

Overview

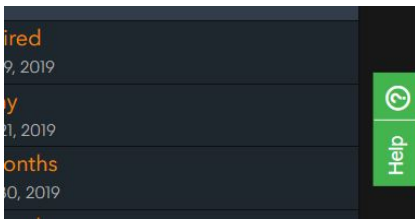
Bloomberg provides clients with FIX connectivity to facilitate the secure communication of potentially sensitive messages concerning trading, market data, or other transactions. To secure this connectivity, the use of TLS certificates is required for any FIX session to connect to Bloomberg infrastructure.

For inbound-to-Bloomberg FIX connectivity, Bloomberg issues a unique TLS certificate for each FIX session. These certificates expire two years from their date of issue.

This document explains how to acquire, renew, and manage these certificates via the [Bloomberg Enterprise Console](#).

Getting Help

In the Enterprise Console, the green Help button will let you ask questions or get assistance with the FIX TLS certificate renewal screens and process.

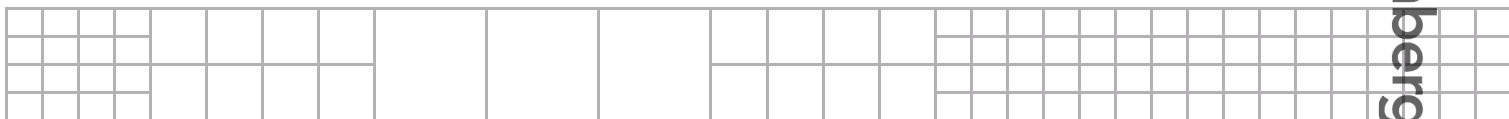


If your problem is related to TLS certificate renewal as described in this document, explain that you need assistance with “FIX TLS certificate renewal in the Enterprise Console.”

If you are unable to log into the Enterprise Console at all, call the appropriate [Global Support](#) number. Be prepared to provide information about your role in your firm as it relates to FIX connectivity, and explain that you need authorization to access the “Enterprise Console.”

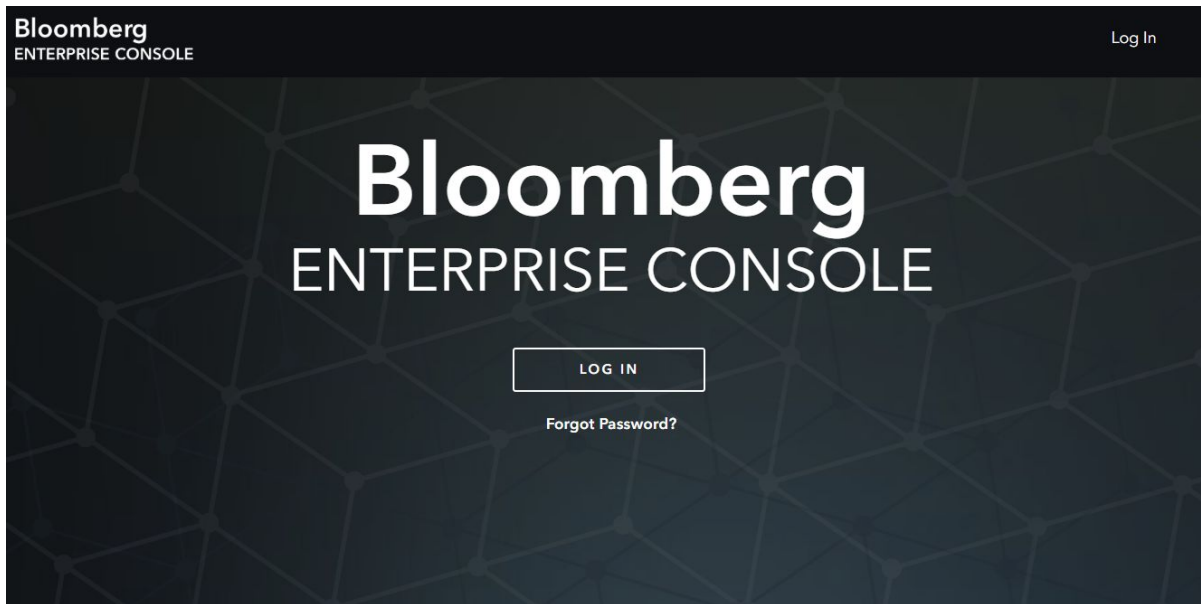
If you are attempting to manage your **Outbound-from-Bloomberg** TLS certificates, contact 212-318-2000 (or your appropriate Global Support number) and ask for ETO.

