

# Frequently Asked Questions

## Dominion SX

(v3.1)



Questions	Answers
<b>General Questions</b>	
How do I enable Direct Port Access with a Dominion SX unit running SX3.0 firmware?	<p>Enabling Direct Port Access (DPA) from the CLI in Dominion SX3.0. This capability was not supported in earlier releases.</p> <p>Attached is a sample run for DPA configuration from CLI.</p> <p>The following are main steps:</p> <ol style="list-style-type: none"> <li>1. Configure DPA mode from Configuration-&gt;Services.</li> <li>2. Configure which port need DPA and type of DPA (Telnet-TCP, SSH-TCP, IP ADDR) from Configuration-&gt;ports</li> <li>3. Reboot SX</li> <li>4. Reapply Configuration-Services settings, for SSH, Telnet to take effect of DPA settings.</li> <li>5. Reboot SX</li> </ol> <p>DPA should be functional on 2<sup>nd</sup> reboot</p>
Why do I get a "This page contains secure and insecure items" prompt when using IE6?	This message may or may not be displayed, depending on the settings of IE6.
Why do I get an "Invalid certificate message" when using some browsers?	The Certificate Authority (CA) used by Raritan, Inc. may not be on the CA list of the browser.
What is the purpose of the Disable Local Authentication option?	For security reasons, some users do not want to allow any locally authenticated users to log into the Dominion SX unit. This option allows only for remotely authenticated users to log into the Dominion SX unit. This option should only be enabled AFTER remote authentication has been successfully tested and configured.
When I Disable Local Authentication, how come I cannot log into the Dominion SX unit?	<p>This is because of a couple of reasons:</p> <ol style="list-style-type: none"> <li>1) A valid remote authentication source has not been entered.</li> <li>2) The remote authentication source is not reachable.</li> </ol> <p>The Disable Local Authentication option should only be enabled AFTER remote authentication has been successfully tested and configured.</p>
Why do I lose connectivity to the Dominion SX unit after resetting it to factory default?	Because the unit is reset to the factory default IP address (192.168.0.192) and username <i>admin</i> , password <i>raritan</i> . It can no longer be reached on the IP address entered by the user.
What settings will be lost when restoring a unit to factory default?	All user-entered settings: usernames, passwords, all networking parameters – including IP address, security profiles, firewall rules, all services, TCP port numbers for services, idle logout timer, strong password rules.
Why does the Device disconnect indication not work with all my devices and servers?	Device disconnect indication requires both hardware (RS232) control signal support, and the right serial cabling to work. If <u>either</u> of these is missing, device disconnect indication cannot correctly track the loss of connection to a serial device. Most, but not all, servers and devices support these control signals.

Questions	Answers
Why does my device show “Down” in the port access menu on the GUI and the CLI, but I can still log into it?	If a device is configured for device disconnect indication, but the device cannot support the control signal or (RS232) serial cabling is not correctly made, the device will indicate “Down” on the Port access screen (GUI) and on the CLI, but it can may still be accessible when connected. Disable the device disconnect indication option to show default indication that the device is “Up”.
How many lines can I cut and paste with the Dominion SX?	With SX release 3.0, this user-configurable and can be set up to copy-paste an industry-leading 9999 lines.
Where can I get a copy of the MIB for Dominion SX?	Go to “ <a href="http://www.raritan.com/_downloads/SX-MIB.txt">http://www.raritan.com/_downloads/SX-MIB.txt</a> ” to get the SNMP MIB for Dominion SX – supported in Dominion SX version 2.2 and higher. (MIB last updated on 12/2/04)
I just upgraded my Dominion SX firmware. Why doesn’t the console window pop up after logging in through the web interface and clicking on a port?	The Dominion SX firmware upgrade is comprised of 2 components, the server portion (MpAdmin) and console portion (Raritan Console). Check if the Raritan Console portion of the upgrade was completed. Apply the Raritan Console upgrade to resolve this issue.
