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NetExtender Feature Overview

Topics:

Document Scope

Document Scope

This document provides a brief overview of the SonicWall SMA 10.2.1 NetExtender features, concepts, and how to configure and manage them.

Topics:

- What is NetExtender
- Benefits of using NetExtender
- NetExtender Concepts
- Supported Platforms
- Feature Support in NetExtender

What is NetExtender

SonicWall NetExtender is a transparent software application that enables the remote users to securely connect to the remote network. With NetExtender, remote users can securely run any application on the remote network. Users can upload and download files, mount network drives, and access resources in the same way as if they were on the local network. The NetExtender connection uses a Point-to-Point Protocol (PPP) connection.

Benefits of using NetExtender

NetExtender provides remote users with full access to the protected internal network. The experience is virtually identical to that of using a traditional IPSec VPN clients, but NetExtender does not require any manual client installation. Instead, the stand-alone NetExtender client is automatically installed on the PC of a remote user by

an HTML5 control when using the Edge or Firefox. On Linux systems, supported browsers use Java controls to automatically install NetExtender from the Virtual Office portal.

The NetExtender Windows client also has a custom-dialer that allows it to be launched from the Windows Network Connections menu. This custom-dialer allows NetExtender to be connected before the Windows domain login. The NetExtender Windows client also supports a single active connection, and displays real-time throughput and data compression ratios in the client.

After installation, NetExtender automatically launches and connects a virtual adapter for SSL-secure NetExtender point-to-point access to permitted hosts and subnets on the internal network.

NetExtender Concepts

The following sections describes the advanced concepts of SonicWall NetExtender

- Stand-Alone Client
- Installing NetExtender through Microsoft Installer Pre-filling the Server and Domain Fields
- NetExtender support Network logon (PreLogon)
- Multiple Ranges and Routes
- IP Address User Segmentation
- Client Routes
- External Authentication Methods
- Point to Point Server IP Address
- Tunnel All Mode
- Proxy Configuration
- About SMA Connect Agent
- Supported Operating Systems for Connect Agent

Stand-Alone Client

Secure Mobile Access provides a stand-alone NetExtender application. NetExtender is a browser-installed lightweight application that provides comprehensive remote access without requiring users to manually download and install the application. The first time a user launches NetExtender, the NetExtender stand-alone client is automatically installed on the user's PC. The installer creates a profile based on the user's login information. The installer window then closes and automatically launches NetExtender. If the user has a legacy version of NetExtender installed, the installer first uninstalls the old NetExtender and installs the new version.

After the NetExtender stand-alone client has been installed, Windows users can launch NetExtender from their PC's **Start > Programs** menu and configure NetExtender to launch when Windows boots.

NetExtender can establish a VPN session before the user logs into the Windows domain. Users can click **Switch User** on the Windows login screen and click the blue computer icon that appears at the right bottom of the screen to view the dialup connection list, and then can select NetExtender to connect. On Linux systems, the installer creates a desktop shortcut in /usr/share/NetExtender. This can be dragged to the shortcut bar in environments like Gnome and KDE.

NetExtender is officially supported on the following client platforms

- Fedora core 36+ or Red Hat Enterprise Linux 8.x+
- Ubuntu 20.04+
- OpenSUSE 15.4+ or CentOS 8.x+
- Windows 11/10

NetExtender might work properly on other Linux distributions, but they are not officially supported by SonicWall.

Installing NetExtender through Microsoft Installer - Pre-filling the Server and Domain Fields

Installing NetExtender through Microsoft Installer (MSI) now supports the use of default profile settings during the installation process where the default server and default domain can be pre-filled along with additional options that control whether the server and domain fields can be edited by a standard user. This feature is designed specifically for administrators who want their default servers and domains pre-set during the installation process.

To set the default server and domain during the NetExtender Installation with Microsoft Installer:

- 1. On the **Default Profile Setting** page, enter the **IP address of the Default Server** in the appropriate fieldand the location of the **Default Domain** in the second field.
- 2. Disable **Allow connections to other profiles** to prevent users from connecting to other profiles. This setting disables the Server and Domain fields for editing on the login page of NetExtender.
- 3. Enable this option to allow those connections. If this option is not enabled, users are not able to add or delete profiles on the NetExtender properties page.

NetExtender support Network logon (PreLogon)

(i) NOTE: Network Logon support is available from SMA 10.2.1.9 onwards.

Users always log in to their Windows accounts before connecting a VPN tunnel. But in a typical scenario, a VPN tunnel (NetExtender) is required to allow the user to log in for the first time or after a password reset. Network Logon (PreLogon) is a feature that allows users to establish a VPN tunnel (NetExtender) before they can log on to their Windows accounts.

To enable Network Logon (PreLogon) and more information, see Enabling Network Logon (PreLogon) feature on NetExtender section.

Multiple Ranges and Routes

The Network administrators can use the multiple range and route support of NetExtender to easily segment groups and users, without configuring firewall rules to govern access. This user segmentation allows granular

control of access to the network, allows users to access the necessary resources, and restricts access to the sensitive resources to only those who require them.

For networks that do not require segmentation, client addresses and routes can be configured globally.

IP Address User Segmentation

Administrators can configure separate NetExtender IP address ranges for users and groups. These settings are configured on the **Users > Local users** and **Users > Local groups** pages. A **NetExtender** tab has been added to the **Edit User** and **Edit Group** windows.

When configuring multiple user and group NetExtender IP address ranges, it is important to know how the SMA appliance assigns IP addresses. When assigning an IP address to a NetExtender client, the SMA appliance uses the following hierarchy of ranges:

- An IP address from the range defined in the user's local profile.
- An IP addRess from the range defined in the group profile to which the user belongs.
- An IP address from the global NetExtender range.

To reserve a single IP address for an individual user, enter the same IP address in both the **Client Address Range Begin** and **Client Address Range End** fields on the **NetExtender** tab of the **Edit Group** window.

Client Routes

NetExtender client routes are used to allow and deny access to various network resources. You can configure the client routes at the user and group level. NetExtender client routes are also configured on the **Edit User** and **Edit Group** windows. The segmentation of client routes is fully customizable allowing administrator to specify any possible permutations of user, group, and global routes. For example, only group routes, only user routes, group and global routes, user, group, and global routes, and so on. This segmentation is controlled by **Add Global NetExtender Client routes** and **Add Group NetExtender Client routes**.

