

MOSL CMOS FTP Reporting

MOSL CMOS
FTP Reporting – Login Instructions
Version 03

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About this document

In order for Market Participants to collect reports they will need to access the FTP server. This document is a walkthrough guide on how to connect to the FTP environment and use its functionality in order to retrieve reports.

MOSL has tested the connection with the FTP environment using the application 'SmartFTP' and this document only shows the FTP walkthrough using the program 'SmartFTP'.

MOSL does not endorse or support the exclusive use of 'SmartFTP' and market participants are free to choose any FTP application they wish. If Trading Parties have chosen to connect to the FTP server using the program 'SmartFTP', please be aware that you will need to restart the application every time a change is made.

If the chosen application is not 'SmartFTP' then the minimum requirements needed to interact successfully are:

- The public facing IP address that you are using to interact with FTP must be included on the whitelist (see the CMOS Proforma).
- To be compatible with and use freely client certificates
- To be compatible with Microsoft Windows server 2012 FTP.
- The application must be using an FTPS Explicit Protocol
- A Passive port range of 2460-2500 must be opened on your firewall for the application to allow interaction with the FTP servers
- Ports 20 & 21 must be opened on your firewall for the application to allow interaction with the FTP servers.
- FEAT (Feature Negotiation Mechanism) must be sent before and after login. This is a key part of the authentication process. Being sent during log in rather than before does not meet the minimum requirements of the system
- The application must accept the use of URLs and not just IP addresses. The FTP servers are mapped to URLs and not IP addresses

For more information about MOSL, please go to www.mosl.co.uk.

Version History

Version	Update	Author	Date
0.1	Update made to incorporate FTP reporting modules. Updates include: <ul style="list-style-type: none"> • 1.1 about this document – clarity on the minimum requirements to be met to operate with the FTP solution. • 1 connect to ftp environment – removed reference to IP 	CGI	23/06/2016

0.2	Clarifications added around Reporting specifics	CGI	21/07/2016
1.0	Presented to Client	CGI	04/08/2016
1.2	Updated, refreshed links and screenshots. Internal review.	CGI	30/05/2017
2.0	Presented to Client	CGI	05/06/2017
3.0	Updated, refreshed links and screenshots. Internal review.	Alex Crosbie	02/11/2023

1. FTP connection overview

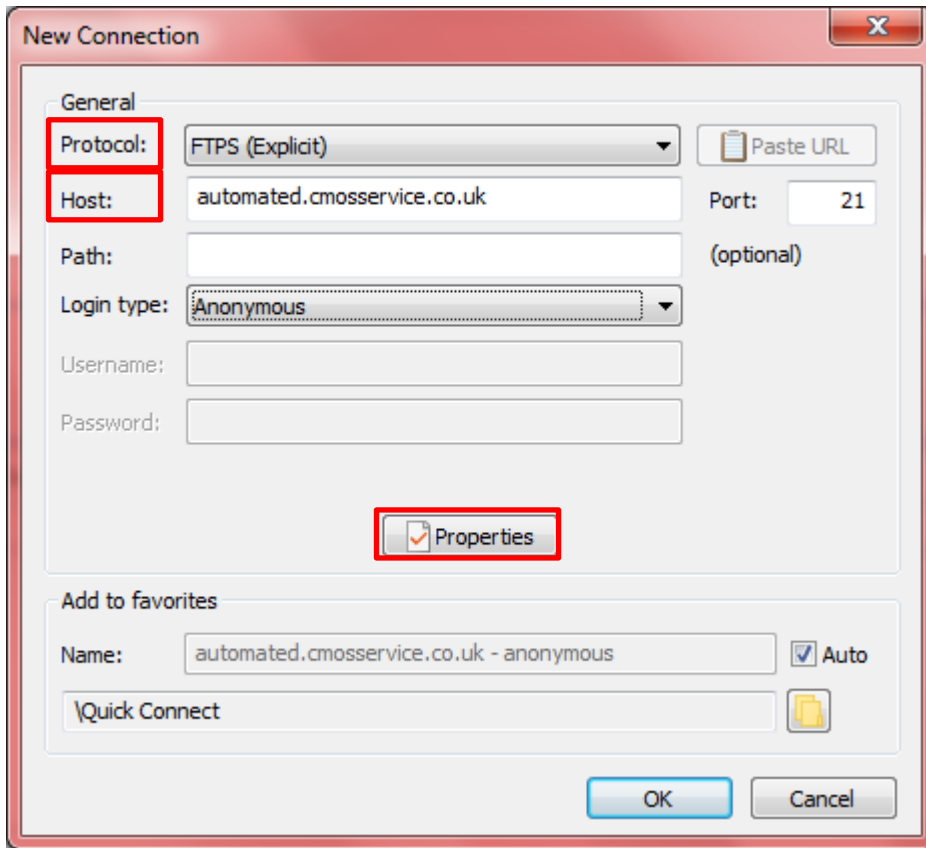
Connection to the FTP reporting repository allows trading parties to access reports as specified in section 3 of this document.