With Dominion SX release 3.0 or higher, do I still need to type dominion before I get the username and password prompt using SSH/Telnet?	No. Beginning with release 3.0, enter the username in the “Login as:” or Username prompt.
When I SSH into Dominion SX, I am unable to log in, even when I use a local account that I know works through the web/GUI interface.	[Only applied to firmware releases 2.1 though 2.5] The initial login name for Dominion SX over SSH interface is dominion (no password). Once this account is accessed you will see the “Welcome to Raritan Dominion Server” message and be prompted to enter a username. At this prompt, type the account that exists locally on the SX or the remote account (this assumes that the SX unit is configured with remote authentication information).
My Dominion SX has just been configured with a network address and I can successfully ping the SX IP, but when I try to access it using a Web browser, the message reads “Page cannot be found or server error, please contact System Administrator”.	Check your Web browser settings and confirm that a proxy server is being used. If so, click on the checkbox to 'Bypass local addresses or configure DSX IP in the exception list.' Next, make sure the Web browser has 128-bit cipher strength. From the Help menu, click on “About” to find this information.
When I select the “Send Break” option from the Emulator menu in Raritan Console (on my DSX), it does not send a break to my Sun server. What could be wrong and how can I address it?	If the SUN machine does not respond to the break signal, verify that the line 'KEYBOARD_ABORT=disable' is commented out in the /etc/default/kbd file (on the SUN machine). If this line is not commented out, it will disable a keyboard abort sequence; comment out this line to enable the sequence.
Is there any software requirement for PCs connected to Dominion SX?	Depends. For access using a web-browser, the Dominion SX does not require any software to be loaded on the client; the browser does have to be Java-enabled. It is 100% operating system independent. When using an SSH/Telnet client, the customer has to provide an SSH/Telnet client. In some operating systems, like Linux®, an SSH client is included in the distribution. Also, OpenSSH.org has an SSH client.
How can I consolidate the sites where I have a Dominion SX installed?	Raritan's CommandCenter® Secure Gateway is designed specifically to provide centralized management. It is the ideal solution if you are looking to consolidate management of devices such as Dominion SX and other Raritan network-based products.

Questions	Answers
Is Raritan new to the secure console server market?	No. On the contrary, Raritan has been in the secure console server business since August 2002, following our acquisition of Arula Systems from Hewlett-Packard.
Is the Ethernet port on the Dominion SX unit 10/100Mbps auto sensing?	Yes.
Can the network port(s) on the Dominion SX be set to 100Mbps Full-Duplex?	Yes.
Does Dominion SX support RS422 and RS485?	No. Currently Dominion SX supports only asynchronous RS232 (also commonly called serial, even though serial is a broad term that covers more than RS232). RS 422 and RS485 are used in industrial automation and other markets. Dominion SX is currently designed for connection to serially managed servers and other devices typically found in the data-center and server rooms. This includes serially controlled power strips like Raritan's line of remote power control units.
Do I need to be a UNIX expert to install Dominion SX?	Dominion SX is the easiest to install of all the secure console servers on the market. From power-up, typical time for installation is less than 3 minutes, with no need to edit files and use the command-line. Dominion SX does not require an external server to operate.
I have a server/serially managed device that is more than 90 meters from the Dominion SX – how do I connect?	You will need to purchase a 3rd party RS232 to RS422/485 converter for each end (two units total)-one at the Dominion end and one connected to the device.
Does Dominion SX provide an integrated interface that allows you to view all the Serial devices that are connected?	Yes, Dominion SX provides a single, consolidated view of all serial devices via one-sign-on. A single IP address gives access to all connected serial devices while any Java-enabled Web browser provides terminal emulation. Or, use an SSH/Telnet client.
Can I open multiple windows and “tile” to monitor multiple servers and other IT equipment?	Yes, you may monitor and “tile” as many windows as there are serial ports on the Dominion SX. For example, up to 32 serial ports on a 32 port unit, 16 on a 16-port unit and 48 on a 48-port unit. This is assuming one (1) user session per port; in some applications more than one user session per port is possible.
