Isode

M-Link User Server R19.4 Evaluation Guide

Using Isode's M-Link XMPP Server and Swift XMPP Client to set up an instant messaging system suitable for 1:1 and Multi-User chat.

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Introduction

This guide details the process for creating an instant messaging and multi-user chat system using Isode's M-Link User Server and Swift XMPP Client. The M-Link User Server is one of a family of XMPP products which comprises:

- M-Link User Server (XMPP Server)
- M-Link Edge (XMPP Boundary Guard)
- M-Link IRC Gateway (XMPP/IRC Gateway)
- M-Link Mobile Unit Gateway (XMPP Messaging for low-bandwidth and/or highlatency networks)
- Swift (multi-platform XMPP client)

M-Link products are widely deployed in the Government, Military, and Intelligence markets.

Use of TLS: Due to UK Export Controls we are unable to provide Evaluation Licenses to certain Geographic regions that would allow the use of TLS so this guide will not configure any TLS. Should you wish to use TLS please contact your Account Manager and if you are located in an approved region we can provide a license (MAC Address of Server required) and additional instructions for configuring TLS.

Objectives

By the end of this guide, you will have:

- 1. Created an XMPP server for 1:1 chat using either Isode's M-Vault Directory Server or Microsoft's Active Directory to hold user information. With or without TLS.
- 2. Set up a multi-user chat domain for the XMPP server and created a permanent multiuser chat (MUC) room.

The diagram which follows shows the main elements of the system.



For the purposes of this evaluation, we have assumed this is a "clean" installation of M-Link User Server on to a physical or virtual machine. If you have previously installed an M-Link product on the hardware or VM you are using for this evaluation, please make sure you have completely uninstalled that version before proceeding.

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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 *isode.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 *https://www.isode.com/support/platform-support/* 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 Harrier web client. Internet Explorer is not supported.

External Dependencies

You will need a Chrome Browser installed on the Server and set as the default browser.

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 https://www.isode.com/evaluations/.

Product Activation Key

M-Link User Server R19.4 requires a valid Product Activation Key from Isode before it will run correctly. Keys are issued by Isode Customer Services. You will be shown in this guide how to copy and send the Product Activation Key request to isode.support@isode.com.

Installing M-Link User Server R19.4

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

💽 Isode M-Link 19.4v6 Setup	-	<
Ð	Welcome to the Isode M-Link 19.4v6 Setup Wizard	
	The Setup Wizard will install Isode M-Link 19.4v6 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.	
	Back Next Cancel	

Click "Next"

.

🔁 Isode M-Link 19.4v6 Setup -	_		×
Destination Folder Click Next to install to the default folder or click Change to choose another.			\mathbf{F}
Install Isode M-Link 19.4v6 to:			
C:\Program Files\Isode M-Link\ Change			
Back Next		Cancel	

Check the checkbox to accept the terms of the license and 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	lick Back to reviev I.	v or change any o	of your ir	nstallation	
	Back	Install		Canc	el

Click "Install"



Click "Finish" and the following Browser window will open:

Privacy error	× +	0	_	٥	×
- > C A Note	acure localhost:5221		4		:
	A				
	Your connection is not private				
	Attackers might be trying to steal your information from localhost (for example,				
	passwords, messages or credit cards). Learn more				
	NET::ERR_CERT_AUTHORITY_INVALID				
	Q To get Chrome's highest level of security, <u>turn on enhanced protection</u>				
	Advanced	c to salety			

Click "Advanced"



Click "Proceed to localhost (unsafe)"

M-Link X	+	~	-		×
← → C ▲ Not secure http	e;//localhost:5221	È	☆		:
●●● M-Link	Global Options			() Abo	ut
A Global options	Login Required				
	Administrator login (letters, numbers and punctuation other than @ and / are allowed)				
	Password Required Administrator password (no character restrictions) Image: Comparison of the second secon				
	Submit				

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

M-Link X	+		\sim	-	0]	×
← → C ▲ Not secure http	e;//localhost:5221		È	☆			:
●●● M-Link	Global Options					() About	t
🕿 Main Menu							
A Global options	Inese Initial administrator credentials will be used to log in to the	ie admin					
	Login	Required					
	Admin						
	Administrator login (letters, numbers and punctuation other than @ and / are a	lowed)					
	Password	Required					
	Administrator password (no character restrictions)						
	Submit	Cancel					

