

MQAUSX-GUI

User Guide

The screenshot shows the MQAUSX-GUI configuration window with the following settings:

- General** (selected tab): License, LicenseFile, Description, NoAuth (No)
- Logging**: LogMode (Normal), LogFile (C:\Capitalware\MQAUSX\mqausx.log), RotateLogDaily (Yes, BackupLogFileCount: 9), WriteToSystemLog (No), WriteToEventQueue (No, EventQueueName: SYSTEM.ADMIN.CHANNEL.EVENT)
- Authentication**: UseCDC (No), UseQAS (No), UseAuthOrder (No, AuthOrder:)
- Server Name**: UseServerName (No, ServerName:), AllowUserAlterServerName (No)



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1 Introduction

1.1 Overview

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

MQ Authenticate User Security Exit (MQAUSX) is a solution that allows a company to fully authenticate a user who is accessing a WebSphere MQ resource. It verifies the User's UserID and Password (and possibly Domain Name) against the server's native OS system (or domain controller) or a remote LDAP server.

MQAUSX will operate with WebSphere MQ v5.3, v6.0 or v7.0 (and MQSeries v5.2) in Windows, iSeries (OS/400), Unix and Linux environments. It works with Server Connection, Client Connection, Sender, Receiver, Server, Requestor, Cluster-Sender and Cluster-Receiver channels of WebSphere MQ queue manager.

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

MQAUSX-GUI can run on any platform that supports Java v1.5 (or higher). This includes: AIX, HP-UX, Linux, Mac OS X, OS/2 Warp, Sun Solaris and Windows NT/2000/XP/Vista/7.

2 Installation

This chapter will describe the installation and configuration (optional) of MQAUSX-GUI. For Windows users, the installation of MQAUSX-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 MQAUSX-GUI application.

2.2 Software

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

- Java Runtime Environment (JRE) 1.5 (or higher) or Java 2 SDK, Standard Edition (J2SE) v1.5 (or higher)

2.3 Hardware / OS

MQAUSX-GUI is capable of running on the following hardware platforms that support Java v1.5 (or higher):

- AIX
- HP-UX
- Linux
- Mac OS X
- OS/2 Warp
- Sun Solaris
- Windows NT/2000/XP/Vista/7

2.4 Setting Up and Running the Application

The following section provides instructions on installing and running the MQAUSX-GUI application:

2.4.1 Windows Users Only with the embedded JRE:

- MQAUSX-GUI can be installed with an embedded JRE (Sun J2SE v1.6.0) by running the install program called: **mqausxgui-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 -> Program Files** called **MQAUSX-GUI**.
- To run **MQAUSX-GUI**, select the **MQAUSX-GUI** icon from within the **MQAUSX-GUI** folder.

2.4.2 Windows Users Only:

- MQAUSX-GUI can be installed by running the install program called: **mqausxgui-setup.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 -> Program Files** called **MQAUSX-GUI**.
- To run **MQAUSX-GUI**, select the **MQAUSX-GUI** icon from within the **MQAUSX-GUI** folder.

2.4.3 Unix, Linux and Max OS X:

Or any Windows users would do not want to run the installer program.

- MQAUSX-GUI is provided as a zip file: **mqausxgui.zip**
- To unzip the file, open a shell prompt and execute the following commands:

```
unzip mqausxgui.zip
```

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

```
Capitalware/MQAUSX-GUI
```

- Change directory to **Capitalware/MQAUSX-GUI**

```
cd Capitalware/MQAUSX-GUI
```

- Before running MQAUSX-GUI for the first, you need to add the execute attribute to the mqausxgui.sh shell scripts. Do the following:

```
chmod +x mqausxgui.sh
```

- To run **MQAUSX-GUI** from the **Capitalware/MQAUSX-GUI** directory, for AIX, HP-UX, Linux, Mac OS X, and Solaris type the following:

```
./mqausxgui.sh
```

2.4.4 OS/2 or any Windows users would do not want to run the installer program:

- MQAUSX-GUI is provided as a zip file: **mqausxgui.zip**
- To unzip the file, open a shell prompt and execute the following commands:

```
unzip mqausxgui.zip
```

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

```
Capitalware/MQAUSX-GUI
```

- To run **MQAUSX-GUI**, do the following:
- Open Command Prompt window, and then type the command:

Change directory to **Capitalware\MQAUSX-GUI** and then execute the MQAUSX-GUI command:

On OS/2:

```
cd Capitalware\MQAUSX-GUI  
mqausxgui_os2.bat
```

On Windows:

```
cd Capitalware\MQAUSX-GUI  
mqausxgui.bat
```

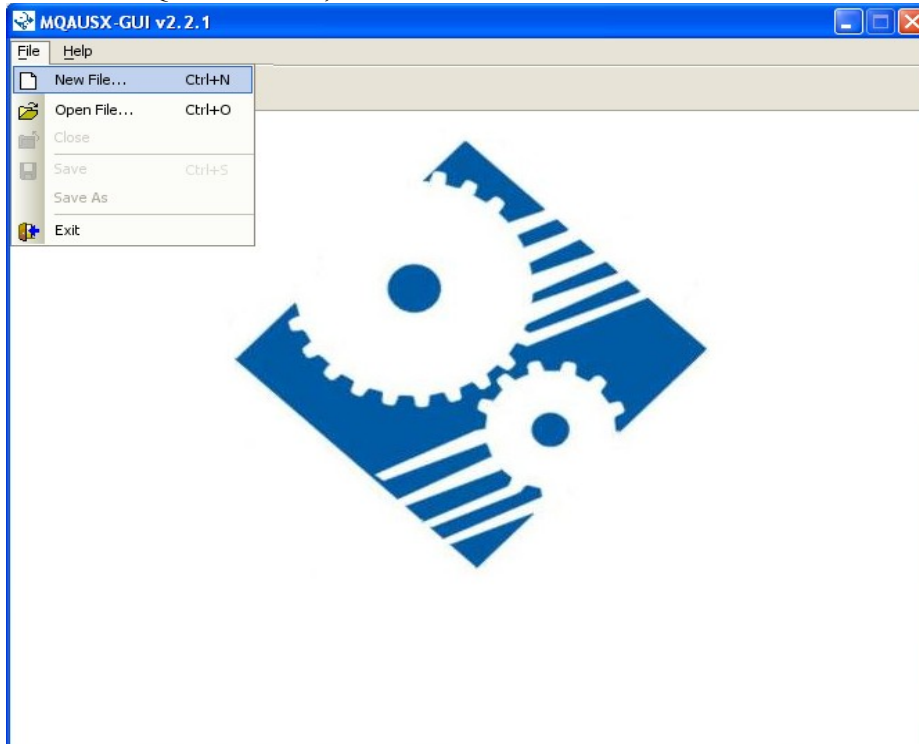
3 Creating / Updating IniFiles

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

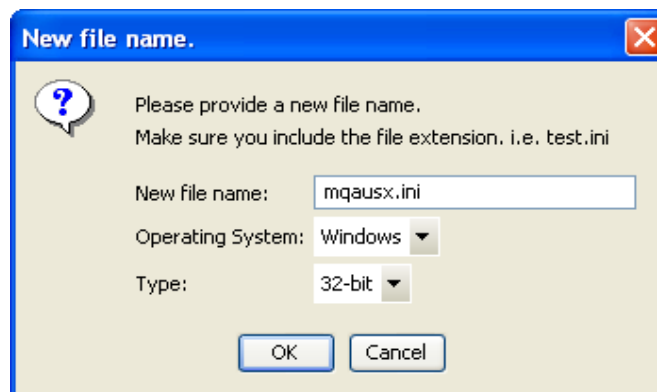
3.1 New IniFile

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

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



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 MQAUSX IniFile.