- An application (e.g. SmartFTP) is used to establish an FTPS connection to a reporting server (specific URL – see table below for URLs by Environment)
- A certificate is to be produced by the Market participant in the connection. This certificate will be the B2B certificate used for the particular environment you are trying to retrieve reports on. A specific FTP certificate is not required.
- Just as with B2B interaction, no username or password is required.
- Upon successful connection users will then land in their organisation specific root folder for reports. Reports are held in subfolders in .CSV file format.

2. Connecting to FTP Reporting Servers

The URL throughout these screenshots is for Production; please select the correct URL from the table below based on the environment that you're trying to connect to.

Start your SmartFTP application and setup a new connection by completing the highlighted fields:

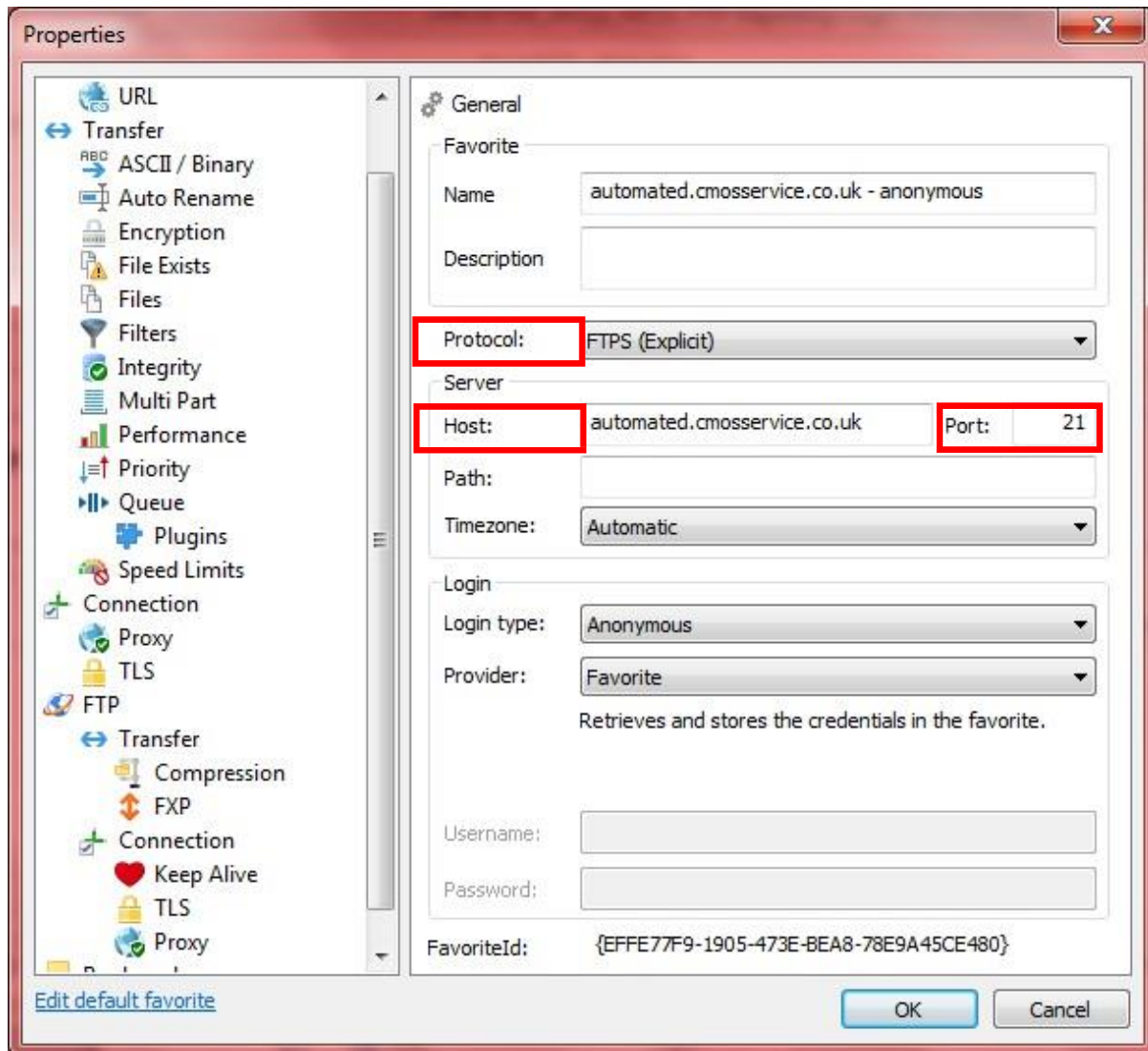


1. Protocol: This needs to be set to 'FTPS (Explicit)'.
2. Host / URL: Please insert the specific URL to which you want to connect. Each environment has its reports placed on to its own URL. The URLs are as follows:

Environment	Name	URL
MPS-2	Market Participant Sandpit 2	palm-a.cmosservice.co.uk
PRD	Production	automated.cmosservice.co.uk

3. Login type: set to "Anonymous" (Note: no username or password is required).
4. Press "Properties".

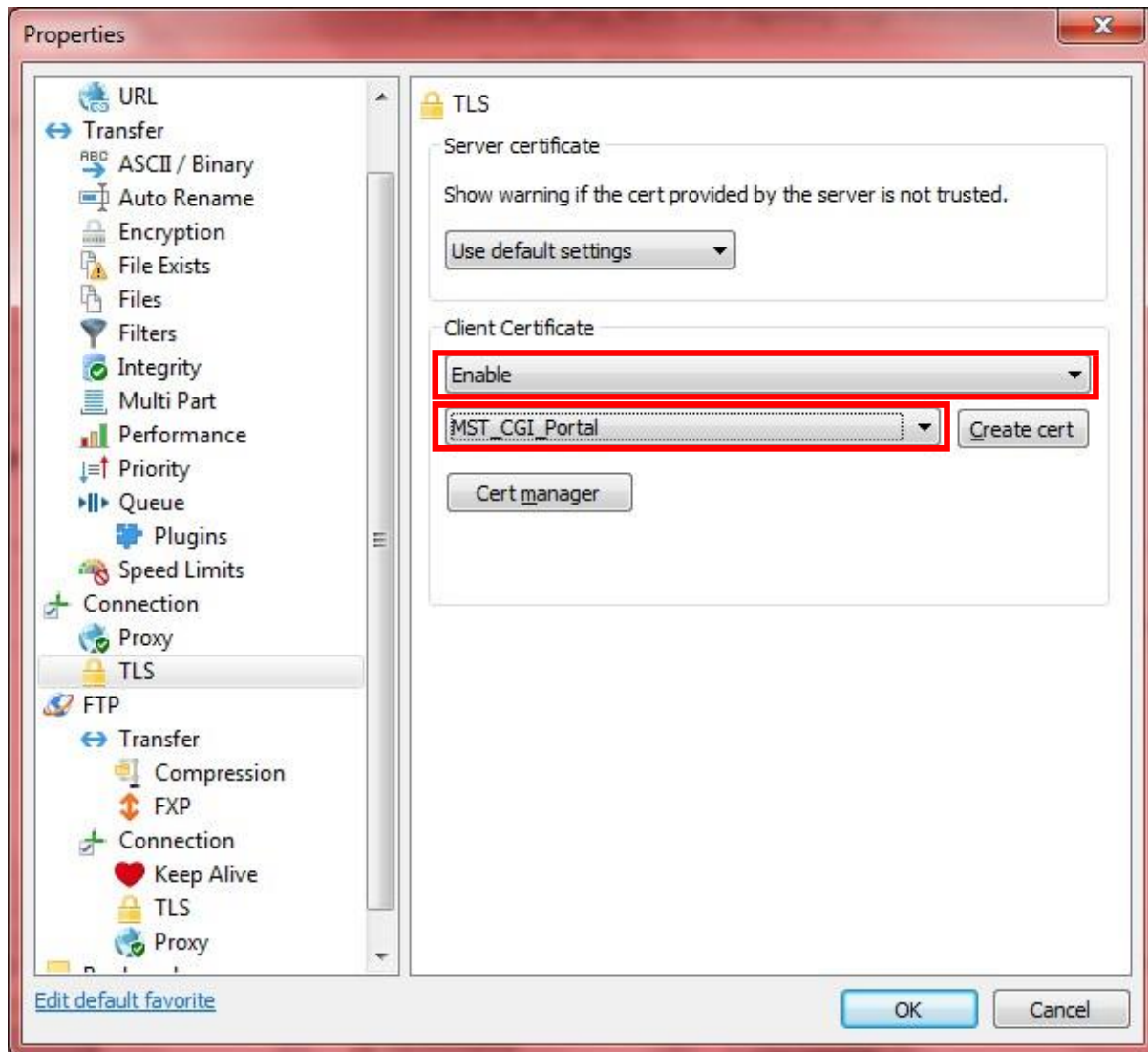
Pressing “Properties” will display a new window:



The general settings need to have the following set – all should have transferred from the initial screen:

1. The protocol needs to be set to “FTPS (Explicit)”
2. The Host should have URL value provided on step 2 above
3. The Port needs to be set to 21.

Next select "TLS" which is under "Connections":

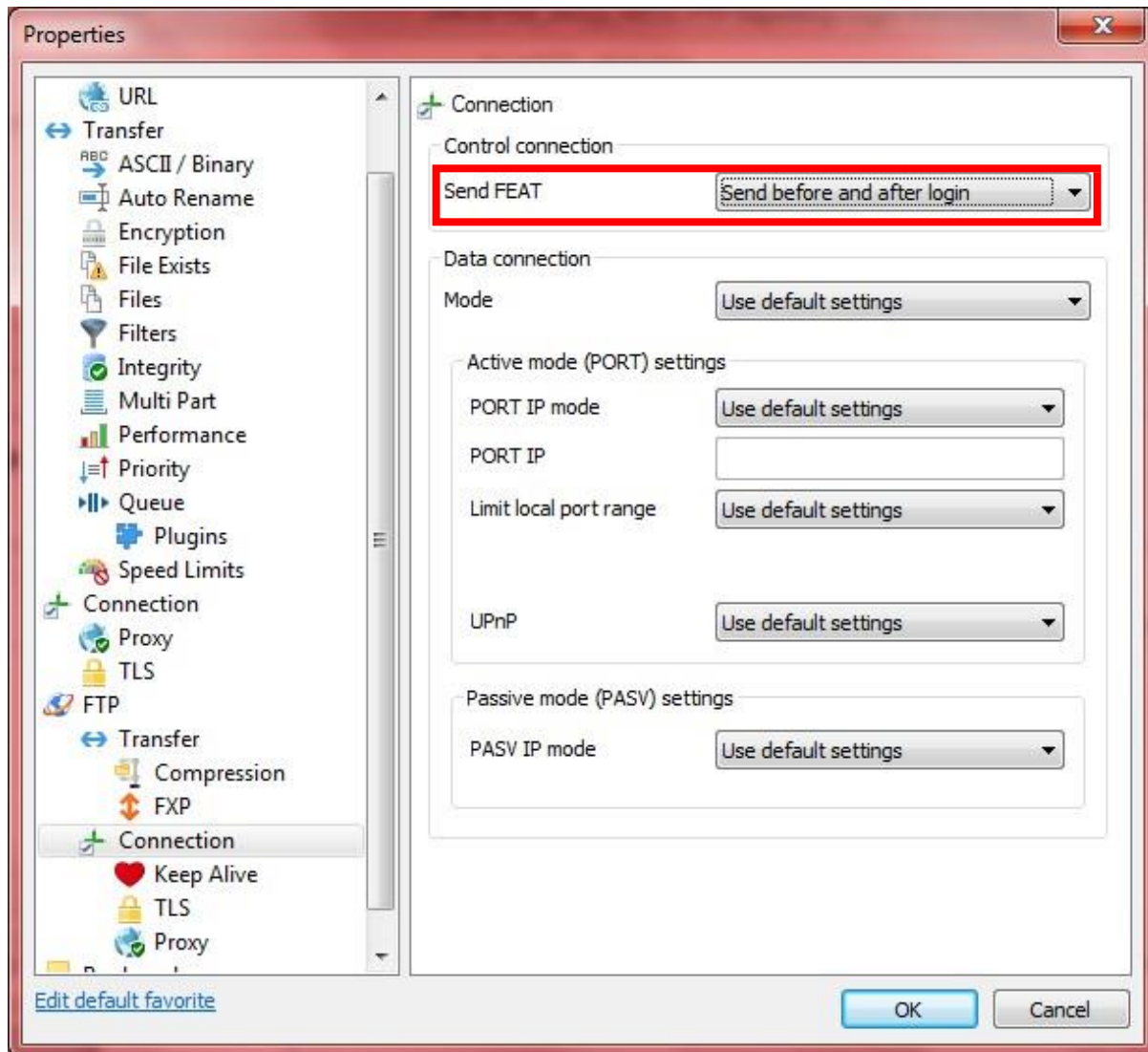


The TLS settings need to have the following set:

1. Client certificates need to be set to "Enabled".
