

This Technical note is intended to assist you in configuring Extron Streaming Media equipment for utilizing 802.1x network security features.

Updated: August 2020

Extron Products Affected:

All SMD products, including:	Firmware versions
• SMD 101	3.00 or greater
• SMD 202	3.00 or greater

BEFORE YOU START

Before beginning, ensure that your network supports 802.1x security. More information about the 802.1x technology is provided [HERE](#), in the white paper entitled "802.1x Primer". An Extron Insider account is required to access the white paper.

Extron uses the **Toolbelt** software to enable and configure the 802.1x protocol on all compatible Extron products. You will need to download the Toolbelt software version 2.7.0 (or greater) using your Extron Insider account from <https://www.extron.com/product/software/toolbelt>.

After you have downloaded Toolbelt, you must successfully install the application.

BACKGROUND – WHAT IS 802.1x?

802.1x is the IEEE standard for port-based network access control. 802.1x allows a network administrator to ensure secure communication with a common infrastructure using certificates from a server referred to as an authenticator server.

GETTING STARTED

Open Toolbelt

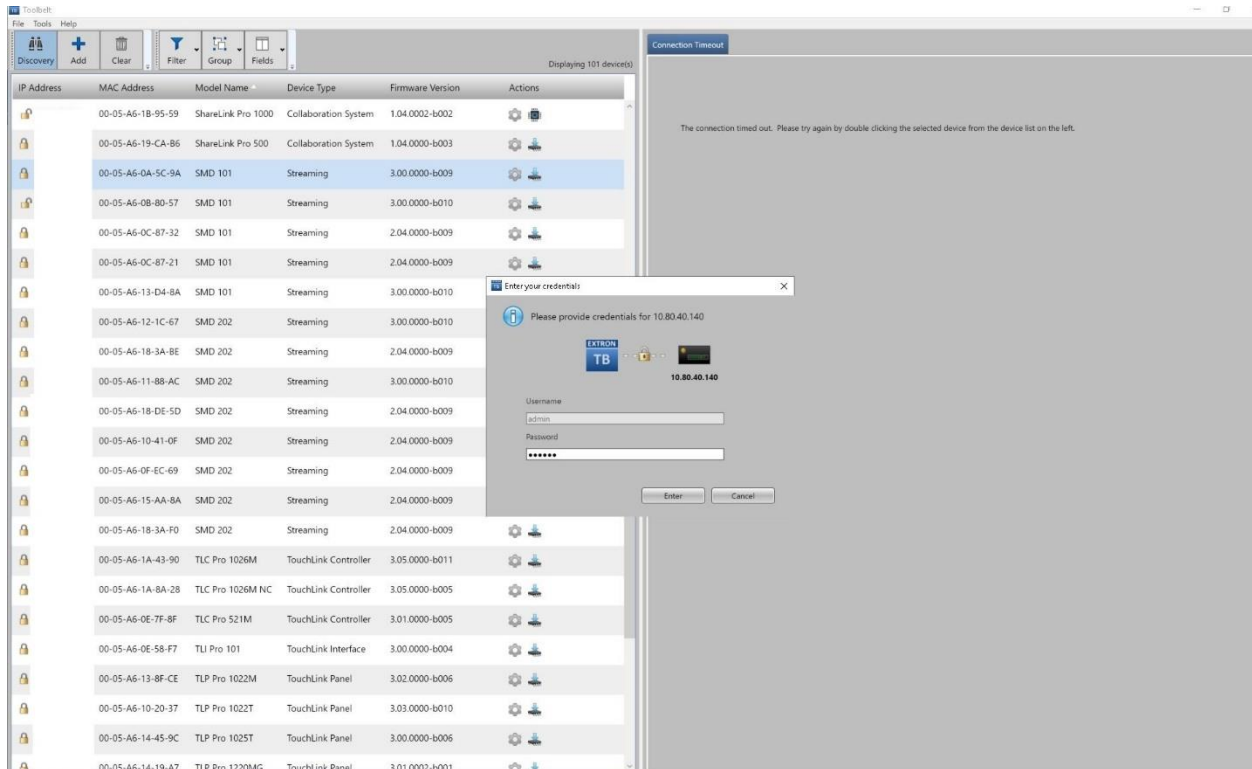
Locate the SMD product you wish to add to your 802.1X deployment

Select the SMD by clicking on the IP address (hyper link not shown here).

The screenshot displays the Extron Toolbelt application window. The interface includes a menu bar (File, Tools, Help), a toolbar with icons for Discovery, Add, Clear, Filter, Group, and Fields, and a status bar indicating "Displaying 103 device(s)". The main area is a table listing discovered devices. The table has columns for IP Address, MAC Address, Model Name, Device Type, Firmware Version, and Actions. The devices listed include NAV, Network Button Panel (NBP), Collaboration System (ShareLink Pro), and Streaming (SMD) products. The SMD products are listed with IP addresses ranging from 00-05-A6-08-80-57 to 00-05-A6-12-1C-67. The Actions column contains icons for configuration and connection.