External Authentication Methods

Networks that use an external authentication server are not configured with local user names on the SMA appliance. In such cases, when a user is successfully authenticated, a local user account is created when the **Add Global NetExtender Client routes** and **Add Group NetExtender Client routes** settings are enabled.

Point to Point Server IP Address

In Secure Mobile Access, the PPP server IP address is 192.0.2.1 for all connecting clients. This IP address is transparent to both the remote users connecting to the internal network and to the internal network hosts communicating with remote NetExtender clients. Because the PPP server IP address is independent from the NetExtender address pool, all IP addresses in the global NetExtender address pool are used for NetExtender clients.

Tunnel All Mode

Tunnel All mode routes all traffic to and from the remote user over the Secure Mobile Access NetExtender tunnel including traffic to the remote users local network. This accomplished by adding the following routes to all remote clients' route table.

TUNNEL ALL MODE: ROUTES TO BE ADDED TO REMOTE CLIENT'S ROUTE TABLE

IP Address	Subnet Mask
0.0.0.0	0.0.0.0
0.0.0.0	128.0.0.0
128.0.0.0	128.0.0.0

NetExtender also adds routes for the local networks of all connected Network Connections. These routes are configured with higher metrics than any existing routes to force traffic destined for the local network over the Secure Mobile Access tunnel instead. For example, if a remote user is has the IP address 10.0.67.64 on the 10.0.*.* network, the route 10.0.0/255.255.0.0 is added to route traffic through the Secure Mobile Access tunnel.

Tunnel All mode is configured at the global, group, and user levels.

Proxy Configuration

SMA appliances support NetExtender sessions using proxy configurations. Currently, only HTTPS proxy is supported. When launching NetExtender from the Web portal, if your browser is already configured for proxy access, NetExtender automatically inherits the proxy settings. The proxy settings can also be manually configured in the NetExtender client preferences. NetExtender can automatically detect proxy settings for proxy servers that support the Web Proxy Auto Discovery (WPAD) Protocol.

NetExtender provides three options for configuring proxy settings:

- Automatically detect settings To use this setting, the proxy server must support Web Proxy Auto Discovery Protocol (WPAD) that can push the proxy settings script to the client automatically.
- Use automatic configuration script If you know the location of the proxy settings script, you can select this option and provide the URL of the script.
- Use proxy server You can use this option to specify the IP address and port of the proxy server. Optionally, you can enter an IP address or domain in the **BypassProxy** field to allow direct connections to those addresses and bypass the proxy server. If required, you can enter a user name and password for the proxy server. If the proxy server requires a username and password, but you do not specify them, a NetExtender pop-up window prompts you to enter them when you first connect.

When NetExtender connects using proxy settings, it establishes an HTTPS connection to the proxy server instead of connecting to the SMA server directly. The proxy server then forwards traffic to the SMA server. All traffic is encrypted by SSL with the certificate negotiated by NetExtender, of which the proxy server has no knowledge. The connecting process is identical for proxy and non-proxy users.

About SMA Connect Agent

The Browser Plug-ins (NPAPI) are used to launch native applications such as NetExtender, EPC and so on. For security reasons, popular browsers block theses Plug-ins. The Chrome and Edge browsers, for example, has disabled all NPAPI Plug-ins. As such, the ease-of-use ability of launching directly from the browser is no longer functional, and a new method for seamless launching is necessary.

There is another application to launch that opens a specific Scheme URL. There are some Schemes already defined in the Windows/macOS, such as *mailto*. The SMA Connect Agent uses the Scheme URL to replace the Browser Plug-ins. The SMA Connect Agent is like a bridge that receives the Scheme URL requests and launches the specific native application.

To launch the Citrix Workspace through a Citrix bookmark, you must first install the SMA Connect Agent.

Supported Operating Systems for Connect Agent

The SMA Connect Agent supports Windows and Mac operating systems.

Supported Platforms

Topics:

- NetExtender Client Versions
- Supported Clients
- Supported SonicWall Appliances

NetExtender Client Versions

The NetExtender client versions include the following:

Description	Version
NetExtender for Windows 10/11 64 bit MSI/EXE	10.2.337
NetExtender for Windows 10 32-bit MSI/EXE	10.2.337
NetExtender for 32-bit Linux TGZ	10.2.850
NetExtender for 64-bit Linux TGZ	10.2.850
NetExtender for 32-bit Linux RPM	10.2.850
NetExtender for 64-bit Linux RPM	10.2.850

Supported Clients

NetExtender 10.2.337 is supported on computers running the following Windows versions:

• Windows 11/10 with the latest patches.

NetExtender 10.2.850 is supported on computers running the following Linux versions:

- Ubuntu 20.04+.
- Fedora Core 36+ or Red Hat Enterprise Linux 8.x+.
- OpenSUSE 15.4+ or CentOS 8.x+.

(i) **NOTE:** Always on VPN and SND are available with NetExtender MSI client for Windows, but not with NetExtender for Linux.

Supported SonicWall Appliances

SonicWall appliances receive NetExtender connections from remote clients. The following appliances are supported:

SonicWall firewalls runningSonicOS 7.0, including the following platforms:

- TZ670, TZ570, TZ570W, TZ570P running SonicOS 7.0
- NSv 270, NSv 470, and NSv 870 running SonicOS 7.0
- NSsp 15700 running SonicOS 7.0

SonicWall firewalls running SonicOS 6.5, including the NSa, TZ, SOHO, and SuperMassive series platforms:

- NSa 2600-6600
- NSa 2650-9650
- TZ300-TZ600, TZ300W-TZ500W, TZ300P, TZ600P, TZ350, TZ350W
- SOHO W, SOHO 250, SOHO 250W
- SuperMassive 9200-9600

Secure Mobile Access (SMA) 100 Series appliances running 9.0 or higher:

- SMA 200/400
- SMA 210/410
- SMA 500v for ESXi (on ESXi 6.0 and higher)
- SMA 500v for Hyper-V (on Hyper-V 2016 and 2019)
- SMA 500v for AWS
- SMA 500v for Azure
- SMA 500v for KVM

