M-Link Edge R19.4V6 Evaluation Guide

Installing and configuring R19.4V6 of M-Link Edge, Isode's XMPP Gateway Server.

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Introduction

This guide demonstrates how to get up and running with M-Link Edge R19.4V6.

Objectives

By the end of this evaluation you will have:

- Installed M-Link Edge R19.4V6
- Requested a Product Activation Key (PAK)
- Receive and Installed the PAK.
- Connected to two External XMPP Servers.

Using Isode Support

You will be given access to Isode support resources when carrying out your evaluation. Any queries you have during your evaluation should be sent to *support@isode.com*. Please note that access to the Self-Service Portal for web-based ticket submission and tracking is not available to evaluators.

Preparation

You should visit *www.isode.com/products/supported-platforms.html* to discover which operating systems are supported for Isode evaluations. In addition to the server platforms listed, we support the use of Isode server products on Windows 10 for simple evaluations and demonstrations.

Isode supports the use of the latest versions of Google Chrome, Mozilla Firefox and Microsoft Edge browsers with the M-Link Edge Web GUI. Internet Explorer is not supported.

External Dependencies

You will need a supported Browser installed on the Server and set as the default browser. In this guide we will use Chrome.

Product Download

Product downloads are held in a password-protected section of the Isode website. If you have not already done so you should apply for a username/password by filling in the form located at *www.isode.com/evaluate/evalrequest.html*.

M-Link Edge can be downloaded from the URLs below.

Windows:	https://www.isode.com/evaluation/windows/Isode%20M-Link-19.4v6.ms
Linux:	https://www.isode.com/evaluation/rhel/mlink-19.4v6.rpm
Debian:	https://www.isode.com/evaluation/debian/mlink-19.4v6.deb

Product Activation Key

M-Link Edge requires a valid Product Activation Key from Isode before it will run correctly. Keys are issued by Isode Customer Services. You will be show in this guide how to copy and send the Product Activation Key request to support@isode.com.

External XMPP Server Details

This guide assumes that you already have access to an external XMPP server and an XMPP Guard, which this installation will interact with.

Installing M-Link

Linux

Run the following commands.

					root(Dmle192-mt:/tmp	-	•	×
File	Edit	View	Search	Terminal	Help				
[roo Crea o /e [roo Redi [roo	t@mle ted s tc/sy t@mle recti t@mle	192-m symlin stemd 192-m ng to 192-m	t tmp]# k from /system t tmp]# /bin/s t tmp]#	<pre># rpm -i /etc/sys n/mlink.s # service systemct #</pre>	mlink-1 stemd/sy service. e mlink start	9.4v6.rpm stem/multi-user.target.wants/mlink start mlink.service	.ser	vice	t

Figure 1: Installing M-Link R19.4V6 Step 1 (Linux)

Then jump to the browser screen of the Windows Install (on Page 8) and point your browser at https://localhost:5221.

Windows

Double-click the .msi file that you downloaded earlier and follow the instructions for a fresh install. Click "Next"



Figure 1a: Installing M-Link R19.4V6 Step 1

Click "Next".

License Agreem	ients				^
All Isode Softwa and agree to the	re is subject to a license BEFORE	license agreem you use the so	ent. Be sure to oftware.	read	
Isode Software I	License (Direct Us	e)			
BY CLICKING T	HE ACCEPTANCI	E BUTTON OR	INSTALLING T	HE	
DI OLIOININO I					
SOFTWARE, Y		AND ARE BE	COMING A PA	RTY TO	

Figure 2: Installing M-Link R19.4V6 Step 2

Check the checkbox to accept the terms of the license and click "Next".

🧕 Isode M-Link 19.4v6 Setup	-		×
Destination Folder Click Next to install to the default folder or click Change to choose anoth	er.	e	Ð
Install Isode M-Link 19.4v6 to:			
C:\Program Files\Isode M-Link\ Change			
Back Next		Cano	el

Figure 3: Installing M-Link R19.4V6 Step 3

Click "Next".

💿 Isode M-Link 19.4v6 Setup			—		×
Ready to install Isode M-Link 19	.4v6			e	Ð
Click Install to begin the installation. C settings. Click Cancel to exit the wizard	Click Back to revi d.	ew or change any o	of your ir	nstallation	
	Back	Install		Canc	el

Figure 4: Installing M-Link R19.4V6 Step 4

Click "Install".



Figure 5: Installing M-Link R19.4V6 Step 5

Click "Finish" and the following Browser window opens.

Privacy error	× +	0	-	٥	×
$\leftrightarrow \rightarrow \mathbf{C}$ A Not secure	localhost:5221		☆		:
	Δ				
4					
Ň	Your connection is not private				
	four connection is not private				
A R	Attackers might be trying to steal your information from localhost (for example, basswords, messages or credit cards). <u>Learn more</u>				
1	IET::ERR_CERT_AUTHORITY_INVALID				
	${f Q}$ To get Chrome's highest level of security, <u>turn on enhanced protection</u>				
1		_			
l	Advanced Back to safe	ty			

Figure 6: Initial M-Link R19.4V6 Configuration Step 1

Click "Advanced".

	3	Priv	acy er	ror					×	-	F															0	-		٥	×
<	-	\rightarrow	C	4	A 1	Not	secu	ire	loca	alhc	st:522	21																☆		:
								Yc Atti pa		ers pords	ONT might	1 ec t be	ttio tryin es or	n is ng to r cred	S N(steal dit ca	ot k il you ards).	priv	vate	e tion fro	om loc a	alhost	: (for e	examp	ole,						
								Th colint Prc	T::ER Q Hide is se mpu erce	R_C To adv rve iter iter iter	get (ranced r coul s ope ng you	Chro Chro Id no eratir ur co	me's ot pro ng sy onne	(_INV/ s high ove t ystem ection	ALID hest I n. Thi n.	level it is l e	l of sec localh	ecurity nost; i cause	its sect sed by a	on ent urity ce a misco	nanced rtifica onfigu	<u>i prot</u> te is r ratior	B not tru	1 ack to isted b	safety by your ker					

Figure 7: Initial M-Link R19.4V6 Configuration Step 2

Click "Proceed to localhost (unsafe)".

M-Link web Console × +		-	σ	×
← → O ▲ Not secure https://localhost.5221	\$ Z ⁱ ≡	Ē		
Register initial administrator user These initial administrator credentials will be used to log in to the administration interface, for initial configuration of the server. Login Required I Image: Initial administrator uses and one plate the test on the server.			Ĭ	
Particular development of general particular of the development of the				
Submit Cancel				

Figure 8: Initial M-Link R19.4V6 Configuration Step 3

Enter an Administrator Login Name of your choice and set a Password.

D M-Link web Console x +			+	٥	×
← → ひ ▲ Not secure https://localhost:5221	☆	¢≡	¢		
Register initial administrator user These initial administrator credentials will be used to log in to the administration interface, for initial configuration of the server. Login Resurred admin administrator login (letters, numbers and symbols other than **&; <> @ and / are allowed) Password Resurred iministrator password (no character restrictions) Genetic Submit Cancel					

Figure 9: Initial M-Link R19.4V6 Configuration Step 4

Click "Submit".

A M-Link Username: Required user Password: Required
A Bequired User Password: Required
M-Link Username: Required User Password: Required
M-Link Username: Required User Password: Required
Username: Required User Password: Required
Username: Required user Password: Required
user Password: Required
user Password: Required
Password: Required
Login

Figure 10: Initial M-Link R19.4V6 Configuration Step 5

Enter the Administrator Login Name and Password you created previously.

M-Link	× +			0	- (
→ C A Not se	cure localhost:5221/log	gin?redirect=%2F			☆
		••	•		
		M-LI	nk		
		Username:	Required		
		Admin			
		Password:	Required		
		Logi	1		
		• · · · · · · · · · · · · · · · · · · ·			

Figure 11: Initial M-Link R19.4V6 Configuration Step 6

Click "Login" and the following screen appears.

S M-Link	× +	0	-	٥	×
← → C ▲ Not secu	re localhost:5221		r.	r 😩	:
	Product Activation				
	This product is not activated				
	 If Isode has sent you an Activation Key, you may enter it now. 				
	 If not, or you require different features, please request one. 				
	Request Activation Key Enter Activation Key				

Figure 12: Initial M-Link R19.4V6 Configuration Step 7

Click "Request Activation Key".

S M-Link	× +		0	- 0	×
$\leftarrow \rightarrow \mathbf{C}$ A Not sec	ure localhost:5221			\$:
← → C ▲ Not sec	Product Activation Please provide a reference identifying this server, which will be displayed as part of the product activation information. Reference: I	×		☆ ▲	
	Generate Activation Request	ick			

Figure 13: Initial M-Link R19.4V6 Configuration Step 8

Mittik x +
Product Activation X
Product Activation x
Please provide a reference identifying this server, which will be displayed as part of the product activation information.
Reference:
Evaluation Guide
Cenerate Activation Request
Back

Enter a reference for the Server.

Figure 14: Initial M-Link R19.4V6 Configuration Step 9

Click "Generate Activation Request".



Figure 15: Initial M-Link R19.4V6 Configuration Step 10

Use the "Copy" button (bottom left) to copy this "Activation Request" and then email it to support@isode.com .



Figure 16: Initial M-Link R19.4V6 Configuration Step 11

Click "Back"



Figure 17: Initial M-Link R19.4V6 Configuration Step 12

You will receive the "Product Activation Key" from Isode Support and you should then Click "Enter Activation Key".

