

## Setting Up HTTPS For L5 Connect

L5 Connect Supports both TCP and HTTPS connections. You may want to use HTTPS if you are connecting to the service over a WAN connection or the internet to further secure the connection.

To use HTTPS connection mode, you will need the following procedure:

### **1. SSL Certificate**

Obtain a public SSL certificate and move it to the L5 Connect Service PC.

**NOTE: This can be obtained from several 3<sup>rd</sup> party providers or your own Certificate Authority server. Check with your IT Department on how to obtain an SSL certificate.**

Preferred Cert Format: PKCS#12 with private key included in cert.

Install the cert into the LocalMachine/Personal cert store of the L5 Connect Service PC.

Make sure to get the thumbprint of cert, it will be used in the following commands.

The thumbprint can be found in the cert properties-> Details Tab (Scroll to bottom)

Highlight and Copy/Paste the thumbprint to a notepad, make sure to remove all the spaces.

### **2. Map-Server Certificate to Port (on the server)**

**From elevated Command Prompt or Powershell:**

```
netsh http add sslcert ipport=0.0.0.0:PORT_TO_BIND appid={d5bf2edf-23fd-44cf-a984-ccd2095bdd0c} certhash=CERTIFICATE THUMBPRINT
```

```
netsh http add sslcert ipport=IP_OF_INTERFACE:PORT TO BIND appid={d5bf2edf-23fd-44cf-a984-ccd2095bdd0c } certhash=CERTIFICATE THUMBPRINT
```

**If you want to bind to a specific IP.**

0.0.0.0        Binds cert to all interfaces on the system

IP\_OF\_INTERFACE= Specific IP of the interface you want to bind this cert to

**NOTE: When selecting the port, you will need to use a Different port for HTTPS Service Connections and HTTPS API Connections. This will require you to run this command twice.**

### 3. Enable HTTPS

1. Open L5Connect Service Configuration Utility (mapping must be complete)
2. Navigate to info tab.
3. Under Service Model, Check the “Enable” box for HTTPS
4. In the textbox
  - a. Input the CN of the Cert Mapped into the Hostname field
5. In the Port Field
  - a. Input the Port number you mapped to the certificate.

#### **If Using API:**

1. Under “API” check the HTTPS checkbox.
2. In the textbox
  - a. Input the CN of the Cert Mapped into the Hostname field.
3. In the Port Field
  - b. Input the Port number you mapped to the certificate.

To connect to the service from the admin client, you will need to create a new connection and use:

- The CN name of the cert
- Port that was mapped
- Ensure “Use HTTPS” is checked

To use the API:

- Generate an API token in the Admin client
- Assign it to an ATC user in the system.
- That token can then be used by the interface accessing the system.

When connecting a L5 Connect device:

- Ensure to select HTTPS when prompted for Connection Type.
- Use the CN name of the cert for the Hostname of the service.

API process is detailed in the L5 Connect Administration guide (ZL5C-ADMINGUIDE)