Click "Submit"

S M-Link X +			~	_]
← → C ▲ Not secure https://localhost	5221/login?redirect=%2F		Ê	☆	
	•				
	M-L	link			
	Username:	Required			
	Admin				
	Password:	Required			
	Lo	gin			

Enter the Administrator Login Name and Password you created previously. Click "Login"

At the Product Activation screen click "Request Activation Key"



Enter a reference for your server, then click "Generate Activation Request"

S M-Link	× +	V	_	×
← → C ▲ Not secure	h ttps ://localhost:5221	É	☆	:
	Product Activation ×			
	Please provide a reference identifying this server, which will be displayed as part of the product activation information.	1		
	Reference:			
	Evaluation Guide			
	Generate Activation Request Back			

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



Click "Back"



When you receive the "Product Activation Key" from Isode Support, you should then Click "Enter Activation Key".





Paste the "Product Activation Key" in the space provided. Then click "Activate"

The following screen should appear. Your server is now ready for further configuration:



TLS Configuration (Optional)

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.

••• M-Link User Serve	r	Configuration	Monitoring	4 Administration
🗢 Main Menu	TLS Configuration	1		
希 Global options				
IM Domains (0)	TES configuration.			
🝨 Pubsub Domains (0)	Default TLS Identity Default public/private key p	pair used when other key pairs .	More	
🔩 MUC Domains (0)			Edit	
🐣 Peer Controls (1)	Disable TLS Version 1			
TLS Configuration			🗸 Use d	default
Logging Configuration	Disable use of TLS version 1.			
LDAP Configurations (0)	Cipner suites			
Stores	Standard OpenSSL cipher su	uite string.		
-	Override Default DH Pa	rameters		
Version: 19.4a0-8ae8e147e			🔽 Use d	default

From the "Home" - Global Options screen Click "TLS Configuration"

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

••• M-Link User Serve	r	Configuration	Monitoring	2 Administration
🛠 Main Menu	TLS Configuration	I		
👚 Global options	(1) TLS configuration			
IM Domains (0)				
🗪 Pubsub Domains (0)	Default TLS Identity Default public/private key p	oair used when other key pairs	More	
NUC Domains (0)			Edit	
🐣 Peer Controls (1) 🔹 🕨	Disable TLS Version 1			
TLS Configuration			🗸 Use de	fault
Logging Configuration	Disable use of TLS version 1.			
LDAP Configurations (0)	Cipher Suites			
Stores	Standard OpenSSL cipher su	ite string.		
	Override Default DH Pa	rameters		
Version: 19.4a0-8ae8e147e			🗸 Use de	fault

Click "Add new".

Default TLS Identity Selection	×
Default TLS Identity	
Select	· ~
Default public/private key pair used when oth	er key pairs have not been configured.
	Add new Clear value
Confirm	Cancel

Upload File(s)			;	×
Certificate Chain The certificate chain in PEM format		Required		
No file selected	Choose	e a file		
Private Key The private key in PEM format		Required		
No file selected	Choose	e a file		
Passphrase The passphrase with which the private key has been encr More				
		۲		
Name Provide a name to identify the file		Required		
Upload			Cance	

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".

Upload File(s)			×
Identity or Certificate Chain Either a complete identity (private key and certificat Mor	re	Required	
ml-141-chain.pem	Choose	a file	
Private Key The private key in PEM format, if a complete identity More	re		
ml-141-mt.pem	Choose	a file	
Passphrase The passphrase with which the identity or private ke Mo	re		
		0	
Key Chain Name Provide a name which identifies this Key Chain			
ml-141-chain			
Upload			Cancel