S M-Link	× +	0	-	٥	×
$\leftrightarrow \rightarrow \mathbf{C}$ A Not sec	ure localhost:5221		☆		:
	Product Activation ×				
	Please input the Activation Key provided by the Isode Product Activation Service.				
	Activate				

Figure 18: Initial M-Link R19.4V6 Configuration Step 13

Paste the "Product Activation Key" in the space provided.



Figure 19: Initial M-Link R19.4V6 Configuration Step 14

Click "Activate", and the following screen should appear.

Link Edge ×	+		
\rightarrow O \blacktriangle Not secu	re https://localhost:5221/config	莽	7∕≡
I-Link Edge	Configuration		
nd a setting	Global Options		
Global options	Server configuration		
Peer Controls (1)	Customise Ports		
Links (0)	Allow the customisation of listening ports for the various services.		
TLS Configuration	Use HTTPS for Administration Interface		
Logging Configuration	When enabled, the Administration Interface will be exposed over HTTPS. More		
LDAP Configurations (0)	This is being used as the default in the following places:		
Stores >	Juse HTTPS for BOSH		
Access Tokens	Use Secure Cookle Flag		
	When enabled, the login cookie can only be sent over HTTPS connections. More		
	TLS Key Pair for Administration Interface		

Figure 20: Initial M-Link R19.4V6 Configuration Complete

Your server is now ready for further configuration.

Configuring M-Link Edge

There are a number of configuration options and the intention of this guide is to give you an overview of the most used ones. The options detailed below will be configured in this guide.

- 1. TLS Configuration (Only shown if you have a TLS Product Activation Key)
- 2. GCXP Link Configuration for use with Isode M-Guard
- 3. X2X Link Configuration for use with some 3rd Party Guards
- 4. Peer Configuration

TLS Configuration

Before you start this you will need the following.

- A Certificate Chain file in PEM format containing your Server Certificate, CA Certificate and any Intermediate CA Certificates.
- A Private Key file in PEM format (you must know the passphrase for the Private Key).
- As a Minimum the Certificate Subject should be the hostname of the server, e.g. cn=hostname and have a Subject Alternative Name of DNS Name=Hostname.
- The issuing CA Certificate should either be either a Globally Trusted Root CA or in the Trusted Root CA Store.

From the "Home" - Global Options screen

M-Link Edge ×	+			-
\leftarrow \rightarrow \circlearrowright \blacktriangle Not secu	re https://localhost:5221/config/tlsConfig	☆	∕≐	Ē
••• M-Link Edge	Configuration Monitoring			
Find a setting	TLS Configuration			
Global options	① TLS configuration.			
Peer Controls (1)	Default TLS Identity			
? Links (0)	Edit Default public/private key pair used when other key pairs have not been configured.			
TLS Configuration	Minimum TLS level supported			
Logging Configuration	TLS Version 1.2 \diamond 🗸 Use default			
LDAP Configurations (0)	Sets the minimum TLS version supported.			
Stores >	Cipner Suites			
Access Tokens	Standard OpenSSL cipher suite string,			
	Ignore System Trust Anchors			
	Use default			

Figure 21: TLS Configuration Step 1

Click TLS Configuration.

M-Link Edge ×	+		-
→ ひ 🔺 Not secur	e https://localhost:5221/config/tisConfig 🖄	∱≡	面
M-Link Edge	Configuration		
	TLS Configuration		
Global options	① TLS configuration.		
Peer Controls (1)	Default TLS Identity		
9 Links (0)	Edit Default public/private key pair used when other key pairs have not been configured.		
TLS Configuration	Minimum TLS level supported		
Logging Configuration	TLS Version 1.2 \diamondsuit Use default		
LDAP Configurations (0)	Sets the minimum TLS version supported.		
Stores >	Cipher Suites		
Access Tokens	Standard OpenSSL cipher suite string.		
	Ignore System Trust Anchors		
	Use default		

Figure 22: TLS Configuration Step 2

Select "Edit" next to "Default TLS Identity".

Default TLS Identity Selection	×
Default TLS Identity	
Select V	
Default public/private key pair used when other key pairs have not been configured.	
Add ne	w Clear value
Confirm	Cancel

Figure 23: TLS Configuration Step 3

Click "Add new".

Upload File(s)		×
Identity or Certificate Chain Either a complete identity (private key and certificat Moi	Required	
No file selected	Choose a file	
Private Key The private key in PEM format, if a complete identity Moi	e	
No file selected	Choose a file	
Passphrase The passphrase with which the identity or private ke Mo	e	
	۲	
Key Chain Name Provide a name which identifies this Key Chain		
Upload		Cancel

Figure 24: TLS Configuration Step 4

Use the "Choose a file..." buttons to load the Certificate chain and Private Key, enter the Private Key Passphrase and Provide and "Name" of your choice for the "Identity".

Either a complete identity (private key and certificat Mo	Required	
cn_R19EDGE1_chain.pem	Choose a file	
Private Key The private key in PEM format, if a complete identity Mo	pre	
cn_R19EDGE1_key.pem	Choose a file	
Passphrase The passphrase with which the identity or private ke Mo	pre	
	۲	
Key Chain Name Provide a name which identifies this Key Chain		
M-Link Edge Evaluation		

Figure 25: TLS Configuration Step 5

Click "Upload".

V	
ured.	
Add new	Clear value
	ured.

Figure 26: TLS Configuration Step 6

Click	"Confirm"
CIICK	Commun.

M-Link Edge ×	+
$\leftrightarrow \rightarrow \circlearrowright$ \land Not secu	re https://localhost:5221/config/tlsConfig 🖄 対
••• M-Link Edge	Configuration
Q Find a setting	TLS Configuration
😚 Global options	TLS configuration.
🛎 Peer Controls (1) 🔹 🕨	Default TLS Identity
🔗 Links (0)	M-Link Edge Evaluation Edit
TLS Configuration	Minimum TLS level supported
Logging Configuration	TLS Version 1.2 \diamond 🕑 Use default
LDAP Configurations (0)	Sets the minimum TLS version supported.
Stores >	espires survey
Access Tokens	Standard OpenSSL cipher suite string.
	Ignore System Trust Anchors
Version: 19.4v6	Use default

Figure 27: TLS Configuration Step 7

Scroll down to the bottom of the screen.

M-Link Edge X	+ < 500			-	٥	\times
← → O ▲ Not secur	e <mark>– https://localhost</mark> :5221/config/tlsConfig	\$4	⊉	由		
••• M-Link Edge	Configuration Monitoring				8	
Q Find a setting	TLS Configuration					
🗙 Main Menu	Disregard any pre-installed trust anchor certificates. This is being used as the default in the following places:					
🛠 Global options	//Peer Controls/default/Ignore System Trust Anchors					
🛎 Peer Controls (1) 🔹 🕨	Default Trust Anchors					
🔗 Links (0)	+ Add Item Default trust anchors which can be used by all domains.					
TLS Configuration	Child Service TLS					
Logging Configuration >	Use default Controls whether TLS is used for Child Service connections.					
LDAP Configurations (0)	Child Service TLS Identity					
Stores >	HTTPS identity Edit					
Access Tokens	Public/Private Key Pair used for Child Service connections. More					
Version: 19.4v6	Submit					

Figure 28: TLS Configuration Step 8

Click "Submit".

M-Link Edge ×	+			-	٥
← → Ů ▲ Not sec	ink kdge <mark>ure https://localhost</mark> :5221/config/tlsConfig		Å 🖞	: @	8
••• M-Link Edge	Configuration	🖾 Monitoring			
Q Find a setting	TLS Configuration				
	Disregard any pre-installed trust anchor certificates. This is being used as the default in the following places:				
😚 Global options	/Peer Controls/default/Ignore System Trust Anchors				
Peer Controls (1)	Default Trust Anchors				
ኇ Links (0)	+ Add item Default trust anchors which can be used by all domains.				
TLS Configuration	Child Service TLS				
Logging Configuration		✓ Use default			
LDAP Configurations (0)	Controls whether TLS is used for Child Service connections.				
Stores	HTTPS Identity Edit				
Access Tokens	Public/Private Key Pair used for Child Service connections. More				
	Submit	Cancel			

Figure 29: TLS Configuration Step 9

Click "Global options", the following screen is displayed.



Figure 30: TLS Configuration Step 10

M-Link Edge ×	+		
\rightarrow O \triangle https://r	19edge1:5221/config/	×	7
•• M-Link Edge	Configuration 🔤 Monitoring		
Q Find a setting	Global Options		
😚 Global options	③ Server configuration		
🛎 Peer Controls (4) 🔹 🕨	Customise Ports		
𝔗 Links (2) →	Use default		
A TIC Configuration	Allow the customisation of listening ports for the various services.		
	Use HTTPS for Administration Interface		
Logging Configuration >	When enabled, the Administration Interface will be exposed over HTTPS. More		
LDAP Configurations (0)	This is being used as the default in the following places: • /Use Secure Cookie Flag		
A Stores ➤	/Use HTTPS for BOSH		
Access Tokens	Use Secure Cookie Flag		
	When enabled, the login cookie can only be sent over HTTPS connections. More		
	TLS Key Pair for Administration Interface		
	Edit		
Version 19-440	This is used when serving the Administration Interface over HTTPS.		

Figure 31: TLS Configuration Step 11

Click "Edit" on the "TLS Key Pair for Administrative HTTPS Interface".

TLS Key Pair for Administration Interface Selection		×
TLS Key Pair for Administration Interface		
HTTPS Identity	~	Use default
This is used when serving the Administration Interface over HTTPS.		
	Add new	Clear value
Confirm		Cancel



TLS Key Pair for Administration Interface Selection		
TLS Key Pair for Administration Interface		
HTTPS Identity		Use default
This is used when serving the Administration Interface over HTTPS.		
	Add new	Clear value
Confirm		Cancel

Figure 33: TLS Configuration Step 13

Select the "Dropdown".