Feature Support in NetExtender

FEATURE SUPPORT ON NETEXTENDER FOR WINDOWS AND NETEXTENDER FOR LINUX

Feature	Supported by NetExtender for Windows	Supported by NetExtender for Linux
Tunneling	Yes	Yes
Certificate Authentication	Yes	No
SAML Authentication	Yes	Yes
TLSv1.3 Support	No	Yes
Always On VPN	Yes	No
Endpoint Control	Yes	Yes
Personal Device Authorization	Yes	Yes
Auto Reconnect	Yes	Yes
Credential Cache	Yes	Yes
Post Connection Script	Yes	Yes
Network Logon (PreLogon)	Yes	No

FEATURE SUPPORT ON SMA 100 AND SONICWALL FIREWALLS

Feature	Supported on SMA 100	Supported on Firewalls
Always On VPN	Yes	No
SAML Authentication	Yes	Yes
One-Time Password Method Switching	Yes	Yes
Post Connection Script	Yes	No
Endpoint Control	Yes	No
Personal Device Authorization	Yes	No
DHCP IP Pool	Yes	Yes
Network Logon (PreLogon)	Yes	Yes

(i) **NOTE:** The features listed above in the Feature Support on SMA 100 and SonicWall Firewalls table are supported only when using NetExtender with the SMA 100 Series.

Configuring NetExtender

2

This section explains how to configure SonicWall NetExtender.

Topics:

- User Prerequisites
- User Configuration Tasks

User Prerequisites

This section describes the user Prerequisites for Windows clients and Linux clients for installing NetExtender.

For Windows Clients

Windows clients must meet the following prerequisites to use NetExtender:

Platform	Windows 11/10
Browsers	Mozilla Firefox 103.0 and higher
	Google Chrome 104.0 and higher

To initially install the NetExtender client, the user must be logged into the PC with administrative privileges.

If the SMA gateway uses a self-signed SSL certificate for HTTPS authentication, it is necessary to install the certificate before establishing a NetExtender connection. If you are unsure if the certificate is self-signed or generated by a trusted root Certificate Authority, SonicWall recommends that you import the certificate. The easiest way to import the certificate is to click Import Certificate on the Virtual Office home page.

When using the network logon method from the Windows login screen, NetExtender uses System Store for certificate-based authentication. When the user is already logged in to Windows, NetExtender uses the User Store for certificate-based authentication. A user who wants to use the network logon method when certificate authentication is also enabled should import his user certificate into the System Store as well as into the User Store.

For Linux Clients

Linux 32-bit or 64-bit clients are supported for NetExtender when running one of the following distributions (32-bit or 64-bit):

• Linux Fedora Core 36 or higher, Ubuntu 20.04 or higher, or OpenSUSE 10.3 or higher, Red Hat Enterprise Linux 8.x and higher, and CentOS 8.x and higher

The NetExtender client has been known to work on other distributions as well, but these are not officially supported.

(i) **NOTE:** Open source Java Virtual Machines (VMs) are not currently supported. If you do not have Java 1.5 or higher, you can use the command-line interface version of NetExtender.

User Configuration Tasks

SonicWall NetExtender is a software application that enables remote users to securely connect to the remote network. With NetExtender, remote users can virtually join the remote network. Users can mount network drives, upload and download files, and access resources in the same way as if they were on the local network.

Windows Platform Installation	Installing NetExtender on Windows
	Enabling Network Logon (PreLogon) feature on NetExtender
Windows Platform Usage	Launching NetExtender Directly from Computer
	Installing NetExtender with Microsoft Installer
Configuring NetExtender Properties	Configuring Connection Profiles Settings
	Configuring Settings
	Connection Scripts Settings
	Configuring Proxy Settings
	Configuring Log Settings
	Configuring Acceleration Settings
	Configuring Packet Capture Settings
	Configuring Languages Settings
	Configuring Protocol
Linux Platform	Installing NetExtender on Linux
	Using NetExtender on Linux

The following sections describe how to use NetExtender on the various supported platforms:

Installing NetExtender on Windows

The procedure for installing NetExtender is same for all supported browsers on Windows platform.

To install and launch NetExtender for the first time:

- 1. Log in to the Workplace portal.
- 2. Click NetExtender.



The prompt is displayed asking you to download the SMA Connect Agent.

- 3. Download and install the SMA Connect Agent and allow SMA Connect agent to launch NetExtender from your browser.
 - (i) **NOTE:** If the SMA Connect Agent is already installed, click Installed to ensure that you don't see the prompt again or click Continue to skip the prompt.

The NetExtender is downloaded automatically and the NetExtender installer launches.



4. In the **User Account Control** prompt, click **Yes** to run the NetExtender installer. NetExtender is connected.

(i) **NOTE:** If you see error connecting to NetExtender, click **Reconnect**, and skip to enter the user

credentials step.

5. Optionally, if you do not see the prompt, the NexExtender client has not downloaded automatically. Continue executing the next steps to download and install the NetExtender manually.

Secure Mobile Access	al Office			 C Q AD admin Active
Please select your platform for r To install the client after download, please NETEXTENDER CLIENTS	manual download. run the application and follow the instruc	tions from the installer.		 Littual Office Download ★ Settings
Windows 32-bit.exe	Windows 64-bit.exe	Linux 32-bit.tgz Click to download	Click to download	

- a. Click the User icon at the upper-right corner of the page.
- b. Click Downloads.
- c. Select your platform for manual download and click **Save File**. The file is saved in your <code>Downloads</code> folder.
- 6. Navigate to your Downloads folder and double-click NXSetupU.exe to run the installer.

The User Account Control message **Do you want to allow the following program to make changes to this computer?** is displays.

7. Click Yes.

The SonicWall NetExtender Setup wizard is launched. The Welcome screen recommends that you close all other applications before starting the setup to avoid the need to restart your computer after the installation. When ready to proceed, click **Next**.

- 8. In the License Agreement screen, read the agreement, select I accept the terms of the License Agreement and then click Next.
- 9. Optionally you can change the **Destination Folder** field click **Browse** and click **Next**.
- 10. Select or clear the shortcut options checkboxes that you require. The following options are selected by default:
 - Create a shortcut on StartMenu.
 - Create a shortcut on QuickLaunch bar.
 - Create a shortcut on Desktop.
- 11. Click Install.
- 12. If a Windows Security dialog box displays *Would you like to install this device software?*, click Install.
- 13. Optionally, you can select the **Run SonicWall NetExtender** check boxto launch NetExtender immediately after installation.