3.2 Open an IniFile

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

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



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

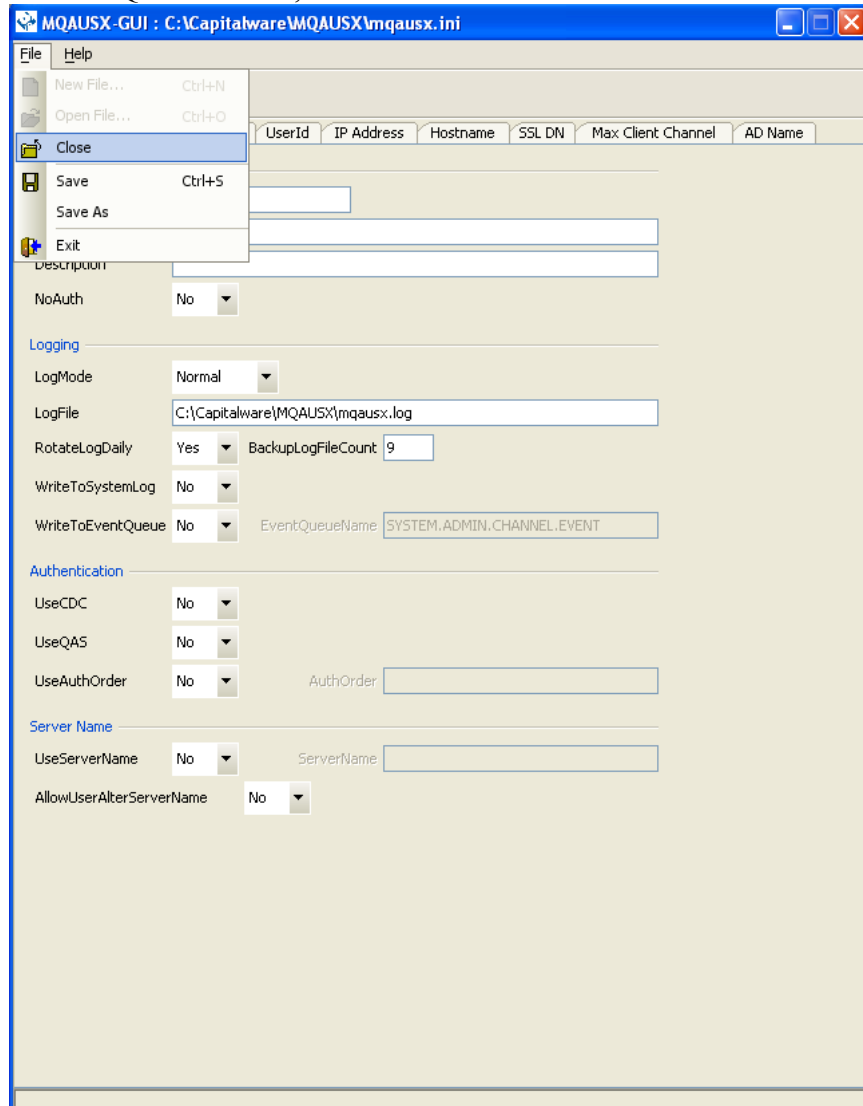


Select the IniFile that you wish to view / edit and then press the **Open** button.

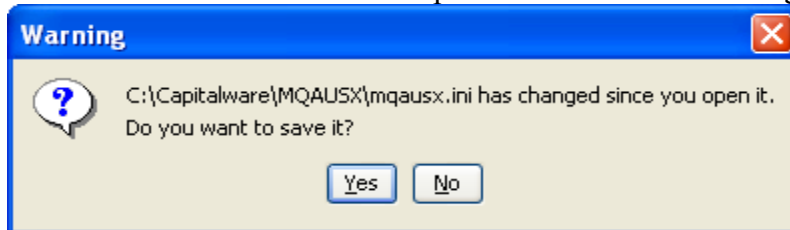
3.3 Close an IniFile

This section will describe how to close a MQAUSX IniFile.

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



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



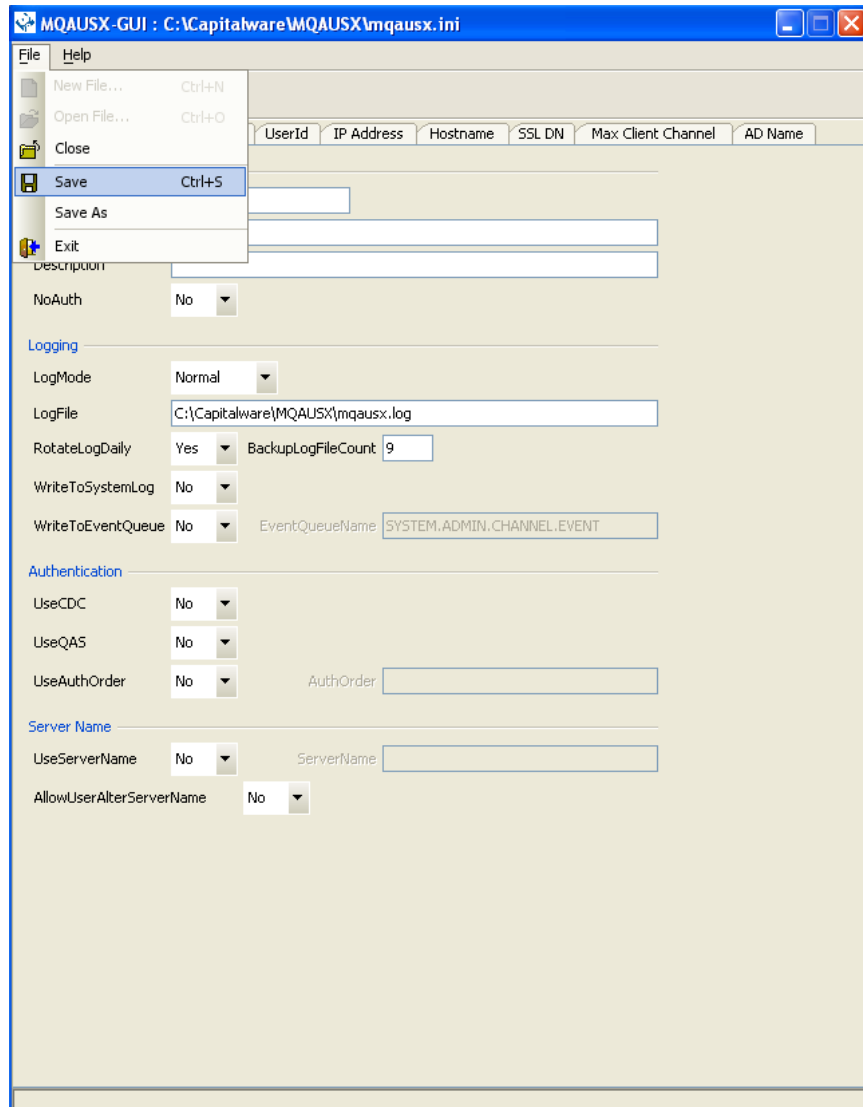
Select **Yes** to save the changes otherwise select **No**.

The MQAUSX-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 MQAUSX IniFile.

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



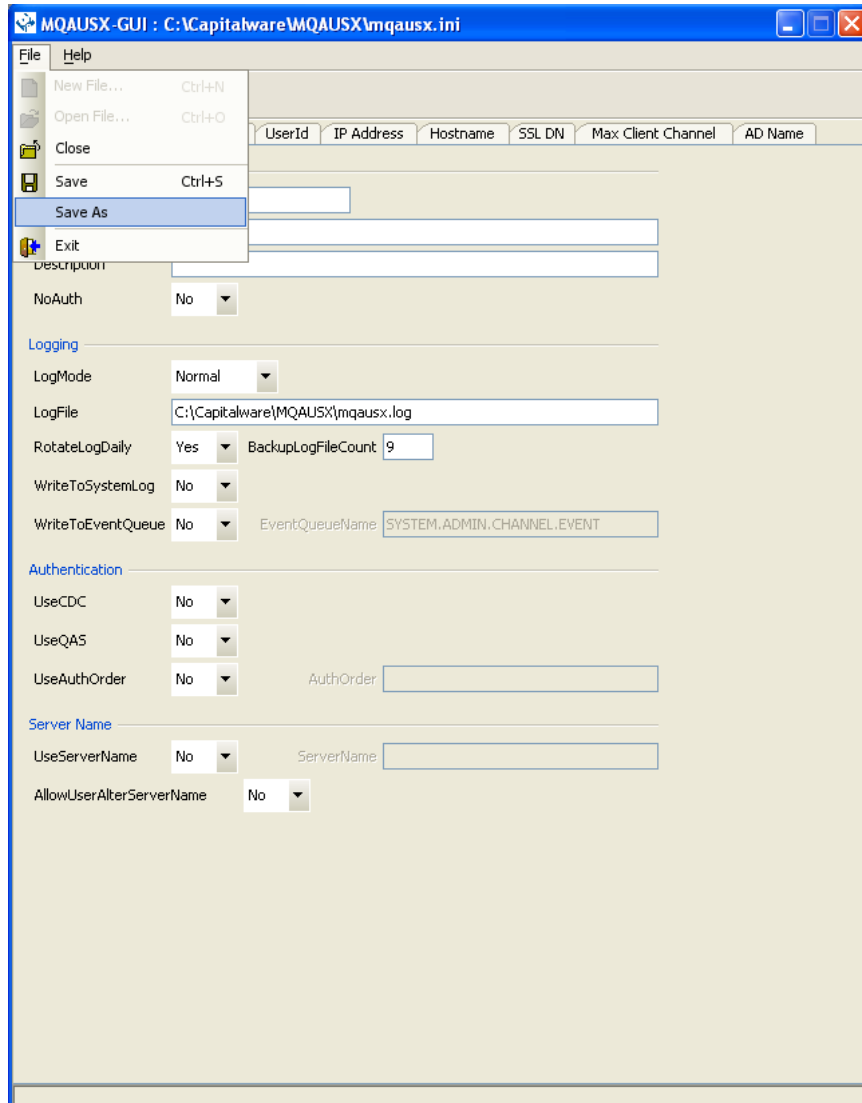
The parameter information will be saved to the IniFile.

