

# EnterpriseConnect FPS

## BM

### FPS Batch Mode Processing



#### Contact Info

Unit 511, Lakeside 1, 8 Science Park W. Avenue  
Hong Kong Science Park, Shatin, N.T., Hong Kong  
Phone: +852 3125-9000 Fax: +852 2668-2166  
<http://www.iaspec.com>

© iASPEC, all rights reserved

# EnterpriseConnect FPS BM

## Faster Payment System Batch Mode Processing

### Faster Payment System

To address the increasing market needs for more efficient retail payment services, the HKMA has announced the roll-out of a Faster Payment System (FPS) in late 2018.

The FPS will enable the public to make round-the-clock payment in a real-time manner. It will enhance payment convenience and efficiency for individuals and businesses, promote healthy competition between banks and non-bank payment service providers.

### Why EnterpriseConnect FPS BM

**EnterpriseConnect FPS BM** is a special packaging of the standard EnterpriseConnect FPS product. It aims at helping banks to implement the FPS batch mode functions that are mandatory requirements. This approach gives the banks the option to upgrade to the full implementation of the FPS by simply upgrading the software license at a later time.

This **EnterpriseConnect FPS BM** software package makes available the following functions to the bank:

- Upload of files received from HKICL that contain ISO20022 messages and convert them into JSON data structure that can be easily processed by target applications in the banks.
- Convert JSON data structure into ISO20022 messages for uploading to the HKICL FPS network.
- Administration Console with control functions to support upload and download the files to the EnterpriseConnect FPS BM system for conversion.

### Business Benefits

#### Simplifies FPS implementation

**EnterpriseConnect FPS BM** is designed for banks looking to quickly implement the FPS batch mode services to meet the basic and mandatory requirements of the FPS.

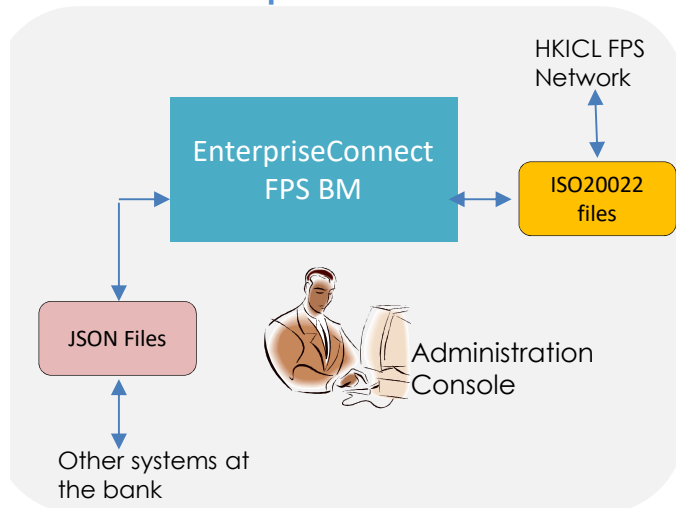
#### Upgradable

**EnterpriseConnect FPS BM** can be upgraded to the full-feature EnterpriseConnect FPS with the earlier investment fully protected.

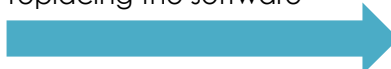
#### Superior Value

**EnterpriseConnect FPS BM** is best for banks looking to satisfy FPS batch-mode requirements at the initial stage of the FPS roll-out. Full implementation of the FPS requirements can be added later without replacing the underlying core product.

### Batch Mode Operation of the FPS



License upgrade without  
replacing the software



# EnterpriseConnect FPS

## Standard Edition

### Full Features

- Support the Full set of FPS Functions  
Including core services such as: Credit Transfer (C1/C2/C3), Direct Debit, Refund/Return, and the overlay services such as: Electronic Direct Debit Authorization, Proxy ID registration and management. For all these FPS services, the EnterpriseConnect FPS engine performs extensive verifications to ensure the messages are good and proper before submitting them to HKICL. Post credit/debit transaction, reversal/return are processed automatically and they extensively verified against the core bank systems to guarantee their validities. These features greatly simplifies the design and development of the online banking and payment systems that are integrating with the EnterpriseConnect FPS application engine.
- Daily Reconciliation  
Conducts daily reconciliation by comparing HKICL's Daily Payment Details Data File with the its' own maintained ledger records. When discrepancies are found, generates exception report.
- Account Balance Alert  
It captures notification messages and generates alert to operation or treasury department if and when the FPS settlement account balance is lower than the present threshold.
- Real-time or Batch Mode Auto Selection  
Automatic selection of Real-time mode (MQ based) or batch mode (file based) operation. When the real-time mode operation is suspended, all the non-time-critical messages will be automatically routed to batch mode without human intervention.
- Automatic Recovery and Exception Handling  
Self-recovery is built into the EnterpriseConnect FPS engine for handling momentary network connection failures. The store-and-forward feature will guarantee there is no loss of messages. For persistent problem that cannot be recovered from, alert messages will be sent and the BOA console provides the functions for the exception handling and manual intervention.
- Bank's Certificate Management  
It manages the digital certificates, including the association of general purpose certs and special purpose certs with the designated Signer records.
- Payee Name Matching  
A configurable name matching engine supporting probabilistic matching of the Payee Name on the EnterpriseConnect (FPS) to the Payee Account Name. This engine can be "trained" to accept name variations per account.
- Protect of e-Cert using HSM  
EnterpriseConnect FPS integrates seamlessly with HSM manufactured by different vendors for the protection of digital certificates. Banks can choose their own HSM by implementing different software adapters for these HSM products. All digital signatures functions are performed inside the HSM without the risk of exposing the digital certificates.
- Different application scenarios  
A variety of FPS payment scenarios are supported, including Request to pay, for which we can generate the required QR code for Credit Transfer or One Time Direct Debit Authorization.

## Operating Environment

### Operating System

Windows (x86/x64) w/JRE 1.8 or above  
Unix/Linux (x86/x64) w/JRE 1.8 or above including RHEL 6+ and SLES 10+  
Virtual and Physical machine environment

### Application Server

J2EE 5+ Application Server

The iASPEC Technologies and Services group is a leader in supplying Identity Management, PKI-based Digital Signature, Secure Messaging technologies and solutions to the public sector and financial service sector.

Brief history of the Group in these areas:

1988 – Founding of the Company in Hong Kong.

2005 – Released the AT.Pass, an award winning One-Time-Password authentication solution.

2009 – Released the AT.Sign digital signature solution. AT.Sign is currently deployed by government departments, public service organizations and large enterprises in Hong Kong and Mainland China to support various digital signature applications.

2011 - Launched SecurDS, a cloud-based digital signature service based on the AT.Sign technology,

2013 - Received the Most Reliable Offshore Software Development Services from Mediazone Group for its achievement in software services.

2014 – Extended the standard AT.Sign product to support e-Cheque.

2015 – Received the Hong Kong Internet Finance Award (Bronze) for the AT.Sign(for e-Cheque) software product.

2016– Asia Pacific CIO Outlook Magazine named iASPEC as one of the top 25 technology providers to the Public Sector.