I manage many servers. How do I select a server to connect to?	From a browser, a simple menu provides the user-assigned name of each server. Users simply click on a server to connect to its console port. When using SSH/telnet, the user gets a list of ports they are authorized to connect with when they log in.
As a user, do I see all servers connected to a Dominion SX?	No. Each user sees only a list of servers they are authorized to manage/view. The administrator of the Dominion SX sets up the access privileges to each server by user group, or under control of privileges from a directory service like LDAP, Active Directory®, or authentication system – TACACS+, RADIUS, or Kerberos.
Does Dominion SX work with Raritan's CommandCenter® Secure Gateway?	Yes, Dominion SX is deployable as part of an enterprise-wide management solution with Raritan's CommandCenter Secure Gateway; hundreds of Dominion SX units can be managed via CommandCenter Secure Gateway.
Is the modem used only for administering the Dominion SX itself?	No. Unlike other products in its category, Dominion SX offers modem access to administer the box and get to the target servers.

Questions	Answers
Is a modem standard on any Dominion SX models?	Many Dominion SX Models with 4- to 48-serial ports include a built-in 56K modem. Competitors charge for an additional PCMCIA modem; other models have a dedicated modem port via a DB9-Male connector.
What level of control does Dominion SX have over attached target servers?	The remote user has direct command line access and total control of target devices for maintenance, administration, troubleshooting, and even rebooting. User rights are only restricted by their log-on privileges on Dominion SX and the server itself.
What is the MTBF for the power supply in the Dominion SX?	350.000 hours. But, keep in mind that the life of a power supply depends on environmental factors like temperature, humidity, variation in power, and other factors.
What is the ESD (electro-static discharge) protection on the Dominion SX serial ports?	15KV (Kilo volts)
Why do I need to use a serial adapter to connect to some servers?	While EIA published a standard for RS232 on DB25 and DB9 connectors, there is no standard for RS232 on RJ45 connectors. Also, some manufacturers have chosen not to follow the pin out assignments of the EIA on DB25 and DB9 connectors.
Is the Dominion SX unit SUN <sup>®</sup> "break-safe"?	All Dominion SX units are SUN "break-safe" for use with SUN Solaris; and, the units are Solaris Ready certified by SUN.
I have lost my Admin password to the Dominion SX. Is there a back door or secret password?	For security reasons, there is no back-door password. The only option is to restore the unit to its factory default settings. A hardware reset function to restore the unit to factory default settings is provided.
Does Dominion SX include the 19" rack mount kit or is there an extra charge for this option?	Dominion SX comes standard with a complete ready-to-install 19" rack mount kit on the models with 16 or greater serial ports. One 8-port model with dual-power also comes with a rack-mount kit. Some competitors charge extra for a rack mount kit. On models with less than 16 ports, a rack mount kit is available as an option.
What remote access connection methods can Dominion SX accommodate?	Dominion SX provides multiple choices for remote access. These include: HTTP/HTTPS, SSH/Telnet, or dial-up modem. That means servers can be accessed both in and out of band so remote access to mission critical target servers is always available-even if the network is down.
Which ports need to be open on the corporate firewall for a secure console session using Dominion SX?	Port 443 (for https); optionally port 80 (http) for user sessions. For units running software version 2.2 or higher, port 51000 (or other port between 1024-65536). On software releases PRIOR to firmware 2.2 (2.0Bx or 2.1.x) either port 23 or a user-designated port between 2000 and 2400. When using SSH, port 22 needs to be open. Starting with Dominion SX firmware 3.0, the TCP ports for HTTP, HTTPS, Telnet, SSH are all user configurable. These user configured ports will need to be open for access. Also, TCP port 5000.
How do I get access to the operating system of the Dominion SX?	Dominion SX is a secure appliance. Therefore, NO access is possible to the operating system.
I have a few serial devices located a distance away from my server closet and the Dominion SX. Can I connect these devices to my Raritan switch?	Yes. EIA RS232 specifications defined in the 1970s recommend that the maximum distance serial devices be 10 meters. However, with good cables, no patch panels, and lower baud rates, customers report success up to 60 meters.
