Setting up External Access to Lodgical Server with an SSL Certificate

GUIDE FOR I.T. PROFESSIONALS ZUCCHETTI NORTH AMERICA, LLC

Introduction

Lodgical Server is a Windows-based application that acts as both a companion service to Lodgical Solution and a web server providing web-based access to some features of Lodgical Solution.

In order to access these features of Lodgical Solution outside your business's network (that is, off-site, or externally), you'll need to set up a Secure Socket Layer (SSL) Certificate for Lodgical Server. This is **different** than any SSL Certificate you might have set up for your website.

Setting up an SSL Certificate involves some installation on the computer that acts as your server for Lodgical, as well as some configuration of your network. Please follow the instructions outlined in this document.

Part 1: Initial Checklist

Before purchasing and setting up an SSL Certificate, you'll need to prepare your network for external access. Please ensure you have done everything on the below checklist before continuing to Part 2.

External Static IP address

Contact your internet service provider to set up an external (aka public) static IP address for your business. You will not be able to set up your SSL Certificate until you have an external static IP address.

Internal Static IP address

In addition, you'll need to assign a static IP address internally, on your business's network, to the computer that acts as your server for Lodgical Solution. If you're not sure which computer acts as your server for Lodgical Solution, please contact Zucchetti North America, LLC.

Port numbers for Lodgical Server

Lodgical Server requires two ports – one for SSL connections and one for non-SSL connections. You'll need to determine which ports you will use for these.

NOTE: There are several ports you cannot use. These include ports 80, 443, 8443, 8080 and 9001.

Domain name

Finally, you'll need a domain name that you'll use to access features of Lodgical Solution externally. It can be a subdomain of your business's existing domain, e.g. *Lodgical.MyBusiness.com*.

Part 2: Port Forwarding

Next, you'll need to configure port forwarding on your router so that incoming connections to your router at the SSL port you selected above are forwarded to the internal static IP address you set up above for the computer that acts as your server for Lodgical Solution. **NOTE:** Never forward incoming connections to the non-SSL port; this is for internal use only. Only use the SSL port for external traffic.

Configuring port forwarding varies by router.

Part 3: Set up your SSL Certificate

You're now ready to set up your SSL Certificate. This process involves generating a Certificate Signing Request (CSR), then purchasing an SSL Certificate and requesting it via the CSR, and finally configuring Lodgical Server to use the SSL Certificate

Generate a Certificate Signing Request (CSR)

There are multiple ways to generate a CSR. Some vendors that sell SSL Certificates, such as GoDaddy, allow you to generate a CSR as part of the process of setting up your SSL Certificate.

For this guide, we'll be using CSRGenerator.com.

Go to <u>https://csrgenerator.com</u> and fill out the requested information about your business (Figure 1). Under Common Name, type the domain name that you identified in Part 1. Make a note of all the information you enter on this page, as you might have to re-enter it exactly the same way in another place later on.

Generate a Certificate Signing Request	BEGIN CERTIFICATE REQUEST
Complete this form to generate a new CSR and private key.	MIIC1DCCAbwCAQAwgY4xCzAJBgNVBAYTAlVTMRUwEwYDVQQDDAxCYX1MYWtLcy5D vZ4x2LYgMd5nn3W93YQKVq+iXxAuZVecYLmY1GCyMt7xNXi/IcH+y8NRjfgZoi03
Country	3UNZH8BGogcnRUDNFn/m/Mr5GO7GG9KM2nR14Y3HRwYDT3yVwz21438GR2K8WTQX F9MiyNMHe212CWXwcgwiP3VYK0RXYQN0gu8n3c1pQ1prcNgxH4A9NYByk4YY3FA/
US	HTK11EH027JOCHIITHJTHQYHCYKICOKKH2QgHHIDSCH2ISKBHIVD7Q7D2Hqyw KaQUptjWugpL5xEwQIDAQABOAWDQYJKOZINYCNAQELBQADggEBAJS5TEb6tD0 gageJgD2JD1csEdDL12/Mun4bDc5/anEEgAJV/VVWBQUVIJScEThyBdf4T1B
State	guorusiosingaruskas/imprangu/presquaruskamguguepoepoepoepoepoepoepoepoepoepoepoepoepoe
Wisconsin	L1D2GK102/nt5+Iw5ORD51wBbwdTngbPk+R1Hb7yc81Rqa0FJ/nz/DfV173XcVZY wd0h4xNwhzscj35h56cTQfVXf20qvVT+OHMUB3qTQx3t9gqvXfEV7jqBG1FyDqwh
Locality	+gDHH9fWgWM= END CERTIFICATE REQUEST
Sturgeon Bay	BEGIN PRIVATE KEY
Organization	MIIEvQIBADANBgkqhkiG9w0BAQEFAASCBKcwggSjAgEAAoIBAQDU4vwcxWx+4wiG gZsNgW/D4gAa1NroOenmt9Of/4fRJ7COt3C5Pjh5vSDaQdcD6sfD3PC9njHYtiAx
Bay Lakes Information Systems	3mefdb3dhApWr6JfEC5lV5xguZjUYLI23VE1eL8hwf7LwdGN+BmiLTfe41kfxsai BydFQM0WH+b8yvkY7u0b0ozadGLhgkdHBgO0nJXDPYjjfwZFmTZBNBd/0yLI0wd7
Organizational Unit	bVkJZfByDCI8m9grRHFhA06C7yclzwlDwmtw2DEeID01gHKThhjcUD8d8phMQd17 uOhyGwV8cmuFDIy3IqG2g5Hsdk6AceY6xw3SK6xYE2dUP9D8NfMyr1YppBSm2NbC
Reservations	6CkvnETBAgMBAAECggEAcp4nKQJuUL7Bt1GOfq4C088ZSVJy53dO5MZybUFyCX06 BQzkSwEF9p2KU51BQH2mmBxSVYj9k7QdKk0137YE6zkuBl17zLTuA38kmM69pWh
Common Name	PgO4KJALKYY+MWMKHEP121V1MHVTX2TX01KVD02EHDXCJ8X0E2G1+AMV/MQE/NKN Scdm1AhKQLbXVUmchrap8K2vd4FnbXW4WDQNEq656/Nme08P71P302y8PU8Vd
Lodgical.BayLakesIS.COM	VIADW/PVCAB221b0C051DVQ+TWg9C021D5KS0FU9ZQW2X03X0000E4VWQK8gHuG plKfZP+eHoqGEqOHZPpEGq4aj0EUXvc88/LHOpyalXreMhFQLdIC7rNi6he+naID kaWkr25{Urcnu1Kg2asf59DWg1kbM32ydTz1jaBV(3m0HtQEzOVC84KasSA)
Key Size	iLJSt7872Sl39B+JmC+HlCO/OJKHm6Q8U+XwB3IVAoGAOPITCw9OrWiz2zkFI3jJ
0 2048	yvWf5vxJ5G69NvECEQvQLsu4olwdE8Et9boVReoSbQoJIyOgvSivqsBkZolUE5/G QlvTir1TT7cbIGToQbqtxAgNj+IcXDR2xpakUZqmtxY8xP1Er4maQkM7iCBzo/x5
Generate CSR	kJmvxP4r5B3gd05wqkclNek= END PRIVATE KEY