Click "Upload". Then click "Confirm

```
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```

S M-Link User Server	+
\leftrightarrow \rightarrow C \blacktriangle Not secure htt	ps: //localhost:5221/config/tlsConfig
••• M-Link User Serv	er 🔶 Configuration 🔄 Monitoring 🎎 A
🛠 Main Menu	TLS Configuration
Global options	① TLS configuration.
 Pubsub Domains (0) 	Default TLS Identity Default public/private key pair used when other key pairs More
🔍 MUC Domains (0)	M-Link 19.4 Eval
🖶 Peer Controls (1) 💦	Disable TLS Version 1
TLS Configuration	Use default
Logging Configuration >	Cipher Suites
LDAP Configurations (0)	
Stores >	Standard OpenSSL cipher suite string.
	Override Default DH Parameters

Scroll down to the bottom of the screen.

S M-Link Edge X	+ 0	-	٥	×
← → C ▲ Not secure loca	lhost:5221/tlsConfig	☆		:
●●● M-Link Edge	TLS Configuration	About	Profile	ŀ
Q Find a setting	Cipher Suites			•
🛠 Main Menu	Standard OpenSSL cipher suite string.			
A Global options	Override Default DH Parameters			
🐣 Peer Controls (1)	Use default DH Parameters are used during TLS. More			
🔗 Links (0)	Ignore System Trust Anchors			
TLS Configuration	Use default			
Logging Configuration	Disregard any pre-installed trust anchor certificates. Default Trust Anchors			
• Stores •	+ Add item			
Sessions	Default trust anchors which can be used by all domains.			
	Submit			
Version: 19.2v1				

Click "Submit"



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

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

S M-Link Edge X	+ 0	- 0 X
← → C ▲ Not secure loca	Ihost:5221	☆ 🔒 :
●●● M-Link Edge	Global Options	About Profile
Q Find a setting	③ Server configuration	*
ᄎ Main Menu	Customise Ports	
A Global options	Use default	
Peer Controls (1)	Use HTTPS	
🔗 Links (0)	Use default	
TLS Configuration	When enabled, the administrative interface will be exposed over HTTPS. More	
Logging Configuration	HTTPS Identity Edit	
Stores	This is used when serving the administrative interface over HTTPS.	
Sessions	Administrators inactivity logout period	
	180 Vise default	
	If an Administrator's login to the web interface is unused for this period (in minutes), the login will be invalidated (the Administrator will be logged out). More	
Version: 19.2v1	Customise Storage Paths	•

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S Key Pair for Administrative HTTPS Interface		
HTTPS Identity	~	Use default
is is used when serving the administrative interface over H	ITTPS.	
	Add new	Clear value

Select the "Dropdown".

S M-Link User Server	× +		~	- č) ×
\leftarrow \rightarrow C \blacktriangle Not secure	e https://localhost:5221/config/	2		2 U	pdate ;
••• M-Link User Server	Configuration 🔤 Monitoring 🏥 Administration				8 ~
🎗 Main Menu	Global Options				
Global options	This is being used as the default in the following places: • /Use Secure Cookie Flag				^
IM Domains (0)	TLS Key Pair for Administrative HTTPS Interface Selection ×				
🗣 Pubsub Domains (0)	TLS Key Pair for Administrative HTTPS Interface				
🔩 MUC Domains (0)	M-Link 19.4 Eval Use default	:			
🐸 Peer Controls (1)	Add new Clear value				
TLS Configuration	Confirm				
Logging Configuration	Administrators inactivity logout period				
LDAP Configurations (0)	180 Subscription of the web interface is unused for this period for minutes), the login				
Version: 19.4a0-8ae8e147e	will be invalidated (the Administrator will be logged out). More				
📲 🔎 🖽		9 0 5	2 ⊲⊗	11:16 13/01/202	3

Select the Identity you just loaded.

S M-Link User Server × -	÷				\sim	-	٥	\times
$\epsilon \rightarrow C$ A Not secure https://	/localhost:5221/config/			È	☆ [Update	:
••• M-Link User Server	Configuration	Monitoring	🎎 Administrati	ion			8	~
🌣 Main Menu	Global Options							