How do I upgrade the software on my Dominion SX?	Use the Administrator option for Upgrade from a menu. The upgrade is done over the Ethernet port of the Dominion SX. Access to an FTP server is required.

Questions	Answers
Are updates to Dominion SX software free?	Yes. Currently, all software upgrades are free.
Does Dominion SX require any additional client software?	No. Dominion SX is truly “Plug-and-Play” making installation quick and set-up easy. It is not necessary to buy any additional client software or hardware. In addition, no special networking equipment or design is necessary.
What code-sets does the terminal emulator in Dominion SX support?	Dominion SX release 3.0 or higher supports VT100/VT220/VT320 and ANSI with the following code-sets: <ul style="list-style-type: none"> <li>• US-ASCII ((ISO 646)</li> <li>• ISO 8859- (Latin-1)</li> <li>• ISO-8859-15— (Latin -9)</li> </ul>
What is the name of the terminal emulation package included with Dominion SX?	Beginning with Release 3.0 it is called the Raritan Serial Client (RSC). For firmware releases 2.00 through and including 2.5, it was called RaritanConsole.
Can I use Dominion SX over a VPN connection?	Yes, Dominion SX fits into most any network configuration utilizing TCP/IP. Set up the VPN (typically IPsec) connection then start the web-browser and enter the URL for the Dominion unit. The session to the Dominion runs transparently over the VPN tunnel.
The Dominion SX uses the Web browser to access serial devices. What are the advantages of Java-enabled Web browser access?	For many Solaris™/Unix®/Linux system administrators, the de facto standard for accessing serial hosts is SSH. However, the SSH clients available for Unix/Linux do not support Apple Macintosh. Additionally, Java-enabled browsers are available on many platforms, including PDAs and handheld PCs. The easy “point-and-click” access offered by Dominion SX allows administrators secure access from any Java-enabled Web browser.
I need an IP-enabled console switch. Now that Dominion SX support local (direct) Port access, beginning with release 2.2, by using the AUATC, can I connect a Dominion SX to the Paragon network, instead of using an SCS232 Console Switch (or equivalent)?	Yes. Connect the AUATC to the Paragon switch, and connect the AUATC (DB-25-Male connector) to the Dominion SX (DB9-Male connector) using a DB25-female to DB9-female cable. Then Enable the local port access (LPA) feature on the Dominion SX; ensuring that the communication parameters (baud rate, parity, etc.) matches between the AUATC and the Dominion SX.
What Authentication mechanisms does the Dominion SX support?	Local database, RADIUS, LDAP/S, TACACS+, Active Directory, and Kerberos V5.
What Authentication and Authorization mechanisms does the Dominion SX support?	Local database, RADIUS, LDAP/S, TACACS+, Active Directory, Kerberos V5. Optionally, local authentication can be Disabled.
Can the Dominion SX support Authorization at a per port level?	Yes. Dominion SX can support Authorization at a per port level – via Local database, RADIUS, LDAP/S, TACACS+, Active Directory, Kerberos V5.
Does Dominion SX support SNMP?	Yes. Dominion SX supports SNMP traps via the Raritan Enterprise MIB.
Does Dominion SX support syslog	Yes. Dominion SX supports syslog – to primary and secondary servers.
Can I log every keystroke of a session (input from user and response from a server/device) with a server?	Yes. Dominion SX supports logging over NFS. Beginning with Release 3.0, the session can be optionally encrypted with a user-defined key.

Questions	Answers
Does Dominion SX support telnet?	Yes. Dominion SX supports enabling of the telnet daemon on the Dominion SX unit. Because telnet sends all information “in the clear”, enabling telnet is at the customers own discretion, and telnet is disabled by default when the unit ships from the factory. Raritan strongly suggests the use of SSH as a safer alternative to telnet, since all data is encrypted, including the login sequence.
Can I send an intentional “break” signal to the SUN Solaris server when using SSH?	Yes.
Can I send an intentional “break” signal to the SUN Solaris server when using a Web browser?	Yes.