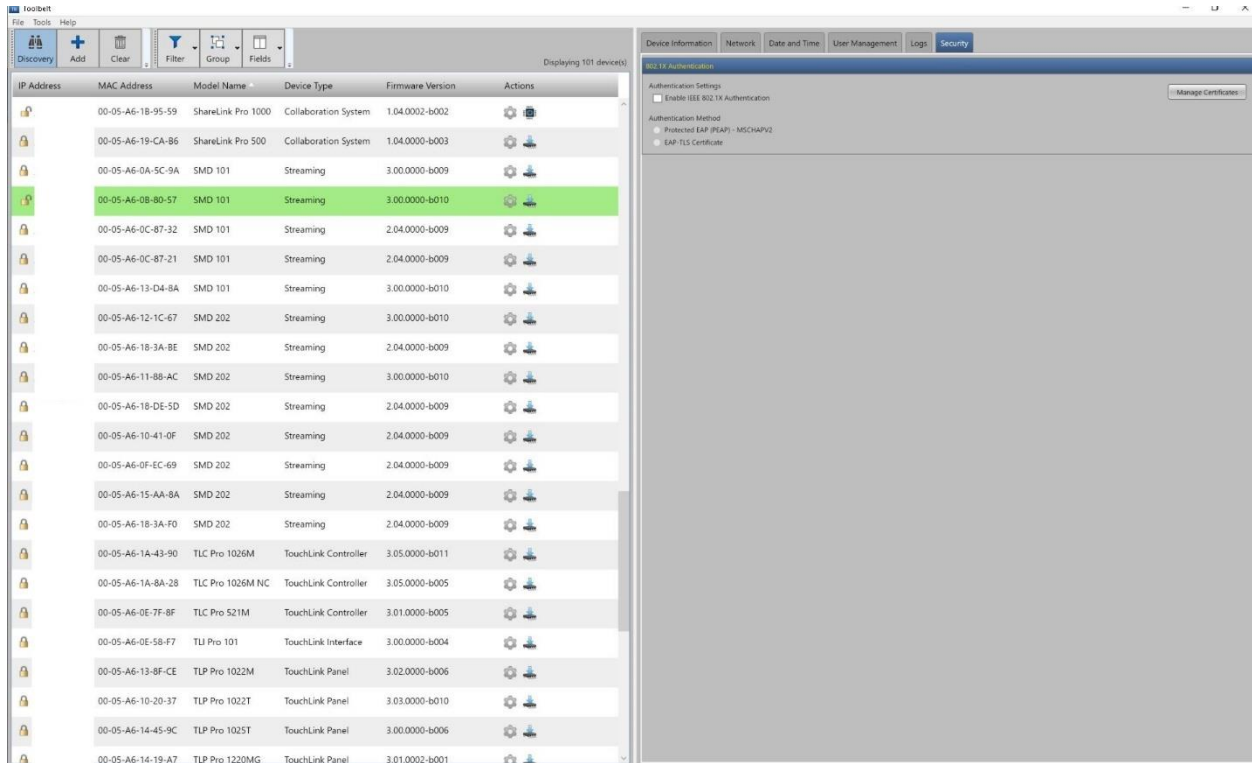
IP Address	MAC Address	Model Name	Device Type	Firmware Version	Actions
00-05-A6-19-17-22	00-05-A6-19-17-22	NAVIGATOR	NAV	1.00.0006-b033	
00-05-A6-17-CA-3C	00-05-A6-17-CA-3C	NBP 100	Network Button Panel	1.02.0000-b001	
00-05-A6-15-BF-4B	00-05-A6-15-BF-4B	NBP 105 D	Network Button Panel	1.01.0000-b005	
00-05-A6-15-BF-63	00-05-A6-15-BF-63	NBP 105 D	Network Button Panel	1.00.0000-b010	
00-05-A6-15-BF-08	00-05-A6-15-BF-08	NBP 106 D	Network Button Panel	1.00.0000-b011	
00-05-A6-15-BF-5B	00-05-A6-15-BF-5B	NBP 108 D	Network Button Panel	1.00.0000-b011	
00-05-A6-15-BF-4D	00-05-A6-15-BF-4D	NBP 108 D	Network Button Panel	1.00.0000-b011	
00-05-A6-15-BE-F5	00-05-A6-15-BE-F5	NBP 110 D	Network Button Panel	1.00.0000-b010	
00-05-A6-16-45-7D	00-05-A6-16-45-7D	ShareLink Pro 1000	Collaboration System	1.05.0000-b002	
00-05-A6-18-95-59	00-05-A6-18-95-59	ShareLink Pro 1000	Collaboration System	1.04.0002-b002	
00-05-A6-19-CA-B6	00-05-A6-19-CA-B6	ShareLink Pro 500	Collaboration System	1.04.0000-b003	
00-05-A6-08-80-57	00-05-A6-08-80-57	SMD 101	Streaming	3.00.0000-b010	
00-05-A6-0A-5C-9A	00-05-A6-0A-5C-9A	SMD 101	Streaming	3.00.0000-b009	
00-05-A6-0C-87-32	00-05-A6-0C-87-32	SMD 101	Streaming	2.04.0000-b009	
00-05-A6-0C-87-21	00-05-A6-0C-87-21	SMD 101	Streaming	2.04.0000-b009	
00-05-A6-13-D4-8A	00-05-A6-13-D4-8A	SMD 101	Streaming	3.00.0000-b010	
00-05-A6-0F-EC-69	00-05-A6-0F-EC-69	SMD 202	Streaming	2.04.0000-b009	
00-05-A6-15-AA-8A	00-05-A6-15-AA-8A	SMD 202	Streaming	2.04.0000-b009	
00-05-A6-18-3A-F0	00-05-A6-18-3A-F0	SMD 202	Streaming	2.04.0000-b009	
00-05-A6-11-88-AC	00-05-A6-11-88-AC	SMD 202	Streaming	3.00.0000-b010	
00-05-A6-10-41-0F	00-05-A6-10-41-0F	SMD 202	Streaming	2.04.0000-b009	
00-05-A6-12-1C-67	00-05-A6-12-1C-67	SMD 202	Streaming	3.00.0000-b010	

