employee at your company who has the need to work remotely.

Accounts can be imported, modified or deleted by a user of the Administrative account type at any point from the **Accounts** tab in the Proxy Web Console.

Follow the steps below to create new accounts in the Web Console.

Step	Actions
1	From the PROXY Pro Web Console, click <b>Accounts</b> and then click <b>Import New Account</b> .
2	Select the location where the account resides. This is either the local computer name or the name of the domain if the computer is joined to a domain.
3	Enter the account name (or part of) to import.
4	Click <b>CheckNames</b> to verify the account or group name entered. If more than one account name, a list will be provided to choose from.
5	Click <b>Next</b> .
6	Select an account type for the user and click <b>Next</b> . <ul style="list-style-type: none"> <li>• For an Administrative account, the account must meet the criteria specified above in the "Login" section.</li> <li>• For a Master account, select the Host Groups that this account will be able to access (i.e. "All Hosts"). Note that Host Groups would first need to be created, which can be done from the "Hosts" tab .</li> <li>• For a Personal account, choose the single Host that this account will be able to access.</li> </ul>
7	Click <b>Save</b> . New accounts will now appear on the <b>Accounts</b> page where they can be viewed or managed. The newly imported user accounts will now be able to log into your Proxy Web Console and connect to the Hosts they were permitted to, as defined by the Administrative user.

## Post-Installation Best Practices

### Proxy Web Console's "Gateway" Tab -> General

**Moving Hosts from "Unmanaged Hosts" to "All Hosts"** - The default behavior of the Proxy Web Console server is that when Proxy Host machines first report into your server, they will be housed within the "Unmanaged Hosts" group, until moved into the "All Hosts" group where they will then be accessible for connectivity. From the "Hosts" tab, you can hover over the drop-down arrow beneath "Unmanaged Hosts" and click "Members" to selectively choose which newly deployed Host machines should be moved into your "All Hosts" group.

If you prefer that newly deployed Host machines become immediately accessible the moment they first report into your server, we can configure the server to automatically move newly discovered Hosts from "Unmanaged Hosts" directly into your "All Hosts" group, which is typically helpful during first-time setup.

To set this, log into the Proxy Web Console as an Administrative user and click the "Gateway" tab. At the top, in the "General" section, click the "Edit" button which will bring up the properties - tick the checkbox at the top and upon clicking "Apply Changes", any Host that reports in from here on out will be placed automatically into your "All Hosts" group so that they become immediately accessible for connectivity the moment they report in for the first time.

The screenshot shows the Proxy Web Console interface. The top navigation bar includes tabs for HOME, HOSTS, RECORDINGS, ACCOUNTS, ACTIVITY, ANALYTICS, and GATEWAY. The GATEWAY tab is active. Below the navigation bar, there are sub-tabs for GATEWAY SETTINGS, GATEWAY LICENSES, POLLING RANGES, GATEWAY ACCOUNTS, and WEB CONSOLE SETTINGS. The GATEWAY SETTINGS section is expanded to show a table of settings. The table has two columns: NAME and VALUE. The first row is 'PROXY Pro Gateway Server Version' with a value of '8.0.2.1995'. The second row is 'Station Name' with a value of 'IP-0AF2D54F'. An 'Edit' button is located to the right of the table. Below the table, there is a 'GENERAL' section. Under 'GENERAL', there is a 'Gateway station name' field with the value 'IP-0AF2D54F'. Below that, there is a section for 'Workstation-based Host management' with a checked checkbox for 'Automatically move newly discovered workstations from "Unmanaged Hosts" to the "All Hosts" group'. Below that, there is a section for 'User-based Host management' with an unchecked checkbox for 'Enable management of Hosts by logged-in usernames'.

**Status Updates for Managed Hosts** - The Host machines do their due diligence of sending status updates to the server periodically, and always when something "interesting" happens on any given Host machine. When the Proxy Host Service starts (during a normal boot), when the service stops (when the machine is powered off) cause the Host to tell the server that it's now available, or has just gone offline. Also, status updates are sent when a user logs into Windows, or logs out, and also whenever any change is applied to the Proxy Host settings.

