

Ericsson FTP over TLS

INTERWORK DESCRIPTION

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1 Introduction

This document is an interwork description for the TLS secured FTP interface (FTP over TLS). The interface provides a TLS based file transfer northbound interface (NBI) for accessing the system file storage (file NBI).

An FTP client supporting the specified requirements is needed to interwork with the TLS file transfer NBI.





2 Provided Service

2.1 Standard Compliance

- File Transfer Protocol (RFC 959)
- Securing FTP with TLS (RFC 4217)

Only passive mode and TLS connection are allowed.

The FTP server does not request password from the client. So, even if the client asks for a password input, it is not sent by the server.





3 Client Requirements

3.1 FTP over TLS Support

- File Transfer Protocol (RFC 959)
- Securing FTP with TLS (RFC 4217)

3.2 Password Handling

The FTP server does not request password from the client. So, even if the client asks for a password input, it is not sent by the server.

3.3 Client Certificates

To open an FTP over TLS connection, a valid client certificate is required.

During the authentication, the username is extracted from the client certificate, using the X509v3 extension `SubjectAltName`. If multiple `SubjectAltNames` exist, COM uses the first available type and the value in `SubjectAltName`.





4 Client Example: LFTP

4.1 Configuration File

```
set ftp:ssl-allow on
set ftp:ssl-force on
set ftp:ssl-protect-data on
set ftp:ssl-protect-list on
set ftp:passive-mode on
set ftps:initial-prot "P"
set ftp:use-feat on
set ssl:verify-certificate on
set ssl:ca-file <path>/<trustedcacert>.pem
set ssl:cert-file <path>/<cert>.pem
set ssl:key-file <path>/<key>.pem
set ssl:check-hostname off
```