



General	General					
Group	License					
Proxy	LicenseFile					
UserId	Description					
IP Address	Logging					
Hostname	LogMode	Norma	al	-		
Host By Name	LogFile	C:\Ca	pita	lware \MQSSX \mqssx.	log	
SSL DN	LogDiscMessage	No	Ŧ			
Max Client Channels	LogMessageQuote		•			
	RotateLogDaily	Yes	-	BackupLogFileCount	0	
			-			
	WriteToSystemLog	No	-	SystemLogMessage		
	WriteToEventQueue	Yes	•	EventQueueName	SYSTEM.ADMIN.CHANNEL.EVE	INT
	Excessive Client Conn	ections	s —			
	UseECC	No	•	ECCInterval	Day 🔻	
				ECCWarnCount	5000	



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1 Introduction

1.1 Overview

MQSSX-GUI application allows the user to create or update MQSSX IniFiles.

MQ Standard Security Exit (MQSSX) is a solution that allows a company to control and restrict who is accessing a IBM MQ resource. The security exit will operate with IBM MQ v7.1, v7.5, v8.0, v9.0, v9.1 and v9.2 in Windows, IBM i (OS/400), Unix and Linux environments. It works with Server Connection, Receiver, Requester and Cluster-Receiver channels of IBM MQ queue manager.

MQSSX-GUI creates or updates IniFiles that are located on server-side security exit.

MQSSX-GUI can run on any platform that supports Java v1.6 (or higher). This includes: Linux, Mac OS X and Windows Vista/7/8/8.1/10.

2 Installation

This chapter will describe the installation and configuration (optional) of MQSSX-GUI. For Windows users, the installation of MQSSX-GUI is very simple and straightforward. Other Operating Systems will need to unzip the downloaded software package.

2.1 Prerequisites

This section lists the required hardware and software components needed to run the MQSSX-GUI application.

2.2 Software

The following third party software components must be installed in order to properly run MQSSX-GUI:

> Java Runtime Environment (JRE) 1.6 (or higher) or Java 2 SDK, Standard Edition (J2SE) v1.6 (or higher)

2.3 Hardware / OS

MQSSX-GUI is capable of running on the following hardware platforms that support Java v1.6 (or higher):

- > Linux
- Mac OS X
- Windows Vista/7/8/8.1/10

2.4 Setting Up and Running the Application

The following section provides instructions on installing and running the MQSSX-GUI application.

2.4.1 For Windows Users:

> Run the install program called: mqssxgui-setup-withjre.exe

 \succ The installer should follow the standard Windows install procedures and provide default values for the users.

> When the install program has installed MQSSX-GUI, there will be a newly created folder under **Start** -> All **Programs** called **MQSSX-GUI**.

> To run MQSSX-GUI, select the MQSSX-GUI icon from within the MQSSX-GUI folder.

2.4.2 For Linux and Max OS X (requires JRE/JDK):

- > MQSSX-GUI is provided as a zip file: mqssxgui.zip
- > To unzip the file, open a shell prompt and execute the following commands:

unzip mqssxgui.zip

> When the unzip command has finished, there should be a directory tree as follows:

Capitalware/MQSSX-GUI

> Change directory by typing the following:

cd Capitalware/MQSSX-GUI

> Before running MQSSX-GUI for the first time, you need to add the execute attribute to the mqssxgui.sh shell scripts. Type the following:

chmod +x mqssxgui.sh

> To run MQSSX-GUI from the Capitalware/MQSSX-GUI directory, then type the following:

./mqssxgui.sh

3 Creating / Updating IniFiles

This chapter will describe the how to create and/or update IniFiles.

3.1 New IniFile

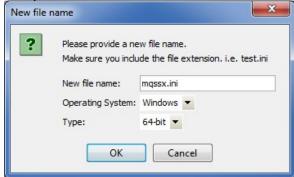
This section will describe how to create a new MQSSX IniFile. The IniFile can be for a local or remote MQSSX implementation.

- - X

From the main menu of MQSSX-GUI, select File then New File

File	View Tools	Help	
9	New File	Ctrl+N	
0	Open File	Ctrl+O	
6	Close		
	Save	Ctrl+S	
	Save As		
	Recent Files	•	
B	Exit		

The following is the New IniFile panel:



Fill in the following information:

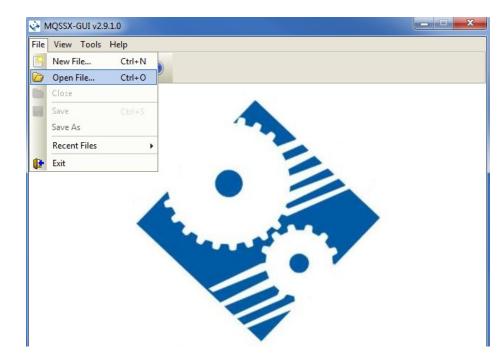
- Input a file name including the extension of '.ini'
- Select the Operating System
- Choose between a 32-bit or 64-bit environment

Finally, click the **Ok** button to create and open the new MQSSX IniFile.

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3.2 Open an IniFile

This section will describe how to open a MQSSX IniFile to be viewed or edited. The IniFile can be for a local or remote MQSSX implementation.



From the main menu of MQSSX-GUI, select File then Open File

The following is the **Open** dialog box:



Select the IniFile that you wish to view / edit and then press the **Open** button.

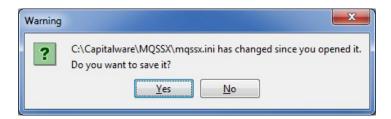
3.3 Close an IniFile

This section will describe how to close a MQSSX IniFile.

ile	View Tools	Help				
	New File	Ctrl+N				
	Open File	Ctrl+O				
6	Close					
	Save	Ctrl+S				
	Save As					
	Recent Files	۱.				
(}	Exit					
Hos	tname	LogMode	Norm	al	•	
Hos	t By Name	LogFile	C:\C	opita	lware \MQSSX \mqssx.	log
SSL	DN	LogDiscMessage	No	-		
Max	k Client Channels					
		LogMessageQuote	· ·	•		
		RotateLogDaily	Yes	•	BackupLogFileCount	9
		WriteToSystemLog	No	•	SystemLogMessage	Both 🔻
		WriteToEventQueu	e Yes	•	EventQueueName	SYSTEM.ADMIN.CHANNEL.EVENT
		Excessive Client Co	nnection	s —		
		UseECC	No	-	ECCInterval	Day 🔽
					ECCWarnCount	5000

From the main menu of MQSSX-GUI, select File then Close

If the user has altered the IniFile then the user will be presented with the following dialog box:



Select Yes to save the changes otherwise select No.

The MQSSX-GUI program will make a backup of the original file in the same directory called: *{inifilename}.backup*

3.4 Save IniFile

This section will describe how to save an open MQSSX IniFile.