The Proxy Web Console Server does the reverse in 30 minute intervals by default; it will contact each Host to ensure that they are listed to you as accurately as possible. For any Hosts that are offline, and cannot be contacted, the Hosts will continue to be marked as offline. Do not set this lower than 30 minutes due to what is stated in the previous paragraph, and for larger environments of 1000 or more Hosts, you may want to set this

## Post-Installation Best Practices (continued)

to 60 or even 90 minutes to ensure that each Host is reached within that time frame. Otherwise, it's generally safe to leave this 30 minute value as-is.

**GENERAL** x

Gateway station name:

Workstation-based Host management

Automatically move newly discovered workstations from "Unmanaged Hosts" to the "All Hosts" group

User-based Host management

Enable management of Hosts by logged-in usernames

Show logged-in users by username only (without domain names)

Automatically move newly discovered usernames from "Unmanaged Hosts" to the "All Hosts" group

Status updates for managed Hosts

Update Host status every  minutes

Automatic Host Cleanup

Delete Hosts with last connect time older than  days

Concurrent User License Mode Inactivity Timeouts

Warn users after  minutes

Log users out after an additional  minutes

Automatically release input control after  minutes

**Automatic Host Cleanup** - While we're still looking at the "General" section, you may also define how long inactive/old Host machines remain within the database. The default is 120 days, however, you may decide that the Gateway purge old Host records more frequently should you recycle or re-image machines on a relatively regular basis. For example, if you set this to 7 days, and a user takes a two week vacation and has his or her laptop powered off in a closet, the server will delete the Host - but it will report right back into your "All Hosts" group when the end-user powers their laptop on once again.

**GENERAL**

Gateway station name:

Workstation-based Host management

Automatically move newly discovered workstations from "Unmanaged Hosts" to the "All Hosts" group

User-based Host management

Enable management of Hosts by logged-in usernames

Show logged-in users by username only (without domain names)

Automatically move newly discovered usernames from "Unmanaged Hosts" to the "All Hosts" group

Status updates for managed Hosts

Update Host status every  minutes

Automatic Host Cleanup

Delete Hosts with last connect time older than  days

Concurrent User License Mode Inactivity Timeouts

Warn users after  minutes

Log users out after an additional  minutes

Automatically release input control after  minutes

**Setting Concurrent User Inactivity Timeouts** - The default behavior of the Proxy Web Console is that you will receive a message after 15 minutes, asking if you'd like to stay logged in. If 5 more minutes pass without acknowledging the prompt, you will be automatically logged out of the console to free up a license slot for someone else who may need it. This is where you may define your own time out values if you like.

**GENERAL**

Gateway station name: IP-0AF2D54F

Workstation-based Host management

Automatically move newly discovered workstations from "Unmanaged Hosts" to the "All Hosts" group

User-based Host management

Enable management of Hosts by logged-in usernames

Show logged-in users by username only (without domain names)

Automatically move newly discovered usernames from "Unmanaged Hosts" to the "All Hosts" group

Status updates for managed Hosts

Update Host status every 30 minutes

Automatic Host Cleanup

Delete Hosts with last connect time older than 121 days

Concurrent User License Mode Inactivity Timeouts

Warn users after 15 minutes

Log users out after an additional 5 minutes

Automatically release input control after 10 minutes

Apply Changes Cancel

**Recording** - The Proxy Web Console allows you to create screen recordings of Host machines with or without you having to actually be connected for remote control, and the recordings get stored by default within the installation directory. Click the "Edit" button on the "Recording" section if you'd like to specify an alternate directory to which those screen recording files should be saved.