🔏 Global options	This is being used as the /Use Secure Cookie F	e default in the following pl Elag	aces:					^
IM Domains (0) TLS Key	Pair for Administrative	e HTTPS Interface Select	tion	×				
Pubsub Domains (0) TLS Key Pa	air for Administrative HTT	PS Interface						
MUC Domains (0) M-Link 1	9.4 Eval	ve interface over HTTPS.	~	Use default				
📽 Peer Controls (1)			Add new	Clear value				
TLS Configuration Confirm				Cancel				
Logging Configuration	Administrators inactivi	ty logout period						
LDAP Configurations (0)	180			Use default				
Version: 19.4a0-8ae8e147e	If an Administrator's login to will be invalidated (the Adm	o the web interface is unused fo inistrator will be logged out). M	r this period (in mir ore	nutes), the login				
E 2 H 🤅 🗎	<u> </u>				📼 🌄 ଏ	11: 13/01,	16 /2023	1

Click "Confirm".

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

S M-Link	× +				\sim	-	;	×
← → C ▲ Not secure	https://localhost:5221/login?redirect=	=%2F			Ê	☆	-	:
		•••						
		M-Link						
	Username:		Required					
	Admin							
	Password:		Required					
		Login						



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

Connecting to LDAP (Active Directory)

Click "LDAP Configurations" .



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Click "Add".

••• M-Link User Server	Configuration	Monitoring	Θ ~	
LDAP Configurations			A	dd
① Configuration for LDAP user and group lookup				
There are no items to display. Get started by adding one above.				

	••• M-Link User Server	🌣 Configuratio	n 🛛 Monitoring
🕿 Main Menu	Add new item to LDAP Configurations		
ELDAP Configurations (0)	③ Settings controlling LDAP user and group lookup.		
	Configuration Name A descriptive name given to this configuration	Required	
	LDAP URI	Required	
	Use TLS Require TLS Control the use of TLS. More	✔ Use default	
	LDAP Authentication Identity The identity used for authentication to the LDAP directory. More		
	LDAP Authorization Identity The identity used for authorization by the LDAP directory, if different from Identity.	Use default	
	LDAP Password]	

Name your LDAP under "Configuration Name" Enter your LDAP URI address Enter your LDAP Authentication Identity Enter your LDAP Authorization Identity Enter the LDAP Password:

••• M-Link	Configuration	Monitoring 🎒 Multi-User Chat
Q Find a setting	Add new item to LDAP Conf	figurations
🗙 Main Menu	Configuration Name	Required
LDAP Configurations (1)	Active Directory	
Node1 >	LDAP URI Idap://AD.net:389 This encapsulates the address and port of the	Use default
	"ldap://ldap.example.com:19389" Use TLS Require TLS Control the use of TLS_More	♦ Use default
	LDAP Authentication Identity CN=Mlink Admin,CN=Users,DC=AD,Du The identity used for authentication to the LD or a string-encoded DN as appropriate. If you with Cobalt, it may be something like "cn=M-L	C=net AP directory. This may be either a SASL identity have created an LDAP directory for M-Link use ink Server,cn=Users,o=XMPP". Less
	LDAP Authorization Identity CN=Mlink Admin,CN=Users,DC=AD,DC The identity used for authorization by the LDA Identity.	C=net Use default
Version: 19.4v6	LDAP Password	•

Scroll down, enter in the LDAP User Base, under LDAP User Attribute add "sAMAccountName":

••• M-Link	Configuration	Monitoring	🏝 Multi-User Chat
Q Find a setting	Add new item to	LDAP Configurat	tions
🛠 Main Menu	LDAP User Base		Required
LDAP Configurations (1)	CN=Users,DC=AD,DC=	net	
Node1 >	LDAP User Base (string enco	ded DN). For example "cn=l	Jsers, cn=". Less
	LDAP User Attribute		
	sAMAccountName		
	LDAP User Attribute.		
	LDAP User Search Scope	2	
	One Level		🗸 Use default
	LDAP User Search Scope.		
	LDAP User Filter		
	LDAP User Filter.		
Version: 19.4v6	LDAP Group Base (must	be set for LDAP Group	lookup).

Scroll down and click "Add"

••• M-Link	Configuration	Monitoring	🏝 Multi-U	ser Chat