If you require assistance with your Bloomberg FIX connectivity itself, contact 212-318-2000 (or your appropriate Global Support number).



Accessing the Bloomberg Enterprise Console

The Enterprise Console is available at console.bloomberg.com

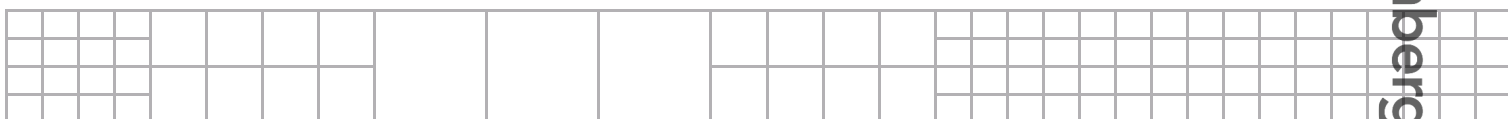


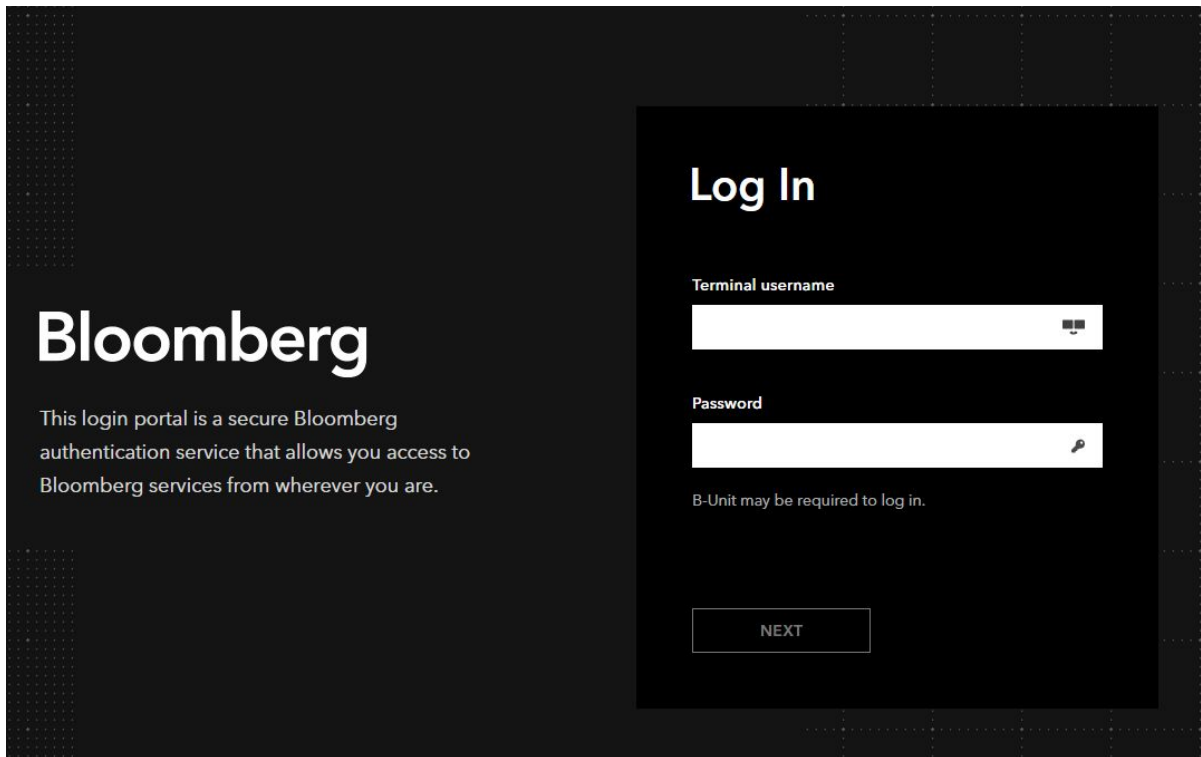
Logging in with a Bloomberg Terminal Account

If you have a Bloomberg Terminal account, log in with your Terminal credentials.

Logging in with an Enterprise Console Account

If you do not have a Bloomberg Terminal account, log in with the credentials you received via email. If this is your first time logging in, you will be required to reset your password.