▼ Schedule Edit Top

Periodic Tasks Schedule	Daily @6:00 AM
▼ Recording <span>Edit</span> <span>Top</span>	
Recording Directory	C:\Program Files\Proxy Networks\PROXY Pro Gateway\Data\Recordings
Maximum recorded session size (kilobytes)	2097151
Maximum recorded session duration (hours)	744
Automatically delete sessions older than (hours)	n

**RECORDING**

Recording File Directory: C:\Program Files\Proxy Networks\PROXY Pro Gateway\Data\Recordings

Automatic Checkpoint Generation

Minimum data size (KB) before criteria checked	100
Maximum data size (KB) after minimum met	3072
Maximum duration (seconds) after minimum met	3072

Limits

**Grouping** - Automatic Host Grouping rules can be made after creating some additional groups on the "Hosts" tab. Upon clicking "Edit", you may make rules that cause your Hosts to be automatically placed into groups of your choosing, and this relatively new feature is designed to facilitate the process of ensuring that your endpoint Host machines end up in their appropriate Managed Host Group. For example, if you have a Boston office whereby all of those machines report in from 192.168.30.1-255, you may create a rule that places any Hosts that report in from that IP address range into your desired group.

The screenshot shows the configuration interface for host grouping. At the top, there is a table with the following data:

Global Host Grouping Policy	Put Host in Specific Group
Global Host Grouping Group	Hartford, CT
Extension Tag	CustomerAName, CustomerAValue, Customer_A
Extension Tag	CustomerBName, CustomerBValue, Customer_B
IPv4 Address	192.168.20.1(255), Marketing Machines

Below this is a 'GROUPING' dialog box. It contains the following elements:

- Buttons: "Add Active Directory Rule...", "Add IPv4 Address Rule...", "Add Tag Rule..."
- Table of Rules:

RULE TYPE	CONDITION	GROUP	ACTION
Extension Tag	CustomerAName, CustomerAValue	Customer_A	Remove
Extension Tag	CustomerBName, CustomerBValue	Customer_B	Remove
IPv4 Address	192.168.20.1(255)	Marketing Machines	Remove

Below the table, there are options for "Action When No Rules Match":

- Put Host in "All Hosts" group only
- Put Host in the group: Hartford, CT
- Leave existing Group memberships alone

Buttons at the bottom: "Apply Changes", "Close".

### **Enabling Single Sign On (SSO) for your Proxy Web Console**

**Single Sign On (SSO)** allows Proxy Web Console users to become automatically logged into the console without the need to input credentials upon clicking the "Find a Desktop" button. SSO is also extended to connecting to Hosts, in that you will not be prompted for credentials when the connection window launches. SSO will work if (a) the user account is listed on the "Accounts" tab and (b) the user is logged into Windows as themselves when clicking the "Find a Desktop" button to log into the console.

**Enabling Single Sign On (Step 1 of 2)** - While logged into the console as an Administrative user, click the "Gateway" tab and then the "Web Console Settings" sub-tab. For the "Application Access - Internal" section, click "Edit" and select "Single Sign On" as the Web Desktop Authentication Mode.

HOME HOSTS RECORDINGS ACCOUNTS ACTIVITY ANALYTICS GATEWAY

GATEWAY SETTINGS GATEWAY LICENSES POLLING RANGES GATEWAY ACCOUNTS WEB CONSOLE SETTINGS

### WEB CONSOLE SETTINGS

JUMP TO ▾

NAME	VALUE
General <span>Edit</span> <span>Top</span>	
Audit Data Update Interval (minutes)	1
Default Number of Table Rows	20
Hide Disabled Navigation Tabs	Yes
Web Console Message	Proxy Web Console - Demo Environment
Application Access – Internal <span>Edit</span> <span>Top</span>	
Web Desktop Authentication Mode	Web Console User
Web Desktop Gateway Protocol	UDP 2303

### APPLICATION ACCESS – INTERNAL

Web Desktop Authentication Mode:  Web Console User  Always Prompt  Single Sign-on

Web Desktop Gateway Protocol:

Web Desktop Gateway Specifier:

Web Desktop URL:

Update Cancel

**Enabling Single Sign On (Step 2 of 2)** - From the server running your Proxy Web Console, open IIS. Expand "Sites", then expand "PROXY Pro Web Console" and highlight "wc". In the middle pane, double-click "Authentication" and leave only "Windows Authentication" enabled.