14. Click Finish.

15. After launching NetExtender, type the IP address or FQDN of the SMA appliance in the Server field.
 TIP: This is the same server that you point your browser to when accessing the portal page to download NetExtender.

NetExtender -	-	×
Server: Username: Password: Domain: LocalDomain Connect Always ask for user name & password \$		
2 / 0	© SonicW	/all Inc.

- 16. Enter the **Username** and **Password**.
- 17. In the **Domain** field, type in the domain.

(i) **NOTE:** This is the same domain shown in the Domain field of the login page when you access the portal in your browser.

18. Click Connect

NetExtender takes a few seconds to connect to the server and verify your credentials. The NetExtender status window displays, indicating that NetExtender successfully connected. The NetExtender icon is displayed in the task bar.

NetExtender			_		×
0		User: Conn	ected	: 0 Days 0():00:25
Status Routes Server: Client IP: Sent: Received: Throughput:	DNS 27.96 KB 0 bytes 544 bytes/Sec	* Disconnec	ct		
2 / 6			6	SonicV	Vall Inc.

Field	Description
Server	Indicates the name of the server to which the NetExtender client is connected.
Client IP	Indicates the IP address assigned to the NetExtender client.
Sent	Indicates the amount of traffic the NetExtender client has transmitted since initial connection.
Received	Indicates the amount of traffic the NetExtender client has received since initial connection.
Throughput	Indicates the current NetExtender throughput rate.

19. (Optional) To disconnect NetExtender, click Disconnect.

(i) **TIP:** Closing the window (clicking the **x** icon in the upper right corner of the window) does not close the NetExtender session, but minimizes it to the system tray for continued operation.

Enabling Network Logon (PreLogon) feature on NetExtender

Perquisites:

• NetExtender must be installed and enabled for Network Logon.

The Network Logon feature is a default enabled feature. This Network Logon feature will be enabled by default during NetExtender (NXsetupU.exe) and (MSI installer) installation.

(i) **NOTE:** The Network Logon is a default, so if you update NetExtender from auto-update or upgraded, the Network Logon will be installed by default.

Launching VPN Connection using Network Logon

This section provides information on connecting to the VPN tunnel using Network Logon before log on to Windows accounts.

To launch a VPN connection using Network Logon:

1. Select the **Network sign-in** icon.



2. VPN is not connected user interface displays, click the Arrow icon.



3. NetExtender user interface pop-up displays. Enter the details such as **Server**, **Username**, **Password**, and **Domain**.

Pk IN	tEtender	×	-FA
	Server: 10510654		
	Always ask for user name & password	e 2023 Sonicital Inc.	

4. Click **Connect** to establish the VPN connection. Once it is successfully connected, **VPN is connected** user interface displays.



- 5. Click **Back** and proceeds with your windows credentials to login Windows user session.
- 6. If you want to disconnect your VPN at this stage, Click the **disconnect** icon to disconnect the VPN.



(i) **NOTE:** Network logon feature does not support EPC, NetExtender Upgrade, and SAML Authentication but once the Windows user logs in, VPN session is restarted with existing session and invokes all the functionality that was skipped earlier. Then NetExtender is re-established as per the new policy.

To disable Network Logon (Pre-Logon):

- 1. After the user logs on to Windows user session, Right-click on the NetExtender user interface pop-up display.
- 2. Uncheck the **Pre-Logon** option to disable the Network logon feature.

	P	🖌 NetE	tender		- 🗆 ×
		SON	11CW	ALL NetExtender	
			1		
				Server: Username: Password: Domain: LocalDomain	
	Hide SonicWall NetExtender			↔ Connect	
	Connection Status Route Information	>		Always ask for user name & password \diamond	
	View log Properties About		0		© 2023 SonicWall Inc.
	Language Network Diagnostic	>			
~	Pre-Logon Exit				

Launching NetExtender Directly from Computer

After the first access and installation of NetExtender, you can launch NetExtender directly from your computer without first navigating to the Secure Mobile Access portal.

To launch NetExtender:

- 1. Navigate to **Start > All Programs**.
- 2. Select the SonicWall NetExtender folder, and then click **SonicWall NetExtender**. The NetExtender login window is displayed.
- 3. To display a list of recent SMA servers you have connected to, click the arrow.
- 4. Enter your username and password.
- 5. The last domain you connected to is displayed in the **Domain** field.
 - (i) **NOTE:** The NetExtender client reports an error message if the provided domain is invalid when you attempt to connect. Note that the domain names are case-sensitive.

- 6. The drop-down menu at the bottom of the window provides three options for remembering your username and password:
 - Save user name only if server allows
 - Save user name and password if server allows
 - Always ask for user name & password

NetExtender			-		×
SONICWALI	NetExtender				
	Server:				
	Username:				
	Domain:	1			
	↔ Connect				
	Save user name & password if server allows	s \$			
	Save user name only if server allows		-		
2 / 0	Always ask for user name & password		e	2023 Sonic\	Vall Inc.

() **TIP:** Having NetExtender save your user name and password can be a security risk and should not be enabled if there is a chance that other people could use your computer to access sensitive information on the network.

Installing NetExtender with Microsoft Installer

Installing NetExtender through Microsoft Installer (MSI) supports the use of default profile settings during the installation process where the default server and default domain can be pre-filled along with additional options that control whether the server and domain fields can be edited by a standard user. This feature is designed specifically for administrators who want their default servers and domains pre-set during the installation process.

To set the default server and domain during the NetExtender Installation with Microsoft Installer:

- 1. On the **Default Profile Setting** page, enter the IP address of the **Default Server** and the location of the domain in **Default Domain**.
- 2. Disable **Allow connections to other profiles** to prevent users from connecting to other profiles. This setting disables the **Server** and **Domain** fields for editing on the login page of NetExtender.

Configuring NetExtender Properties

NetExtender Properties feature helps you to manage the options including settings, log, languages, and so on.

Topics:

- Configuring Connection Profile Settings
- Configuring Settings
- Connection Scripts Settings
- Configuring Proxy Settings
- Configuring Log Settings
- Configuring Acceleration Settings
- Configuring Packet Capture Settings
- Configuring Languages Settings
- Configuring Protocol

Configuring Connection Profile Settings

The **Connection Profiles** tab displays the Secure Mobile Access connection profiles you have used, including the IP address of the SMA server, the domain, and the username.

