

## Role Configuration: Cobalt & Harrier

Configuring Harrier (Isode's web based Military Messaging Client) to offer "Roles" to a User, using Cobalt (Isode's tool for provisioning users and roles in an LDAP directory).

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### Introduction

This guide describes how to configure Harrier (releases 3.0 and onwards) to offer 'Roles' to a User when logging in. The process described uses Harrier 3.0 together with the R18.0v5 releases of M-Switch, M-Box & M-Vault.

R18.0v5 or later Isode releases are required for Cobalt.

#### Prerequisites

This guide assumes you already have a working Harrier installation, such as the one installed as part of the Harrier Military Messaging Client evaluation available from *https://www.isode.com/evaluate/evaluate-email.html#harrier*.

#### **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 Harrier web client. Internet Explorer is not supported.

#### **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*.

Products can be obtained by clicking on the links in the "Download Links" section of the Evaluation page.

#### **Product Activation**

The Cobalt installation process will lead to the Cobalt server running on port *8001* with access from a Web browser. The HTTP URL for accessing from a local system will be *https://localhost:8001*.

The server will bootstrap itself with an auto generated certificate to offer HTTPS services. The browsers will display the page as insecure and give an option to add security exception. You will be able to set it up with a certificate trusted by the browsers and issued by trusted *CA* later (see Section 2.2.2 of the Cobalt Administration Guide available from *https://www.isode.com/support/help.html* 

Your first interaction with Cobalt will be Product Activation. Cobalt requires a valid Product Activation Key from Isode before it will run correctly. For instructions on applying for and requesting a Product Activation Key, see Section 2.1.1 of the Cobalt Administration Guide.

### **Configuration Changes**

#### Harrier

The following lines (in red) need to be added to the "harrier\_web\_conf.cml"file in the domain section. This file is located in "C:\Isode\Harrier\etc" on Windows systems and "/etc/isode/harrier/" on Linux systems.

The last tag (role\_self) is optional, it allows the user to login as themselves as well as their roles, as shown in Image 1.

age 1: Login Options		(S) Harrier
Username:	Required	Which role do you want to assume?
mark.timberlake@field.net		mark.timberlake@field.net
Password:	Required	officer.watch@field.net
		radio.operator@field.net
Login		
Remember username?		Choose role

When logged in as a Role your initial screen will be similar to the that shown in Image 2.

IMAGE 2: Harrier Inbo.	х			
G Harrier	×	+		- 0 ×
← → C ① 127.0.0.	1:9090/fc	older/INBOX/		• 🛧 🕒 :
🗰 Apps 🔇 Cobalt 🔇 Ha	arrier			
💮 Harrier				Officer of the Watch     Authenticated as mark timberlake@field.net
Compose		Search Move to -	Archive	Page 1 of 1
🗐 ілвох		Radio Operator	t 2 MO-NATO CONFIDENTIAL	2 hours   ROUTINE 041359Z Sep 2020
Drafts		4		,
ப் Sent				
🔄 Archives				
FOLDERS	÷			
C Outbox				

#### **M-Vault SASL Configuration**

By default, M-Vault has no SASL configuration, but Harrier Web requires this for using Roles. So start M-Vault Console and navigate to the SASL Configuration (Image 3) then click on [Edit] next to the Enabled Mechanisms field.

Imaae	<u>ع</u> .	M_Vault	Console	SASI	Configuration
innuge	э.	ivi-vuuit	CONSOLE	SASL	conjiguration

Address     Operation     Superior Knowledge     SASL     TLS     X.509     Password Policy     Shadowing     Failover     Multimaster     LDAP Changelog     HTTP     OCSP     Security Labels	SASL (Simple Authen Management of configu General Generic Mapp Enabled Mechanisms Allow Anonymous Allow Plaintext Minimum SSF Maximum SSF	tication and Security Layer) ration related to SASL. ing GSSAPI Mapping  cnone> No Confidential connections only 0 65535	Edit.

From the right-hand pane (Image 4) select ANONYMOUS, CRAM-MD5, DIGEST-MD5, PLAIN and all the SCRAM-SHA-xxx mechanisms, then click the blue Left Arrow (Image 5).