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

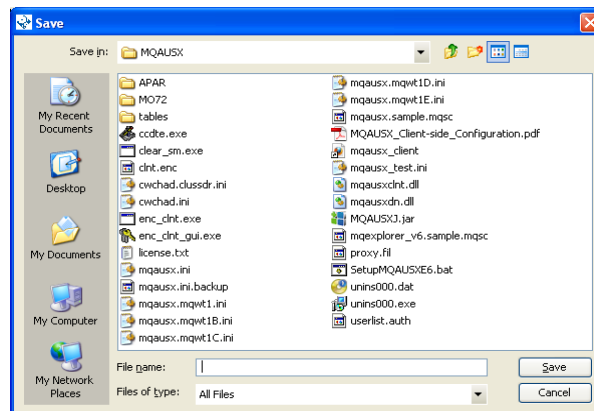
3.5 Save As IniFile

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

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



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



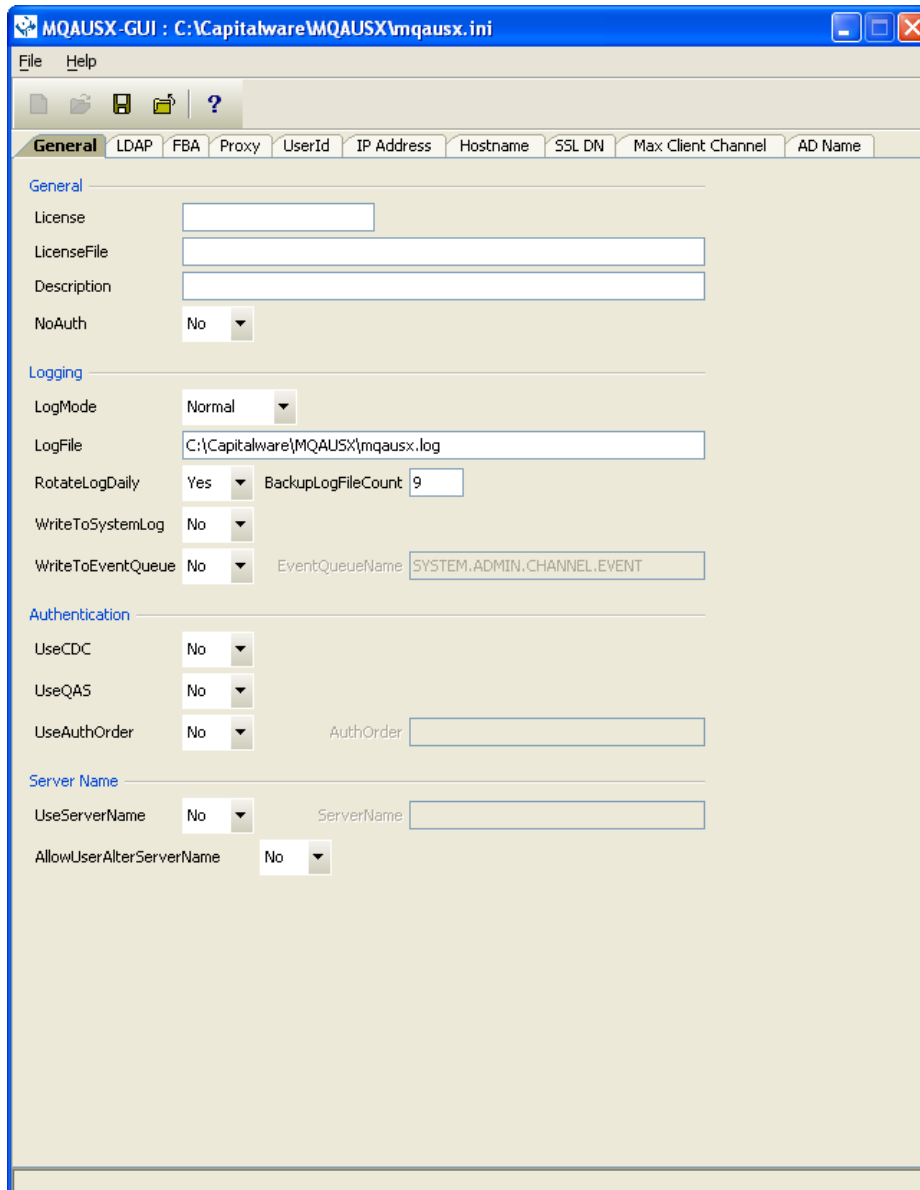
4 Tabs

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 MQAUSX IniFile.

The following is a General Tab with default values:



The screenshot shows the MQAUSX-GUI application window with the title bar "MQAUSX-GUI : C:\Capitalware\MQAUSX\mqausx.ini". The window has a menu bar with "File" and "Help", and a toolbar with icons for file operations and help. Below the toolbar is a tabbed interface with the following tabs: "General", "LDAP", "FBA", "Proxy", "UserId", "IP Address", "Hostname", "SSL DN", "Max Client Channel", and "AD Name". The "General" tab is selected and contains the following configuration sections:

- General**
 - License:
 - LicenseFile:
 - Description:
 - NoAuth:
- Logging**
 - LogMode:
 - LogFile:
 - RotateLogDaily: BackupLogFileCount:
 - WriteToSystemLog:
 - WriteToEventQueue: EventQueueName:
- Authentication**
 - UseCDC:
 - UseQAS:
 - UseAuthOrder: AuthOrder:
- Server Name**
 - UseServerName: ServerName:
 - AllowUserAlterServerName:

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 MQAUSX 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\MQAUSX\mqausx_licenses.ini
 - For WebSphere MQ v5.3 or v6.0 (32-bit) on Unix and Linux: /var/mqm/exits/mqausx_licenses.ini
 - For WebSphere MQ v6.0 (64-bit) on Unix and Linux: /var/mqm/exits64/mqausx_licenses.ini
 - For IBM i: /QIBM/UserData/mqm/mqausx/mqausx_licenses.ini
- **Description** parameter is optional and is not used by MQAUSX. It can be used to provide a brief description / purpose of the IniFile.
- **NoAuth** allows the MQ Administrator to disable authentication in the server-side security exit. *Be very careful when disabling authentication because the connecting user will not need a client-side security exit to make a valid connection to the channel.* This is controlled by the IniFile's property keyword 'NoAuth'. Setting 'NoAuth' to 'Y' (Yes) will disable server-side authentication.

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\MQAUSX\mqausx.log
 - For WebSphere MQ v5.3 or v6.0 (32-bit) on Unix and Linux: /var/mqm/exits/mqausx.log
 - For WebSphere MQ v6.0 (64-bit) on Unix and Linux: /var/mqm/exits64/mqausx.log
 - For IBM I: /QIBM/UserData/mqm/mqausx/mqausx.log
- **RotateLogDaily** specifies whether or not MQAUSX 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**.

- **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'.

4.1.3 Authentication Order

This section describes the necessary steps to enable UserId and Password against multiple authentication sources and the order in which these sources will be tested. Currently, MQAUSX supports 3 authentication sources: ldap, files and mqausx.

- **UseCDC** allows the company or MQ Admin to enable authentication against Centrifify's DirectControl
- **UseQAS** allows the company or MQ Admin to enable authentication against Quest's Authentication Services.
- **UseAuthOrder** allows the company or MQ Admin to select the order in which the authentication to security services will occur
- **AuthOrder** specifies which authentication method to be executed and the order of execution. AuthOrder supports the following 3 values:
 - *ldap* means the authentication will be against a LDAP server
 - *files* means the authentication will be against the local OS
 - *mqausx* means the authentication will be against MQAUSX formatted file (i.e. FBA).

Note: If more than one authentication method is specified for AuthOrder parameter then the authentication order will be from left to right.

4.1.4 ServerName

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

- **UseServerName** allows MQ Admin to designate a server name to this entity. UseServerName supports 2 values [Yes / No]. The default value is No.
- **ServerName** specifies a default server name for this entity. This value will be transmitted to the end-user. For a Windows Server, you may specify a domain name. The default is the server's hostname.
- **AllowUserAlterServerName** allows MQAUSX server-side component to accept user specified ServerName. AllowUserAlterServerName supports 2 values [Yes / No]. The default value is No.

4.2 LDAP Tab

This section will describe various parameters on the LDAP tab of a MQAUSX IniFile.

The following is the LDAP Tab with sample values:

The screenshot shows the MQAUSX-GUI application window with the LDAP tab selected. The window title is "MQAUSX-GUI : C:\Capitalware\MQAUSX\mqausx.ini". The menu bar includes "File" and "Help". The toolbar contains icons for file operations and help. The tab bar shows "General", "LDAP", "FBA", "Proxy", "UserId", "IP Address", "Hostname", "SSL DN", "Max Client Channel", and "AD Name".

The LDAP configuration section includes the following parameters and values:

- LDAP**
 - UseLDAP: Yes
 - LDAPHost: ldap.capitalware.biz
 - LDAPPort: 389,555
 - LDAPTimeOut: 5
 - UseLDAPLoadBalance: Yes
 - LDAPBaseDN: CN=Users,DC=capitalware,DC=biz
 - UseLDAPBindDN: No
 - LDAPBindDN: (empty)
 - LDAPBindPwd: (empty)
- LDAP SSL**
 - UseLDAPSSL: No
 - UseLDAPSSLCert: No
 - SSLCertFileType: DER
 - SSLCertFileName: (empty)
 - SSLCertPwd: (empty)
- LDAP LoginDN Prefix**
 - UseLoginDNPrefix: No
 - LoginDNPrefix: (empty)
- LDAP ANR**
 - UseANRforLDAP: No
 - UseANRPrefix: No
 - ANRPrefix: (empty)
 - UseANRPostfix: No
 - ANRPostfix: (empty)
 - ExtractUserIDfromANR: No
 - UseANRDelimiter: No
 - ANRDelimiter: @
- LDAP Search**
 - UseLDAPSearch: No
 - LDAPSearchScope: LDAP_SCOPE_ONELEVEL
 - UseLDAPSearchBindDN: No
 - LDAPSearchBase: (empty)
 - LDAPSearchFilter: (empty)

The following are the IniFile parameters on the LDAP Tab:

4.2.1 LDAP

This section describes the necessary steps to enable 'LDAP Based Authentication'. By default, the server-side security exit will do UserId and Password (and Domain Name) against the native OS (Operating System). The company or MQ Administrator can choose to have authentication against a centralized LDAP server.