Internet Information Services (IIS) Manager

TBD-HOD-M1SMALL > Sites > PROXY Pro Web Console > wc >

File View Help

Connections

- Start Page
- TBD-HOD-M1SMALL (TBD-HOD-M1SMALL)
- Application Pools
- Sites
  - Default Web Site
  - PROXY Pro Web Console
    - aspnet\_client
    - bin
    - Content
    - Scripts
    - Views
    - wc**
    - wcapps

/wc Home

Filter: Show All Group by: Area

ASP.NET

- .NET Authorizati...
- .NET Compilation
- .NET Error Pages
- .NET Globalization
- .NET Profile
- .NET Trust Levels
- Application Settings
- Connection Strings
- Machine Key
- Pages and Controls
- Session State
- SMTP E-mail

IIS

- ASP
- Authentication**
- Authorization Rules
- CGI
- Compression
- Default Document
- Directory Browsing

### Authentication

Group by: No Grouping

Name	Status	Response Type
Anonymous Authentication	Disabled	
ASP.NET Impersonation	Disabled	
Basic Authentication	Enabled	HTTP 401 Challenge
Digest Authentication	Disabled	HTTP 401 Challenge
Forms Authentication	Disabled	HTTP 302 Login/Redirect
<b>Windows Authentication</b>	<b>Disabled</b>	HTTP 401 Challenge

## ***Optimizing the Proxy Pro Web Console***

The following are some general guidelines for managing the performance, security and other aspects of the PROXY Pro Web Console and Gateway Server.

### ***Scalability***

The PROXY Pro Gateway Server is capable of facilitating connectivity to hundreds and even thousands of remote Host machines, whether they reside inside or outside of the LAN. Note, however, that Gateway Server connections with Hosts outside the LAN (called reverse connections) use up much more resource than those within the LAN. The server should be located in the environment where the majority of the Hosts are.

### ***Security***

PROXY Pro software uses the Windows Security Model for authentication. This allows you to robustly define who (by either local or domain accounts) has the ability to connect to the Gateway Server, which Hosts they can access and what functional rights they have during the connection. Available with the SSL and TCP/IP protocols, the Gateway Server can be configured to only accept incoming connections from a list of IP address ranges that you define. This is a mechanism that can prevent network intrusion attempts, as each PROXY Pro user must first be able to communicate with the Gateway Server before credentials may be passed for authentication.

### ***Performance***

If latency is a factor in your environment, this can affect remote access but fortunately PROXY Pro comes with mechanisms which allow you to hand-configure a number of variables so that PROXY Pro delivers the optimal performance overall, suited for your particular environment. The screen capture variables that can be adjusted include the remote Host's overall image quality or color depth, the frequency in which PROXY Pro captures a remote Host's screen data, along with the amount of bandwidth that is transmitted during a connection. These screen capture settings are configured on the Host-side and can automatically be applied during the installation of the Host. Please see the PROXY Pro Host manual for complete details on these settings, and the PROXY Pro Deployment Tool manual will explain how to create a custom Host installation package containing these and any other Host settings.

### ***Bandwidth Utilization***

The PROXY Pro Host can be configured to utilize a specific amount of bandwidth, ranging as low as 20KB/sec up to 199KB/sec, and by default this value is "Unlimited". To set this value, open the PROXY Pro Host Control Panel to the "Screen" tab, click the radio button for "Prefer User Mode Screen Capture" and then click the "Configure" button. Then, select "Custom" from the profile drop-down and you will then be able to utilize the slider bar at the bottom to set a specific bandwidth value.

The PROXY Pro Gateway can be configured to over-ride the aforementioned Host-side screen capture settings for recordings only.