Q Find a setting	Add new item to	LDAP Configurat	tions	
🗙 Main Menu				
LDAP Configurations (1)	LDAP User Filter.			
Node1 >	LDAP Group Base (mus	t be set for LDAP Group	lookup).	
	LDAP Group Base (string er	ncoded DN). More		
	LDAP Group Scope			
	Single Level		\$	✓ Use default
	LDAP Group Scope.			
	LDAP Group Filter			
	LDAP Group Filter.			
Version: 19.4v6	Add			Cancel

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Connecting to LDAP (M-Vault)

Click "LDAP Configurations". Click "Add"

LDAP Configurations	Add
Configuration for LDAP user and group lookup	

Name your LDAP under "Configuration Name" Enter your LDAP URI address Enter your LDAP Authentication Identity Enter your LDAP Authorization Identity Enter the LDAP Password

••• M-Link	Configuration 🖾 Monitoring 🚢 Multi-User Chat
Q Find a setting	Add new item to LDAP Configurations
🛠 Main Menu	Configuration Name Required
LDAP Configurations (1)	M-Vault
Node1 >	A descriptive name given to this configuration
	This encapsulates the address and port of the directory server; for example
	Use TLS
	Require TLS \diamondsuit Use default
	Control the use of TLS. More
	LDAP Authentication Identity
	CN=Mlink Admin,CN=Users,O=XMPP
	The identity used for authentication to the LDAP directory. This may be either a SASL identity or a string-encoded DN as appropriate. If you have created an LDAP directory for M-Link use with Cobalt, it may be something like "cn=M-Link Server,cn=Users,o=XMPP". Less
	LDAP Authorization Identity
	CN=Mlink Admin,CN=Users,O=XMPP Use default
	The identity used for authorization by the LDAP directory, if different from the Authentication Identity.
	LDAP Password
	····· ·
	I DAD accounted

Scroll down, enter in the LDAP User Base, under LDAP User Attribute add "mail":

••• M-Link	Configuration	Monitoring	🚨 Multi-User Chat
Q Find a setting	Add new item to LDAP Co	onfigurations	
🕿 Main Menu			V Use default
E LDAP Configurations (1)	Disregard any pre-installed trust anchor o	certificates.	ese acraait
Node1 >	Trust Anchors		
	+ Add item Trust anchors to be used when verifying	the LDAP server certificate.	
	Perform authentication by binding	g to the DSA es place. More	✓ Use default
	LDAP User Base		Required
	cn=Users,o=XMPP LDAP User Base (string encoded DN). For	example "cn=Users, cn=". Le	SS
	LDAP User Attribute		
	mail LDAP User Attribute.		
	LDAP User Search Scope		
	One Level LDAP User Search Scope.	\$	✓ Use default
Version: 19.4v6	LDAP User Filter		

Scroll down and click "Add"

••• M-Link	Configuration	Monitoring	🏜 Multi-User Chat
Q Find a setting	Add new item to l	LDAP Configurat	tions
🛠 Main Menu			
LDAP Configurations (1)	LDAP User Filter.		
Node1 >	LDAP Group Base (must	be set for LDAP Group	lookup).
	LDAP Group Base (string end	oded DN). More	
	LDAP Group Scope		
	Single Level		♦ ✓ Use default
	LDAP Group Scope.		
	LDAP Group Filter		
	LDAP Group Filter.		
Version: 19.4v6	Add		Cancel

Creating an IM Domain

From the Global Option page click on "IM Domains:



Click "Add".

••• M-Link User Server	Configuration Monitoring	0 ~
🛠 Main Menu	IM Domains	Add
😭 Global options	IM/User Domains hosted by M-Link.	
IM Domains (0)	There are no items to display. Get started by adding one above.	
🔩 Pubsub Domains (0)		
MUC Domains (0)		

Enter your Domain name Click "Authentication Type" and select "LDAP" Click "LDAP Configuration" and select your previous LDAP Configuration

••• M-Link	Configuration	Monitoring	🚢 Multi-User Cl	hat E
Q Find a setting	Add new item to	IM Domains		
🛠 Main Menu				
IM Domains (1)	Oomain			
ml194.net >	Domain			Required
	headquarters.net			
	Domain name.			
	Authentication Type			Required
	LDAP		*	
	Authentication type.			
	LDAP Configuration			Required
	Active Directory		\$	
	Reference to the LDAP conf	figuration to use.		