Can I send an intentional “break” signal to the SUN Solaris server when using telnet?	Yes.
Can I get the buffered off-line data from a serial port when using SSH?	Yes.
Can I get the buffered off-line data from a serial port when using telnet?	Yes.
Can I get the buffered off-line data from a serial port when using a Java-enabled web-browser?	Yes.
Does Dominion SX support local (direct) port access for “crash-cart” applications in a data center?	<p>Yes.</p> <p>1. Beginning with release firmware revision 2.2, Dominion SX supports local port access. Feature is disabled by default from the factory. Default parameters are 9600-N-8-1. The local port on the Dominion SX 4/8/16/32 is a DB9-Male.</p> <p>2. The local port on the Dominion SX 48 port models with a modem is RJ45 Female. For models with two local ports (models without a modem), the 2<sup>nd</sup> local port is DB9-Male.</p>
Can I upgrade my SX16 or SX32 unit from December 2003 to firmware 2.2 and take advantage of the local port access feature?	Unfortunately not. The local port access feature on the Dominion SX required a hardware modification to the SX16 and SX32 units. A return to factory is required. Please contact Raritan Support to see how the unit can be upgraded to allow you to take advantage of this feature. However, all SX 16/32 units shipped after August 2, 2004 have the hardware modifications made to enable use of this feature with Dominion SX firmware revision 2.2 or higher.
Can I upgrade my SX4 or SX8 unit from January 2004 to firmware 2.2 and take advantage of the local port access feature?	Yes. All SX4 and SX8 units, when upgraded to firmware revision 2.2 will allow use of this capability. Just enable the local port access option.

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<p>What are the pin-outs of the Dominion SX RJ45 serial ports?</p>	<p><b>Dominion SX Serial Pin-outs</b></p> <p>The RJ45 connector on the rear of the unit has the following pinout:</p> <table border="1" data-bbox="603 362 1086 622"> <thead> <tr> <th>RJ45 PIN</th> <th>SIGNAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RTS</td> </tr> <tr> <td>2</td> <td>DTR</td> </tr> <tr> <td>3</td> <td>TxD</td> </tr> <tr> <td>4</td> <td>GND</td> </tr> <tr> <td>5</td> <td>Signal GND</td> </tr> <tr> <td>6</td> <td>RxD</td> </tr> <tr> <td>7</td> <td>DSR</td> </tr> <tr> <td>8</td> <td>CTS</td> </tr> </tbody> </table>	RJ45 PIN	SIGNAL	1	RTS	2	DTR	3	TxD	4	GND	5	Signal GND	6	RxD	7	DSR	8	CTS
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<p>What are the browsers (and versions) supported?</p>	<p>Here are the tested platforms and browsers.</p> <p>WIN XP Professional SP2 – SUN JRE 1.5.0_06</p> <ul style="list-style-type: none"> <li>• IE 6.0</li> <li>• IE 7.0</li> <li>• Firefox 1.0.7</li> </ul> <p>WIN Home Edition SP2 – SUN JRE 1.5.0_06</p> <ul style="list-style-type: none"> <li>• IE 6.0</li> <li>• IE 7.0</li> <li>• Netscape 7.1</li> <li>• FireFox 1.5.0.1</li> <li>• Mozilla 1.6</li> </ul> <p>WIN 2000 Professional SP4 SUN 1.5.0_06</p> <ul style="list-style-type: none"> <li>• IE 6.0</li> <li>• FireFox 1.5.0.1</li> </ul> <p>WIN 2000 Professional SP2 SUN JRE 1.4.2_05 — IE 6.0</p> <p>Fedora Core 4 JRE 1.4.2_05</p> <ul style="list-style-type: none"> <li>• Mozilla 1.6</li> <li>• Netscape 7.1</li> </ul> <p>Slackware 10.2 — FireFox 1.5.0.6</p> <p>FreeBSD 6.1 — FireFox 1.5.0.7</p> <p>Windows Vista Business 64-bit</p>																		