TLS Key Pair for Administration Interface Selection	×
TLS Key Pair for Administration Interface	
HTTPS Identity	✓ Use default
HTTPS Identity	
M-Link Edge Evaluation	Clear value
Confirm	Cancel
Einen au TI & Conformation Standard	

Figure 34: TLS Configuration Step 14

Select the Identity you just loaded.

TLS Key Pair for Administrative HTTPS Interface Sele	ection ×
TLS Key Pair for Administrative HTTPS Interface	
M-Link Edge Evaluation	Vse default
This is used when serving the administrative interface over HTTPS.	
	Add new Clear value
Confirm	Cancel

Figure 35: TLS Configuration Step 15

Click "Confirm".

M-Link Edge ×	+			-	Ć
\leftrightarrow \rightarrow \circlearrowright \land https://r1	9edge1:5221/config/	於	酒	由	
••• M-Link Edge	Configuration Monitoring				
Q Find a setting	Global Options				
🗢 Main Menu	Customise Ports				
Global options	Use default Allow the customisation of listening ports for the various services.				
🛎 Peer Controls (4) 🔹 🔸	Use HTTPS for Administration Interface				
🔗 Links (2) >	Use default				
TLS Configuration	When enabled, the Administration Interface will be exposed over HTTPS. More This is being used as the default in the following places:				
Logging Configuration >	//Jse secure countering //Jse HTTPS for BOSH				
LDAP Configurations (0)	Use Secure Cookle Flag				
Stores >	Use default When enabled, the login cookie can only be sent over HTTPS connections. More				
Access Tokens	TLS Key Pair for Administration Interface				
	M-Link Edge Evaluation Edit				
	This is used when serving the Administration Interface over HTTPS.				
	This is being used as the default in the following places: • /Archiving Configuration/Archiving APLITIS Key Pair				
Version: 19.4v6	TTLS Key Pair for BOSH				

Figure 36: TLS Configuration Step 16

Scroll down to the bottom of the screen.

 A Not secure https://localhost:5221/config/ M-Link Edge Configuration Find a setting Global Options Main Menu Global options Enable security labelling configuration. Peer Controls (1) Use Statsd Links (0) Tis Configuration Application Title Override Logging Configuration Custom window/tab title for display in a browser, if not empty. More LoAP Configurations (0) Stores Access Tokens 	M-Link Edge ×	+	
Image: Stores	$\leftarrow \rightarrow \circlearrowright$ \land Not secu	re https://localhost:5221/config/	
Global Options Main Menu Global options Global options Bable security labeling configuration. Peer Controls (1) Use statsd Links (0) Insks (0) Export Statistics over the statsd protocol. TLS Configuration Application Title Override Logging Configuration Cuistom window/tab title for display in a browser, if not empty. More Loba Configurations (0) Stores Access Tokens Submit Cancel	••• M-Link Edge	Configuration	Monitoring
A Main Menu Global options Enable security labelling configuration. Peer Controls (1) Use Statsd Inks (0) Use Statsd Export Statistics over the statsd protocol. TLS Configuration Application Title Override Logging Configuration (0) Enable Icon-Topo Support Stores Access Tokens Submit 	λ Find a setting	Global Options	
Image: Global options Enable security labelling configuration. Peer Controls (1) Use Statsd Image: Global options Use Statsd Image: Global options Image: Global options Image: Global options Image: Global options <t< td=""><td></td><td></td><td>✓ Use default</td></t<>			✓ Use default
	Global options	Enable security labelling configuration.	-
Inks (0) TLS Configuration Application Title Override Logging Configuration ELDAP Configurations (0) Enable Icon-Topo Support Stores Access Tokens When enabled, M-Link will support configuration of its routing by Icon-Topo. More Submit Cancel	Peer Controls (1)	Use Statsd	
▲ TLS Configuration Application Title Override ▲ Logging Configuration > Custom window/tab title for display in a browser, if not empty. More ▲ Logres > Enable Icon-Topo Support ▲ Access Tokens When enabled, M-Link will support configuration of its routing by kon-Topo. More Submit Cancel	9 Links (0)	Export Statistics over the statsd protocol.	Use default
Logging Configuration Custom window/tab title for display in a browser, if not empty. More LDAP Configurations (0) Enable Icon-Topo Support Access Tokens Viben enabled, M-Link will support configuration of its routing by Icon-Topo. More Submit Cancel	TLS Configuration	Application Title Override	
ELDAP Configurations (0) Custom window/tab title for display in a browser, if not empty. More Custom window/tab title for display in a browser, if not empty. More Enable Icon-Topo Support Use default When enabled, M-Link will support configuration of its routing by Icon-Topo. More Submit Cancel	Logging Configuration >		
Stores Access Tokens Multicenter in the state of the stat	LDAP Configurations (0)	Custom window/tab title for display in a browser, if not empty. More	
Access Tokens When enabled, M-Link will support configuration of its routing by Icon-Topo. More. Submit Cancel	Stores >	Enable Icon-Topo Support	✓ Use default
Submit Cancel	Access Tokens	When enabled, M-Link will support configuration of its routing by Icon-To	opo. More
Version: 19.4v6		Submit	Cancel

Figure 37: TLS Configuration Step 17

Click "Submit", the following screen is displayed - this is normal.

S M-Link Edge X	+	G		5 ×	
← → C ▲ Not secure loca	lhost:5221		☆	. :	
●●● M-Link Edge	Global Options		(2) About	P rofile	
Loading					
		X Error Failed to fetch			

Figure 38: TLS Configuration Step 18

Now point your browser at https://hostname:5221 .

M-Link Edge x +					<u>-</u> 2	Ć
← → O A https://r19edge1:5221/config			1/4	浡	由	(
	•••	8				
	M-Link	dae				
	WELINK	age.				
	Username:	Required				
	user					
	Password:	Required				
		٥				
	Login					

Figure 39: TLS Configuration Step 19

Enter the "Admin" Username and Password you previously configured.

M-Link Edge × +							-	٥	×
← → Ů A https://r19edge1:5221/config					S 🕸	r∕≡	¢		
	•	••							
	M-Lin	k Edge							
	M-EIII	K Luge							
	-		14						
	Username:		Required						
	admin								
	Password:		Required						
		Ø	0						
	Le	gin							

Figure 40: TLS Configuration Step 20

Click "Login".



Figure 41: TLS Configuration Complete

Your TLS configuration is now complete and you can proceed to configuring other options.

Configuring a GCXP Link

A GCXP Link is typically used for connecting to Isode's M-Guard product but is a published standard so could be used by other vendors. M-Guard requires a TLS connection so M-Link Edge will need to import the M-Guard Certificate Chain (CA Certificate and Server Certificate) in PEM format before configuring the Link. These steps will be the same for any Link that requires TLS.



Figure 42: Adding M-Guard Certificate Chain in PEM format Step 1.

Click "Stores".

	M-Link Edge M-Link Edge	+					-	٥	×
÷	\rightarrow \circlearrowright \land https://r1	9edge1:5221/config/stores			Å.	浡	由		
•••	M-Link Edge		Configuration Monitoring					8	
٩	Find a setting	Stores							
*	Main Menu								
•	Stores 🗸	Certificate Chain Store \rightarrow	Key Pair Store →	SIO Clearance Catalog Store →					
	Certificate Chain Store								
		SIO Label Catalog Store →	SIO Policy Store →	Stanza Transformations Store →					
	Key Pair Store								
	SIO Clearance Catalog S								
:	SIO Label Catalog Store								
	SIO POlicy Store								
3	Stanza Transformations								
	Version: 19.4v6								

Figure 43: Adding M-Guard Certificate Chain in PEM format Step 2.

Click "Certificate Chain Store".

M-Link Edge x + ← → M-Link Edge https://r19edge1:5221/config/stores/%2Fapi%2Fstores%2Fcertificate_chains				\$ 全	- 6	•	×	
••• M-Link Edge		Configuration	Monitoring				8	~
Q Find a setting	Certificate Chain Store							
🗙 Main Menu								
📤 Stores 🗸 🗸	③ Stores certificate chains					Ado	l item	
Certificate Chain Store 🛛 🗸	There are no items to display.							
Varian: 19 4uf								
version: 19.4vb								

Figure 44: Adding M-Guard Certificate Chain in PEM format Step 3.

Click "Add item".

Upload File(s)		×
Certificate Chain The certificate chain in PEM format	Required	
No file selected	Choose a file	
Certificate Chain Name Provide a name which identifies this Certificate Chain		
Upload		Cancel

Figure 45: Adding M-Guard Certificate Chain in PEM format Step 4.

Click "Choose a file...", then select the PEM file containing the Certificate Chain from the File Explorer.

Upload File(s)	×
Certificate Chain The certificate chain in PEM format	Required
M-Guard-Chain.pem	Choose a file
Name Provide a name to identify the file	Required
M-Guard	
Upload	Cancel

Figure 46: Adding M-Guard Certificate Chain in PEM format Step 5.

Enter a "Friendly Name for the Certificate and Click "Upload".

□ M-Link Edge +							-	٥	×
$\leftrightarrow \rightarrow \circlearrowright$ \land https://r	19edge1:5221/config/stores/%2Fapi%2F	Fstores%2Fcertificate_ch	ains		\$4	浡	由		
••• M-Link Edge		Configuration	Monitoring					8	~
Q Find a setting	Certificate Chain Store								
🛠 Main Menu									
🚯 Stores 🗸 🗸	③ Stores certificate chains						Ade	d item	
Certificate Chain Store 🗸 🗸	Name 🗢				Upload Date	¢	A	ctions	
M-Guard	M-Guard				3/19/2025, 9:	42:58 A	M	Details	
Version: 19.4v6									

Figure 47: Adding M-Guard Certificate Chain in PEM format Step 6.