From the main menu of MQSSX-GUI, select File then Save

🧼 N	/QS	SX-	GUI : C	\Caj	pitalware	\MQSSX\n	nqssx.	ini				_	x
File	Vi	ew	Tools	He	elp								
			ile										
			ile										
		ose											
	Sav		_		Ctrl+S								
		ve A	s Files			_							
•	Exi		THES)	, 							
Hos					LogMode		Norm	al	•				
Hos		Nan	ne		LogFile		C:\Ca	apita	lware \MQSSX \mqssx.l	log			
SSL		ant (hannels	1	LogDiscM	essage	No	•					
1100	c care			1	LogMessa	geQuote	1	•					
					RotateLo	gDaily	Yes	•	BackupLogFileCount	9			
					WriteToS	ystemLog	No	•	SystemLogMessage	Both	•		
					WriteToE	ventQueue	Yes	-	EventQueueName	SYSTEM.AD	MIN.CHANNEL.EVE	NT	
					Eveneriue	Client Conn	oction	_					
					UseECC	Client Conn	No		ECCInterval	Day	-		
					USELUC		NO	•	ECCWarnCount	5000	•		
									ECCWarnCount	5000			
								_					

The parameter information will be saved to the IniFile.

The MQSSX-GUI program will make a backup of the original file in the same directory called: *{inifilename}.backup*

3.5 Save As IniFile

This section will describe how to save an open MQSSX IniFile.

/* N	NQ33A-	001.0.	\Capitalware\l	ngoontin	quan				
File	View	Tools	Help						
8	New F	ile							
	Open I	File	Ctrl+O	2					
6	Close								
	Save		Ctrl+S						
	Save A	s							
	Recent	t Files	Þ						
()	Exit								
Hos	stname		LogMode		Norma	al	-		
Hos	st By Nan	ne	LogFile		C:\Ca	pital	ware\MQSSX\mqssx.l	og	
SSL	. DN		LogDiscMes	sage	No	•			
Max	x Client (Channels	LogMessag	eQuote	•	•			
			RotateLog	Daily	Yes	•	BackupLogFileCount	9	
			WriteToSys	stemLog	No	•	SystemLogMessage	Both	
			WriteToEve	entQueue	Yes	•	EventQueueName	SYSTEM.ADMIN.CHANNEL.EVENT	
			Excessive C	lient Conn	ections	s —			
			UseECC		No	•	ECCInterval	Day 🔻	
							ECCWarnCount	5000	

From the main menu of MQSSX-GUI, select File then Save As

Select / Input the IniFile name that you wish use then press the Save button.

Save in:	MQSSX	- 🦻 📂 🖽 -	
Recent Items	mqssx.ini mqssx.log mqssx.mqvt1.ini mqssx_test.ini mqssx_test2.ini mqssx_test3.ini		
My Documents			
Computer	File <u>n</u> ame:		Save

4 Tabs

This chapter will describe the various parameters on each tab.

4.1 General Tab

This section will describe various parameters on the General tab of a MQSSX IniFile.

The following is the General Tab with default values:

🐳 MQSSX-GUI : C:\(Capitalware\MQSSX\n	nqssx.ini			_
File View Tools	Help				
General	General				
Group	License				
Proxy	LicenseFile				
UserId	Description				
IP Address	Logging				
Hostname	LogMode	Normal	•		
Host By Name	LogFile	C:\Capita	lware \MQSSX \mqssx.	log	
SSL DN	LogDiscMessage	No 🔻			
Max Client Channels	LogMessageQuote	•			
	RotateLogDaily	Yes 🔻	BackupLogFileCount	9	
	WriteToSystemLog	No 🔻	SystemLogMessage	Both 🔽	
	WriteToEventQueue	Yes 🔻	EventQueueName	SYSTEM.ADMIN.CHANNEL.EVEN	TV
	Excessive Client Conn	ections -			
	UseECC	No 🔻	ECCInterval	Day 🔻	
			ECCWarnCount	5000	

The following are the IniFile parameters on the General Tab:

4.1.1 General

This section describes the general keywords and their values.

License key is provided by Capitalware Inc. and is the mechanism on to license MQSSX to a particular queue manager. Your license will look something like: 0000-AAAA-BBBBBBBB (Note: This is a sample license only and will NOT work).

LicenseFile specifies the location of License file that contains all of the customer's license keys. The following are the default values for LicenseFile:

- For Windows: C:\Capitalware\MQSSX\mqssx_licenses.ini
- For IBM MQ 32-bit on Unix and Linux: /var/mqm/exits/mqssx_licenses.ini
- For IBM MQ 64-bit on Unix and Linux: /var/mqm/exits64/mqssx_licenses.ini
- For IBM i: /QIBM/UserData/mqm/mqssx/mqssx_licenses.ini

Description parameter is optional and is not used by MQSSX. It can be used to provide a brief description / purpose of the IniFile.

4.1.2 Logging

This section describes the keywords related to logging and their values.

LogMode specifies what type of logging the user wishes to have. LogMode supports 4 values: Quiet, Normal, Verbose and Debug. The default value is Normal.

LogFile specifies the location of the log file. The default is as follows:

- For Windows: C:\Capitalware\MQSSX\mqssx.log
- For IBM MQ 32-bit on Unix and Linux: /var/mqm/exits/mqssx.log
- For IBM MQ 64-bit on Unix and Linux: /var/mqm/exits64/mqssx.log
- For IBM I: /QIBM/UserData/mqm/mqssx/mqssx.log

Token Replacement for LogFile keyword:

- %QM% Substitutes the name of the queue manager
- %CHL% Substitutes the name of the channel
- %UID% Substitutes the UserID
- %PID% Substitutes the Process ID
- %TID% Substitutes the Thread ID

LogDiscMessage specifies whether or not MQSSX write a disconnect message when the client application closes the channel. The default value is No.

LogMessageQuote specifies the type of quote (single or double) to be used on the log message. The default value is ' (single quote).

RotateLogDaily specifies whether or not MQSSX when auto-rotate the log files. The default value is Yes.

RotateLogDaily specifies whether or not MQSSX when auto-rotate the log files. The default value is Yes.

BackupLogFileCount specifies the number of backup log files to be kept / retained. The default value is 9.

WriteToSystemLog specifies for each connection attempt that a log entry be written to the system log.

- For Windows this would be the **Event Log**
- For Unix and Linux this would be the **syslog**.

SystemLogMessage specifies what messages will be written to the system log. SystemLogMessage supports 3 values: "Both", "Accepted Only", and "Rejected Only" messages. The default value is Both.

WriteToEventQueue specifies for each failed connection attempt that a log entry be written to the specified event queue.

EventQueueName specifies the name of the queue that the event message will be written to. The default is as follows: 'SYSTEM.ADMIN.CHANNEL.EVENT'.

UseECC enables excessive client connections feature. Valid values are Y/N. The default value is 'N'.

ECCIntercal specifies a time internal to monitor the incoming number of connections. Valid values are D/H/M (Day, Hour and Minute). The default value is 'D'.

ECCWarnCount specifies a count which, when exceed, will cause an alert to be generated. The default value is 5000.

4.2 Group Tab

This section will describe various parameters on the Group tab of a MQSSX IniFile.