2. The certificate to connect to the specific FTP reporting server needs to be selected (the name shown above is an example).

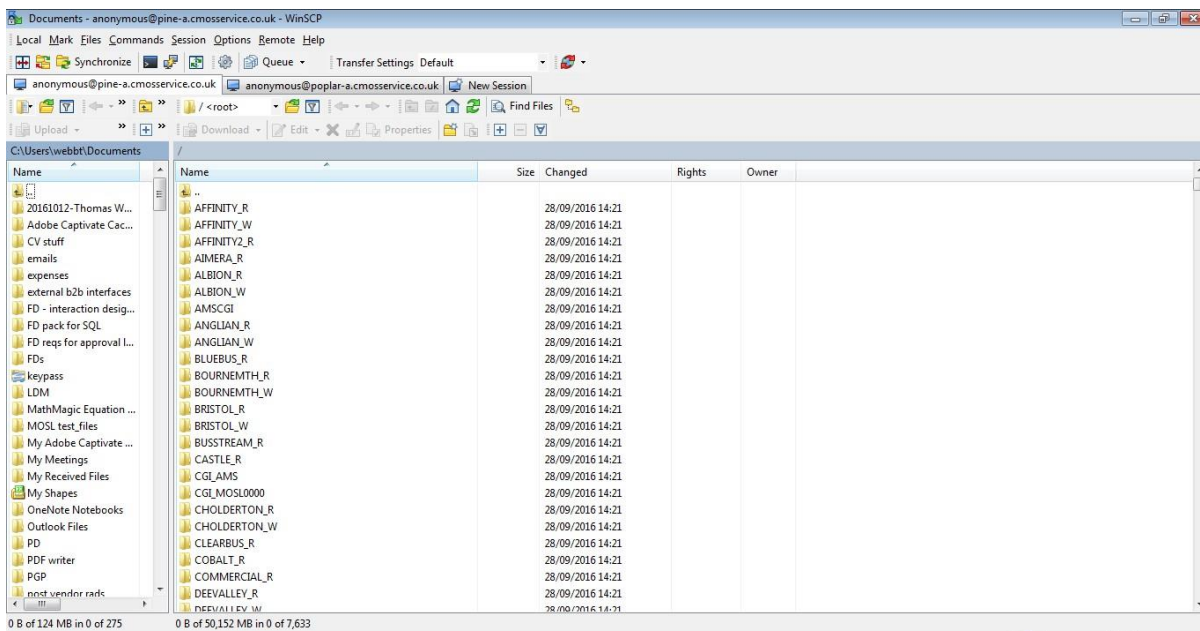
B2B certificates supplied by Trading Parties are to be used to retrieve reports. No new certificates need to be procured. The environment for which FTP connectivity is being established will require the B2B certificate for the same environment to be used. If no B2B connectivity is set in the environment, a new Proforma with a B2B certificate will need to be supplied.