To check the details of the Certificate, Click "Details".

M-Link Edge ×	+	-	o ×
\leftarrow \rightarrow O \triangle https://r1	9edge1:5221/config/stores/%2Fapi%2Fstores%2Fcertificate_chains/ed562f5f-2dd6-4624-8349-31406ff20278 📩 📩	i⊂ @	
••• M-Link Edge	Configuration Monitoring		0 ~
Q Find a setting	M-Guard		
🛠 Main Menu			
 Stores 	M-Guard Delete		
Certificate Chain Store 🗸 🗸	Uploaded on 3/19/2025, 9:42:58 AM, from file M-Guard-Chain.pem.		
M-Guard	Properties Certificate Chain Length: 2 Root Subject Name: /O=XMPP/CN=SodiumCA Subject Name: /CN=xmpp.guard.net		
Version: 19.4v6			

Figure 48: Adding M-Guard Certificate Chain in PEM format Step 7.

You can optionally delete the Certificate here if it is wrong, we will now continue with the configuration of the GCXP Link so Click, "Main Menu".

M-Link Edge	+	
→ O A https:/	r 19edge1 :5221/config/ x	\$
• M-Link Edge	Configuration Monitoring	
λ Find a setting	Global Options	
🖀 Global options	Server configuration	
🚢 Peer Controls (1)	Customise Ports	
🔗 Links (0)	Allow the customisation of listening ports for the various services.	
TLS Configuration	Use HTTPS for Administration Interface	
Logging Configuration	Use default When enabled, the Administration Interface will be exposed over HTTPS. More	
LDAP Configurations (0)	This is being used as the default in the following places: /Use Secure Cookie Flag 	
Stores	/Use HTTPS for BOSH	
Access Tokens	Use Secure Cookie Flag Use default	
	When enabled, the login cookie can only be sent over HTTPS connections. More TLS Key Pair for Administration Interface	

Figure 49: Configuring the GCXP Link Step 1.

Click "Links", not the number in brackets indicates the number of links currently configured.

M-Link Edge X	+		-	٥	\times
\leftarrow \rightarrow \circlearrowright \land https://r	19edge1:5221/config/links 🌣	∱	伷		
••• M-Link Edge	Configuration Monitoring			8	~
Q Find a setting	Links			Add	
🛠 Main Menu					
😤 Global options	${igodot}$ Specialised federation mechanisms.				
😩 Peer Controls (1) 🔹 🕻	There are no items to display. Get started by adding one above.				
🔗 Links (0)					
TLS Configuration					
Logging Configuration					
LDAP Configurations (0)					
Stores >					
Access Tokens					
Version: 19.4v6					

Figure 50: Configuring the GCXP Link Step 2.

Click "Add...".

M-Link Edge ×	+	
\leftarrow \rightarrow O \triangle https://r	19edge1:5221/config/links/-?add=true	
••• M-Link Edge	Configuration	🛛 Monitoring
Q Find a setting	Add new item to Links	
🛠 Main Menu	① Link	
🔗 Links (0) 🗸 🗸	Link Name	Required
	Distinctive name for the link.	
	Enabled	
		🗹 Use default
	If set, use this Link for new outbound connections. More	
	Link Type	Required
	Please select an option \$	
	Link type.	
	Listening Address	Node Specific
	45 15	🗸 Use default
	IP address to listen on. More	
	Local Port	Required
Version: 19.4v6		

Figure 51: Configuring the GCXP Link Step 3.

Enter a "Friendly Name" for the "Link Name", select "GCXP" from the Drop Down for the "Link Type" and enter the Port that M-Link Edge will listen on.

M-Link Edge ×	+	
\leftarrow \rightarrow \circlearrowright \land https://r1	9edge1:5221/config/links/-?add=true	
••• M-Link Edge	Configuration	Monitoring
Q Find a setting	Add new item to Links	
🗢 Main Menu	① Link	
🔗 Links (0) 🗸 🗸	Link Name	Required
	EDGE to M-Guard	
	Distinctive name for the link.	
	Enabled	
	If set use this Link for new outbound connections. More	 Use default
	Link Type	Required
	GCXP (Guard Content Exchange Protocol)	
	Link type.	
	Listening Address	Node Specific
	#	🗸 Use default
	IP address to listen on. More	
	Local Port	Required
Version: 19.4v6	5280	

Figure 52: Configuring the GCXP Link Step 4.

Now scroll down.

M-Link Edge ×	+	
← → ひ 🔒 https://r1	9edge1:5221/config/links/-?add=true	
••• M-Link Edge	Configuration	Monitorir
Q Find a setting	Add new item to Links	
🛠 Main Menu	identities a link to use as a laliback il this link cannot be established.	
🔗 Links (0) 🗸 🗸	Remote Host	Required
	Host to which to connect.	
	Remote Port	Required
	Port to which to connect.	
	Send GCXP Responses	
	If set, M-Link will send GCXP responses for each stanza received, and will gene messages for stanzas that have been rejected. More	use default
	Include Full Stanza in Audit Logs	
		Use default
	If set, audit log messages generated for stanzas rejected by M-Guard will inclu stanza.	ide the full
	XEP-0198 Version	
Version: 19.4v6	Normal XEP-0198 (v1.6, using urn:xmpp:sm:3) 🕴 🗹	Use default

Figure 53: Configuring the GCXP Link Step 5.

M-Link Edge ×	+		-	٥	×
← → ひ A https://r1	19edge1:5221/config/links/-?add=true	岱	田		•••
••• M-Link Edge	Configuration Monitoring			8	× (
Q Find a setting	Add new item to Links				
🛠 Main Menu	IDENTITIES A IITIK LO USE AS A TAIIDACK II UTIS IITIK CATIFOL DE ESTADISTIEG.				-
🔗 Links (0) 🗸 🗸	Remote Host Required				
	Host to which to connect.				
	Remote Port Required Port to which to connect. Image: Connect to the c				
	Send GCXP Responses Use default If set, M-Link will send GCXP responses for each stanza received, and will generate audit log messages for stanzas that have been rejected. More				
	Include Full Stanza in Audit Logs Use default				
	If set, audit log messages generated for stanzas rejected by M-Guard will include the full stanza. XEP-0198 Version				
Version: 19.4v6	Normal XEP-0198 (v1.6, using urn:xmpp:sm:3) Use default				

Figure 53: Configuring the GCXP Link Step 5.

× + M-Link Edge o × \leftrightarrow \rightarrow O A https://r19edge1:5221/config/links/-?add=true ☆ 🏚 🗎 😩 ••• M-Link Edge Configuration 0 ~ Add new item to Links ☆ Main Menu Identifies a link to use as a failback if this link cannot b Remote Host Required 192.168.56.3 Host to which to co Remote Port Required 5290 Port to which to connect Send GCXP Responses 🔽 Use default If set, M-Link will send GCXP responses for each stanza received, and will generate audit log messages for stanzas that have been rejected. More... Include Full Stanza in Audit Logs 🔽 Use default If set, audit log messages generated for stanzas rejected by M-Guard will include the full stanza. XEP-0198 Version Normal XEP-0198 (v1.6, using urn:xmpp:sm:3) 🛊 🔽 Use default

Enter the "Remote Host" and "Remote Port" of the M-Guard Server you will be using and check the "Use TLS" box.

Figure 54: Configuring the GCXP Link Step 6.

Scroll down to configure the TLS.

M-Link Edge ×	+			-	0 ×
← → O ≜ https://r1	9edge1:5221/config/links/0		☆ 🎓	(
••• M-Link Edge	Configuration	Monitoring			8 ~
Q Find a setting	EDGE to M-Guard		Delete	Add and	ther
🛠 Main Menu	Sessions will be closed if no stanzas are sent or received for this number of seco	nds.			•
🔗 Links (2) 🗸 🗸	Use TLS				
EDGE to M-Guard	If enabled, and if a certificate is configured, this link will use and require TLS.	Jse default			
Edge to Other-Guard	TLS Identity				
	M-Link Edge Evaluation Edit Public/private key pair.				
	Pinned Link TLS Certificate				
	Pinned link certificate store identifier.				
	Require a Valid Certificate in TLS Session	Jse default			
	Ignore System Trust Anchors				
Version: 19.4v6	Disregard any pre-installed trust anchor certificates.	Jse default			Ţ

Figure 55: Configuring the GCXP Link Step 7.

As the Certificate we are using is a Certificate Chain including the Trust Anchor there is no need to add any Trust Anchors here. Click "Edit" on the "Pinned Link TLS Certificate.

Pinned Link TLS Certificate Selection		×
Pinned Link TLS Certificate		
Select	~	
M-Guard		
	Add new	Clear value
Confirm		Cancel

Figure 56: Configuring the GCXP Link Step 8.

Select the M-Guard Certificate you have loaded previously and Click, "Confirm".

M-Link Edge ×	+		
← → O A https://r1	9edge1:5221/config/links/-?add=true		
••• M-Link Edge	Configur	ation	Monitoring
Q Find a setting	Add new item to Links		
🗙 Main Menu	Public/private key pair.		
🔗 Links (0) 🗸 🗸	Pinned Link TLS Certificate		
	M-Guard	Edit	
	Pinned link certificate store identifier.		
	Require a Valid Certificate in TLS Session		
			 Use default
	Require the link peer to provide a valid certificate in its TLS sess	ion.	
	Ignore System Trust Anchors		
	Disregard any pre-installed trust anchor certificates.		Use default
	Link Trust Anchors		
	t Add tem		
	Trust anchors to be used by a specific link.		
	Add		Cancel
Version: 19.4v6			callee

Figure 57: Configuring the GCXP Link Step 9.