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<p>What are the most commonly used cables and adapters?</p>	<p>Connectivity Table: This table lists the commonly used Dominion SX hardware (adapters and/or cables) to common Vendor/Model combinations:</p> <table border="1" data-bbox="600 349 1482 976"> <thead> <tr> <th>VENDOR</th> <th>MODELS</th> <th>CONSOLE CONNECTOR</th> <th>SERIAL CONNECTION</th> </tr> </thead> <tbody> <tr> <td>Checkpoint</td> <td>Firewall</td> <td>DB9M</td> <td>ASCSD9F adapter and CAT5 cable</td> </tr> <tr> <td>Cisco</td> <td>PIX Firewall</td> <td>DB9M</td> <td>ASCSD9F adapter and CAT5 cable</td> </tr> <tr> <td>Cisco</td> <td>Catalyst</td> <td>RJ45</td> <td>CRLVR-15 cable</td> </tr> <tr> <td>Cisco</td> <td>Router</td> <td>DB25F</td> <td>ASCSD25M adapter and CAT5 cable</td> </tr> <tr> <td>Hewlett- Packard</td> <td>Unix Server</td> <td>DB9M</td> <td>ASCSD9F adapter and CAT5 cable</td> </tr> <tr> <td>Silicon Graphics</td> <td>Origin</td> <td>DB9M</td> <td>ASCSD9F adapter and CAT5 cable</td> </tr> <tr> <td>Sun</td> <td>SPARCStation</td> <td>DB25F</td> <td>ASCSD25M adapter and CAT5 cable</td> </tr> <tr> <td>Sun</td> <td>Netra T1</td> <td>RJ45</td> <td>CRLVR-15 cable</td> </tr> <tr> <td>Sun</td> <td>Cobalt</td> <td>DB9M</td> <td>ASCSD9F adapter and CAT5 cable</td> </tr> <tr> <td>Various</td> <td>Windows NT</td> <td>DB9M</td> <td>ASCSD9F adapter and CAT5 cable</td> </tr> <tr> <td>Raritan</td> <td>RPCU</td> <td>RJ45</td> <td>CSCSPCS-10 CABLE</td> </tr> </tbody> </table>	VENDOR	MODELS	CONSOLE CONNECTOR	SERIAL CONNECTION	Checkpoint	Firewall	DB9M	ASCSD9F adapter and CAT5 cable	Cisco	PIX Firewall	DB9M	ASCSD9F adapter and CAT5 cable	Cisco	Catalyst	RJ45	CRLVR-15 cable	Cisco	Router	DB25F	ASCSD25M adapter and CAT5 cable	Hewlett- Packard	Unix Server	DB9M	ASCSD9F adapter and CAT5 cable	Silicon Graphics	Origin	DB9M	ASCSD9F adapter and CAT5 cable	Sun	SPARCStation	DB25F	ASCSD25M adapter and CAT5 cable	Sun	Netra T1	RJ45	CRLVR-15 cable	Sun	Cobalt	DB9M	ASCSD9F adapter and CAT5 cable	Various	Windows NT	DB9M	ASCSD9F adapter and CAT5 cable	Raritan	RPCU	RJ45	CSCSPCS-10 CABLE
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<p>Where can I get a copy of the MIB for Dominion SX?</p>	<p>Go to <a href="http://www.raritan.com/_downloads/mib.txt">http://www.raritan.com/_downloads/mib.txt</a> get the SNMP MIB for Dominion SX – supported in Dominion SX version 2.2 and higher. (MIB last updated on 12/2/04)</p>																																																
<p>How do I install Java?</p>	<p>See the <b>Standalone Raritan Serial Console</b> section of <b>Chapter 5: Port Configuration and Port Access Application of the Dominion SX User Guide</b>.</p>																																																
<p>Is the status of the unit limited by the status of the device or equipment to which it is attached (that is, Server, router, firewall, load balancer, or other network device)?</p>	<p>No, because the unit is a totally “out of band” solution that runs on its own dedicated microprocessor.</p> <p>Even if the target devices to which the Dominion SX is attached are turned off, you will still be able to access the unit.</p>																																																
<p>Can I reset the unit without losing my settings?</p>	<p>There are two ways to perform a basic reset without losing your user-defined settings:</p> <ol style="list-style-type: none"> <li>1. Click <b>Reset</b> in the left panel of the Main Menu screen</li> <li>2. Switch off power from the unit, and then switch the power back on.</li> </ol> <p>Using either of these two methods preserves the previously established IP address and all other user-defined settings.</p> <p><b>Important:</b> Performing a “soft” reset as described above will log all users off the unit. Users will be able to access the unit again once the unit’s boot sequence is complete.</p>																																																