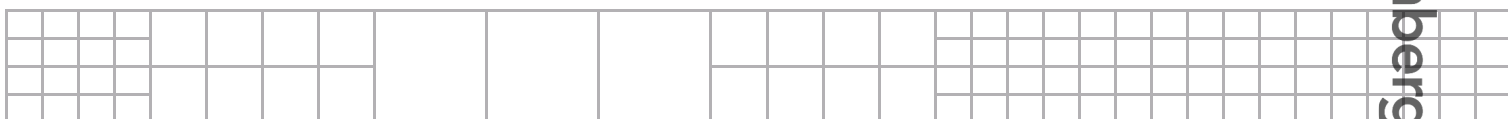




Requesting a New Account

Many FIX users will be receiving invitations via email to activate and log into an Enterprise Console account automatically. These invitations will be sent over the course of the first half of 2019.

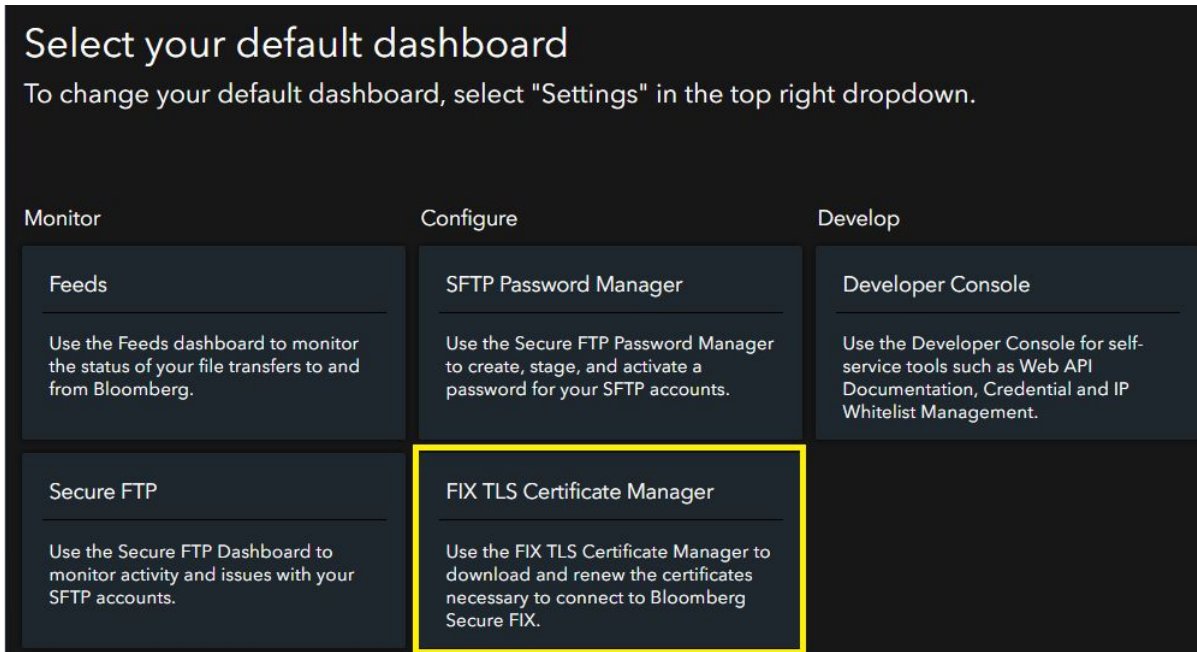
If you have not received one of these invitations, and you do not have a Bloomberg Terminal Account or an existing Enterprise Console account, contact your Bloomberg service representative to request access to the “Bloomberg Enterprise Console.”



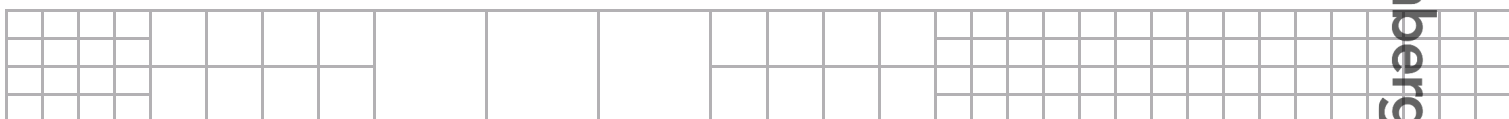
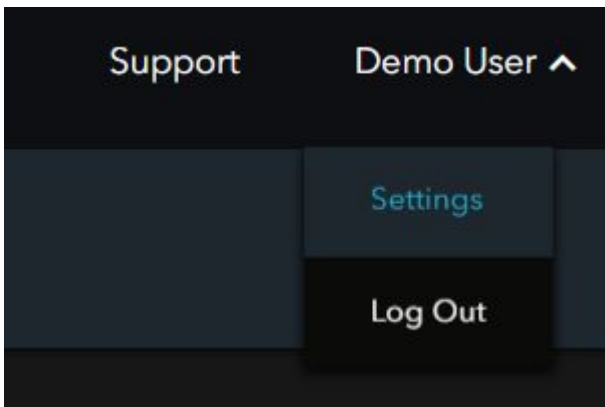
Using the Enterprise Console