Click "Add".

M-Link Edge × + ð × ← → Ů 🔒 https://r19edge1:5221/config/links/0 ☆ 🏚 📵 🙁 … ••• M-Link Edge Configuration 0 ~ EDGE to M-Guard Delete... Add another... Public/private key pair. Pinned Link TLS Certificate M-Guard Edit EDGE to M-Guard Pinned link certificate store identifier Require a Valid Certificate in TLS Session 🔽 Use default Require the link peer to provide a valid certificate in its TLS session. Ignore System Trust Anchors 🔽 Use default Disregard any pre-installed trust anchor certificates Link Trust Anchors + Add item Trust anchors to be used by a specific link. Cancel

Figure 58: Configuring the GCXP Link Step 10.

We have now completed the GCXP Link configuration and are ready to create a "Peer Control" that will use it. Click "Main Menu".



Figure 59: Configuring the Peer Control Step 1.

Select "Peer Controls" note that the number in brackets is the number of Peer Controls currently configured.

M-Link Edge ×	+					- 0 ×
\leftarrow \rightarrow O \triangle https://r1	9edge1:5221/config/peerControls			3 74	∱ I	ê 😩 …
••• M-Link Edge		Configuration	Monitoring			θ~
Q Find a setting	Peer Controls					Add
🛠 Main Menu						
🛎 Peer Controls (1) 🔷 🗸	① Settings controlling details of feet	deration with other servers.				
default	default →					
Version: 19.4v6						

Figure 60: Configuring the Peer Control Step 2.

Click "Add…".

M-Link Edge ×	+	
\leftarrow \rightarrow O \triangle https://r1	9edge1:5221/config/peerControls/-?add=true	
••• M-Link Edge	Configuration	🖾 Monitorinį
Q Find a setting	Add new item to Peer Controls	
🗙 Main Menu		
🖶 Peer Controls (1) 🗸 🗸	Settings controlling details of federation with other server(s).
default	Domain	Required
	The peer's domain.	
	Matching Rule	_
	Domain \$	Use default
	Use Specialised Connection Mechanism	
		🗹 Use default
	Use specialised connection mechanisms such as 'Zero Handshake Server to or 'GCXP'.	o Server Protocol'
	Block	
		✓ Use default
	Disallow routing to or from this domain.	
Version: 19.4v6	Perform Dialback When Offered	

Figure 61: Configuring the Peer Control Step 3.

Complete the "Domain", "Matching Rule" and Check the "Use Specialised Connection Mechanism" Checkbox.

🔇 M-Link Edge 🛛 🗙	+	• - • ×
← → C 🔒 mle192-mt:5221/;	peerControls/-?add=true	야 ☆ 😩 :
●●● M-Link Edge	Add new item to Peer Controls Peer Controls > add	About Profile
Q Find a setting	③ Settings controlling details of federation with other server(s).	
🗙 Main Menu	Domain Required	
🐣 Peer Controls (1) 🛛 👻	black.net	
default	The peer's domain. Matching Rule Domain and Subdomains Use default Determines which domains will match against this Peer Control. More Use Specialised Connection Mechanism	
	Use default Use specialised connection mechanisms such as 'Zero Handshake Server to Server Protocol' or 'GC/P'. Link Required	
Version: 19.2v1	EDGE to M-Guard Reference to the link to use. Block	

Figure 62: Configuring the Peer Control Step 4.

The "Domain" should be the XMPP Domain of the Server you are connecting to.

The "Matching Rule" should be "Domain and Subdomain" if you want to include both the 1 to 1 Domain and Multi User Chat (MUC) Domain. You should then select the "Link" you have just created from the drop down and then scroll down.

M-Link Edge ×	+
\leftrightarrow \rightarrow \circlearrowright \Leftrightarrow https://r1	9edge1:5221/config/peerControls/-?add=true
••• M-Link Edge	Configuration
Q Find a setting	Add new item to Peer Controls
🛠 Main Menu	preferred Link
🛎 Peer Controls (1) 🛛 🗸	Block
default	Use default Disallow routing to or from this domain.
	Relay Zone This specifies the relay zones for controlling relaying. More
	Transformations Add item A list of Stanza Transformations applied for stanzas coming from or going to this peer.
	Drop Label-Only Message Stanzas Use default Drop message stanzas which only contain a label when transformations have been applied (regardless of whether the message has been modified by any transformation). More
Version: 19.4v6	Add

Figure 63: Configuring the Peer Control Step 5.

The M-Link Edge Server as it has no domain of it's own it typically relays between different XMPP Domains. In order to do this each link needs a unique "Relay Zone" defined. This is a free text name, so should be something to remind you of where you are relaying between.

M-Link Edge ×	+		-	٥
\leftarrow \rightarrow O A https://r1	9edge1:5221/config/peerControls/-?add=true	\$ \$	≡ @	
••• M-Link Edge	Configuration I Monitoring			e
Q Find a setting	Add new item to Peer Controls			
🛠 Main Menu	preferred Link			
😩 Peer Controls (1) 🛛 🗸	Block			
default	Use default Disallow routing to or from this domain.			
	Relay Zone R2B This specifies the relay zones for controlling relaying. More			
	Transformations			
	Drop Label-Only Message Stanzas Use default Drop message stanzas which only contain a label when transformations have been applied (regardless of whether the message has been modified by any transformation). More			
Version: 19.4v6	Add			

Figure 64: Configuring the Peer Control Step 6.

Enter your "Relay Zone" name and Click "Add".

M-Link Edge ×	+	
\leftarrow \rightarrow \circlearrowright \land https://r1	9edge1:5221/config/peerControls/1	
••• M-Link Edge	Configuration	
Q Find a setting	black.net	
🛠 Main Menu	preferred Link	
📇 Peer Controls (2) 🛛 🗸	Block	
default	Use d Disallow routing to or from this domain.	default
black.net	Relay Zone	
	R2B	
	This specifies the relay zones for controlling relaying. More	
	Transformations	
	+ Add item	
	A list of Stanza Transformations applied for stanzas coming from or going to this peer	er.
	Drop Label-Only Message Stanzas	
	Vse d	default
	Drop message stanzas which only contain a label when transformations have been ap (regardless of whether the message has been modified by any transformation). More	ipplied re
	Submit	ancel
Version: 19.4v6		

Figure 65: Configuring the Peer Control Step 7.

You have now completed the configuration of the GCXP Link and associated Peer Control. We will now proceed to create an XEP-0361 Zero Handshake Server to Server Protocol Link (X2X) and associated Peer Control.

M-Link Edge ×	+	- 0
\leftrightarrow \rightarrow \circlearrowright \land https://	/r19edge1:5221/config/peerControls/1	☆ ゆ 😩
••• M-Link Edge	Configuration Monitoring	θ
Q Find a setting	black.net	Delete Add another
🛠 Main Menu	preferred Link	
🚢 Peer Controls (2) 🗸 🗸	Block	
default	Use default Disallow routing to or from this domain.	
black.net	Relay Zone	
	R2B	
	This specifies the relay zones for controlling relaying. More	
	Transformations	
	+ Add item	
	A list of Stanza Transformations applied for stanzas coming from or going to this peer.	
	Drop Label-Only Message Stanzas	
	Use default	
	Drop message stanzas which only contain a label when transformations have been applied (regardless of whether the message has been modified by any transformation). More	
	Submit Cancel	

Figure 66: Configuring the Peer Control Complete.

Click "Main Menu".



Configuring a XEP-0361 Zero Handshake Server to Server Protocol Link

A XEP-0361 Zero Handshake Server to Server Protocol Link is typically used for connecting to some 3rd Party XMPP Guards. If you wish to use TLS for this Link follow similar steps at the start of the "Configuring a GCXP Link" section relating to adding a TLS Certificate Chain but using a "Friendly Name" relevant to this Link.

M-Link Edge ×	+					
→ O A https://	r19edge1:5221/config/			*	1	
• M-Link Edge	¢ Con	figuration	Monitoring			
Find a setting	Global Options					
Global options	M-Link Edge Evaluation This is used when serving the BOSH over HTTPS.	Edit				
Peer Controls (2)	Administrators inactivity logout period					
P Links (1)	180		🕑 Use default			
TLS Configuration	If an Administrator's login to the Administration Interface i minutes), the login will be invalidated (the Administrator w	is unused for th ill be logged ou	s period (in). More			
Logging Configuration	Customise Storage Paths					
LDAP Configurations (0)	Allow the customisation of paths used for data storage.		🕑 Use default			
Stores	Enable Advanced Connection Management					
Access Tokens			🕑 Use default			
	Allow changing advanced connection settings, such as time	ers and queue li	mits.			
	Remote Session Idle Timeout					
	3600		🗹 Use default			
Version: 19.4v6	Remote sessions will be closed if no stanzas are sent or re This is being used as the default in the following p	ceived for this n places:	umber of seconds.			

Figure 67: Configuring the XEP-0361 Zero Handshake Server to Server Protocol Link Step 1.

Click "Links".

M-Link Edge ×	+					-	٥	\times
\leftarrow \rightarrow \circlearrowright \land https://r1	9edge1:5221/config/links			☆	☆	Ē		
••• M-Link Edge	_	Configuration	Monitoring				8	~
Q Find a setting	Links					[Add.	
🛠 Main Menu								
🔗 Links (1) 🗸 🗸	③ Specialised federation mechanisms.							
EDGE to M-Guard	EDGE to M-Guard \rightarrow							
Version: 19.4v6								

Figure 68: Configuring the XEP-0361 Zero Handshake Server to Server Protocol Link Step 2.