CSR form (Figure 1)

Generated CSR (Figure 2)

Once you submit the form, you will be given a private key and a CSR (Figure 2).

Copy and paste the CSR text into a new text file, and save it as C:\Lodgical\SSL\Key.TXT.

Purchase and set up an SSL Certificate

Now purchase an SSL Certificate. You can do this through many providers. For this guide, we'll be using GoDaddy (<u>https://godaddy.com</u>).

Purchase an SSL Certificate from GoDaddy here: <u>https://www.godaddy.com/web-security/ssl-certificate</u>

After you've purchased the certificate, activate your SSL credit by following the instructions here: <u>https://www.godaddy.com/help/activate-my-ssl-credit-31927</u>

Next, you'll need to request your SSL Certificate by entering the CSR you generated above. Follow the instructions here (under the heading "Request your certificate with a CSR that has already been created"): <u>https://www.godaddy.com/help/request-an-ssl-certificate-standard-assurance-31928#haveacsr</u>

Next, verify that you have control of the domain you're using for the SSL by following the instructions here: <u>https://www.godaddy.com/help/verify-my-certificate-request-standard-assurance-23838</u>

Finally, download your SSL Certificate files by following the instructions here: <u>https://www.godaddy.com/help/download-my-ssl-certificate-files-4754</u>

Extract the CRT files from the downloaded certificate ZIP file. You will find that one of the files is your certificate. Copy that file, and save the copied file as C:\Lodgical\SSL\Cert.TXT

(continued on next page)

Configure Lodgical Server to use the SSL Certificate

Next, configure Lodgical Server to use the SSL Certificate that you just set up.

Open LodgicalServer.exe. If you do not see a window appear, check your system tray and double-click the Lodgical Server icon there – the application might have been set to auto-run.

Once the Lodgical Server window is open, go to Configure -> Settings.

Server	1.1111
IP	(all addresses)
Server Port:	8081 Non SSL Port: 0
	Use SSL?
CRT File:	c:\lodgical\ssl\cert.txt
Root CRT File	: c:\lodgical\ssl\cert.txt
KEV Eiler	c:\lodgical\ss\\key_txt
NET FIE.	c. lougical borney.exe
SSL Password	:
SSL Password Cipher List:	t: ULL:!eNULL:!PSK:!RC4:!MD5
Cipher List: POS Max Room C	t: I: IULL:!eNULL:!PSK:!RC4:!MD5 Charge 0.00 charge after check-out
SSL Password Cipher List: POS Max Room C Allow Roo Service	t: ULL:!eNULL:!PSK:!RC4:!MD5 Charge 0.00 om Charge after check-out

Lodgical Server Settings (Figure 3)

For the ports ("Server Port" and "Non SSL Port"), enter the port numbers you selected in Part 1. Enter the rest of the information as noted above. You should not need an SSL Password, unless one is provided to you. The Default Cipher List as shown above. Do not change this unless instructed by a representative of Zucchetti North America, LLC.

Click OK, then exit and re-open Lodgical Server.

Part 4: Configure your domain name

Next, configure the domain name you selected in Part 1 to point to the external static IP address you received from your internet service provider in Part 1.

The process for doing this varies based on your domain registrar. In general, you'll need to create an A Record to point the domain at your external static IP address.

Part 5: Test

Finally, test to make sure that your setup is working.

Make sure Lodgical Server is running. On a device that is **not** connected to your business's network (e.g. a smart phone with the WiFi turned off), open a browser and go to your domain name with the port number at the end, e.g. *https://Lodgical.MyBusiness.com:8081*. Make sure you type HTTPS at the beginning, **not** HTTP.

If your setup is working, the words "Lodgical Server" should appear on the page in plain text.

Part 6: Notify Lodgical Solution Support

Once your setup is working, send your domain name, including the port number, to a support staff person at Zucchetti North America (Lodgical Solution).