Next select "Connection" which is under "FTP":



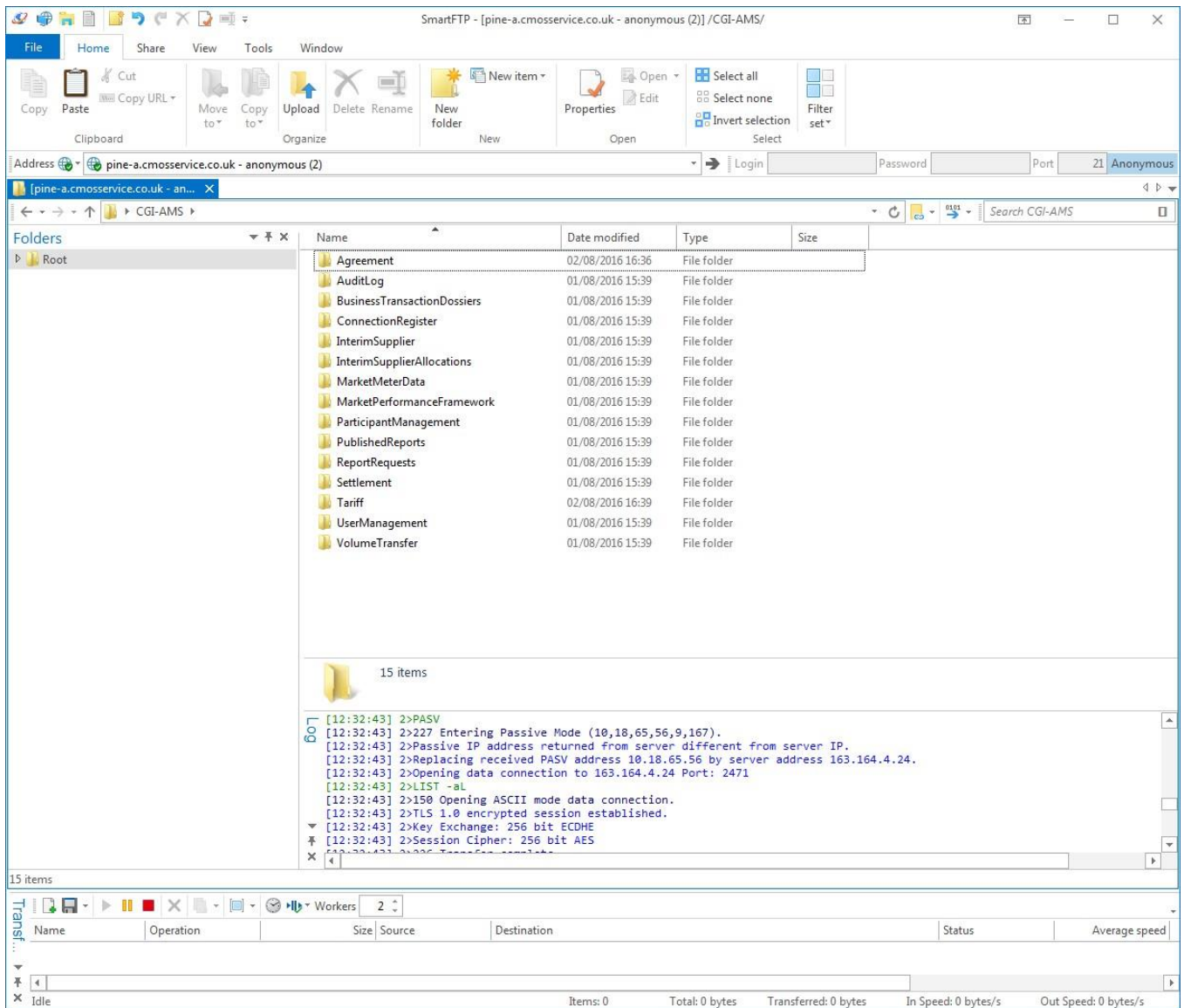
The "Control Connection" needs to have "Send FEAT" set to "Send before and after login". Once the properties are set the "OK" button can be pressed to save the settings and return to the main screen to start the session.

When the session is started it will automatically connect to the server. When a successful connection has been achieved the FTP server directories will be displayed. Initially you will land in the root folder:



Access is denied to any organisations other than your own.