Click "Add...".

M-Link Edge ×	+				- 0	
\leftarrow \rightarrow O \triangle https://r1	9edge1:5221/config/links/-?add=true		\$	7≜	ê 🔋	
••• M-Link Edge	Configuration	Monitoring	g			9
Q Find a setting	Add new item to Links					
🗢 Main Menu	() Link					
🔗 Links (1) 🗸 🗸 🗸	Link Name	Required				
EDGE to M-Guard	Distinctive name for the link.					
	Enabled If set, use this Link for new outbound connections. More	✓ Use default				
	Link Type Please select an option tota and	Required				
	Listening Address	Node Specific				
	iii	✓ Use default				
	Local Port	Required				
Version: 19.4v6						

Figure 69: Configuring the XEP-0361 Zero Handshake Server to Server Protocol Link Step 3.

The "Link Name" is a "Friendly Name" that you should use to identify the Link, the "Link Type" will be "XEP-0361 Zero Handshake Server to Server Protocol Link" selected from the drop down. The Port will be agreed between the two servers.

M-Link Edge ×	+					-
\rightarrow O \triangle https://r1	9edge1:5221/config/links/-?add=true		ф.	∕≐	1 1	合 团
M-Link Edge	Configuration	🖾 Monitorinį	8			
Find a setting	Add new item to Links					
Main Menu	(1) Link					
P Links (1) 🗸 🗸	Link Name	Required				
EDGE to M-Guard	Edge to Other-Guard					
	Distinctive name for the link.					
	Enabled	-				
	If set, use this Link for new outbound connections. More	Use default				
	Link Type	Required				
	X2X (XEP-0361 Zero Handshake Server to Server Protoc					
	Link type.					
	Listening Address	Node Specific				
	#	 Use default 				
	IP address to listen on. More					
	Local Port	Required				
Version: 19.4v6	6500					

Figure 70: Configuring the XEP-0361 Zero Handshake Server to Server Protocol Link Step 4.

Scroll Down.

M-Link Edge ×	+
\leftarrow \rightarrow O \triangle https://r	9edge1:5221/config/links/-?add=true
••• M-Link Edge	Configuration
Q Find a setting	Add new item to Links
🛠 Main Menu	If enabled, this link is only used for listening for connections from the remote host, not for connecting to it. More
🔗 Links (1) 🗸 🗸	Bidirectional Connections
EDGE to M-Guard	Use default
	Remote Host Required Host to which to connect.
	Remote Port Required Port to which to connect. Port to which to connect.
	Enable XEP-0198 Use default If set, this link will use XEP-0198 Stream Management requests and acknowledgements. XEP-0198 Version
Version: 19.4v6	Normal XEP-0198 (v1.6, using urn:xmpp:sm:3) Use default

Figure 71: Configuring the XEP-0361 Zero Handshake Server to Server Protocol Link Step 5.

Enter the "Remote Host" IP or Hostname and "Remote Port".

M-Link Edge X	+	
\leftarrow \rightarrow O \triangle https://r	19edge1:5221/config/links/-?add=true	
••• M-Link Edge	Configuration	Monitorin
Q Find a setting	Add new item to Links	
🛠 Main Menu	If enabled, this link is only used for listening for connections from the rem connecting to it. More	ote host, not for
🔗 Links (1) 🗸 🗸	Bidirectional Connections	
EDGE to M-Guard	f set, a single connection can send XML stanzas in both directions. More.	✓ Use default
	Remote Host	Required
	192.168.56.6	
	Host to which to connect.	
	Remote Port	Required
	6500	
	Port to which to connect.	
	Enable XEP-0198	
		Use default
	If set, this link will use XEP-0198 Stream Management requests and acknow	vledgements.
	Enable Compression	
Version: 19.4v6		🔽 Use default

Figure 72: Configuring the XEP-0361 Zero Handshake Server to Server Protocol Link Step 6.

Scroll down.

M-Link Edge ← → ○ △ http://doi.org/10.1000	x + ps:// 19edge1 :5221/config/links/-7add=true	☆ ☆	-	0	×
••• M-Link Edge	Configuration Monitoring			Θ	~
	Add new item to Links				
🛠 Main Menu	If set, this link will use XEP-0198 Stream Management requests and acknowledgements.				•
Links (1) EDGE to M-Guard	Enable Compression Set default if set, this link will use compression.				
	Session Idle Timeout 3600 Session will be closed if no stantas are sent or received for this number of seconds.				
	Use TLS Use default If enabled, and if a certificate is configured, this link will use and require TLS.				
	Whitespace Ping Time 60 Time between sending of whitespace pings on a connection that otherwise has sent no data, a value of 0 disables whitespace pings on this link. More				
	Add Cancel				

Figure 73: Configuring the XEP-0361 Zero Handshake Server to Server Protocol Link Step 7.

If you are using TLS Check the "Use TLS" Checkbox otherwise Click "Add" and skip to the end of the Link Configuration Screens. We will continue with "Use TLS" Checked.

M-Link Edge ×	+				-
\leftarrow \rightarrow O \triangle https://r	19edge1:5221/config/links/-?add=true	\$ 1	h	1 V	h @
••• M-Link Edge	Configuration		ſ		
Q Find a setting	Add new item to Links				
🗙 Main Menu	Use TLS				
🔗 Links (1) 🗸 🗸	Use default				
EDGE to M-Guard	If enabled, and if a certificate is configured, this link will use and require TLS.				
	TLS Identity				
	M-Link Edge Evaluation Edit				
	Public/private key pair.				
	Pinned Link TLS Certificate				
	Edit Pinned link certificate store identifier.				
	Require a Valid Certificate in TLS Session				
	V Use default				
	Require the link peer to provide a valid certificate in its TLS session.				
	Ignore System Trust Anchors				
	✓ Use default				
	Disregard any pre-installed trust anchor certificates.				

Figure 74: Configuring the XEP-0361 Zero Handshake Server to Server Protocol Link Step 8.

Unless you want to use a different TLS Identity for different Links and have configured other TLS Identities then leave the TLS Identity as it is. Click "Edit" on the "Pinned TLS Certificate.

Pinned Link TLS Certificate Selection	×
Pinned Link TLS Certificate	
Select 🗸 🗸 🗸	
M-Guard	
Other-Guard	Clear value
Confirm	Cancel

Figure 75: Configuring the XEP-0361 Zero Handshake Server to Server Protocol Link Step 9.

\leftarrow \rightarrow O \triangle https://rt	9edge1:5221/config/links/-?add=true	立	7≜ 1	£ 😩 …
••• M-Link Edge	Configuration			θ~
Q Find a setting	Add new item to Links			
🖈 Main Menu	In-Link cuge cranuation Edit Dublic/Industa ker pair			^
🔗 Links (1) 🗸 🗸	Pinned Link TLS Certificate			
EDGE to M-Guard	Other-Guard Edit Pinned link certificate store identifier.			
	Require a Valid Certificate in TLS Session Image: Comparison of the second se			
	Ignore System Trust Anchors Use default Disregard any pre-installed trust anchor certificates.			
	Link Trust Anchors Add Item Trust anchors to be used by a specific link.			
	Whitespace Ping Time 60 Time between sending of whitespace pings on a connection that otherwise has sent no data, a value of 0 disables whitespace pings on this link. More			
Version: 19.4v6	Add Cancel			

Select the TLS Certificate you have previously loaded for your remote server and Click "Confirm".

Figure 76: Configuring the XEP-0361 Zero Handshake Server to Server Protocol Link Step 10.

No "Link Trust Anchors" are required as the Trust Anchor is included in the Certificate Chain previously imported. Click "Add".

M-Link Edge ×	+	- 0
← → O ⊟ https://r	19edge1:5221/config/links/1	☆ 20 😨 ・
••• M-Link Edge	Configuration Monitoring	θ`
Q Find a setting	Edge to Other-Guard	Delete Add another
🗢 Main Menu	Pinned link certificate store identifier.	
🔗 Links (2) 🗸 🗸	Require a Valid Certificate in TLS Session	
EDGE to M-Guard	Require the link peer to provide a valid certificate in its TLS session.	
Edge to Other-Guard	Ignore System Trust Anchors	
	Use default Disregard any pre-installed trust anchor certificates.	
	Link Trust Anchors	
	+ Add item	
	Whitespace Ping Time	
	60 🕑 Use default	
	Time between sending of whitespace pings on a connection that otherwise has sent no data, a value of 0 disables whitespace pings on this link. More	
	Submit	

Figure 77: Configuring the XEP-0361 Zero Handshake Server to Server Protocol Link Complete.

The configuration of the XEP-0361 Zero Handshake Server to Server Protocol Link is now complete and we can proceed to add it to a Peer Control Configuration. Click "Main Menu".

M-Link Edge ×	+			
\leftrightarrow \rightarrow \circlearrowright \land https://r1	9edge1:5221/config/	\$¢ .	% ≡	1
•• M-Link Edge	Configuration I Monitoring			
Find a setting	Global Options			
: Main Menu	✓ Use default			
Global options	Generate an Audit Log entry for each inbound client stanza			
Peer Controls (2)	Use default			
9 Links (2)	Enable security labelling configuration.			
TLS Configuration	Use Statsd			
Logging Configuration	Export Statistics over the statsd protocol.			
LDAP Configurations (0)	Application Title Override			
Stores >	Custom window/tab title for display in a browser, if not empty. More			
Access Tokens	Enable Icon-Topo Support			
	Use default			
	When enabled, M-Link will support configuration of its routing by Icon-Topo. More			
Varsian: 19.446	Submit			
Version: 19.4Vo				

Figure 78: Configuring the Peer Control with an X2X Link Step 1.