- **UseLDAP** allows the UserId and Password to be verified against a centralized LDAP server.
- **LDAPHost** specifies the hostname or IP address of the LDAP server.
- **LDAPPort** specifies the port number of the LDAP server (default value is 389).
- **UseLDAPLoadBalance** specifies that load balancing of LDAP servers is to be used. The LDAP server selection is based on a random number.
- **LDAPBaseDN** specifies the base DN / LDAP schema to be used when accessing the LDAP server. This keyword's value is not used when 'UseANRforLDAP' is set to Yes.
- **UseLDAPBindDN** allows for a particular LDAP UserId and Password to be specified to connect to the remote LDAP server which the authentication will take place with.
- **LDAPBindDN** specifies the bind DN UserID.
- **LDAPBindPwd** specifies the bind DN Password
- **UseLoginDNPrefix** allows the **LoginDN** to be built with a different prefix rather than CN. This keyword's value is not used when 'UseANRforLDAP' is set to Yes.
- **LoginDNPrefix** a value (i.e. UID) to be used as a prefix to the LoginDN. This keyword's value is not used when 'UseANRforLDAP' is set to Yes.

LDAP SSL

- **UseLDAPSSL** specifies that the connection to the LDAP server will be done via SSL.
- **UseLDAPSSLCert** specifies that a SSL certificate will verify the SSL connection.
- **SSLCertFileName** specifies the path and file name of the SSL certificate.
- **SSLCertPwd** specifies the Password for the SSL certificate (Netscape/Mozilla style)
- **SSLCertFileType** specifies the type of SSL certificate: DER or B64

Ambiguous Name Resolution (ANR)

- **UseANRforLDAP** allows the **LoginDN** to be replaced with an ANR value.
- **UseANRPrefix** tells MQAUSX to prefix a given string to the user's inputted UserId.
- **ANRPrefix** specifies the string to be prefixed to the user's inputted UserId.
- **UseANRPostfix** tells MQAUSX to postfix (append) a given string to the user's inputted UserId.
- **ANRPostfix** specifies the string to be postfixed (appended) to the user's inputted UserId.
- **ExtractUserIDFromANR** tells MQAUSX to strip off the UserId at the '@' symbol and set the connection with this UserId.
- **UseANRDelimiter** tells MQAUSX to strip off the UserId at a specific symbol rather than the '@' sign.
- **ANRDelimiter** tells MQAUSX what symbol to be used when stripping the UserId from the ANR value.

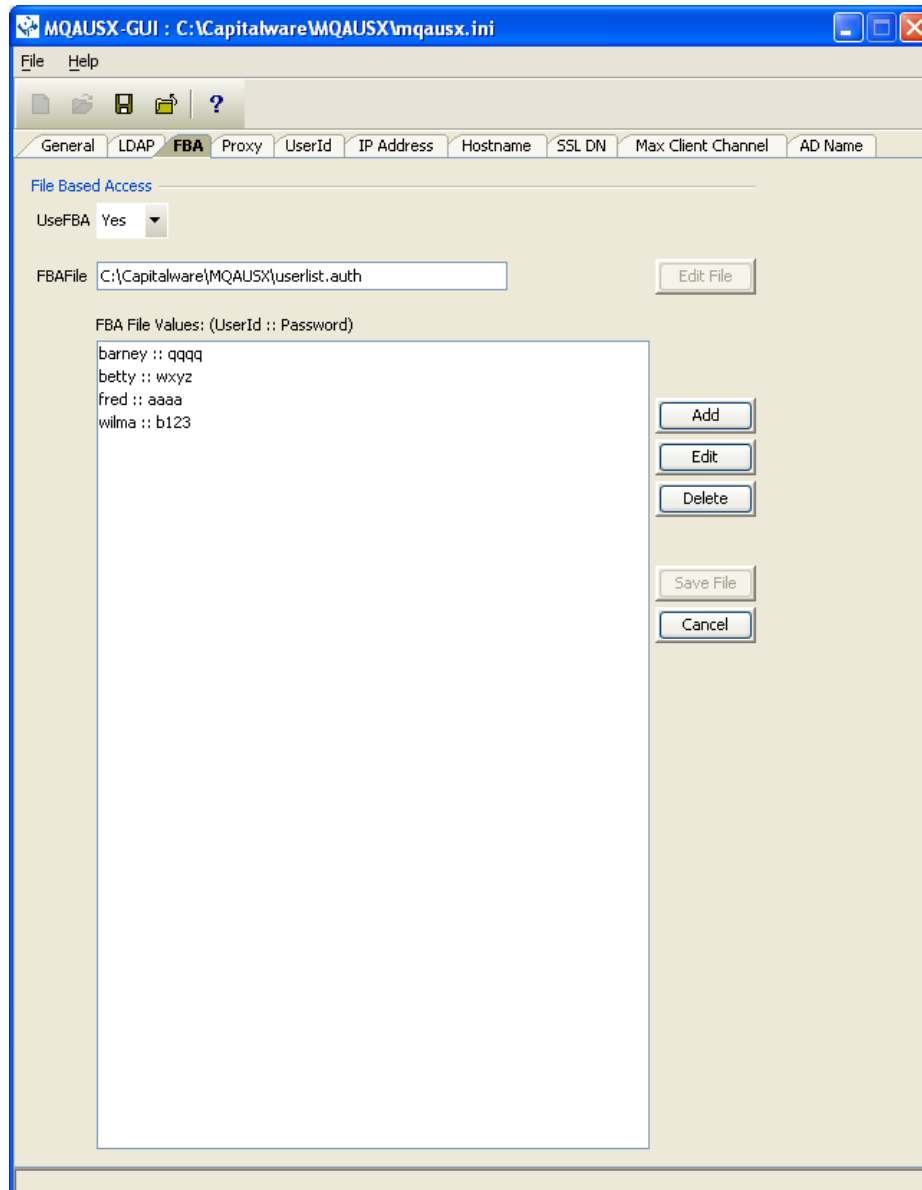
LDAP Search

- **UseLDAPSearch** specifies that LDAP Search be used for group verification
- **UseLDAPSearchBase** specifies a search base for the LDAP Search
- **UseLDAPSearchFilter** specifies a search filter for the LDAP Search
- **UseLDAPSearchScope** specifies a search scope for the LDAP Search.

4.3 FBA Tab

This section will describe various parameters on the FBA tab of a MQAUSX IniFile.

The following is the FBA Tab with sample values:



The following are the IniFile parameters on the FBA Tab:

4.3.1 File Based Authentication

This section describes the necessary steps to enable 'File Based Authentication' (FBA). By default, the server-side security exit will do UserId and Password (and Domain Name) against the native OS (Operating System). The company or MQ Administrator can choose to have authentication against a file-based look-up system.

4.3.1.1 Encrypted FBA

Encrypted File Based Authentication Configuration

It is strongly recommended that native OS authentication is used. To enable the encrypted server-side file-based authentication, 2 keywords are needed in the IniFile:

- **UseFBA** allows the UserId and Password to be verified against a file rather than the OS
- **FBAFile** specifies the file name and location of the encrypted FBA file to do the UserId and Password verification i.e. FBAFile=c:\fba.enc

4.3.1.2 Plain Text FBA

File Based Authentication Configuration

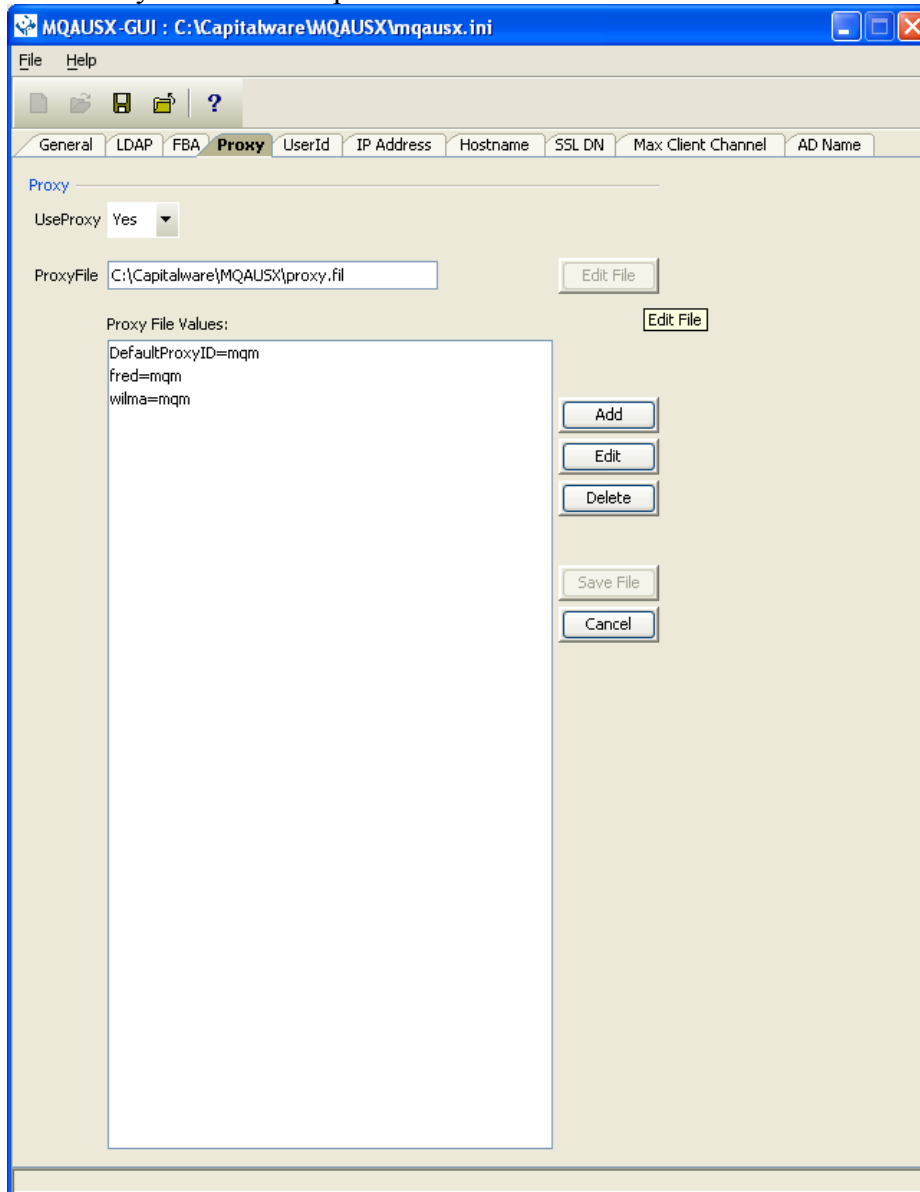
It is strongly recommends that you use native OS authentication. To enable the file-based authentication, you need 2 keywords in the IniFile:

- **UseFBA** allows the UserId and Password to be verified against a file rather than the OS
- **FBAFile** specifies the file name and location of the file to do the UserId and Password verification. i.e. FBAFile=c:\userlist.auth

4.4 Proxy Tab

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

The following is the Proxy Tab with sample values:



4.4.1 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.

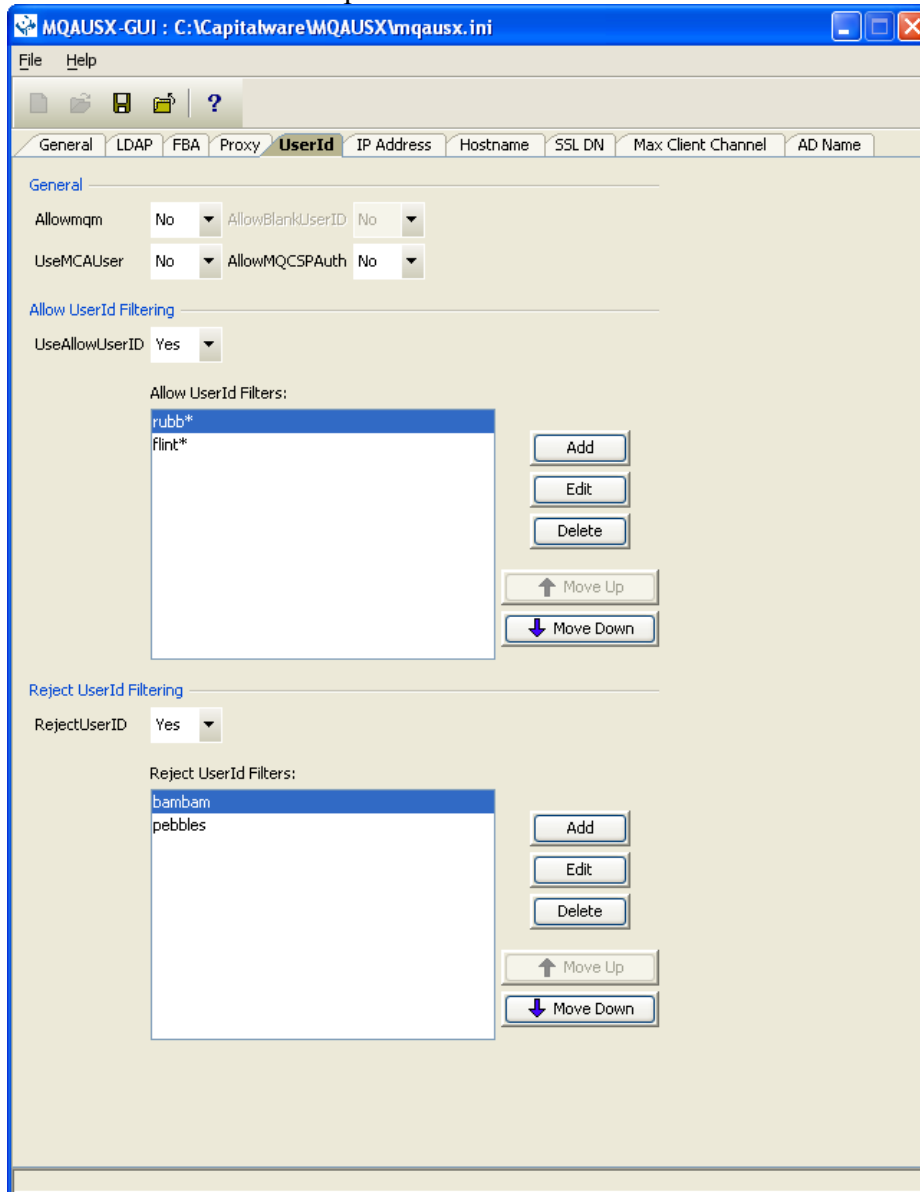
The following are the IniFile parameters on the Proxy Tab:

- **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.

4.5 UserId Tab

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

The following is the UserId Tab with sample values:



The following are the IniFile parameters on the UserId Tab:

4.5.1 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 parameter is only valid when 'NoAuth' is set to 'Yes'*. 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.
- **AllowMQCSPAuth** enables WebSphere MQ v6.0's new MQSCP security structure. Setting 'AllowMQCSPAuth' to 'Yes' will allow use of MQCSP.

4.5.2 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. This parameter is only valid when 'NoAuth' is set to 'Y'. 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.

4.5.3 Reject UserID

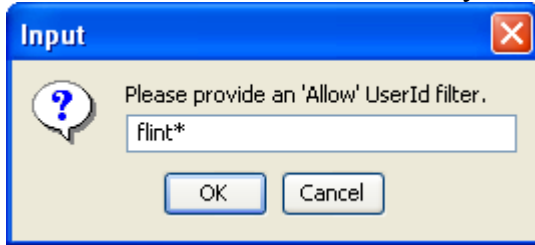
This section describes the necessary steps to explicitly reject an incoming UserID.

- **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.

4.5.4 Managing UserID Filtering

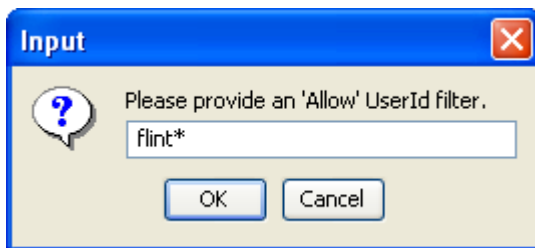
This section describes the necessary steps to manage UserID filtering entries.

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



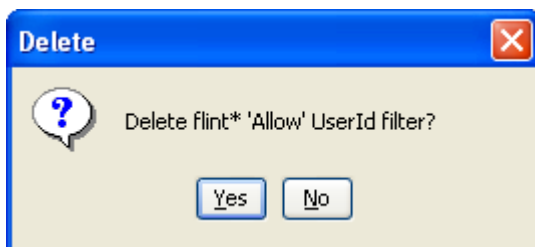
Input the UserID including wildcards and then click the **Ok** button.