The following is the Group Tab with default values:

MQSSX-GUI : C:\	Capitalware\MQ	2SSX\mqssx.ini	- • ×
File View Tools	Help		
General	Group Authoriz	ation	
Group	UseGroups	Yes 🔻	
Proxy	Groups	grp1;grp2 Update	
UserId	UseGroupFile	Yes 🔻	
IP Address		C:\Capitalware\MQSSX\groups.ini	
Hostname		kaning and a in The Transition in	
Host By Name			
SSL DN			
Max Client Channels			

The following are the IniFile parameters on the Group Tab:

- > UseGroup to allow or restrict an incoming UserID by a local OS group or a group file.
- **Groups** specifies the list of authorized groups.
- > UseGroupFile specifies if a group file should be used instead of local OS groups.
- > **GroupFile** specifies the location of the group file.

4.3 Proxy Tab

This section will describe various parameters on the Proxy tab of a MQSSX IniFile.

The following is the Proxy Tab with default values:

MQSSX-GUI : C:\Capitalware\MQSSX\mqssx.ini	x
File View Tools Help	
General Group Proxy UseProxy Yes ProxyFile C: (Capitalware (MQSSX/proxy.fil ProxyFile Values: PoryFile Values: DefaultProxyID=mgm fired=mgm wilma=mgm Add Edit Delete Save File Cancel	

4.3.1 Proxy File

This section describes the necessary steps to enable the use of 'Proxy IDs'. Proxy ID allows an authorized User to use a different UserID for MQ interactions.

The following are the IniFile parameters on the Proxy Tab:

- **UseProxy** allows an authorized User to use a different UserID for MQ interactions.
- > **ProxyFile** specifies the location of the file to do alternate UserID look-up.

4.4 Userld Tab

This section will describe various parameters on the UserId tab of a MQSSX IniFile.

The following is the UserId Tab with default values:

MQSSX-GUI : C:\	Capitalware\MQSS>	Ƙ\mqssx	ini			_ = X
File View Tools	Help					
General	General					
Group	Allowmqm	No	 AllowBlankUserID 	No 🔻		
Proxy	UseMCAUser	No	UserIDFormatting	As Is	•	
UserId	CheckFinalUserID	No				
IP Address	Allow UserId Filteri					
Hostname	Allow Oseria Filteri		erId Filters:			
Host By Name		rubb*	critic rifers.			
SSL DN		flint*				Add
Max Client Channels						Edit
						Delete
						Move Up
						Move Down
	Reject UserId Filte	ring —				
	RejectUserID	Yes	•			
		Reject U	serId Filters:			
		bambam				
		pebbles				Add
						Edit
						Delete
						Move Up
						Move Down
					_	

The following are the IniFile parameters on the UserId Tab:

4.4.1 General

This section describes the necessary steps to enable the use of the general options for the UserId tab.

> Allowmqm enables users to login with the mqm or MUSR_MQADMIN or QMQM system account. This is controlled by the IniFile's property keyword 'Allowmqm'. Setting 'Allowmqm' to Yes will activate this feature; otherwise, it will be blocked.

> AllowBlankUserId enables connection to have a blank UserID. This is controlled by the IniFile's property keyword 'AllowBlankUserID'. Setting 'AllowBlankUserID' to 'Yes' will allow connections to have a blank UserID.

> UseMCAUser allows the connection to use the UserID value specified in the channel's MCAUSER field.

> UserIDFormatting specifies how to handle/format the incoming UserID. Use it 'As Is' or 'Uppercase' it or 'Lowercase' it. The default is 'As Is'.

CheckFinalUserID specifies whether or not the final UserID will be checked against the UseAllowUserID, AllowUserID, UseRejectUserID, RejectUserID and Allowmqm keywords. CheckFinalUserID supports 2 values [Y / N]. The default is 'N'.

4.4.2 Allow UserID

This section describes the necessary steps to enable the use of filtering of the incoming UserId.

➤ UseAllowUserID enables the feature to allow or to restrict the incoming UserID by using a regular expression pattern. The server-side security exit will look up the regular expression pattern from the 'AllowUserID' property keyword.

> AllowUserID Filters is a list of UserIds (with wildcards) that are allowed to connect to queue manager or particular channel.

4.4.3 Reject UserID

This section describes the necessary steps to explicitly reject an incoming UserId.

➤ UseRejectUserID enables the feature to reject an the incoming UserID by using a regular expression pattern. The server-side security exit will look up the regular expression pattern from the 'RejectUserID' property keyword.

RejectUserID Filters is a list of UserIds (with wildcards) that are explicitly rejected.

4.4.4 Managing UserID Filtering

This section describes the necessary steps to manage UserID filtering entries. Click the **Add** button to add an entry to the list.

Input	
?	Please provide an 'Allow' UserId filter. flint*
	OK Cancel

Input the UserID including wildcards and then click the **Ok** button.

Click the **Edit** button to update an entry in the list.

Input	
?	Please provide an 'Allow' UserId filter. flint* OK Cancel

Update the UserID including wildcards and then click the **Ok** button.

Click the **Delete** button to delete an entry in the list.

Delete		×
?	Delete flint* 'Allow' UserId filter?	
	Yes No	

Click the Yes button to permanently remove the entry from the list.

4.5 IP Address Tab

This section will describe various parameters on the IP Address tab of a MQSSX IniFile.

The following is the IP Address Tab with default values:

MQSSX-GUI : C:\	Capitalware\MQSSX\mqssx.ini	- - X
File View Tools	Help	
General	Allow IP Address Filtering	
Group	UseAllowIP Yes 🔻	
Proxy	Allow IP Address Filters:	
UserId	10.10.*.*	
IP Address	10.20.*.*	
Hostname	Edit	
Host By Name	Delete	
SSL DN		
Max Client Channels	Move Up	
	Move Down	
	Reject IP Address Filtering	
	UseRejectIP Yes 🔻	
	Reject IP Address Filters:	
	192.168.10.*	
	192.168.20.* Add	
	Edit	
	Delete	
	Move Up	
	Move Down	

The following are the IniFile parameters on the IP Address Tab:

4.5.1 Allow IP

This section describes the necessary steps to enable the use of filtering of the incoming IP address.

➤ UseAllowIP to allow or restrict an incoming IP address by using a regular expression pattern. This is controlled by the IniFile's property keyword 'UseAllowIP'. Setting 'UseAllowIP' to 'Yes' will cause the server-side security exit to look up the regular expression pattern from the 'AllowIP' property keyword.

> **IP Address Filters** is a list of IP Addresses (with wildcards) that are allowed to connect to queue manager or particular channel.

4.5.2 Reject IP

This section describes the necessary steps to explicitly reject an incoming IP address.

➤ UseRejectIP to explicitly reject an incoming IP address by using a regular expression pattern. This is controlled by the IniFile's property keyword 'UseRejectIP'. Setting 'UseRejectIP' to 'Yes' will cause the server-side security exit to look up the regular expression pattern from the 'RejectIP' property keyword.

Reject IP Filters is a list of IP Addresses (with wildcards) that are explicitly rejected.

4.5.3 Managing IP Address Filtering

This section describes the necessary steps to manage IP address filtering entries.

Click the Add button to add an entry to the list.

Input	
?	Please provide an 'Allow' IP address filter. 10.20.*.*
	OK Cancel

Input the IP Filter including wildcards and then click the **Ok** button.

Click the Edit button to update an entry in the list.

Input	
?	Please provide an 'Allow' IP address filter. 10.20.*.*
	OK Cancel

Update the IP Filter including wildcards and then click the Ok button.