To manage the connection profiles settings:

1. Click it to view the **NetExtender Properties** window and then click **Connection Profiles**.

Connection Profiles	Connection Profiles		
Settings Connection Scripts Proxy	Connection Profiles:		
Log Acceleration Packet Capture Languages Protocol	Server	Domain	User
		Create Shortcut R	emove Remove Al

- 2. Click **Create Shortcut** to create a shortcut on your desktop that launches NetExtender with the specified profile.
- 3. Click **Remove** to delete a profile.

Or

Click **Remove All** to delete all the connection profiles.

4. Click **Apply** to save your changes.

Configuring Settings

The **Settings** tab allows you to customize the behavior of NetExtender.

To manage the settings option:

1. Click it to view the **NetExtender Properties** window and then click **Settings**.

Connection Profiles	Settings	
Settings Connection Scripts Proxy	When I start up my computer:	
Acceleration Packet Capture	When I log in to my computer:	
Languages Protocol	Display NetExtender UI.	
	When I'm using NetExtender UI: Minimize to the tray icon when NetExtender window is closed. Minimize to the tray icon when NetExtender connected. Display Connect/Disconnect Tips from the System Tray. Automatically reconnect when the connection is terminated.	
	Automatically reconnect when computer resumed. Display precise number in connection status.	
	 Enable UI animations. Disable auto upgrade when admin allowed. 	
	When I exit NetExtender UI:	
	Uninstall NetExtender automatically.	

2. Enable the required settings.

Setting	Description
Automatically connect with profile	NetExtender connects to a specific profile when starting up the computer device.
Automatically start NetExtender UI	NetExtender launches when you log in to your computer device.
Display NetExtender UI	Displays NetExtender login window
Minimize to the tray	Enable the NetExtender icon display in the system tray.
NetExtender window is closed	(i) NOTE: If this option is not selected, you can only access the NetExtender UI through Window's program menu.
Minimize to the tray icon when NetExtender connected	NetExtender icon display in the system tray when you are connected.
Display Connect/Disconnect Tips from the System Tray	NetExtender display tips when you hover the mouse pointer over the NetExtender icon.
Automatically reconnect when the connection is terminated	NetExtender attempts to reconnect when it loses connection.
Automatically reconnect when computer resumed	NetExtender reconnects when the computer resumes from a sleep or a locked mode.
Display precise number in connection status	Displays precise byte value information in the connection status.
Enable UI animations	Enables the sliding animation effects in the UI.
Disable auto upgrade when admin allowed	Eanbles auto upgrades
Uninstall NetExtender automatically	NetExtender uninstalls every time you end a session
Disconnect an active connection	NetExtender logs out of all of your SSL VPN sessions when you exit a NetExtender session.

Setting	Description
Uninstall EPC Agent	End Point Control Agent gets uninstalled when NetExtender is uninstalled from
automatically	the system.
automatically	the system.

3. Click **OK** to save your changes.

Connection Scripts Settings

Secure Mobile Access provides users with the ability to run batch file scripts when NetExtender connects and disconnects. The scripts can be used to map or disconnect network drives and printers, launch applications, or open files or websites.

To manage the connection scripts options:

1. Click row the NetExtender Properties window and then click Connection Scripts.

Connection Profiles	Connection Scripts	
Settings Connection Scripts Proxy Log Acceleration Packet Capture Languages Protocol	When NetExtender becomes connected : Attempt to execute domain logon script. Hide the console window. Automatically execute the batch file "NxConnect.bat". Hide the console window. When NetExtender becomes disconnected : Automatically execute the batch file "NxDisconnect.bat". Hide the console window.	Edit "NxConnect.bat" Edit "NxDisconnect.bat"

2. Enable the required settings.

Settings	Description
Attempt to execute domain logon script	Enabling this setting, allows the NetExtender to contact the domain controller and t execute the login script.
	(i) NOTE: Enabling this feature might cause connection delays while remote client's printers and drives are mapped. Make sure the domain controller and any machines in the logon script are accessible through NetExtender routes.
Hide the console window	Enable to close the DOS console window while the script runs.
Automatically execute the batch file "NxConnect.bat"	Enabling this setting, runs the script when NetExtender connects.
Automatically execute the batch file "NxDisconnect.bat.	Enabling this setting, runs the script when NetExtender disconnects.

3. Click **OK** to save your changes.

Configuring Proxy Settings

Secure Mobile Access supports NetExtender sessions using proxy configurations. Currently, only HTTPS proxy is supported. When launching NetExtender from the Web portal, if your browser is already configured for proxy access, NetExtender automatically inherits the proxy settings.

To manage the proxy settings options:

1. Click it to view the **NetExtender Properties** window and then click **Proxy**.

textender Properties		
Connection Profiles	Proxy	
Settings Connection Scripts Proxy Log Acceleration Packet Capture Languages Protocol	Enable proxy settings Automaticly detect settings. Use automatic configuration script. Address: • Use proxy server. Address: Port: 1080 BypassProxy: User name: Password: Get system proxy settings	

- 2. Select Enable proxy settings.
- 3. Select the required settings.

Setting	Description
Automatically detect settings	To use this setting, the proxy server must support Web Proxy Auto Discovery Protocol (WPAD)) that can push the proxy settings script to the client automatically.
Use automatic configuration script	If you know the location of the proxy settings script, select this option and enter the URL of the scrip in the Address field.
Use proxy server	Select this option to enter the Address and Port of the proxy server.
BypassProxy	Enter an IP address or domain in the BypassProxy field to allow direct connections to those addresses that bypass the proxy server. If required, enter User name and Password for the proxy server.
	(i) NOTE: If you have not entered the User name and Password, then
	Properties window is displayed, and you might need to enter the User name and Password when you connect for first time.

4. Click **Apply** to save your changes.

Configuring Log Settings

The Log tab provides the basic control over the NetExtender Log and Debug Log.

To manage the Log options:

1. Click 🛃 to view the **NetExtender Properties** window and then click **Log**.

VetExtender Properties		×
Connection Profiles Settings Connection Scripts Proxy Log Acceleration Packet Capture Languages Protocol	Log NetExtender Log :	Clear NetExtender Log
	The log file is currently 4.89 MB.	Clear Debug Log Log Viewer
	ОК	Cancel Apply

2. Select the required settings.

Settings	Description
Unlimited log file size	Enable to establish the size of the NetExtender Log
Set maximum log file size to	To set a maximum size, use the adjoining arrows.
Clear NetExtender Log	To clear the NetExtender Log
Clear Debug Log	To clear the debug log. (i) NOTE: Select Enable NetExtender Log to enable Clear Debug Log.
Log Viewer	To view the current NetExtender log.