Setting a Default Dashboard

If you have never used the Enterprise Console before, you will be prompted to select your default dashboard. For FIX TLS certificates, this will be the **FIX TLS Certificate Manager**. Choose it, and you will default to this feature every time you log in.

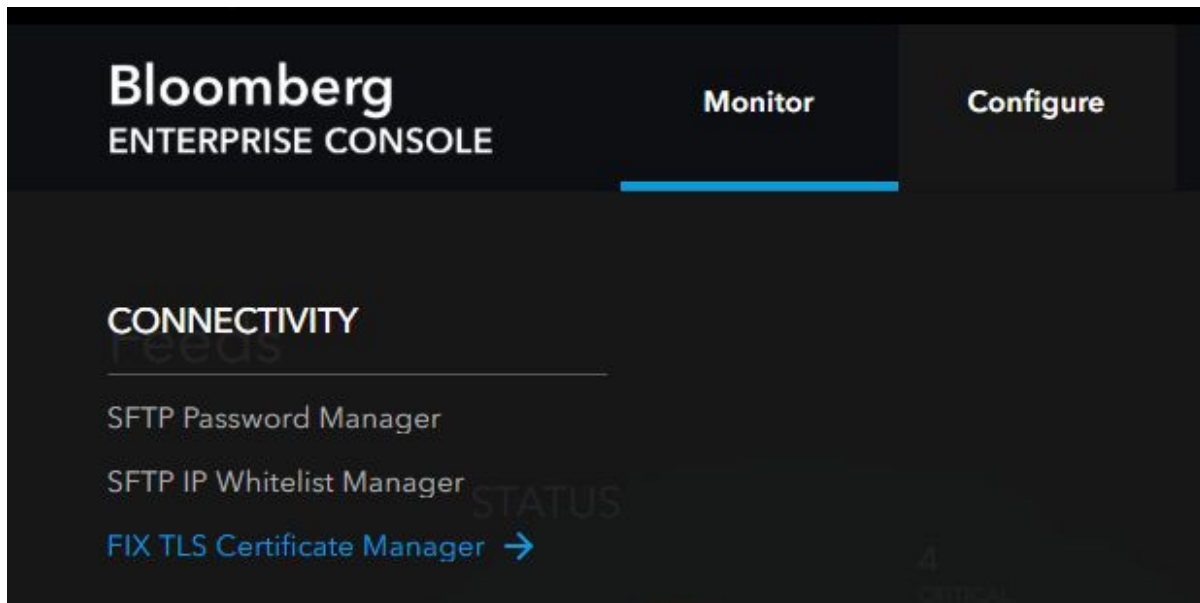


You may have access to other features of the Enterprise Console. You can change your default dashboard at any time under the **Settings** menu at the top right.

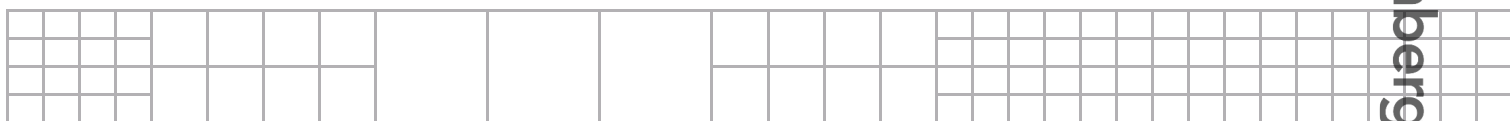


Navigating to the FIX TLS Certificate Manager

This is accessible under **Configure > FIX TLS Certificate Manager** from the main navigation. It can also be accessed via the **Settings** menu.