Click the **Delete** button to delete an entry in the list.

Delete		×
?	Delete 10.20.*.* IP address filter?	
	Yes No	

Click the **Yes** button to permanently remove the entry from the list.

4.6 Hostname Tab

This section will describe various parameters on the Hostname tab of a MQSSX IniFile.

The following is the Hostname Tab with default values:

MQSSX-GUI : C:\(Capitalware\MQSSX\r	nqssx.ini	_ _ X
File View Tools	Help		
General Group Proxy UserId IP Address Hostname Host By Name SSL DN	Allow Hostname Filter UseAllowHostname	Ing Yes Allow Hostname Filters: abc01.acme.com abc02.acme.com	Add Edit Delete
Max Client Channels	Reject Hostname Filte UseRejectHostname		Move Up
			Add Edit Delete Move Up
(E			

The following are the IniFile parameters on the Hostname Tab:

4.6.1 Allow Hostname

This section describes the necessary steps to enable the use of filtering of the incoming Hostname.

➤ UseAllowHostname to allow or restrict an incoming Hostname by using a regular expression pattern. This is controlled by the IniFile's property keyword 'UseAllowHostname'. Setting 'UseAllowHostname' to 'Yes' will cause the server-side security exit to look up the regular expression pattern from the 'AllowHostname' property keyword.

Hostname Filters is a list of Hostnames (with wildcards) that are allowed to connect to queue manager or particular channel.

4.6.2 Reject Hostname

This section describes the necessary steps to explicitly reject an incoming Hostname.

➤ UseRejectHostname to explicitly reject an incoming Hostname by using a regular expression pattern. This is controlled by the IniFile's property keyword 'UseRejectHostname'. Setting 'UseRejectHostname' to 'Yes' will cause the server-side security exit to look up the regular expression pattern from the 'RejectHostname' property keyword.

Reject Hostname Filters is a list of Hostnames (with wildcards) that are explicitly rejected.

4.6.3 Managing Hostname Filtering

This section describes the necessary steps to manage Hostname filtering entries.

Click the Add button to add an entry to the list.

Input	
(?)	Please provide an 'Allow' Hostname filter.
\checkmark	abc01.acme.com
	OK Cancel

Input the Hostname Filter including wildcards and then click the **Ok** button.

Click the Edit button to update an entry in the list.

Input	
(?)	Please provide an 'Allow' Hostname filter.
\checkmark	abc01.acme.com
	OK Cancel

Update the Hostname Filter including wildcards and then click the Ok button.

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Click the **Delete** button to delete an entry in the list.

Delete	🗵
?	Delete abc02.acme.com Hostname filter?
	Yes No

Click the **Yes** button to permanently remove the entry from the list.

4.7 Host By Name Tab

This section will describe various parameters on the Host By Name tab of a MQSSX IniFile.

The following is the Host By Name Tab with default values:

File View Tools Help General Group UseAllowHost By Name Filtering UseAllowHostByName Yes Allow Host By Name Filters: abc04.acme.com abc02.acme.com Add Edit	MQSSX-GUI : C:	Capitalware\MQSSX\mqssx.ini			x
General Allow Host By Name Filtering Group UseAllowHostByName Proxy Allow Host By Name Filters: UserId abc014.acme.com IP Address Add Hostname Edit	File View Tools	Help			
Group UseAllowHostByName Yes Proxy Allow Host By Name Filters: UserId abc04.acme.com abc02.acme.com Add Edit					
SSL DN Max Client Channels Reject Host By Name Filtering UseRejectHostByName No Reject Host B yName Filters: Add Edit Delete Move Down Add Edit Delete Move Down Add Edit Delete Move Down	General Group Proxy UserId IP Address Hostname Host By Name SSL DN	Allow Host By Name Filtering UseAllowHostByName Yes Allow Host By Name Filters:	Edit Delete Move Move C Add Edit Delete Move	Up Down	

The following are the IniFile parameters on the HostByName Tab:

4.7.1 Allow HostByName

This section describes the necessary entries to enable the feature that allows or restricts the incoming IP against IP of Hostnames that MQSSX will perform a gethostbyaddr() call against to compare the returned IP address against the incoming IP address.

UseAllowHostByName controls the use of AllowHostByName. Set to Y to activate feature.

HostByName specifies the Hostnames that MQSSX will perform a gethostbyaddr() call against to compare the returned IP address against the incoming IP address to allow the incoming connection.

4.7.2 Reject HostByName

This section describes the necessary entries to enable the feature that rejects the incoming IP against IP of Hostnames that MQSSX will perform a gethostbyaddr() call against to compare the returned IP address against the incoming IP address.

UseRejectHostByName controls the use of RejectHostByName. Set to Y to activate feature.

Reject HostByName specifies the Hostnames that MQSSX will perform a gethostbyaddr() call against to compare the returned IP address against the incoming IP address. rejected.

4.7.3 Managing HostByName Filtering

This section describes the necessary steps to manage HostByName filtering entries.

Click the Add button to add an entry to the list.



Input the HostByName Filter including wildcards and then click the Ok button.

Click the **Edit** button to update an entry in the list.

Input	
?	Please provide an 'Allow' HostByName filter.
	abc01.acme.com
	OK Cancel

Update the HostByName Filter including wildcards and then click the **Ok** button.

MQSSX-GUI User Guide

Click the **Delete** button to delete an entry in the list.

Delete	
?	Delete abc02.acme.com HostByName filter?
	Yes <u>N</u> o

Click the **Yes** button to permanently remove the entry from the list.

4.8 SSL DN Tab

This section will describe various parameters on the SSL DN tab of a MQSSX IniFile.

The following is the SSL DN Tab with sample values:

The following are the IniFile parameters on the SSL DN Tab:

4.8.1 General

This section describes the necessary steps to enable the use of the general options for the SSL DN tab.

➤ UseSSLCertUserID allows the connection to use the UserID value specified in the channel's SSLCertUserID field.

- > AllowSSLSSCert allows or rejects a connection with a Self-Signed Certificate.
- **UseSSLSSLDNFromDN** specifies that the UserID is to be retrieved from a SSL DN entry.
- > SSLSSLDNAttrName specifies the SSL DN attribute field name
- **SSLDNAttrStartPos** specifies the start position of the retrieval
- **SSLDNAttrLength** specifies the length of the field to be extracted (* means all)

4.8.2 Allow SSL DN

This section describes the necessary steps to enable the use of filtering of the incoming SSL DN.

➤ UseAllowSSL DN enables the feature to allow or to restrict the incoming SSL DN by using a regular expression pattern. The server-side security exit will look up the regular expression pattern from the 'AllowSSL DN' property keyword.

> AllowSSL DN Filters is a list of SSL DNs (with wildcards) that are allowed to connect to queue manager or particular channel.

4.8.3 Reject SSL DN

This section describes the necessary steps to explicitly reject an incoming SSL DN.

➤ UseRejectSSL DN enables the feature to reject an the incoming SSL DN by using a regular expression pattern. The server-side security exit will look up the regular expression pattern from the 'RejectSSL DN' property keyword.

RejectSSL DN Filters is a list of SSL DNs (with wildcards) that are explicitly rejected.