Access your own folder by double clicking on your organisation ID. This will show the FTP automated reports directory structure. These are as follows:



The screenshot shows the SmartFTP interface connected to pine-a.crosservice.co.uk. The main window displays a directory listing of folders under the CGI-AMS path. The folders listed are:

Name	Date modified	Type	Size
Agreement	02/08/2016 16:36	File folder	
AuditLog	01/08/2016 15:39	File folder	
BusinessTransactionDossiers	01/08/2016 15:39	File folder	
ConnectionRegister	01/08/2016 15:39	File folder	
InterimSupplier	01/08/2016 15:39	File folder	
InterimSupplierAllocations	01/08/2016 15:39	File folder	
MarketMeterData	01/08/2016 15:39	File folder	
MarketPerformanceFramework	01/08/2016 15:39	File folder	
ParticipantManagement	01/08/2016 15:39	File folder	
PublishedReports	01/08/2016 15:39	File folder	
ReportRequests	01/08/2016 15:39	File folder	
Settlement	01/08/2016 15:39	File folder	
Tariff	02/08/2016 16:39	File folder	
UserManagement	01/08/2016 15:39	File folder	
VolumeTransfer	01/08/2016 15:39	File folder	

Below the directory listing, there is a status bar showing 15 items and a log window with the following output:

```
[12:32:43] 2>PASV
[12:32:43] 2>227 Entering Passive Mode (10,18,65,56,9,167).
[12:32:43] 2>Passive IP address returned from server different from server IP.
[12:32:43] 2>Replacing received PASV address 10.18.65.56 by server address 163.164.4.24.
[12:32:43] 2>Opening data connection to 163.164.4.24 Port: 2471
[12:32:43] 2>LIST -al
[12:32:43] 2>150 Opening ASCII mode data connection.
[12:32:43] 2>TLS 1.0 encrypted session established.
[12:32:43] 2>Key Exchange: 256 bit ECDHE
[12:32:43] 2>Session Cipher: 256 bit AES
```

At the bottom of the window, there is a transfer status bar showing:

Name	Operation	Size	Source	Destination	Status	Average speed
Idle					Items: 0	Total: 0 bytes Transferred: 0 bytes In Speed: 0 bytes/s Out Speed: 0 bytes/s

3. Folder Structure

Reports are grouped together by type and are placed in separate subfolders. The folder structure is as follows:

Folder Name	Reports Included
Agreement	<ul style="list-style-type: none"> • Agreements
Audit Log	<ul style="list-style-type: none"> • Audit Logs
Business Transaction Dossiers	<ul style="list-style-type: none"> • Transfer Cancellations • Erroneous Transfers • Meter Reads Analysis
Connection Register	<ul style="list-style-type: none"> • Calculated Discharges • DPIDs • Long Unread Meters • Meter-DPID Associations • Meter-Networks Associations • Meter-SPID Associations • Meters • New and Partial SPIDs • Outstanding Unpaired SPIDs • Sewerage Service Components • Sewerage SPIDs • Water Service Components • Water SPIDs
Interim Supplier	<ul style="list-style-type: none"> • Interim Supplier Allocation Notice
Interim Supplier Allocation	<ul style="list-style-type: none"> • Interim Supplier Allocation Results
Market Meter Data	<ul style="list-style-type: none"> • Calculated Discharge Volumes • Meter Reads • Trade Effluent Volumetric Adjustments • Volumetric Adjustments

Folder Name	Reports Included
Participant Management	<ul style="list-style-type: none"> • Market Operator use only
Published Reports	<ul style="list-style-type: none"> • Published Reports
Report Requests	<ul style="list-style-type: none"> • Report Requests
Settlement	<ul style="list-style-type: none"> • Aggregated Settlement • Disaggregated Settlement Part 1 • Disaggregated Settlement Part 2 • Disaggregated Settlement Part 3 • Disaggregated Settlement Part 4 • Settlement System Exception
Tariff	<ul style="list-style-type: none"> • Tariffs
User Management	<ul style="list-style-type: none"> • User Management Information
Volume Transfer	<ul style="list-style-type: none"> • Volume Transfer Report • Volume Data Update Report

4. Collect Reports

Reports can be automatically or manually retrieved from the FTP folders described above. All reports with the exception of settlement reporting are produced in .csv format. Settlement reports are currently produced in both .csv and .zip format, with .csv files ceasing after the delivery of R2.4.1 into Production.

The FTP servers are intended for transference of reporting data, and will not be used for any persistent storage. As such, the data is only stored for the period necessary (i.e. daily reports are removed after 7 days and monthly reports are removed after 4 months).