Image 4: Select Mechanisms

Enabled SASL Mechanisms	Disabled SASL Mechanisms
	ANONYMOUS CRAM-MD5 DIGEST-MD5 EXTERNAL GSS-SPNEGO LOGIN NTLM PLAIN SCRAM-SHA-1 SCRAM-SHA-224 SCRAM-SHA-256 SCRAM-SHA-384 SCRAM-SHA-512

Image 5: Confirm Mechanisms

nabled SASL Mechanisms	Disabled SASL Mechanisms
	ANONYMOUS CRAM-MD5 DIGEST-MD5 EXTERNAL GSS-SPNEGO LOGIN NTLM PLAIN SCRAM-SHA-1 SCRAM-SHA-1 SCRAM-SHA-224 SCRAM-SHA-224 SCRAM-SHA-256 SCRAM-SHA-384 SCRAM-SHA-384

Now click [OK] to complete.

Back in the main M-Vault Console screen (as in Image 3) click on the now highlighted [**Apply**] button. This completes the M-Vault configuration but as a good measure it is probably best to restart the M-Vault Server.

### **Configuring Users and Roles in Cobalt**

Login to Cobalt as Cobalt Administrator and ensure that the domain has as a minimum the following "Role Types"; "Messaging Users" and "Role Based UAs" available. You may, as in Image 6, want additional "Role Types".

Image 6								
S Cobalt	×	+			-		0	×
$\leftrightarrow$ $\rightarrow$ C (i) locally	nost:8001/dc	mains/domain/field.net			07	☆	0	:
🚻 Apps 🞯 Cobalt Ϛ	Harrier							
🕰 Cobalt		Configuration (field.net) Domains > Configuration (field.net)		Cobalt Ac	.adm	nin@	field.ne	net
Domains	e donnéroni	Directory server Config	uration					Î
Directory Servers		Details of directory server configure	ation for the domains					
Configuration		Directory Server Role Types						
Lo Administrators		Supported Resource Types Select all resource types supported for th	is domain	Required				
		XMPP Users	Messaging Users					
		Role Based UAs	Redirections					
		Internet Distribution Lists	Routed UAs					
		Profiled Addresses	Military Address Lists					
		Undate		Cancel				
	870.0							
								+

Logout as the Cobalt Administrator and login as an Administrator that has the rights to "Manage Everything" in the domain. Now create a User, in Image 7 this is the user "Mark Timberlake), then select [**Role Based UAs**] to create a Role (such as the Radio Operator role shown in Image 8.

Image 7							
S Cobalt X	+					- 0	×
$\leftrightarrow$ $\rightarrow$ C (i) localhost:8001/us	ers					• • 8	) :
👖 Apps 🔇 Cobalt 🜎 Harrier							
🕰 Cobalt	Users	Q Search	â Actions → Add		Cobalt Domain:	admin@field	d.net
Lusers		Full Name 🌐	Mail	9	Status 🏺	Last Authentical	¢ tion
Role Based UAs		Cobalt Admin	cobalt.admin@field.net		Active	Unknown	>
🎝 Routed UAs		Mark Timberlake	mark.timberlake@field.net		Active	Unknown	>
Profiled Addresses							
Lomain Administrators							

Image 8			
← → C ① localhost:8001/ro	+	t.cn=Cobalt%20Data.o=New%2	- u ^
III Apps 😵 Cobalt 💊 Harrier			
🕰 Cobalt	Radio Operator Role Based UAS > Radio Operator	Col	balt.admin@field.net main: field.net
Lusers			- î
Role Based UAs	Role Based UA A role based mailbox, specifying users that can occupy the		
🎝 Routed UAs	Role Contact Photo Certificate ACP127 M	essaging Redirection	
Profiled Addresses	Display Name	Requi	ired
Lomain Administrators	Radio Operator		
	Role Email Address	Requi	ired
	radio.operator	@field.net	
	Alternate Email Addresses Alternate email addresses for the role		
	@field.net	× +	
	Users that can occupy the role Distinguished Names of users that occupy this role		
	Mark Timberlake ×	Choose	
	Update	Cance	21
44			

In the "Users that can occupy the role" field use the [Choose] button to select Users, multiple Users can be selected.

You are now ready to work with Cobalt.

### What Next?

More information on Cobalt can be found on the Isode website at *https://www.isode.com/products/cobalt.html*.

Detailed configuration and operational information on Cobalt can be found in the Administration Guide available from the Isode website at *https://www.isode.com/support/help.html* 

#### 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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