4.8.4 Managing SSL DN Filtering

This section describes the necessary steps to manage SSL DN filtering entries.

Click the Add button to add an entry to the list.

Input	
?	Please provide an 'Allow' SSL DN filter. O=Capitalware,C=CA
	OK Cancel

Input the SSL DN including wildcards and then click the Ok button.

Input		
	Please provide an 'Allow' SSL DN filter.	
$\mathbf{\mathbf{v}}$	O=Capitalware,C=CA	

ΟK

Click the **Edit** button to update an entry in the list.

Update the SSL DN including wildcards and then click the Ok button.

Click the **Delete** button to delete an entry in the list.

Cancel

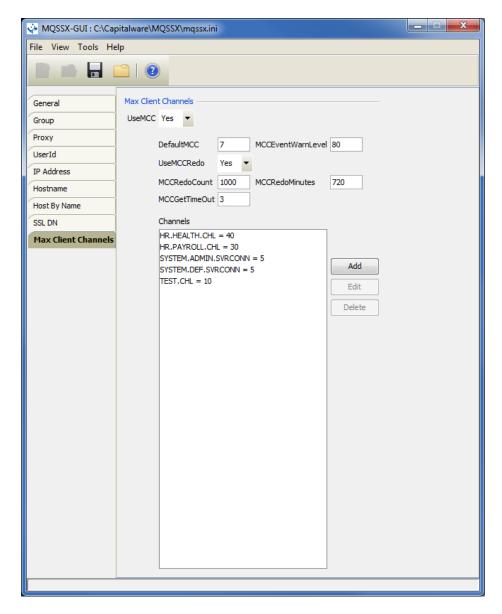
Delete	
?	Delete O=Capitalware,C=CA SSL DN filter?
	Yes No

Click the **Yes** button to permanently remove the entry from the list.

4.9 Max Client Channel Tab

This section will describe various parameters on the Max Client Channel (MCC) tab of a MQSSX IniFile.

The following is a Max Client Channel Tab with default values:



The following are the IniFile parameters on the Max Client Channel Tab:

4.9.1 Set Maximum Number of Incoming Connections per Channel

This section describes the necessary entries to set a maximum number of allowable connections per a given channel. This is controlled by the IniFile's property keyword 'UseMCC'. Setting 'UseMCC' to 'Y' (Yes) will cause the server-side security exit to look up channel's name as a property keyword in the IniFile.

For example, if 'UseMCC' is set to 'Y' and the incoming connection is on

'SYSTEM.ADMIN.SVRCONN', the server-side security exit will look up in the IniFile the keyword of 'SYSTEM.ADMIN.SVRCONN'. If the 'SYSTEM.ADMIN.SVRCONN' keyword is not found, then the server-side security exit will look up 'DefaultMCC' keyword in the IniFile.

> **DefaultMCC** is the default maximum number of connections allowed for the channel.

MCCEventWarnLevel keyword provides a percent level of connected channels when a warning messages should be issued to the event queue. The default value for 'MCCEventWarnLevel' is 80 percent.

UseMCCRedo keyword specifies whether or not the server-side security exit should issue the PCF command. The default value for 'UseMCCRedo' is 'N'.

MCCRedoMinutes keyword states that the server-side security exit should issue PCF command if more than 'x' minutes have passed since the last PCF command was issued. The default value for 'MCCRedoMinutes' is 720 minutes.

MCCRedoCount keyword states that the server-side security exit should issue PCF command if more than 'x' connection attempts passed since the last PCF command was issued. The default value for 'MCCRedoCount' is 5000.

> MCCGetTimeOut keyword states that the server-side security exit should wait, after issues a PCF command, up to 'x' seconds for the response message from the command server. The default value for 'MCCGetTimeOut' is 3 seconds.

4.9.2 Managing MCC entries

Click the Add button to add an entry to the list.

Please s	pecify a new SVRCONN	Channel Name and max 🔀
?	SVRCONN Channel Name: Max Channel Limit:	TEST.CHL
	OK	Cancel

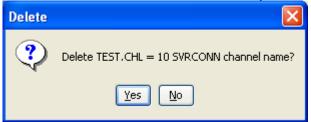
Input the channel name and the maximum number of connection to be allowed at any given time for this channel and then click the Ok button.

Click the **Edit** button to update an entry in the list.

Please u	pdate the SVRCONN Ch	annel Name and max limit. 🔀
?	SVRCONN Channel Name: Max Channel Limit:	TEST.CHL
	ОК	Cancel

Update the channel name and / or the maximum number of connection to be allowed at any given time for this channel and then click the **Ok** button.

Click the **Delete** button to delete an entry in the list.



Click the **Yes** button to permanently remove the entry from the list.

fiew T	ools Help			
10				
eral S	how Structures			
VCD	ShowCXP - Channel Exit Pa	rameter		
wCXP	CapabilityFlags	CurHdrCompression	CurMsgCompression	ExitData
	ExitId	ExitNumber	ExitReason	ExitResponse2
	ExitResponse	ExitSpace	FAPLevel	Eedback
	HeaderLength	MaxSegmentLength	MCAUserSource	MsgRetryCount
	MsgRetryInterval	MsgRetryReason	PartnerName	RemoteProduct
	RemoteVersion	SecurityParms	V SharingConversations	SSLCertUserid
	SSLRemCertIssName	Version		

5 Other Tools

This chapter will describes how the other tools included with MQSSX-GUI.

5.1 Hex Converter

This section will describe how to invoke and use the Hex Converter tool. Hex Converter tool can convert a hexadecimal number to its corresponding string representation and vice versa. i.e. 0x'3132333041424344' to '1230ABCD'.

For the Other Tools, you can have unlimited number of them running (up to what your box can support). Also, while any of the Other Tools are running, the user can still use MQSSX-GUI.

From the main panel of MQSSX-GUI, select Tools, then Hex Converter.

This is the main panel of the Hex Converter.

J Hex Converter v1.0.0	
Eile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp	
Input Value:	
5468697320697320612074657374206D657373616765	
Conversion Type: Convert Hex to Character Convert	
Output:	

- The user first selects the Conversion type: "Hex to Character" or "Character to Hex"
- Input the value hex or character value into the "Input Value" field
- Click the Convert button to convert the data

5.2 Hex Editor

This section will describe how to invoke and use the Hex Editor tool. The Hex Editor is a simple multipurpose hex editor. The Hex Editor supports multi-file editing.

For the Other Tools, you can have unlimited number of them running (up to what your box can support). Also, while any of the Other Tools are running, the user can still use MQSSX-GUI.

From the main panel of MQSSX-GUI, select Tools, then Hex Editor.

This is the main panel of the Hex Editor and it has 3 open files.