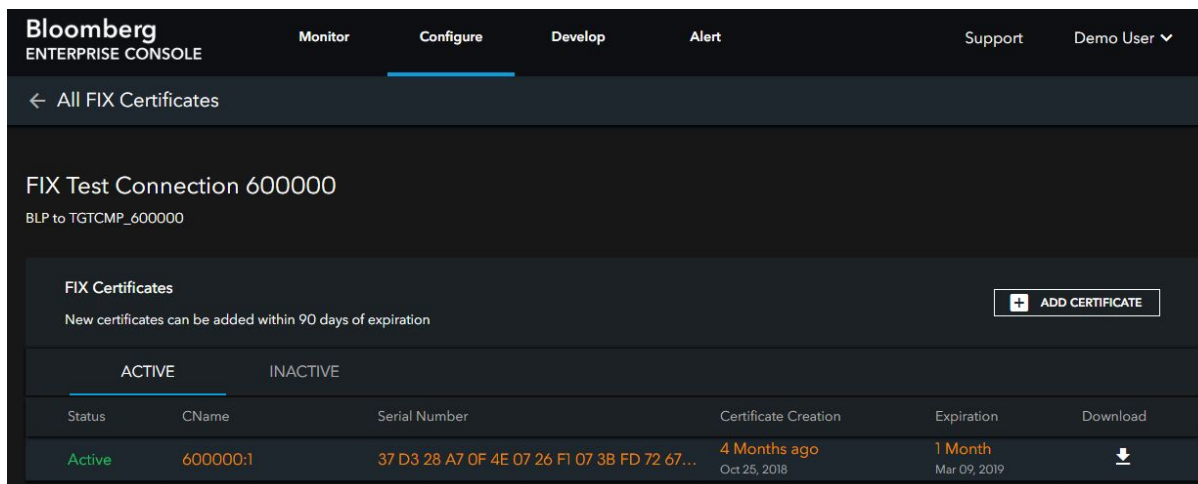


Here, you will be able to view, download, and manage your FIX TLS certificates.



Managing TLS Certificates

Click on any FIX session to see its TLS certificates.



Active Certificates

These certificates are currently active, and can be used to connect the FIX session. Authorized users can re-download these certificates as-needed.

Status

Active means that the certificate is active and usable. If multiple certificates are listed as Active, then *any* of them can be used to connect the FIX session.

CName

The CName of the certificate. You can use this to confirm the specific certificate you may be renewing in your own environment. This can also be useful for general troubleshooting.

Serial Number

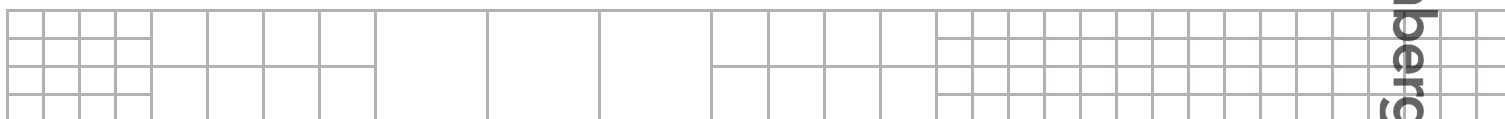
The serial number of the certificate. You can use this to confirm the specific certificate you may be renewing in your own environment. This can also be useful for general troubleshooting.

Certificate Creation

The date this certificate was created.

Expiration

The time remaining until this certificate expires. Once expired, it *can not be used to connect the FIX session*.



Bloomberg FIX – TLS Certificate Renewal

Inactive Certificates

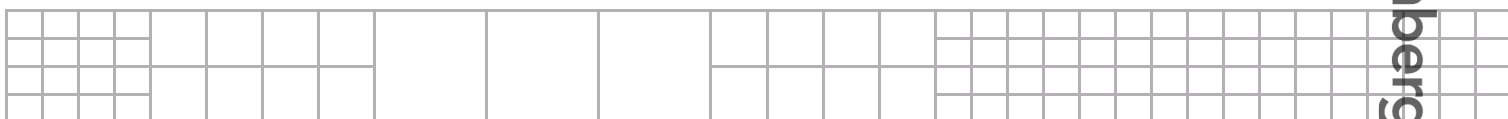
These are your three most recently expired or otherwise deactivated certificates. This information is provided solely for record keeping and troubleshooting. Expired certificates can not be re-downloaded under any circumstances.