Click "Peer Controls".

M-Link Edge X	+			
\leftrightarrow \rightarrow \circlearrowright \land https://	r19edge1:5221/config/peerControls			\$ ≴≡
••• M-Link Edge		Configuration 🖾 Monitori	rg	
Q Find a setting	Peer Controls			
🗙 Main Menu				
📇 Peer Controls (2) 🗸 🗸	 Settings controlling details of feder 	ration with other servers.		
default	default →	black.net →		
black.net				
Version: 19.4v6				
https://r19edge1:5221				

Figure 79: Configuring the Peer Control with an X2X Link Step 2.

Click "Add..."

M-Link Edge ×	+	
\leftrightarrow \rightarrow \circlearrowright \land https://r1	9edge1:5221/config/peerControls/-?add=true	
••• M-Link Edge	Configuration 🔤 Monitoria	g
Q Find a setting	Add new item to Peer Controls	
🕿 Main Menu		
🐣 Peer Controls (2) 🗸 🗸	③ Settings controlling details of federation with other server(s).	
default	Domain Required	
black.net	The peer's domain.	
	Matching Rule	
	Domain ¢ Use default Determines which domains will match against this Peer Control. More	
	Use Specialised Connection Mechanism	
	Use specialised connection mechanisms such as 'Zero Handshake Server to Server Protoco' or 'GCXP'.	
	Block Use default Diallow content to or from this domain	
Version: 19.4v6	Perform Dialback When Offered	

Figure 80: Configuring the Peer Control with an X2X Link Step 3.

Complete the "Domain", "Matching Rule" and Check the "Use Specialised Connection Mechanism" Checkbox.

M-Link Edge X	+	
\leftrightarrow \rightarrow \circlearrowright \land https://r	19edge1:5221/config/peerControls/-?add=true	
••• M-Link Edge	Configuration	🖾 Monitorin
Q Find a setting	Add new item to Peer Controls	
🕿 Main Menu		
🚢 Peer Controls (2) 🗸 🗸	③ Settings controlling details of federation with other serve	r(S).
default	Domain	Required
black.net	blue.net The peer's domain.	
	Matching Rule	
	Domain and Subdomains \$ Determines which domains will match against this Peer Control. More	Use default
	Use Specialised Connection Mechanism	
		Use default
	Use specialised connection mechanisms such as 'Zero Handshake Server or 'GCXP'.	to Server Protocol'
	Link	Required
	Edge to Other-Guard \$	
Varrian: 10 4u6	Reference to the link to use.	
version: 19.4v6	Inbound-Only Links	

Figure 81: Configuring the Peer Control with an X2X Link Step 4.

The "Domain" should be the XMPP Domain of the Server you are connecting to. The "Matching Rule" should be "Domain and Subdomain" if you want to include both the 1 to 1 Domain and Multi User Chat (MUC) Domain. You should then select the "Link" you have just created from the drop down and then scroll down.

Edge ×	+			-
→ ひ 合 https://	/ r19edge1 :5221/config/peerControls/-?add=true	荈	⊅≡	F
M-Link Edge	Configuration			
	Add new item to Peer Controls			
Main Menu	preferred Link			
Peer Controls (2)	Block			
default	Disallow routing to or from this domain.			
black.net	Relay Zone			
	This specifies the relay zones for controlling relaying. More			
	Transformations			
	+ Add item			
	A list of Stanza Transformations applied for stanzas coming from or going to this peer.			
	Drop Label-Only Message Stanzas			
	Use default			
	Drop message stanzas which only contain a label when transformations have been applied (regardless of whether the message has been modified by any transformation). More			
	Add			

Figure 82: Configuring the Peer Control with an X2X Link Step 5.

The M-Link Edge Server as it has no domain of it's own it typically relays between different XMPP Domains. In order to do this each link needs a unique "Relay Zone" defined. This is a free text name, so should be something to remind you of where you are relaying between.

M-Link Edge ×	+	
\leftarrow \rightarrow \circlearrowright \land https://r1	Dedge1:5221/config/peerControls/-?add=true	
••• M-Link Edge	Configuration	🖾 Monitorin
Q Find a setting	Add new item to Peer Controls	
🗙 Main Menu	preferred Link	
🛎 Peer Controls (2) 🗸 🗸	Block	
default	Disallow routing to or from this domain.	Use default
black.net	Relay Zone	
	R2Blue	
	This specifies the relay zones for controlling relaying. More	
	Transformations	
	+ Add item	
	A list of Stanza Transformations applied for stanzas coming from or going	to this peer.
	Drop Label-Only Message Stanzas	
		Use default
	Drop message stanzas which only contain a label when transformations h (regardless of whether the message has been modified by any transforma	ave been applied tion). More
	Add	Cancel
Version: 19.4v6		

Figure 83: Configuring the Peer Control with an X2X Link Step 6.

Enter your "Relay Zone" name and Click "Add".

$\begin{array}{c c} & & \\ \hline M-Link \ Edge \\ \hline \\ $	+ 19edge1:5221/config/peerControls/2	× *	- 0
••• M-Link Edge	Configuration Monitoring		e
Q Find a setting	blue.net	Delete	Add anothe
🗢 Main Menu	preferred Link		
🛎 Peer Controls (3) 🗸 🗸	Block		
default	Use default Disallow routing to or from this domain.		
black.net	Relay Zone		
blue.net	R2Blue This specifies the relay zones for controlling relaying. More		
	Transformations		
	+ Add item		
	A list of Stanza Transformations applied for stanzas coming from or going to this peer.		
	Drop Label-Only Message Stanzas U Use default Drop message stanzas which only contain a label when transformations have been applied (resardless of whether the message has been modified by any transformation). More		
	Submit		

Figure 84: Configuring the Peer Control with an X2X Link Complete.

You have now completed configuring the XEP-0361 Zero Handshake Server to Server Protocol Link (X2) Link and associated Peer Control. Click "Main Menu" and we will configure an XMPP Server to Server Peer Control.



Configuring a XMPP Server to Server Peer Control

A XMPP Server to Server Peer Control is typically used to connect the M-Link Edge Server to an XMPP User Server e.g. M-Link R17.0. . If you wish to use TLS for this Peer follow similar steps at the start of the "Configuring a GCXP Link" section relating to adding a TLS Certificate Chain but using a "Friendly Name" relevant to this Link.

M-Link Edge ×	+		
\leftarrow \rightarrow O \triangle https://r	19edge1:5221/config/ 🖄	卢	,
••• M-Link Edge	Configuration 🔤 Monitoring		
Q Find a setting	Global Options		
希 Global options	M-Link Loge Evaluation Edit This is used when serving the BOSH over HTTPS.		
🛎 Peer Controls (3) 🔹 🔸	Administrators inactivity logout period		
🔗 Links (2)	180 🗹 Use default		
TLS Configuration	If an Administrator's login to the Administration Interface is unused for this period (in minutes), the login will be invalidated (the Administrator will be logged out). More		
Logging Configuration >	Customise Storage Paths		
LDAP Configurations (0)	Use default		
Stores	Allow the customs autor of pairs used for data softage.		
	Use default		
Access Tokens	Allow changing advanced connection settings, such as timers and queue limits.		
	Remote Session Idle Timeout		
	3600 🗹 Use default		
Version: 19.4v6	Remote sessions will be closed if no stanzas are sent or received for this number of seconds. This is being used as the default in the following places: a linker/EPGE for M_closed/Generico Hit Immourt		

Figure 85: Configuring the XMPP Server to Server Peer Control Step 1.

Click "Peer Controls"

M-Link Edge ×	+				- 8 ×
← → Ů 🔒 https://r1	☆ 🎓	@			
••• M-Link Edge		Configuration 🛛 Mon	itoring		0 ~
Q Find a setting	Peer Controls				Add
🛠 Main Menu					
🐣 Peer Controls (3) 🛛 🗸	③ Settings controlling details of feder	ation with other servers.			
default	default →	black.net →	blue.net →		
black.net					
blue.net					

Figure 86: Configuring the XMPP Server to Server Peer Control Step 2.

Click "Add..."

M-Link Edge ×	+	
\leftrightarrow \rightarrow \circlearrowright \land https://r	19edge1:5221/config/peerControls/-?add=true	萍
••• M-Link Edge	Configuration	
Q Find a setting	Add new item to Peer Controls	
🗙 Main Menu		
🐣 Peer Controls (3) 🔷 🗸	① Settings controlling details of federation with other server(s).	
default	Domain Required	
black.net	The peer's domain.	
blue.net	Matching Rule	
	Domain 💠 🗹 Use default	
	Determines which domains will match against this Peer Control. More	
	Use Specialised Connection Mechanism	
	Use default	
	Use specialised connection mechanisms such as 'Zero Handshake Server to Server Protocol' or 'GCXP'.	
	Block	
	Use default	
	Disallow routing to or from this domain.	
Version: 19.4v6	Perform Dialback When Offered	

Figure 87: Configuring the XMPP Server to Server Peer Control Step 3.

Complete the "Domain" and "Matching Rule".

M-Link Edge ×	+		
\rightarrow O \triangle https://r	19edge1:5221/config/peerControls/-?add=true		×
•• M-Link Edge	Configuration	🖾 Monitorin	
Find a setting	Add new item to Peer Controls		
Main Menu			
🖞 Peer Controls (3) 🛛 🗸 🗸	③ Settings controlling details of federation with other serve	r(s).	
default	Domain	Required	
	red.net		
black.net	The peer's domain.		
blue.net	Matching Rule		
	Domain and Subdomains \$	Use default	
	Determines which domains will match against this Peer Control. More		
	Use Specialised Connection Mechanism		
		🗸 Use default	
	Use specialised connection mechanisms such as 'Zero Handshake Server or 'GCXP'.	r to Server Protocol'	
	Block		
		🗸 Use default	
	Disallow routing to or from this domain.		
Version: 19.4v6 ttps://r19edge1:5221/config/	Perform Dialback When Offered		

Figure 88: Configuring the XMPP Server to Server Peer Control Step 4.