Enter the Username and Password for your SMD



Enable 802.1X

Click Manage Certificates

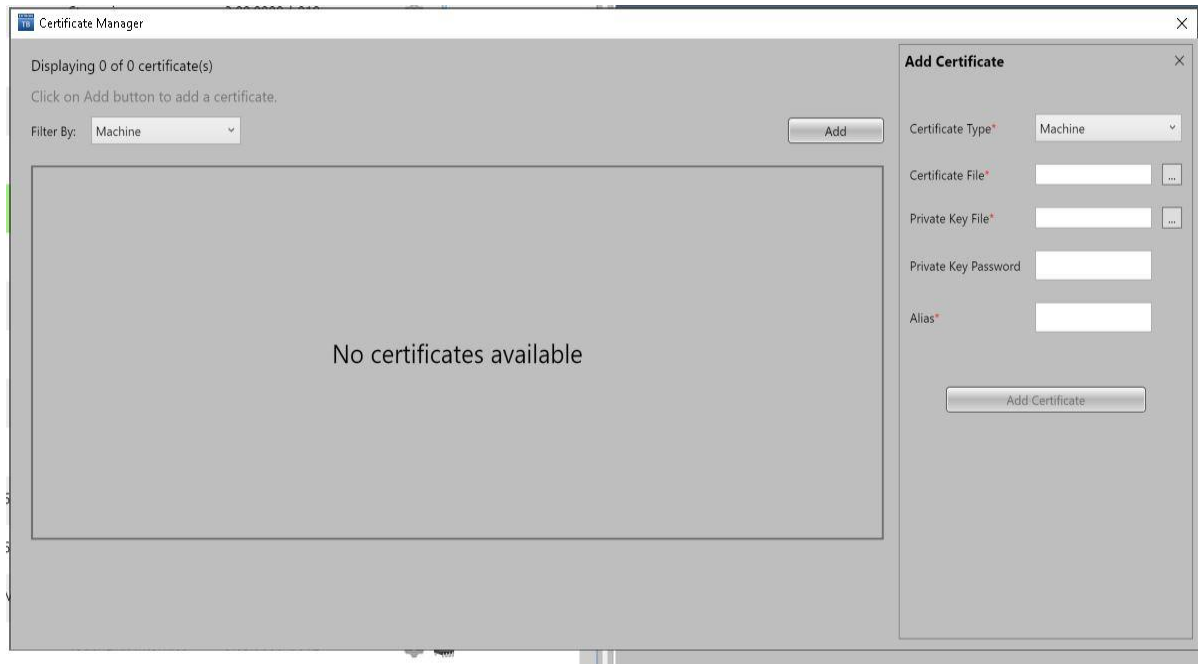


Click the button labeled Add

Select your Certificate type

Click the button on the right of Certificate file and browse to where you have the certificates stores.

Click the button on the right of the Private Key line and browse to where your key is stored.



Enter your Private Key password and Alias.

Click Add Certificate.