3. Click \mathbf{OK} to save the changes.

Configuring Acceleration Settings

The Acceleration Settings tab allows you to accelerate IP and port to ensure high performance.

(i) NOTE: Acceleration is supported only on Gen6.

To manage the Acceleration settings:

1. Click it to view the **NetExtender Properties** window and then click **Acceleration**.

C	Acceleration		
Settings Connection Scripts Proxy Log Acceleration Packet Capture Languages Protocol	Enable Acceleration Note: Available on NSA/TZ sect. IP Address Port (eg:192.168.2.1, 192.168.1.0/24) @ Exclude (Include Add IP Address Type IP Address Type Delete Clear Log Upgrade Enable WXAC Debug Log Check for upgrade	e Add Type Clear	

- 2. Select **Enable Acceleration** to enable the IP Address acceleration and enter the IP address. You can include or exclude the IP Address as required.
- 3. Specify the Port number and select **Check for upgrades** automatically to enable upgrades. You can include or exclude the Ports as required.
- 4. Optionally, you can select the Enable WXAC Debug log checkbox, if required.
- 5. Click **OK** to save your changes.

Configuring Packet Capture Settings

The **Packet Capture** tab allows you to enable and disable packet capture and data compression on NetExtender. You must have Administrator privileges to change packet capture settings.

To manage the Packet Capture settings:

1. Click 🛃 to view the **NetExtender Properties** window and then click **Packet Capture**.

Connection Profiles	Packet Capture
- Settings - Connection Scripts - Proxy - Log - Acceleration - <mark>Packet Capture</mark> - Languages - Protocol	Enable NetExtender packet capture (Requires administrator privilege): Clear the capture when NetExtender exits Enable capture cache Enable data compression: Attempt to disable data compression during packet capture (Requires capture to be started before NetExtender is connected) Note: Changes to the data compression will take effect the next time NetExtender is connected.

- 2. To enable packet capture, select Enable NetExtender packet capture.
- 3. Select **Clear the capture when NetExtender exits** to clear all captured packet data when NetExtender exits.
- 4. Select Enable capture cache to clear all captured packet data when NetExtender exits.
- 5. Select Enable data compression to enable data compression of captured packets.
- 6. Select **Attempt to disable data compression during packet capture**. if packet capture is enabled when NetExtender connects and you want to disable data compression immediately.
- 7. Click **OK** to save the changes.

Configuring Languages Settings

The Languages tab allows you to define your language settings and import other packs on NetExtender.

To manage the Language settings:

1. Click 🛃 to view the **NetExtender Properties** window and then click **Advanced**.

NetExtender Properties		×
Connection Profiles Settings Connection Scripts Proxy Log Acceleration Packet Capture Tanguages Protocol	Languages Language Setting Language: English Import	
	OK Cancel	Apply

- 2. The Language drop-down list allows you to select the available languages on NetExtender.
 (i) NOTE: The default language is English. After you select a language from the drop-down list, click OK.
- 3. Restart NetExtender for the new language to be applied.
- Click Import to upload a new language pack to NetExtender.
 The languages packs must be in the .ZIP format. Select the language pack you want to import.
- 5. Click Open.

After the import, the language displays in the Language drop-down list.

6. Click **OK** to save your changes.

Configuring Protocol

Within the **NetExtender Properties** dialog box, click the **Protocol** heading in the menu on the left panel. The available options allow you to select your protocol on NetExtender.

NetExtender Properties		×
Connection Profiles Settings Connection Scripts Proxy Acceleration Packet Capture Languages Protocol	Protocol: Automatic WireGuard SSLVPN	
0	0	K Cancel Apply

To configure Protocol:

- 1. You can select from the following three protocol options:
 - Automatic: Connects to the tunnel that you have selected as your first preference on the management interface.
 - WireGuard: Connects to WireGuard tunnel. If WireGuard is not enabled, or fail to connect, it will return back to login page.
 - **SSLVPN:** Connects to SSLVPN tunnel.
- 2. Click OK.

Installing NetExtender on Linux

Secure Mobile Access supports NetExtender on Linux. To use NetExtender on your Linux system, your system must meet the following prerequisites:

- i386-compatible distribution of Linux
- Linux Fedora Core 36 or later, Ubuntu 20.04 or later, or OpenSUSE 10.3 or later, Red Hat Enterprise Linux 8.x and later, and CentOS8.x and later

To install NetExtender on your Linux system:

- 1. Log in to the Workplace portal.
- 2. Click NetExtender.

A pop-up window indicates that you have chosen to open a .tgz file.

3. Click **OK** to save it to your default download directory.



- () NOTE: You must be logged in as root to install NetExtender, although many Linux systems allows the sudo ./install command to be used if you are not logged in as root.
- 4. To install NetExtender from the CLI, navigate to the directory where you saved the .tgz file and enter the tar -zxf NetExtender.tgz command.



- 5. Enter the cd netExtenderClient/ command.
- 6. Enter su -C " ./install" to install NetExtender.
- 7. Enter your system password.

- 8. The installer asks if you want non-root users to be able to run NetExtender. Enter either **y** for yes or **n** for no.
 - (i) **NOTE:** To allow non-root users to run NetExtender, the installer sets PPPD to run as root. This could be considered a security risk.

Using NetExtender on Linux

To use NetExtender on a Linux computer:

- 1. After NetExtender is installed, there are two methods to launch it:
 - Click the NetExtender icon in the Applications menu, under either the **Internet** or **Network** category.
 - Enter the netExtenderGui command.
- 2. The first time you connect, you must enter the SMA server name in the Server field.

SONICWALL NetExtend	er	
Server: Username: Password: Domain:	sslvpn.eng.sonicwall.com admin sv.us.sonicwall.com	
Save user n	ame & password if server allows	÷
2 + 0		© SonicWall Inc.

- 3. Enter your username and password.
- 4. The first time you connect, you must enter the **Domain name**.
 (i) | **NOTE:** The domain name is case-sensitive. NetExtender remembers the domain name in the future.
- 5. To view the NetExtender routes, select the Routes tab in the main NetExtender window.