The "Domain" should be the XMPP Domain of the Server you are connecting to. The "Matching Rule" should be "Domain and Subdomain" if you want to include both the 1 to 1 Domain and Multi User Chat (MUC) Domain. Scroll down.

M-Link Edge ×	+	
← → ひ 🔒 https://r1	9edge1:5221/config/peerControls/-?add=true	
••• M-Link Edge	Configuration	Monitoring
Q Find a setting	Add new item to Peer Controls	
Main Menu		🗖 Lieo default
🛎 Peer Controls (3) 🛛 🗸	Control the use of TLS. More	ose default
default	Override DNS	
black.net		 Use default
blue net	Use explicitly configured hostname or IP address and port values.	
blue.net	Relay Zone	
	This specifies the relay zones for controlling relaying. More	
	TLS Identity	
	Edit	
	Public/Private Key Pair.	
	Pinned Peer TLS Certificate	
	Edit	
	Pinned peer certificate store identifier.	
Version: 19.4v6	Openfire Compatibility	

Figure 89: Configuring the XMPP Server to Server Peer Control Step 5.

There are various TLS Options from "Do not use TLS" to "Require Authenticated TLS", choose the option that best suits you. In this guide we will use the default "Require TLS". If the Remote XMPP Server does not have any DNS XMPP SRV Records then you can manually configure this using the "Override DNS" Checkbox and we will do this in this example.

M-Link Edge ×	+	
••• M-Link Edge	Jedge1:5221/config/peerControls/-?add=true	🖾 Monitorin
O find a setting		_
C Hind a setting	Add new item to Peer Controls	
🗙 Main Menu	Require TLS \$	🗹 Use default
🛎 Peer Controls (3) 🛛 👻	Control the use of TLS. More	
default	Override DNS	
black.net		Use default
blue.net	Use explicitly configured hostname or IP address and port values.	
	Peer Connections	
	+ Add item	performing normal
	DNS lookups to find the service.	performing normal
	Relay Zone	
	This specifies the relay zones for controlling relaying. More	
	TLS Identity	
	Edit	
Version: 19.4v6	Public/Private Key Pair.	

Figure 90: Configuring the XMPP Server to Server Peer Control Step 6.

Click "+ Add item" on the Peer Connections.

$\begin{array}{c c} & & \\ & & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $	+ 9edge1:5221/config/peerControls/-?add=true	文 14	- 6 ×
••• M-Link Edge	Configuration 🗐 Monitoring		0 ~
Q Find a setting	Add new item to Peer Controls		
🗙 Main Menu	Override DNS		-
🙁 Peer Controls (3) 🛛 🗸	Use default Use explicitly configured hostname or IP address and port values.		
default	Peer Connections		
black.net	Connect Host Required ×		
blue.net	Instead of performing normal DNS lookups to find the service for this peer, connect directly to the provided host. More		
	Connect Port 5269 Use default Specifies the remote port to which to connect. A list of hostnames/port pairs which will be used for this Peer, instead of performing normal DNS lookups to find the service.		
Version: 19.4v6	Relay Zone		

Figure 91: Configuring the XMPP Server to Server Peer Control Step 7.

Enter the IP Address of the Remote XMPP Server and Change the Port if it is not default.

M-Link Edge ×	+		- 0	×
\leftrightarrow \rightarrow O \triangle https://r1	9edge1:5221/config/peerControls/-?add=true	\$ r⊈ @		
••• M-Link Edge	Configuration		e) ~
Q Find a setting	Add new item to Peer Controls			
🗢 Main Menu	Override DNS			^
🛎 Peer Controls (3) 🛛 👻	Use default			
default	Use explicitly configured nostriame or IP address and port values. Peer Connections			
black.net	Connect Host Required ×			
blue.net	192.168.56.7 Instead of performing normal DNS lookups to find the service for this peer, connect directly to the provided host. More			
	Connect Port			
	5269 Use default Specifies the remote port to which to connect.			
	+ Add item			
	A list of hostnames/port pairs which will be used for this Peer, instead of performing normal DNS lookups to find the service.			
Version: 19.4v6	Relay Zone			

Figure 92: Configuring the XMPP Server to Server Peer Control Step 8.

If there are Multiple XMPP Servers supporting this domain e.g. in a M-Link User Server Cluster then repeat the previous two steps. Otherwise Scroll Down.

← → O A https://r1	+ 9edge1:5221/config/peerControls/-?add=true	Å.	∕≘	-	
••• M-Link Edge	Configuration Monitoring				
Q Find a setting	Add new item to Peer Controls				
🛠 Main Menu	Relay Zone				
🚢 Peer Controls (3) 🛛 🗸 🗸					
default	TLS Identity				
black.net	Edit				
blue.net	Public/Private Key Pair.				
	Pinned Peer TLS Certificate				
	Pinned peer certificate store identifier.				
	Openfire Compatibility				
	Use default Work around for seners that convot their stream headers More				
	Ignore System Trust Anchors				
	Use default				
Version: 19.4v6	Disregard any pre-installed trust anchor certificates.				

Figure 93: Configuring the XMPP Server to Server Peer Control Step 9.

The M-Link Edge Server as it has no domain of it's own it typically relays between different XMPP Domains. In order to do this each link needs a unique "Relay Zone" defined. This is a free text name, so should be something to remind you of where you are relaying between. As we are using TLS we will need to configure the "TLS Identity" for the Link and also the "Pinned Peer TLS Certificate" using the "Edit" Buttons.

M-Link Edge ×	+		
\leftrightarrow \rightarrow \circlearrowright \land https://r	19edge1:5221/config/peerControls/-?add=true		
••• M-Link Edge	Configura	ation	🖾 Monitorin
Q Find a setting	Add new item to Peer Controls		
🗢 Main Menu	Relay Zone		
🛎 Peer Controls (3) 🗸 🗸	B2R		
default	This specifies the relay zones for controlling relaying. More		
	TLS Identity		
black.net	M-Link Edge Evaluation	Edit	
blue.net	Public/Private Key Pair.		
	Pinned Peer TLS Certificate		
	red.net	Edit	
	Pinned peer certificate store identifier.		
	Openfire Compatibility		
			 Use default
	Work around for servers that corrupt their stream headers. Mo	re	
	Ignore System Trust Anchors		
			🗸 Use default
Version: 19.4v6	Disregard any pre-installed trust anchor certificates.		
	Peer Trust Anchors		

Figure 94: Configuring the XMPP Server to Server Peer Control Step 10.

The "TLS Identity and" "Pinned Peer TLS Certificate" will be selected from a dropdown of previously configured Identities/Certificates.

Scroll down.

🗅 M-Link Edge 🛛 🗙	+	
\leftrightarrow \rightarrow O \oplus https://r1	9edge1:5221/config/peerControls/-?add=true	
••• M-Link Edge	Configuration Monitorin	
Q Find a setting	Add new item to Peer Controls	
🗢 Main Menu		
🚢 Peer Controls (3) 🛛 🗸	Ignore System Trust Anchors Use default	
default	Disregard any pre-installed trust anchor certificates.	
black.net	Peer Trust Anchors	
blue.net	+ Add item	
	Trust anchors to be used by a specific peer control.	
	Transformations	
	+ Add item	
	A list of Stanza Transformations applied for stanzas coming from or going to this peer.	
	Urop Label-Uniy Message stanzas	
	Drop message stanzas which only contain a label when transformations have been applied (regardless of whether the message has been modified by any transformation). More	
Version: 19.4v6	Cancel	

Figure 95: Configuring the XMPP Server to Server Peer Control Step 11.

There are no "Peer Trust Anchors" to configure as they are included in the Certificate Chain previously loaded.

Click "Add".

M-Link Edge	< +	
→ O 🗄 https:/	/ r19edge1 :5221/config/peerControls/3	Ŕ
•• M-Link Edge	Configuration 🗐 Monitoring	
$oldsymbol{\lambda}$ Find a setting	red.net	Delete.
Main Menu		
Peer Controls (4)	Ignore System Trust Anchors	
default	Use default Disregard any pre-installed trust anchor certificates.	
black pot	Peer Trust Anchors	
Diack.net	the Add Item	
blue.net	Trust anchors to be used by a specific peer control.	
red.net	Transformations	
	+ Add item	
	A list of Stanza Transformations applied for stanzas coming from or going to this peer.	
	Drop Label-Only Message Stanzas	
	Use default	
	Drop message stanzas which only contain a label when transformations have been applied (regardless of whether the message has been modified by any transformation). More	
	Submit Cancel	

Figure 96: Configuring the XMPP Server to Server Peer Control Complete.

You have now completed configuring the XMPP Server to Server Peer Control.

You have also reached the end of this Guide. Further Advanced Configuration Options can be found in the M-Link R19.4V6 User Manual or by contacting support@isode.com .

Other Evaluations

This guide is one of 4 relating to Isode's XMPP Messaging Products, the other guides are:

- Setting up an XMPP System for 1:1 and Multi-User Chat
- Connecting XMPP and IRC Chat Services
- XMPP for Constrained Network Environments

Information on all of these evaluations can be found at <u>www.isode.com/evaluate/evaluate-xmpp.html</u>. For messaging evaluations outside the scope of these guides, please contact us.

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