	E:\TestData\Text\message_0001.txt																
		Lo						2									
🗐 message	_000	1.tx	t 🗡	C		mes	sage	.txt	х	c	one_r	ness	age_	smal	l.txt	x	
Address	0	1	2	3	4	5	6	7	8	9	Α	в	С	D	Е	F	Text
00000000	49	6E	20	4D	51	53	65	72	69	65	73	2C	20	69	6E	74	In MQSeries, int 🔺
00000010	65	72	63	6F	6D	6D	75	6E	69	63	61	74	69	6F	6E	20	ercommunication 🔲
0000020	6D	65	61	6E	73	20	73	65	6E	64	69	6E	67	20	6D	65	means sending me
0000030	73	73	61	67	65	73	20	66	72	6F	6D	20	6F	6E	65	20	ssages from one
00000040	71	75	65	75	65	20											queue manager to
0000050	20	61	6E	6F	74	68	65	72	2E	20	20	54	68	65	20	72	another. The r
00000060	65	63	65	69	76	69	6E	67	20	71	75	65	75	65	20	6D	eceiving queue m
00000070	61		61		65	72		63						62			anager could be
00000080		6E	_														on the same mach
00000090																	ine or another;
000000A0	6E			72		79											nearby or on the
00000B0	20		74	68				73			65						other side of t
00000C0	68																he world. It co
00000D0	75				62												uld be running o
000000E0	6E	20			65												n the same platf
00000F0																	orm as the local
00000100	20		75	65	75	65		6D									queue manager,
00000110		72	20	63													or could be on a
00000120		79															ny of the platfo
00000130																	rms supported by
00000140	20		51		65		69		73		20						MQSeries. This
00000150		69		20				6C			20						is called a dis
00000160			69														tributed environ
00000170	6D			74				4D					69		73		ment. MQSeries
00000180	68		6E		6C			20					75				handles communic
00000190																	ation in a distr
000001A0	69	_	75	74	65			65									ibuted environme
000001B0	6E				75												nt such as this
000001C0	75		69		67												using Distribute
000001D0	64		51														d Queue Manageme
000001E0		74	20														nt (DQM). The lo
000001F0																	cal queue manage
00000200	72	20	69	73	20	73	6F	6D	65	74	69	6D	65	73	20	63	r is sometimes c 🔻

- Open / editing of multiple files
- Recent File List
- Copy, Find and Find Next
- Save, Save As and Print

5.3 Tail File

This section will describe how to invoke and use the Tail File tool. The Tail File is a simple multipurpose file monitoring viewer. The Tail File supports monitoring of multiple files at the same time.

For the Other Tools, you can have unlimited number of them running (up to what your box can support). Also, while any of the Other Tools are running, the user can still use MQSSX-GUI.

From the main panel of MQSSX-GUI, select Tools, then Tail File.

This is the main panel of the Tail File and it has 3 open files.

D:\Program Files (x86)\BM\WebSphere MQ\errors\AMQERR01.LOG	- • ×							
Eile Edit View Iools Help								
mqausx.mqwti.log X AMQERR01LOG X UFM.log X	- 8							
10000 FV0000 15312 ESPLANATION: 15314 An error occurred receiving data from 'an event set (144)' over TCP/IP. The 15316 Connection to the remote host has unexpectedly terminated. 15317 The channel name is 'WY.TEST.EXIT'; in some cases it cannot be determined and 15318 An error occurred receiving data from 'an event set. 15317 The channel name is 'WY.TEST.EXIT'; in some cases it cannot be determined and 15318 ATTON: 15320 Tell the systems administrator. 15321 Procession (032.1) User(100000) 15324 Procession (032.1) User(1000000) 15325 Procession (032.1) User(10000000) 15326 Procession (032.1) User(1000000000000000000000000000000000000	- 8							
1530 57/2016 332:21:5 Process(9852.1) User the main Program(mytestx.exe) Hot(Comedod Instatistic Process(9852.1) User the main Program(mytestx.exe) Hot(Comedod Instatistic) (1534) M0(9202: Remote host '16:0.0.0.1 (1414)' not available, retry later. 1535 For the theory of the main of the mai								
15550 15560 Total Rows=15560 Wrap Text=Off Follow File=On	-							
<u> </u>								

- Opening of multiple files
- Wrap Text and Recent File List
- Copy, Find, Find Next and Print

5.4 Text Editor

This section will describe how to invoke and use the Text Editor tool. The Text Editor is a simple multipurpose plain-text editor. The Text Editor supports multi-file editing.

For the Other Tools, you can have unlimited number of them running (up to what your box can support). Also, while any of the Other Tools are running, the user can still use MQSSX-GUI.

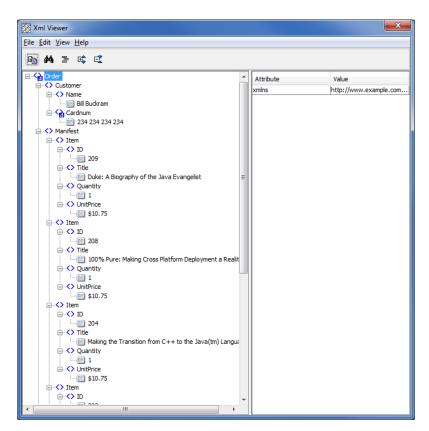
From the main panel of MQSSX-GUI, select **Tools**, then **Text Editor**.

This is the main panel of the Text Editor and it has 3 open files.

E:\TestData\Text\mqve	e_load_data_0001.txt	- • ×					
<u>File Edit View Iools H</u> elp							
message_0001.txt X	mqve_load_data_0001.txt X one_message_small.txt X	- 🗖					
1 Charles John Hu	ffham Dickens, 1812-1870	^					
3 Charles Dickens 4 full schedule f 5 energy. In add 6 journalism and 7 numerous amateu 8 social life. + 9 family and was 10 Victoria and Dc 11 charitable orga 12 would walk long	: led avery active life, always setting a for himself which he pursued with extreme lition to working on his novels, weekly public readings, he produced and appeared in ur theatrical productions and had a busy te had a wide circle of friends, a large admired by such different people as Queen ostoevsky. He also was active in several unizations. Ironically, for relaxation, he j distances at a fast pace.						
15 his novels show 16 that probably s 17 For example, hi 18 Charles was on 19 situation, his	I a flamboyant and high-spirited personality, v a distinctive blend of comedy and tragedy items in part from his own life experiences. is father was imprisoned for indebtedness when y 12. Because of their impoverished whole family was forced to move into a n and Charles was sent to work in a blacking	Е					
23 In later years, 24 health. After 25 America, Dicker 26 public readings 27 not fully recov 28 while working c	his busy schedule began to affect his an exhausting tour of public readings in is was left physically weakened. He continued his on his return to England even though he had vered. The result was that in June 1870, in his novel, Edwin Drood, Dickens suffered a fatal buried in the Poet's Corner in Westminster						
31 32 1833 33 1833-1835 34 1834 35 1836-1837 36 1837 37 1838-1839 38 1840-1841 39 1841	Reporter of parliamentary debates Sketches by Boz Morning Chronicle, reporter Pickwick Papers Oliver Twist Nicholas Nickleby The Old Curiosity Shop Barnaby Rudge						
40 1842 41 1843 42 1843 43 1843-1844 44 1846 45 1846-1848 46 1849-1850 47 18505 48 1851-1853	American Notes Beginning of the Christmas Book series A Christmas Carol Martin Chuzzlewit Editor of Daily News Dombey and Son David Copperfield Household Words, a magazine A Child's History of England						
Row=1 Column=1	Total Rows=60 Wrap Text=Off Insert=On						

- Open / editing of multiple files
- Builtin XML Viewer, Wrap Text
- Recent File List
- Cut, Copy, Paste, Find and Find Next
- Save, Save As and Print

The following shows the Text Editor's builtin XML Viewer.