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



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

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

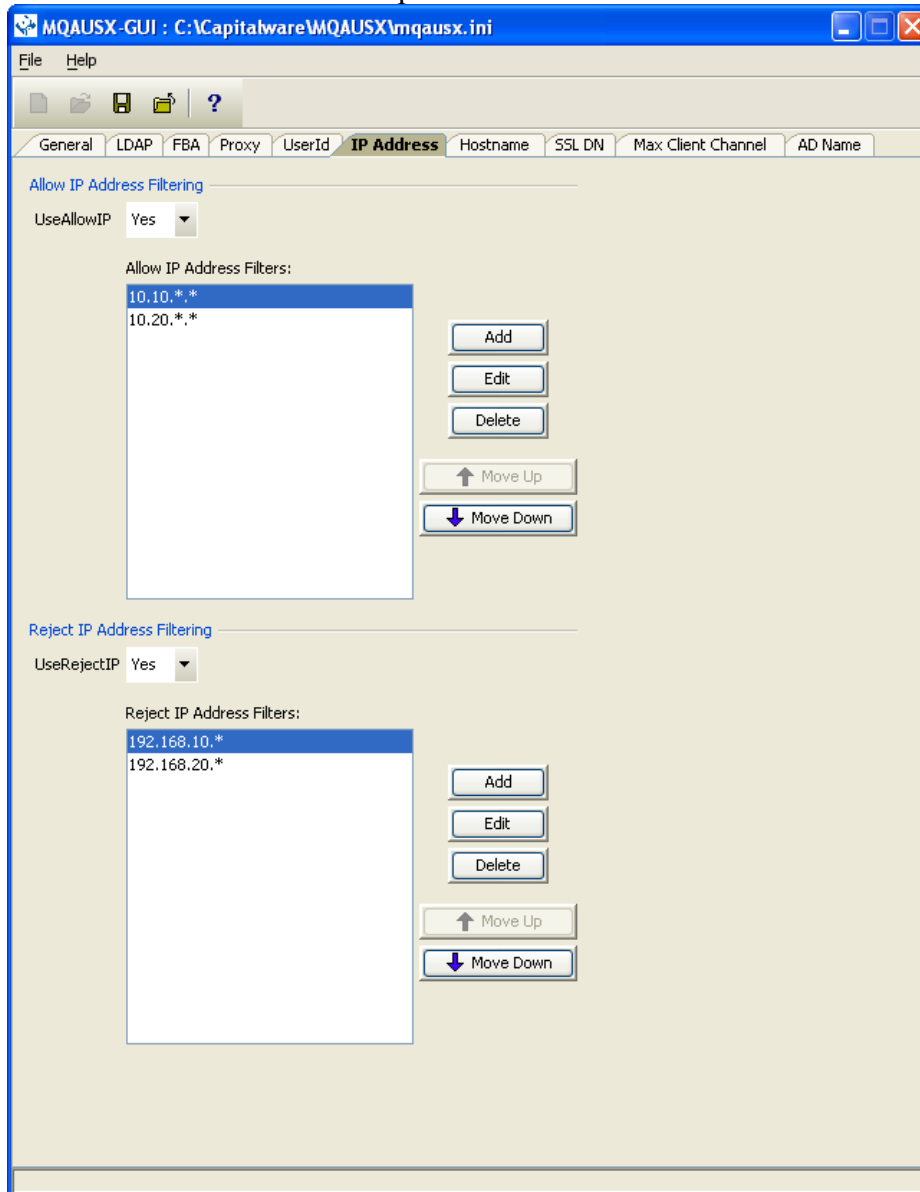


Click the **Yes** button to permanently remove the entry from the list.

4.6 IP Address Tab

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

The following is the IP Address Tab with sample values:



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

4.6.1 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.

4.6.2 Reject IP

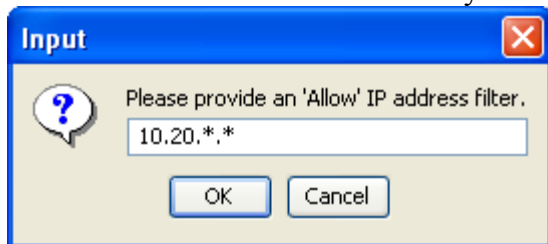
This section describes the necessary steps to explicitly reject an incoming IP address.

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

4.6.3 Managing IP Address Filtering

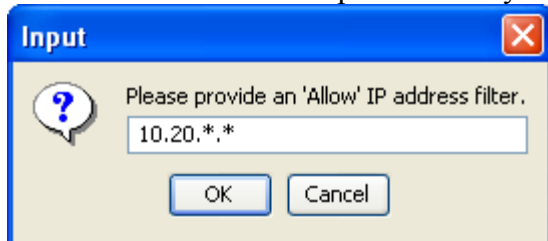
This section describes the necessary steps to manage IP address filtering entries.

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



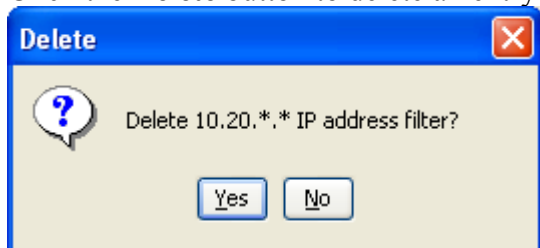
Input the IP Filter including wildcards and then click the **Ok** button.

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



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

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

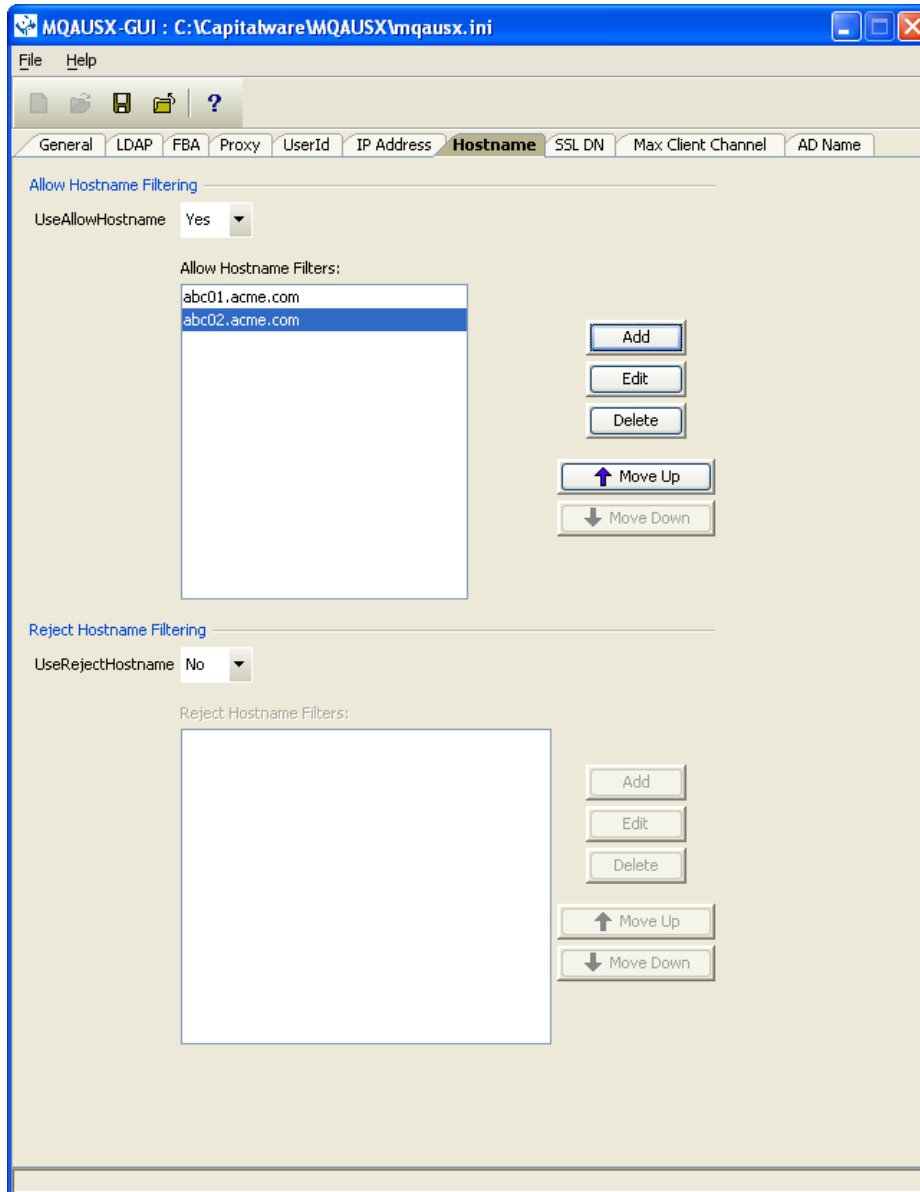


Click the **Yes** button to permanently remove the entry from the list.

4.7 Hostname Tab

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

The following is the Hostname Tab with default values:



The following are the IniFile parameters on the Hostname Tab:

4.7.1 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.

4.7.2 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.

4.7.3 Managing Hostname Filtering

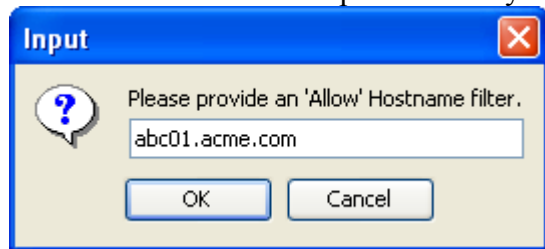
This section describes the necessary steps to manage Hostname filtering entries.

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



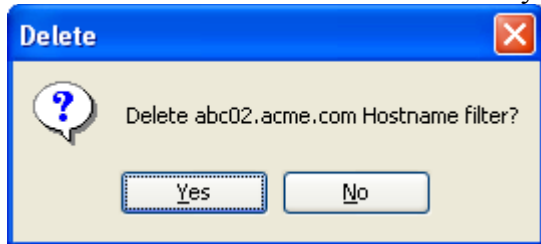
Input the Hostname Filter including wildcards and then click the **Ok** button.