The screenshot shows the Bloomberg Enterprise Console interface. At the top, there are navigation tabs: Monitor, Configure (selected), Develop, and Alert. On the right, there are links for Support and Demo User. Below the navigation is a breadcrumb: < All FIX Certificates. The main content area is titled 'FIX Test Connection 600000' with the identifier 'BLP to TGTCMP_600000'. Underneath, there is a section for 'FIX Certificates' with a note: 'New certificates can be added within 90 days of expiration' and an 'ADD CERTIFICATE' button. Below this is a table with two tabs: 'ACTIVE' and 'INACTIVE' (selected). The table has columns for Status, CName, Serial Number, Certificate Creation, and Expiration. It lists two expired certificates, both with a status of 'Expired', CName '600000:2' and '600000:3', and Serial Numbers starting with 'A6 EB 6C 0F...' and '3E 2E E0 56...'. Both were created '9 Years ago' on 'Oct 25, 2010' and expired on 'Oct 24, 2012'. At the bottom left, it says 'Displays up to 3 inactive certificates'.

Renewing TLS Certificates

Beginning 90 days prior to your last certificate’s expiration, you will be able to use the **Add Certificate** button to create and download a new one.

The screenshot shows the same Bloomberg Enterprise Console interface as above, but with a modal dialog box open. The dialog is titled 'Certificate Creation & Download' and contains the following text: 'A new certificate will be created and downloaded for the following FIX session:'. Below this, it lists 'FIX Test Connection 600000' and 'BLP to TGTCMP_600000'. It also states 'Certificate will be valid through Feb 05, 2021'. At the bottom of the dialog, there is a checked checkbox with the text 'I understand certificate creation cannot be undone.' and two buttons: 'CANCEL' and 'DOWNLOAD'.



Bloomberg FIX – TLS Certificate Renewal

The email notifications will be formatted generally as follows:

Subject Line

Upcoming expiration of Bloomberg FIX security credentials

Message Contents

The following alert was triggered by a FIX session connecting to Bloomberg:

Upcoming expiration of security credentials

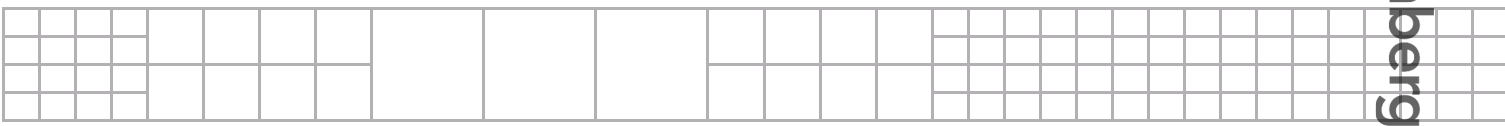
Summary: Credential Expiration
Time of occurrence: YYYY-MM-DD HH:MM:SS UTC

Detail: Your TLS Certificate for FIX Session CONNECTION_NAME will expire on YYYY-MM-DD
Severity: warning

Alert Properties:
Component: FIX
Connection Name: CONNECTION_NAME
Connection Details: CompIDs SenderCompID / TargetCompID; FIXID
FIXID

Usage Notes: Log into the Bloomberg Enterprise Console to create and download a new certificate under Configure > FIX TLS Certificate Manager. If you are unable to log in, do not see your FIX session, or do not believe you are the correct person to address this problem, contact your Bloomberg support representative immediately.

This email was sent by the Bloomberg Enterprise Console.
For more details go to <https://console.bloomberg.com>



Bloomberg FIX – TLS Certificate Renewal

manage and download TLS certificates. Certificates can only be renewed when all remaining certificates expire in 90 days or fewer.

I am not sure which FIX session I am renewing.

For most users, the FIX CompIDs and/or the Connection Name will be enough to determine which FIX session is being managed.

Some users have a large number of FIX sessions with potentially similar or duplicate names. In this case, you can identify the correct session by inspecting the TLS certificate already in place in your FIX environment.

The **CName** of your previous certificate consists of multiple parts. The number underlined in yellow is a unique identifier for the session, while the number underlined in red is simply an iterator showing the number of certificates that have been generated. Match the former between your current certificate and the one displayed in the Enterprise Console.

This value in the **CName** is also known to Bloomberg, and by providing it your Bloomberg service representative can help you identify the FIX session.

The **Serial Number** is similarly helpful. Every TLS certificate has a unique serial number. By looking at the value in the Enterprise Console, you can find the matching certificate in your own FIX environment. Remember that both active and inactive (expired) certificates can be viewed in the Enterprise Console.

| FIX Certificates | | | |
|--|------------------|---|------------------|
| New certificates can be added within 90 days of expiration | | | |
| ACTIVE | | INACTIVE | |
| Status | CName | Serial Number | Certificate Name |
| Active | <u>600000</u> ;1 | <u>37 D3 28 A7 0F 4E 07 26 F1 07 3B FD 72 67...</u> | 4 N Oct |