	TLS Required			
Version: 19.4v6			~	Use default

Scroll down and click "Submit":

	Archive Scope	
	Messages and Events	Use default
	What should be archived	
	Allow Message Archive Management	
	Enable the Message Archive Management (XEP-0313) feature for this d	Use default
Version: 19.4v6	Add	Cancel

If both an M-Vault & Active Directory LDAP exists both can be added and be swapped between under "LDAP Configuration"

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Adding a Multi-User Chat (MUC) Domain

The XMPP Service we've set up will allow 1:1 instant messaging by default. In order to enable multi-user chat we need to set up a multi-user chat domain within which chat rooms can be created.

From the Global Option page click on "MUC Domains":



Click "Add"

MUC Domains	Add
③ MUC Domains hosted by M-Link.	
There are no items to display. Get started by adding one above.	

Enter your desired MUC domain name Enter a description of said MUC

••• M-Link	Configuration	Monitoring	🏝 Multi-User Chat		
Q Find a setting	Add new item to	MUC Domains			
🛠 Main Menu					
🔍 MUC Domains (0) 🛛 🗸 🗸	A MUC Domain host	sted by M-Link.			
	Domain			Required	
	t				
	Domain name.				
	Description				
	Isode M-Link Chat Roo	oms		🔽 Use default	
	The description of the servi	ce that is shown to users.			
	TLS Identity				
			Edit		
	Public/Private Key Pair.				
	MUC Domain Security I	Label			
Version: 19.4v6			Edit		

Scroll down and click "Add":

••• M-Link	Configuration	Monitoring	🎎 Multi-Us	ser Chat i
Q Find a setting	Add new item to l	MUC Domains		
🛠 Main Menu			Edit	
🔩 MUC Domains (0) 🛛 🗸	The default stanza security la	bel for this MUC domain.		
	MUC Domain Security C	earance		
			Edit	
	The security clearance for th	s MUC domain.		
	Archive Scope			
	Messages and Events		\$	✓ Use default
	What should be archived			
	Allow Message Archive I	Management		
	Enable the Message Archive	Management (XED-0313) for	ture for this dom	Use default
		management (AEF-0313) Tea		
Version: 19.4v6	Add			Cancel

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From the menu at the top, select Multi User Chat:

← C ① https://10.178.19	4.1:5221/config/mixDomains				A 🗘 🗘 🎸	Ē.	~		0
••• M-Link	Configuration	Monitoring	🎎 Multi-User Chat	Archive				0	~
Q Find a setting	MUC Domains							Add	
🛠 Main Menu									
🔩 MUC Domains (1) 🛛 🗸	① MUC Domains host	ed by M-Link.							
chat.headquarters.net	chat.headquarters	s.net →							
Version: 19.4v6									

Click on your chat domain:

← C ♠ https://10.178.19	94.1:5221/muc/domains				AN CO CO	r 🕀 🗞	🄇
••• M-Link	🕸 Configuration	Monitoring	🎎 Multi-User Chat	Archive			0 ~
🕿 Main Menu	MUC Domains	l domain					
MUC Domains 🗸 🗸							
chat.headquarters.net	chat.headquarters.net 0 rooms				C Auto Refresh	10 seconds	\$
Version: 19.4v6							

Click on "Create New Room"

	× ③ testroom 94.1:5221/muc/domains/chat.he	× +			- 。 於公日谷龟嗡…	×
••• M-Link	Configuration	Monitoring	🏦 Multi-User Chat	Archive	->: Clustering	~
🛠 Main Menu	chat.headquarter	's.net 0 rooms			Manage Domain Create New Room	٦
MUC Domains 🗸 🗸					C Auto Refresh 10 seconds	
chat.headquarters.net 🛩	There are no rooms to dis	play.				

Type in the details for your new room, then click "Add"

Create a New Room in chat.headquarters.net Room configuration	×
Room Name @ chat.headquarters.net	Required
testroom	
Unique room identifier (node part of a JID)	
Room Title	
Test Room	
The formal name of the room.	
Description	
The description of the room.	
Marking	
	-
Add	Cancel

You will now see your new room:

••• M-Link	Configuration	Monitoring	🎎 Multi-User Chat	archive	⊷ನ್ Clustering	0 ~
🛠 Main Menu	chat.headquarte	rs.net 1 room			Manage Domain	Create New Room
MUC Domains 🗸 🗸						
chat.headquarters.net 🗸 🗸					C Auto Refresh	0 seconds 🗢