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



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

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

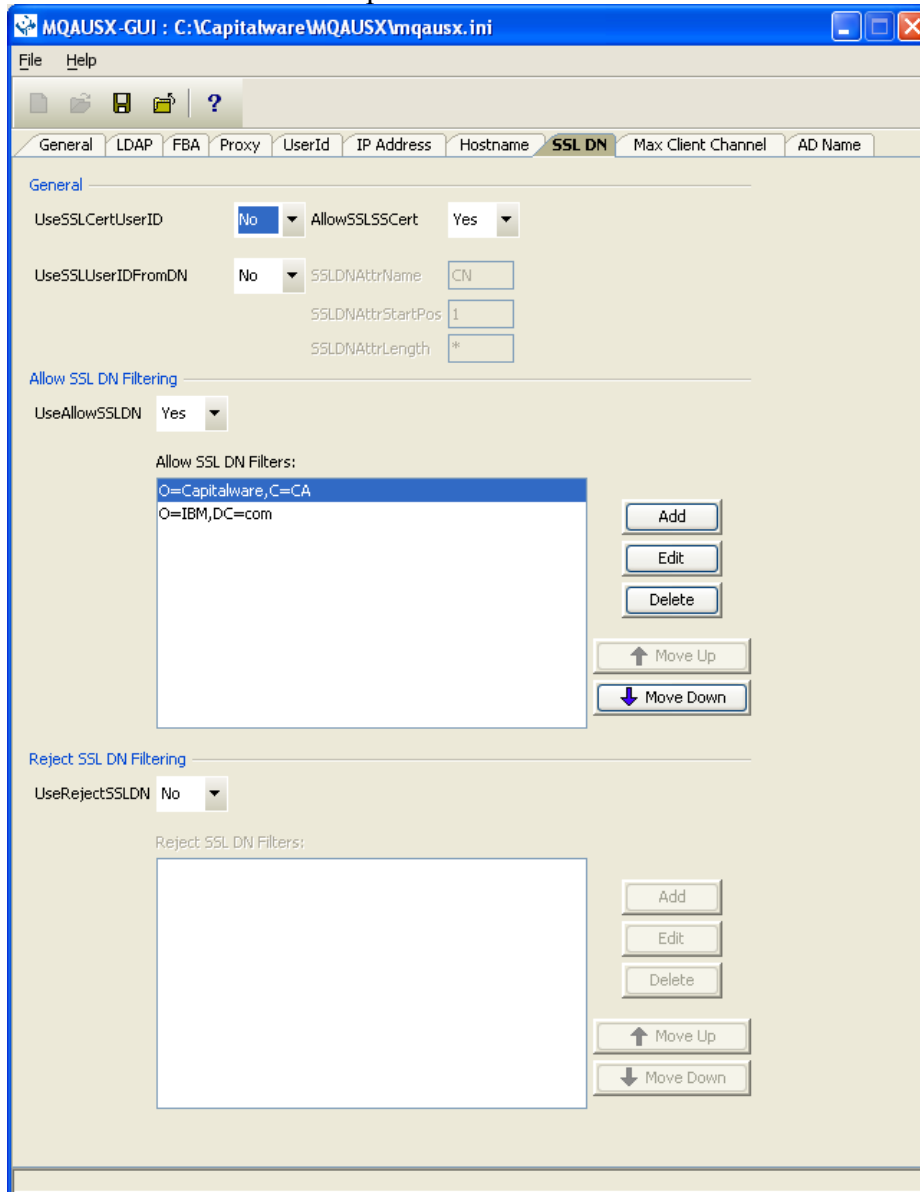


Click the **Yes** button to permanently remove the entry from the list.

4.8 SSL DN Tab

This section will describe various parameters on the SSL DN tab of a MQAUSX 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

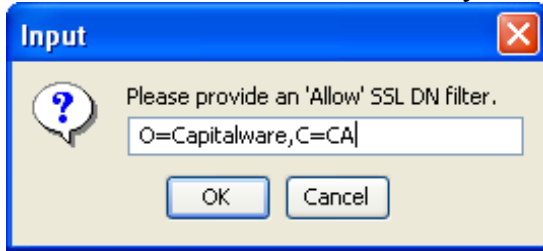
This section describes the necessary steps to explicitly reject an incoming SSL DN.

- **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

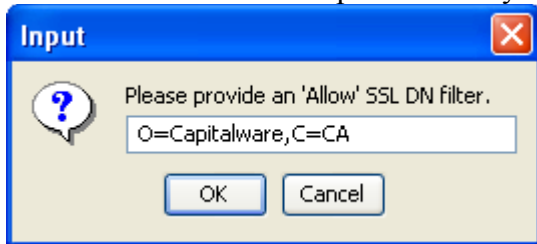
This section describes the necessary steps to manage SSL DN filtering entries.

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



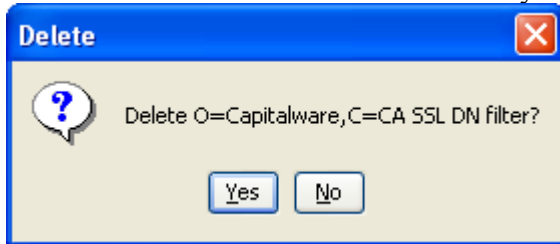
Input the SSL DN including wildcards and then click the **Ok** button.

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.

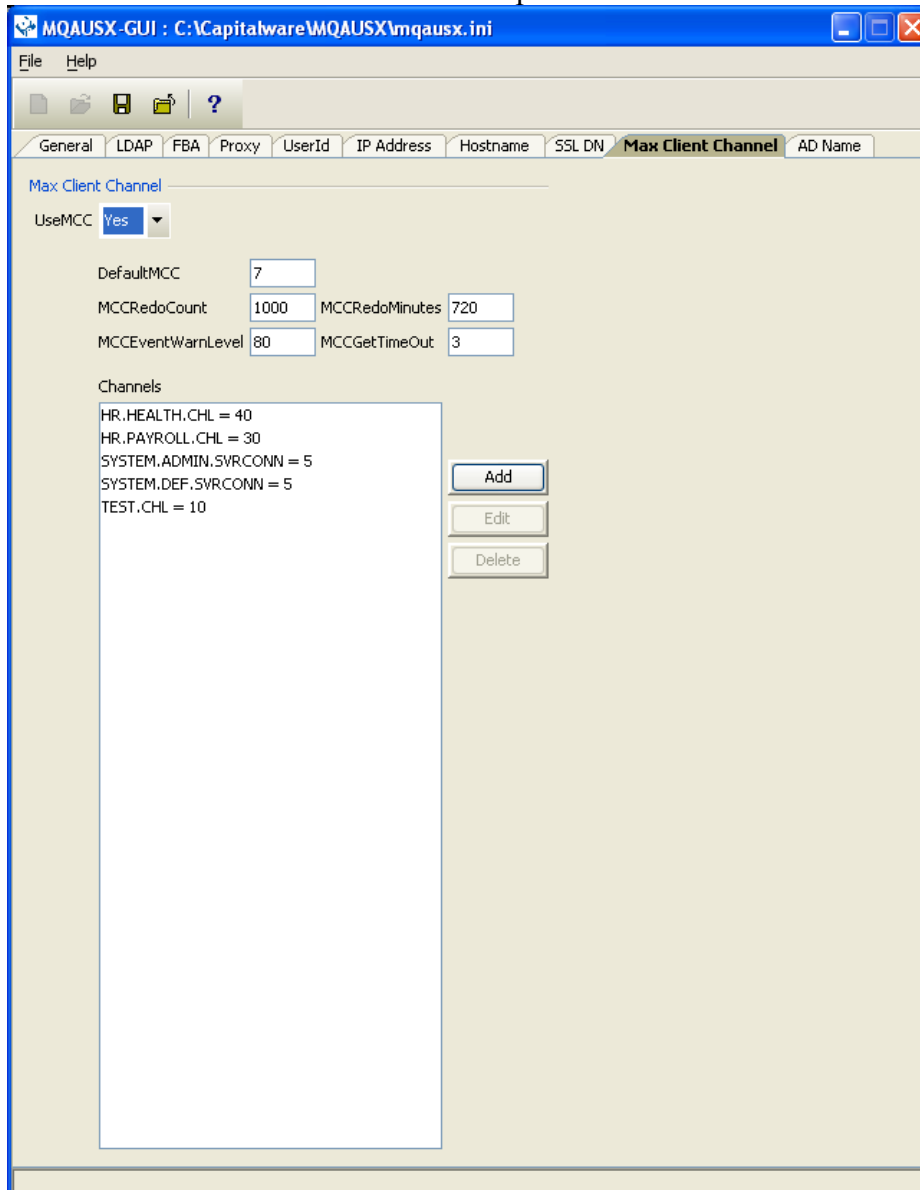


Click the **Yes** button to permanently remove the entry from the list.

4.9 Max Client Channel Tab

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

The following is the Max Client Channel Tab with sample 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.

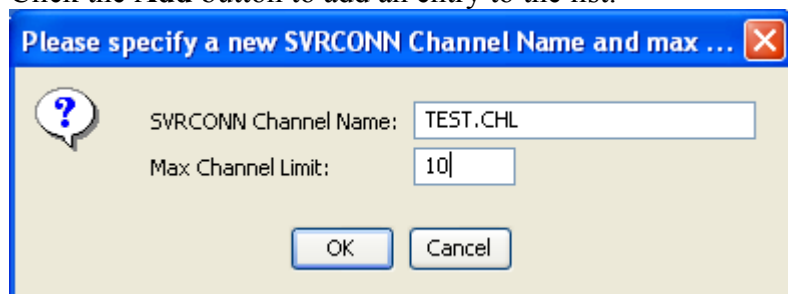
For example, if 'UseMCC' is set to 'Y' and the incoming connection is on 'SYSTEM.ADMIN.SVRCONN', the server-side security exit will look up in the IniFile the keyword of 'SYSTEM.ADMIN.SVRCONN'. If the 'SYSTEM.ADMIN.SVRCONN' keyword is not found, then the server-side security exit will look up 'DefaultMCC' keyword in the IniFile.

- **DefaultMCC** is the default maximum number of connections allowed for the channel.
- **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 1000.
- **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.
- **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

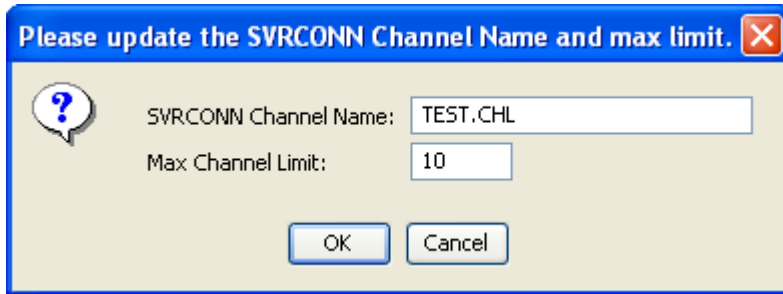
This section describes the necessary steps to manage the max. client channel entries.