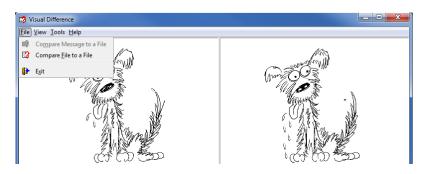
5.5 Visual Difference

This section will describe how to invoke and use the Visual Difference tool. The Visual Difference is a simple file to file comparison tool.

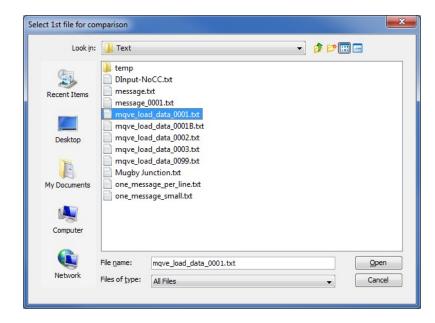
For the Other Tools, you can have unlimited number of them running (up to what your box can support). Also, while any of the Other Tools are running, the user can still use MQSSX-GUI.

From the main panel of MQSSX-GUI, select Tools, then Visual Difference.

This is the main panel of the Visual Difference. To initiate the file comparison process, click File and then click Compare File to File



First the user needs to select the first file for the comparison.



Next, the user needs to select the second file for the comparison.

Look in:	🚺 Text		- 🖠 🔊 🚺						
Recent Items	b temp DInput-N message message	txt							
Desktop	mqve_loa	ad_data_0001.txt ad_data_0001B.txt ad_data_0002.txt ad_data_0003.txt							
My Documents	mqve_loa	mqve_load_data_0003.bt mqve_load_data_0099.bt mqve_load_data_0099.bt one_message_per_line.bt one_message_ser_line.bt one_message_ser_line.bt							
Computer									
	File <u>n</u> ame:	mqve_load_data_0001B.txt		<u>O</u> pen					
Network	Files of type:	All Files	1	Cancel					

The following shows the difference between 2 files. Differences are highlighted: Green for inserts, Red for deletions and Blue for changes.

😰 Visual Difference	
File View Tools Help	
E:\TestData\Text\mqve_load_data_0001.txt	E:\TestData\Text\mqve_load_data_0001B.txt
000: Charles John Huffham Dickens, 1812-1870	000: Charles John Huffham Dickens, 1812-1870
001:	001:
002: Charles Dickens led a very active life, always se	002: Charles Dickens led a very active life, always se
003: full schedule for himself which he pursued with e	003: full schedule for himself which he pursued with e
004: energy. In addition to working on his nov	004: energy. In addition to working on his novel
005: journalism and public readings, he produced and a	005: journalism and public readings, he produced and a
006: numerous amateur theatrical productions and had a	006: numerous amateur theatrical productions and had a
007: social life. He had a wide circle of frie	007: social life He had a wide circle of fr
008: family and was admired by such different people a	008: family and was admired by such different people a
009: Victoria and Dostoevsky. He also was active in s	009: Victoria and Dostoevsky. He also was active in s
010: charitable organizations. Ironically, for relaxa	010: charitable organizations. Ironically, for relaxa
011: would walk long distances at a fast pace.	011: would walk long distances at a fast pace.
012:	012:
013: Although he had a flamboyant and high-spirited pe	013: This is a test.
014: his novels show a distinctive blend of comedy and	014:
015: that probably stems in part from his own life exp	015: Although he had a flamboyant and high-spirited pe
016: For example, his father was imprisoned for indebt	016: his novels show a distinctive blend of comedy and
017: Charles was only 12. Because of their impoverish	017: that probably stems in part from his own life exp
018: situation, his whole family was forced to move in	018: For example, his father was imprisoned for indebt
019: debtor's prison and Charles was sent to work in a	019: Charles was only 12. Because of their impoverish
020: warehouse.	020: situation, his whole family was forced to move in
021:	021: debtor's prison and Charles was sent to work in a
022: In later years, his busy schedule began to	022: warehouse.
023: health. After an exhausting tour of public	023:
024: America, Dickens was left physically weake	
025: public readings on his return to England e	
026: not fully recovered. The result was that	
027: while working on his novel, Edwin Drood, D 028: stroke. He was buried in the Poet's Corne	
029: Abbey.	
029: Abbey. 030:	
031: 1833 Reporter of parliamentary	
032: 1833-1835 Sketches by Boz	
033: 1834 Morning Chronicle. reporte	
	۰ III ۲

5.6 XML Editor

This section will describe how to invoke and use the XML Editor tool. The XML Editor is a simple multipurpose plain-text editor. The XML Editor supports multi-file editing.

For the Other Tools, you can have unlimited number of them running (up to what your box can support). Also, while any of the Other Tools are running, the user can still use MQSSX-GUI.

From the main panel of MQSSX-GUI, select Tools, then XML Editor.

This is the main panel of the XML Editor and it has 3 open files.

χ E:\TestData\XML\book-order2.xml		
<u>File Edit View Tools H</u> elp		
🖆 🔚 📫 🗊 🏘 🤻 🗞 🗙 🖉	ti 🗄 📑	
book-order2.xml × message_0001.xml × mess	sage_0004.xml 🗙	- 🗖
⊡ €} Order	Attribute	Value
	xmlns	http://www.example.co
i → ✓> Name Bill Buckram		
234 234 234 234		
→ ♦ Manifest		
i international		
209		
⊡<> Title		
Duke: A Biography of the Java Evangeli		
Quantity		
\$10.75		
□ → Item		
208		
Title		
100% Pure: Making Cross Platform Depl		
Quantity		
□ 1 □ ↔ UnitPrice		
\$10.75		
Item		
Title		
Making the Transition from C++ to the :		
⊖ <> Quantity		
□ 1 □ ↓ UnitPrice		

- Open / editing of multiple files
- Recent File List
- Copy, Find and Find Next
- Save, Save As and Print

6 Miscellaneous

This chapter will describes how the miscellaneous features of MQSSX-GUI.