testroom	testroom@chat.headqu Number of occupants: Number of joined FMUC roon	arters.net 0 ns: N/A				
Version: 19.4v6						

Testing with the Swift 6 XMPP Web Client

There are a number of free XMPP clients available but for the purposes of this evaluation we're going to use the Swift 6 web client. Instructions for obtaining and installing Swift 6 for your platform can be found at [https://www.isode.com/product/xmpp-client/]

Using Swift

Launch Swift 6 and type in the login details of a user:

		M-Link		× 🕥	Swift		× (+											-	ð	×
\leftarrow	С	https://	/10.178.194.1:	1080/signin							P	₿	Aø	☆	¢þ	£≡	Ð	~		•
																				-
						🔺 Swift	t													
						Sig	n in													
						Jigi														
						Address														
						riddress														
						user.o	ne@headqu	uarters.net												
						Password														
										۲										
								Sign	ı in											

Once you've logged in, you'll see that you have an empty roster. To add a contact, click on the + button and select [Add Contact] :

← C			<i>₽</i> ⊞	A 🗘	() {≞	Ē	~	🧿
• user.one@headqua (no message)	Q Quickly find people and rooms		Ctrl K					0
Turn on desktop notifications >								
All People Rooms								
		Select a chat						

Type in the full JID of the user you want to add:

Frater and duran		
Enter user address		
user.two@headquarters.net		
	Add contact	Cancel
	Solo	ct a chat

Click "Add Contact"

You will see that your request is pending:

← C)/chats/contact-user.two%40headquarters.net		🥠
• user.one@headqua (no message)	Q Quickly find people and rooms	Ctrl K	?
Turn on desktop notifications >	user.two@headquarters.net	st	*
All People Rooms (+) 🛊	No me	essages to display.	
PEOPLE			
	UNCLASSIFIED - Type here		1

Once the other user accepts your request, you can then engage a 1-2-1 chat:



Evaluation Guide: M-Link R19.4

Earlier we set up a persistent chat room using in M-Link. In order to enter that room, click the + button and select "Join Room"

Image: state	Q Quickly find people and rooms	Ctrl K	0
Turn on desktop notifications >	• user.two@headquarters.net		8 8
All People Rooms 🕂 :	me Unclassified Hello User Two	Today	Tue 14:33
	user.two@headquarters.net Unclassified Hello User One		Tue 14:34
	UNCLASSIFIED - Type here		Ą

Click on "Browse rooms" you should now see the room you created earlier:

(\otimes)			
Choose domain:			
🏶 headquarters.net 🗸			
^			
Join room			

Click "join room"

Then click "Open room"

Join room	\otimes
By address Browse rooms	
Filter by name or address:	Choose domain:
E.g. engineering	headquarters.net
In-room nickname: none set (using global nickname) 🖉	
Isode M-Link Multi-User Chat Service (1 rooms)	^
Test Room testroom@chat.headquarters.net	Open room

You will now enter the chat room:

Image: state	Q Quickly find people and rooms		0
Turn on desktop notifications >	testroom	2	:
All People Rooms + :	No messages to display.	Room occupants (2)	×
• 🧲 testroom		• 🐹 User Two	
	UNCLASSIFIED •		1

Conclusion

Congratulations, you now have a fully configured install of M-Link 19.4 (TLS Optional) with LDAP and MUC rooms configured.

What Next?

More information on the M-Link User Server can be found on the Isode website at https://www.isode.com/product/xmpp-server/

Information on the Swift XMPP client can be found at *https://www.isode.com/product/xmpp-client/*

Detailed configuration and operational information on all variations of M-Link can be found in the M-Link Administration Guide available from the Isode website at https://www.isode.com/support/guides-downloads/.

Whitepapers

Isode regularly publishes whitepapers on technical and market topics related to its products. A full list of these can be found at *www.isode.com/whitepapers/*.

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