Destination	Netmask	
10.0.0.0	255.255.0.0	
10.1.0.0	255.255.0.0	
10.100.100.0	255.255.255.0	
10.100.185.0	255.255.255.0	
10.103.0.0	255.255.0.0	
10.11.0.0	255.255.0.0	
10.128.1.0	255.255.255.0	

6. To view the NetExtender DNS server information, select the **DNS** tab in the main **NetExtender** window.

Using NetExtender

3

This chapter describes how to use NetExtender on the various supported platforms:

- Viewing the NetExtender Log
- Disconnecting NetExtender
- Upgrading NetExtender
- Changing Passwords
- Authentication Methods
- Uninstalling NetExtender
- Verifying NetExtender operation from the System Tray
- Using the NetExtender Command Line Interface

Viewing the NetExtender Log

The NetExtender log displays information on NetExtender session events. The log file name is saved as NetExtender.dbg stored in C:\Program Files\SonicWall\SSLVPN\NetExtender.

- 1. To view the NetExtender log, log in to the NetExtender and click 22.
- 2. To view details of a log message, double-click a log entry,
 - Or

Go to View > Log Detail to open the log detail pane.

3. To save the log, click the **Export** icon.

Or

Go to Log > Export.

- 4. To filter the log to display entries from a specific duration of time, go to the Filter menu and select the cutoff threshold.
- 5. To filter the log by type of entry, go to Filter > Level and select one of the level categories.

The available options are **Fatal**, **Error**, **Warning**, and **Info**, in descending order of severity. The log displays all entries that match or exceed the severity level. For example, when selecting the **Error** level, the log displays all **Error** and **Fatal** entries, but not **Warning** or **Info** entries.

- (i) **NOTE:** It could take several minutes for the Debug Log to load. During this time, the Log window is not accessible, although you can open a new Log window while the Debug Log is loading.
- 6. To clear the log, click Log > Clear Log.

Disconnecting NetExtender

To disconnect NetExtender:

1. Right click the NetExtender icon in the system tray to display the NetExtender icon menu and click **Disconnect**.

Or

You can also disconnect by double-clicking on the NetExtender icon to open the NetExtender window and then click **Disconnect**.

The NetExtender session disconnects after few seconds.

When NetExtender is disconnected, the NetExtender window displays and gives you the option to either Reconnect or Close NetExtender.

Upgrading NetExtender

NetExtender automatically notifies users when an updated version of NetExtender is available. Users are prompted to click **OK** and NetExtender downloads and installs the update from the SMA security appliance.

Changing Passwords

Before connecting to the new version of NetExtender, users might be required to reset their password by suppling their old password, along with providing and re-verifying a new one.

Authentication Methods

NetExtender supports various two factor authentication methods, including one-time password, RSA, and Vasco, and authentications in mobile applications using Google, Microsoft, and Duo. If an Administrator has configured one-time passwords to be required to connect through NetExtender, you are asked to provide this information before connecting.

Authentication	×
 Get a verification code authentication app an 	e from the two-factor nd verify your identity
Password:	
• Use Mobile App	○Use Backup Code
	Ok Cancel

If an Administrator has configured RSA pin-mode authentication to be required to connect through NetExtender, users are asked whether they want to create their own pin, or receive one that is system-generated.

After the pin has been accepted, you must wait for the token to change before logging in to NetExtender with the new passcode.

During authentication, the SMA server can be configured by the Administrator to request a client certificate. In this case, users must select a client certificate to use when connecting.

Uninstalling NetExtender

The NetExtender utility is automatically installed on your computer. To remove NetExtender, click **Start > All Programs**, click **SonicWall NetExtender**, and then click **Uninstal**.

You can also configure NetExtender to automatically uninstall when your session is disconnected.

To configure NetExtender to automatically uninstall when your session is disconnected:

- 1. Right click the NetExtender **b** icon in the system tray and click **Properties** window is displayed.
- 2. Click the **Settings** tab.
- 3. Select **Uninstall NetExtender automatically** to have NetExtender uninstall every time you end a session.
- 4. Click Apply.

Verifying NetExtender operation from the System Tray

To view options in the NetExtender system tray, right-click the NetExtender icon in the system tray. The following are some tasks you can complete with the system tray.

- **Displaying Route Information**: To display the routes that NetExtender has installed on your system, click the **Route Information** option in the system tray menu. The system tray menu displays the default route and the associated subnet mask.
- **Displaying Connection Information**: You can display connection information by mousing over the NetExtender icon in the system tray.

Using the NetExtender Command Line Interface

(i) NOTE: The NetExtender command line interface is only available on Windows platforms.

To launch the NetExtender CLI:

- 1. Launch the Windows Command Prompt by going to the Start > Run, enter cmd, and click OK.
- 2. Change directory to where NetExtender is installed. Type cd Program Files\SonicWall\SSL-VPN\NetExtender.
 - (i) **NOTE:** The specific command directory could be different on your computer. Use Windows Explorer to find the directory path where NetExtender is located.

NETEXTENDER CLI COMMANDS AND OPTIONS

Option	Description
	Creates a NetExtender profile
-s server	The IP address or hostname of the SMA server
-u user-name	The username for the account.
-p password	The password for the account.
-d domain-name	The domain to connect to.
	Initiates a NetExtender session.
-s server	The IP address or hostname of the SMA server.
-u user-name	The username for the account.
-p password	The password for the account.
-d domain-name	The domain to connect to.
	Option -s server -u user-name -p password -d domain-name -s server -u user-name -p password -d domain-name

Command	Option	Description
	- clientcertificatethumb thumb	The SSL Client Certificate thumbprint value.
	- clientcertificatename name	The SSL Client Certificate name.
NECLI deleteprofile		Deletes a saved NetExtender profile.
	-s server	The IP address or hostname of the SMA server.
	-u user-name	The username for the account.
	-d domain-name	The domain to connect to.
NECLI disconnect		Disconnects
	timeout	(Optional) Timeout duration, after which the session is disconnected.
NECLI displayprofile		Displays all NetExtender profiles.
	-s server	(Optional) Displays only the profiles that are saved for the specified server
	-u user-name	(Optional) Displays only the profiles that are saved for the specified user name.
	-d domain-name	(Optional) Displays only the profiles that are saved for the specified domain name.
NECLI queryproxy		Checks the connect to the proxy server.
NECLI reconnect		Attempts to reconnect to the server.
NECLI showstatus		Displays the status of the current NetExtender session.
NECLI setproxy		Configures proxy settings for NetExtender
	-t [0 1 2 3]	There are three options for setting proxy settings: 0 - Disable proxy.
		1 - Automatically detects proxy settings. The proxy server must support Web Proxy Auto Discovery Protocol (WPAD).
		2 - Uses a proxy configuration script.
		3 - Manually configure the proxy server
	-s proxy address	The address of the proxy script or proxy server
	-o port	The port number.
	-u user name	The user name for the proxy server.
	-p password	The password name for the proxy server.
	-b bypass-proxy	Bypasses the previously configured proxy settings.
	-save	Saves the proxy settings.
NECLI viewlog		Displays the NetExtender log.