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<p>How do I reset the unit back to its factory-default settings?</p>	<p>To perform a factory default reset, <b>which will erase all custom settings</b> and re-establish the factory default settings:</p> <ol style="list-style-type: none"> <li>1. Attach the “factory reset fixture” to the unit’s 9-pin serial port, which is on the back of the chassis.</li> <li>2. Turn the unit off and wait a few seconds.</li> <li>3. Turn the unit back on, and allow the unit to complete the factory default reset sequence – this will take about 60 seconds.</li> </ol> <p><b>Important:</b> Performing a “hard” reset as described above will log all users off the unit. Users will not be able to access the unit again until the unit is re-configured.</p> <p>The factory default reset sequence consists of the following:</p> <ul style="list-style-type: none"> <li>• A solid green light for about 5 seconds</li> <li>• No light for about 15-20 seconds</li> <li>• Another solid green light for about 5 seconds</li> <li>• 3 green flashes (about 1 second each)</li> </ul> <p>The total time for this sequence is generally <u>about 40 seconds</u>. The IP address for the unit will be reset to <b>192.168.0.192</b>.</p> <p>For SX4, SX8, and all other models with a RESET switch on the rear panel,</p> <ol style="list-style-type: none"> <li>1. Use a ball-point pen (Do not use a graphite pencil), while the unit is powered ON to push in and hold the switch for about 30 seconds (or until the blue LED on the front of the unit goes off).</li> <li>2. Release the switch – only gentle pressure is required.</li> </ol> <p>The SX unit will detect the RESET switch and reset the unit to factory default. It will take about 60 seconds for the unit to reboot.</p>
<p>Does the unit need to be on the same physical LAN as the client_host during installation and setup?</p>	<p>Yes, the unit must be on the same physical LAN as the client_host during installation and setup.</p> <p>There should be no intermediate IP routers between the unit and the client_host during this stage.</p>
<p>Once the physical installation is complete and my <i>ping</i> query elicits a response from the unit, how do I initially access the unit and begin to customize the unit?</p>	<ul style="list-style-type: none"> <li>• Open a supported network-enabled web browser, type “<b>192.168.0.192</b>” in the address line, and press the &lt;Enter&gt; key.</li> <li>• The system displays the start-up screen for the unit, and prompts you through the entire set-up process.</li> </ul> <p>Once setup is complete, log off the console, and use the IP address you assigned during set-up to re-access the unit.</p>
<p>Once I have assigned the unit a unique IP address, how do I access the unit in the future?</p>	<ol style="list-style-type: none"> <li>1. Open your supported Web browser,</li> <li>2. Type the IP address you have assigned to that unit into the Address field</li> <li>3. Press the &lt;Enter&gt; key. The login/password screen for the unit will appear.</li> </ol>
<p>Can I assign specific port access to a specific user?</p>	<p>Yes, but only if the user is NOT an Administrator. The Administrator will always have access to all the ports.</p>
<p>I performed maintenance on my NFS server, which affected my Dominion SX port logging. I had port logging enabled, but I could not access any port on the DSX.</p>	<p>This is a designed feature. The idea of NFS port logging is to avoid missing anything on the ports.</p> <p>Disable port logging when performing maintenance on the NFS server.</p>

Questions	Answers
<p>Sometimes when I try to log on, I see a message that states my "login is incorrect" even though I am sure I am entering the correct User Name and Password. Why is this?</p>	<p>This is a security feature.</p> <p>There is a session-specific ID that is sent out each time you login to the unit. This ID has a time-out feature. If you do not login to the unit before the time-out occurs, then the session ID becomes invalid.</p> <p>Performing a <b>&lt;Shift-Reload&gt;</b> refreshes the page from the unit, and not from the now-expired cache. Similarly, you may close the current browser, open a new browser, and login again. This provides an additional security feature so that no one can recall information stored in the cache to access the unit.</p>
