



New York State Higher Education Services Corporation

HESC Encrypted FTP w/PGP Fact Sheet

Benefits

- File Transfer Protocol (FTP) is ideal for transmitting large files.
- Increased security using PGP data encryption.
- Encryption ensures data integrity and confidentiality by scrambling data so that only the sender and recipient of the encrypted data know its contents.
- Implements the “Push-Pull” or “Push-Push” model for data exchange.
- Business partners can fully automate using a scripting language and scheduling software.
- Eliminates shipping costs associated with mailing magnetic tapes/carts, diskettes, cd’s, etc.
- No delays associated with lost or misplaced mail.
- Faster processing and updates to our business information systems.
- 24 X 7 Access -- Provides 24-hour service and availability, 7 days a week.
- Allows for CL (CommonLine), CAM (Common Account Maintenance), and HESC file formats.

Computer/Internet Requirements

- Business partners need only an ftp client to send and receive (Push-Pull Model) files via Encrypted FTP. An FTP client may be a PC-, server-, or mainframe-based package.
- Business partners must have their own ftp server in order to receive (Push-Push Model) files via Encrypted FTP.
- Business partners must obtain **Encryption Software** – RFC2440 (OpenPGP) compliant:
Recommended package: GnuPG 1.0.6-2 or later; preferably the latest version GnuPG. Can download the source code for GnuPG and/or pre-compiled windows binaries 1.2.4 at <http://www.gnupg.org/> or pre-compiled binaries for SunOS/Solaris at <http://gnupg.unixsecurity.com.br/solaris.html>
Other off-the-shelf products and open-source tools are available and can be used as well.
- Business partners must provide HESC with static IP address for their Client and/or Client/Server.
- Have a valid Unique ID -- Completed HESC EFAN ID Application.

Data Requirements

- Data files cannot exceed 500MB--encrypted.
- Files must be created in ASCII format and must not contain mixed data types.
- Files must be transferred in binary mode.
- Files must not be zipped.
- Files must be encrypted using the OpenPGP specification.
- The end of every record must contain a valid Carriage Return (CR) and Line Feed (LF).
CR = Decimal Code “13” LF = Decimal Code “10”.

For more information, please contact the Data Exchange Team at edes@hesc.org, (518) 408-3685 or Toll Free at 1-866-431-4372 and select option 5.