NetExtender Troubleshooting

This chapter provides you help with troubleshooting information for the SonicWall NetExtender utility.

NETEXTENDER CANNOT BE INSTALLED

- Problem: NetExtender cannot be installed.
- Solution:
 - 1. Check your OS Version, NetExtender only supports Linux OpenSUSE, CentOS, Red Hat Enterprise in addition to Fedora Core and Ubuntu. An i386-compatible Linux distribution is required, along with Sun Java 1.6.0_10+.
 - 2. Check that the user has administrator privilege, NetExtender can only install/work under the user account with administrator privileges.
 - 3. Check if ActiveX has been blocked by Internet Explorer or third-party blockers.
 - 4. If the problem still exists, obtain the following information and send to support:
 - The version of Secure Mobile Access NetExtender Adapter from Device Manager.
 - The log file located at C:\Program files\SonicWall\SMA\NetExtender.dbg.
 - The event logs in the Event Viewer found under the Windows> Control Panel
 >Administrator Tools folder. Select Applications and System events and use the Action
 /Save Log File menu to save the events in a log file.

NETEXTENDER CONNECTION ENTRY CANNOT BE CREATED

- Problem: NetExtender connection entry cannot be created.
- Solution:
 - 1. Navigate to Device Manager and check if the Secure Mobile Access NetExtender Adapter has been installed successfully. If not, delete the adapter from the device list, reboot the machine and install NetExtender again.
 - Navigate to Windows Service manager under Control Panel > Administrator Tools > Services. Look for the Remote Access Auto Connection Manager and Remote Access Connection Manager to see if those two services have been started. If not, set them to automatic start, reboot the machine, and install NetExtender again.
 - 3. Check if there is another dial-up connection in use. If so, disconnect the connection, reboot the machine and install NetExtender again.

- 4. If problem still exists, obtain the following information and send them to support:
 - The version of Secure Mobile Access NetExtender Adapter from Device Manager.
 - The log file located at C:\Program files\SonicWall\SMA\NetExtender.dbg.
 - The event logs in Control Panel > Administrator Tools > Event Viewer. Select
 Applications and System events and use the Action /Save Log File menu to save the
 events in a log file.

NETEXTENDER CANNOT CONNECT

- Problem: NetExtender cannot connect.
- Solution:
 - 1. Navigate to **Device Manager** and check if the Secure Mobile Access NetExtender Adapter has been installed successfully. If not, delete the adapter from the device list, reboot the machine and install NetExtender again.
 - 2. Navigate to Network connections to check if the Secure Mobile Access NetExtender Dialup entry has been created. If not, reboot the machine and install NetExtender again.
 - 3. Check if there is another dial-up connection in use, if so, disconnect the connection and reboot the machine and connect NetExtender again.
 - 4. If problem still exists, obtain the following information and send them to support:
 - The version of Secure Mobile Access NetExtender Adapter from Device Manager.
 - The log file located at C:\Program files\SonicWall\SMA\NetExtender.dbg.
 - The event logs in Control Panel > Administrator Tools > Event Viewer. Select
 Applications and System events and use the Action /Save Log File menu to save the
 events in a log file.

NETEXTENDER BSOD AFTER CONNECTED

- Problem: NetExtender BSOD after connected
- Solution:
 - 1. Uninstall NetExtender, reboot machine, reinstall the latest version NetExtender.
 - 2. Obtain the following information and send them to support:
 - The version of Secure Mobile Access NetExtender Adapter from Device Manager.
 - The log file located at C:\Program files\SonicWall\SMA\NetExtender.dbg.
 - Windows memory dump file located at C:\Windows\MEMORY.DMP. If you cannot find this file, then open System Properties click Startup and Recovery Settings under the Advanced tab.
 - Select **Complete Memory Dump**, **Kernel Memory Dump** or **Small Memory Dump** in the **Write Debugging Information** drop-down list. You should also reproduce the BSOD to get the dump file.

The event logs in Control Panel > Administrator Tools > Event Viewer. Select
 Applications and System Events and use the Action /Save Log File menu to save the
 events in a log file.

Related Topics:

- https://www.sonicwall.com/support/search-results/?searchtext=netextender+config
- https://www.sonicwall.com/support/knowledge-base/dns-ip-not-getting-updated-on-netextender-after-changing-the-dns-on-the-box/180619133203645/
- https://www.sonicwall.com/support/knowledge-base/enable-proxy-settings-in-thenetextender/170505506096633/
- https://www.sonicwall.com/support/knowledge-base/sonicwall-net-extender-service-is-grayed-out-with-9-0-x-msi-file/190314150454875/
- https://www.sonicwall.com/support/knowledge-base/damaged-version-of-net-extender-error-messageon-windows-10/170707194358278/
- https://www.sonicwall.com/support/knowledge-base/unable-to-log-in-with-netextender-while-using-german-special-characters/170502534932980/

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SonicWall Support

Technical support is available to customers who have purchased SonicWall products with a valid maintenance contract.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. To access the Support Portal, go to https://www.sonicwall.com/support.

The Support Portal enables you to:

- View knowledge base articles and technical documentation
- View and participate in the Community forum discussions at https://community.sonicwall.com/technology-and-support.
- View video tutorials
- Access https://mysonicwall.com
- Learn about SonicWall Professional Services
- Review SonicWall Support services and warranty information
- Register for training and certification
- Request technical support or customer service

To contact SonicWall Support, visit https://www.sonicwall.com/support/contact-support.

About This Document

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To view the SonicWall End User Product Agreement, go to: https://www.sonicwall.com/legal/end-user-product-agreements/.

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