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



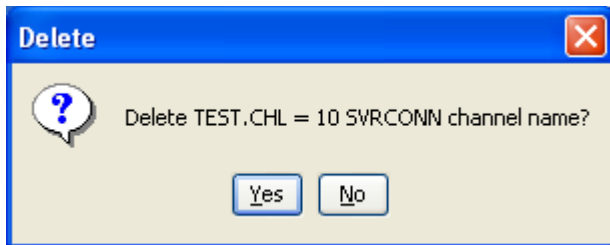
Input the channel name and the maximum number of connection to be allowed at any given time for this channel and then click the **Ok** button.

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



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.

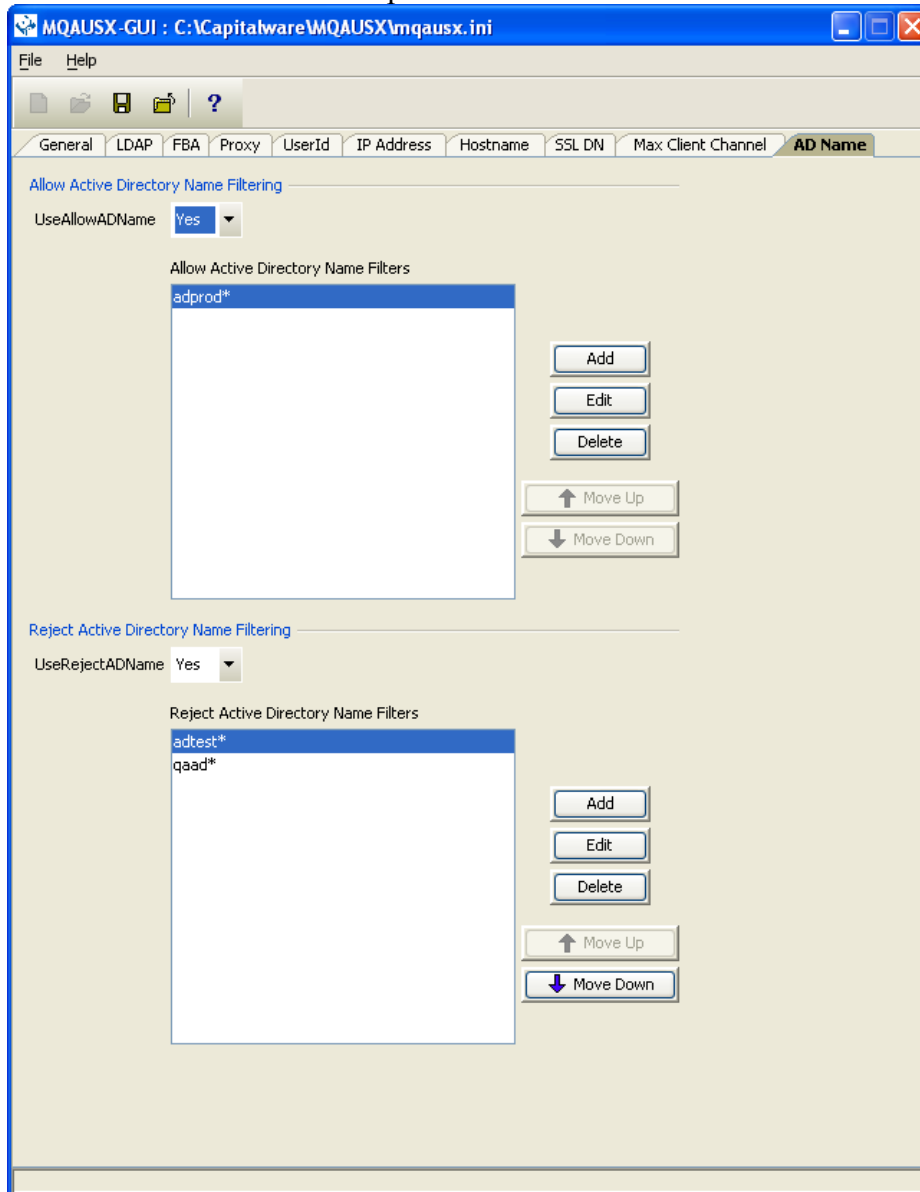


Click the **Yes** button to permanently remove the entry from the list.

4.10 AD Name Tab

This section will describe various parameters on the AD Name tab of a MQAUSX IniFile.

The following is the AD Name Tab with sample values:



The following are the IniFile parameters on the AD Name Tab:

4.10.1 Allow AD Name

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

- **UseAllowADName** to allow or restrict an incoming AD Name by using a regular expression pattern. This is controlled by the IniFile's property keyword 'UseAllowADName'. Setting 'UseAllowADName' to 'Yes' will cause the server-side security exit to look up the regular expression pattern from the 'AllowADName' property keyword.
- **AD Name Filters** is a list of AD Name s (with wildcards) that are allowed to connect to queue manager or particular channel.

4.10.2 Reject AD Name

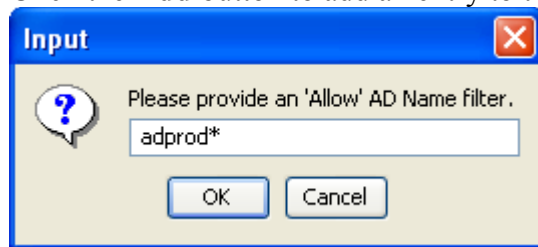
This section describes the necessary steps to explicitly reject an incoming AD Name.

- **UseRejectADName** to explicitly reject an incoming AD Name by using a regular expression pattern. This is controlled by the IniFile's property keyword 'UseAllowADName'. Setting 'UseAllowADName' to 'Yes' will cause the server-side security exit to look up the regular expression pattern from the 'AllowADName' property keyword.
- **AD Name Reject Filters** is a list of AD Name (with wildcards) that are allowed to connect to queue manager or particular channel.

4.10.3 Managing AD Name Filtering

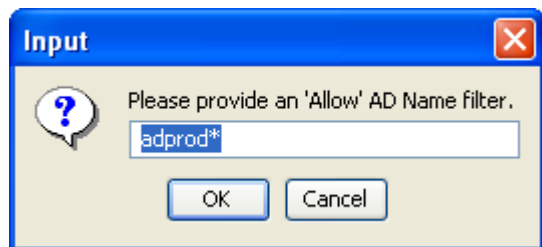
This section describes the necessary steps to manage AD Name filtering entries.

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



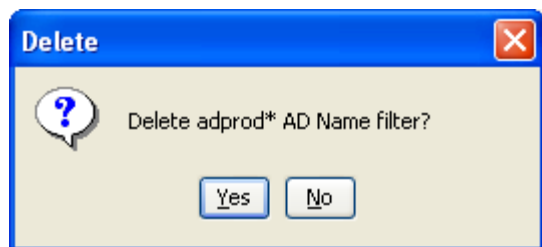
Input the AD Name including wildcards and then click the **Ok** button.

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



Update the AD Name including wildcards 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.

5 Appendix A – Frequently Asked Questions (FAQ)

Q. Can IniFiles be create on Windows for MQAUSX 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.

6 Appendix B – Support

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

Online Help Desk Ticketing System at

www.capitalware.biz/phpst/

By email at:

support@capitalware.biz

By regular mail at:

Capitalware Inc.
Attn: MQAUSX-GUI Support
1673 Richmond Street, Suite 524
London, Ontario N6G2N3
Canada

7 Appendix C – Summary of Changes

- MQAUSX-GUI v2.2.5
 - Updated the layout of tabs
 - Added new keywords: UseQAS, UseCDC and UseLDAPSearchBindDN
 - Added new keywords: UseAllowHostname, AllowHostname, UseRejectHostname and RejectHostname

- MQAUSX-GUI v2.2
 - Updated the layout of tabs
 - Added new keywords: LicenseFile, UseLDAPBindDN, LDAPBindDN, LDAPBindPwd, SSLCertPwd, UseSSLCertUserID, AllowSSLSSCert, UseSSLUserIDFromDN, SSLDNAttrName, SSLDNAttrStartPos, SSLDNAttrLength, UseAllowSSLDN, AllowSSLDN, UseRejectSSLDN and RejectSSLDN

- MQAUSX-GUI v2.1
 - Added new keywords: UseLDAPSearch, LDAPSearchBase, LDAPSearchFilter, LDAPSearchScope and AllowUserAlterServerName

- MQAUSX-GUI v2.0
 - Updated the layout of tabs
 - Added new keywords: BackupLogFileCount, UseLDAPLoadBalance, UseRejectIP, RejectIP, UseRejectUserID, RejectUserID, UseRejectADName, RejectADName and MCCGetTimeOut

- MQAUSX-GUI v1.2.5
 - Added new keywords: RotateLogDaily, WriteToEventQueue, EventQueueName, UseAllowADName, AllowADName, UseAllowUserID, AllowUserID and MCCEventWarnLevel

- MQAUSX-GUI v1.2
 - Updated default values for keywords.

- MQAUSX-GUI v1.1
 - Updated keyword display.

- MQAUSX-GUI v1.0
 - Initial release.

8 Appendix D – License Agreement

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9 Appendix E – Notices

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