6.1 Language

This section will describe how to switch MQSSX-GUI's Language Text to another Language Text. MQSSX-GUI has been designed to support Java's multi-language environment. Currently, MQSSX-GUI has language support (menu items, buttons and titles) for the following 55 languages:

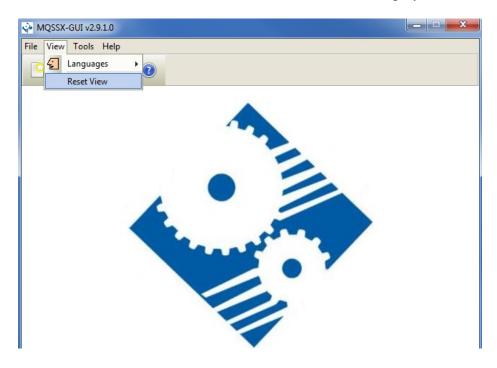
Amharic (am)	Hungarian (hu)	Shona (sn)
Arabic (ar)	Igbo (ig)	Sindhi (sd)
> Azerbaijani (az)	Indonesian (in)	Spanish (es)
Bengali (bn)	Italian (it)	Sundanese (su)
Cebuano (ceb)	Japanese (ja)	Swahili (sw)
Chinese (China) (zh)	Javanese jv)	Swedish (sv)
Chinese (Taiwan) (zh)	Kannada (kn)	Tamil (ta)
Czech (cs)	Korean (ko)	Telugu (te)
Danish (da)	Malay (ms)	Thai (th)
Dutch (nl)	Malayalam (ml)	Turkish (tr)
English (en)	Marathi (mr)	Vkrainian (uk)
Finnish (fi)	Norwegian (no)	Urdu (ur)
French (fr)	Panjabi (pa)	Uzbek (uz)
German (de)	Pashto (ps)	Vietnamese (vi)
Greek (el)	Persian (fa)	Xhosa (xh)
➢ Gujarati (gu)	Polish (pl)	Yoruba (yo)
Hausa (ha)	Portuguese (pt)	Zulu (zu)
Hebrew (iw)	Romanian (ro)	
Hindi (hi)	Russian (ru)	

From the main panel of MQSSX-GUI, select View, then Language.

MQSSX-GUI v2.9.1.0			
File View Tools Help			
✓ Languages ▶ Reset View	African Languages Eastern Languages East Asia Languages Middle East Languages	• • •	
	Western Languages		Czech (Czech Republic) Danish (Denmark) Dutch (Netherlands) English English (Canada) English (United Kingdom) English (United States) Finnish (Finland) French French (Canada)

6.2 Reset View

This section will describe how to reset the view of MQSSX-GUI if the display is not correct.



The user can also reset the view from the command line by passing in the *RG* parameter.

6.2.1 Windows Command Line

On Windows, issue the following command to reset the view of MQSSX-GUI:

mqssxgui.exe RG

6.2.2 Linux and macOS Command Line

On Linux and macOS, issue the following command to reset the view of MQSSX-GUI:

./mqssxgui.sh RG

7 Appendix A – Frequently Asked Questions (FAQ)

Q. Can IniFiles be create on Windows for MQSSX on Unix?A. Yes. Once the IniFile has been saved, the user can copy or ftp (in ASCII mode) the file to the remote server.

8 Appendix B – MQSSX-GUI Upgrade Procedures

To upgrade an existing installation of MQSSX-GUI, please do the following in the appropriate section below.

8.1 Windows Upgrade

- > Stop all instances of MQSSX-GUI
- > Backup any MQSSX-GUI data files in the MQSSX-GUI install directory
- > Go to the Windows Control Panel and select Program and Features
- > Select MQSSX-GUI and then click the Uninstall button
- > Run the install program called: **mqssxgui-setup-withjre.exe**
- The installer follows the standard Windows install procedures and provides default values for the user.
- When the install program has completed execution, there will be a newly created folder under Start -> All Programs called MQSSX-GUI.
- Restore the MQSSX-GUI data files if necessary
- > To run MQSSX-GUI, select the MQSSX-GUI icon from within the MQSSX-GUI folder.

8.2 Linux or macOS Upgrade

- Stop all instances of MQSSX-GUI
- Backup any MQSSX-GUI data files in the MQSSX-GUI install directory
- Remove the installation i.e. rm -Rf Capitalware/MQSSX-GUI/
- > Unzip the file, open a shell prompt and execute the following commands:

unzip mqssxgui.zip

> When the unzip command has finished, there should be a directory tree as follows:

Capitalware/MQSSX-GUI

> Change directory by typing the following:

cd Capitalware/MQSSX-GUI

Before running MQSSX-GUI for the first time, you need to add the execute attribute to the mqssxgui.sh shell scripts. Type the following:

chmod +x mqssxgui.sh

> To run MQSSX-GUI from the Capitalware/MQSSX-GUI directory, then type the following:

./mqssxgui.sh

9 Appendix B – Support

The support for MQSSX-GUI can be found at the following location:

By email at:

support@capitalware.com

By regular mail at:

Capitalware Inc. Attn: MQSSX-GUI Support Unit 11, 1673 Richmond Street, PMB524 London, Ontario N6G2N3 Canada

10 Appendix C – Summary of Changes

- > MQSSX-GUI v2.9.3
 - Fixed an issue with 'AllowBlankUserId' on the UserId tab
 - Fixed an issue with the Move Up & Move Down buttons on the UserId tab
- MQSSX-GUI v2.9.2
 - Added the 'Recent Files' menu option under the File menu option.
 - Added images to buttons for more user-friendly display.
 - Added support for 55 languages for the menu options, buttons and titles (not IniFile keywords).
 - Added the 'Reset View' menu option under the View menu option.
 - Added 6 tools under the Tools menu option:
 - Compare File to a File
 - Hex Converter
 - Hex Editor
 - Tail File
 - Text Editor
 - XML Editor
- MQSSX-GUI v2.9.0
 - Added support single or double quote on log message (new keyword: LogMessageQuote)
- MQSSX-GUI v2.7.0
 - Added support log disconnect message (new keyword: LogDiscMessage)
 - Added support single or double quotes for log message (new keyword: LogMessageQuote)
- MQSSX-GUI v2.6.0
 - Ability to monitor for excessive client connections (ECC) and then generate an alert (new keywords: UseECC, ECCWarnCount & ECCInterval)
- MQSSX-GUI v2.5.2
 - Added new CheckFinalUserID keyword. It will take the final UserID and reprocess it against UseAllowUserID, AllowUserID, UseRejectUserID, RejectUserID and Allowmqm keywords.
- MQSSX-GUI v2.5.1
 - Added UseMCCRedo flag to control MCCRedoCount, MCCRedoMinutes and MCCGetTimeOut
 - Added UserIDFormatting flag to force lowercase/uppercase/as_is UserID formatting on all platforms
- MQSSX-GUI v2.5.0

- Major layout of change
- Added new keywords: SystemLogMessage, UseGroups, Groups, UseGroupFile, GroupFile, UseAllowHostByName, AllowHostByName, UseRejectHostByName and RejectHostByName
- MQSSX-GUI v2.2.5
 - Updated the layout of tabs
 - Added new keywords: UseAllowHostname, AllowHostname, UseRejectHostname and RejectHostname
- ► MQSSX-GUI v2.2
 - Updated the layout of tabs
 - Added new keywords: LicenseFile, UseSSLCertUserID, AllowSSLSSCert, UseSSLUserIDFromDN, SSLDNAttrName, SSLDNAttrStartPos, SSLDNAttrLength, UseAllowSSLDN, AllowSSLDN, UseRejectSSLDN and RejectSSLDN
- > MQSSX-GUI v2.0
 - Updated the layout of tabs
 - Added new keywords: BackupLogFileCount, UseRejectIP, RejectIP, UseRejectUserID, RejectUserID and MCCGetTimeOut
- MQSSX-GUI v1.2.5
 - Added new keywords: RotateLogDaily, WriteToEventQueue, EventQueueName and MCCEventWarnLevel
- ► MQSSX-GUI v1.2
 - Updated default values for keywords.
- MQSSX-GUI v1.1
 - Updated keyword display.
- ► MQSSX-GUI v1.0
 - Initial release.

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