<p>What should I do if the browser returns with the message that the device timed out?</p>	<p>Try reloading using <b>&lt;Shift-Reload&gt;</b>. If this does not work, check your network connections and network status.</p> <p>You may also want to <b>ping</b> the console or perform a <b>route print</b> (as described in other FAQs) to ensure that proper network communication is occurring.</p> <p>If a web page does not load to your browser, there are probably network difficulties that are preventing the page from loading.</p>
<p>How do I upgrade from Dominion SX, version 2.5 to Dominion SX version 3.0?</p>	<p>Go to the Raritan Support site and click on the Firmware Upgrades section to obtain this information.  <a href="http://www.raritan.com/support/sup_upgrades.aspx">http://www.raritan.com/support/sup_upgrades.aspx</a></p>
<p>How do I upgrade the Dominion SX software?</p>	<ol style="list-style-type: none"> <li>1. Go to the Main Menu screen.</li> <li>2. Click <b>Upgrade</b> and then follow the prompts – you must type the <b>IP Address</b> and <b>File Path</b> to perform the upgrade.</li> </ol>
<p>What if I forget or lose my password?</p>	<p>Any Administrator can assign any user (Administrator, Operator, or Observer) a new password if it is forgotten or lost.</p> <p><b>Important:</b> If there is only one Administrator, and he/she forgets his/her password, then the unit must be factory-reset and re-configured from the initial set-up screen. <b>All saved values will be lost.</b></p>
<p>Is there any way for me to optimize the performance of Microsoft Internet Explorer if it is my preferred Web browser?</p>	<p>To improve the performance of Microsoft Internet Explorer when accessing the console:</p> <ol style="list-style-type: none"> <li>1. Select <b>Tools→Internet Options→Advanced</b> from the main menu.</li> <li>2. Scroll through the list until you see the following items and <b>disable them</b>. <ul style="list-style-type: none"> <li>• <b>JIT compiler for virtual machine enabled</b></li> <li>• <b>Java logging enabled</b></li> <li>• <b>Java console enabled</b></li> </ul> </li> </ol>
<p>I am having trouble using the 128-bit SSL on the unit. Do you know what might be causing this?</p>	<p>It is likely that the browser you are using does not support 128-bit SSL encryption. Depending on the version of browser installed on your workstation, you may need to do one of the following:</p> <ul style="list-style-type: none"> <li>• Install a 128-bit SSL compatible version of your browser.</li> <li>• Upgrade your current browser to be 128-bit SSL compatible.</li> </ul> <p>See the browser manufacturer's web site for instructions.</p>
<p>Sometimes when I am trying to dial-in to the unit or when I am connected to the unit via the modem and I lose my connection.</p> <p>If I immediately try to dial-in again, I can't get connected.</p> <p>However, if I wait for a few minutes, the dial-in is successful. Why is this?</p>	<p>In this case, "a few minutes" is the key:</p> <ul style="list-style-type: none"> <li>• The modem has a pre-defined "clean up time" after every connection ends – it does not matter whether the connection is dropped, severed, or intentionally closed by the user.</li> </ul> <p>The modem will take about one minute to re-cycle itself to be ready for the next incoming call.</p>

Questions	Answers
What's the MTBF for Dominion SX?	131,566 Hours. Keep in mind that the life of a SX depends on the environment factors such as temperatures, humidity, variation in power and other factors
How do I select the language and how many languages that RSC can support?	Open RSC - Emulator - Setting - Display - Language. SX 3.1 RSC can support four languages: English, Japanese, Korean and Chinese