V1.07 Build 000 (29 July 2022)

Enhancements and fixes included in this build are listed with their associated identifiers in brackets, as applicable.

Enhancements

API

- Enhanced the **GetEx** API to check the **UseScAsLocalId** flag in BAMS. If the flag is set to "Y" (true), the search engine retrieves postal payment orders where the secret code is equal to the local ID input parameter.

Database

- It is no longer allowed to issue postal payment orders with the space character in the postal payment identifier.

Interface

- It is now possible to search for postal payments that are available for payment using a short identifier (a secret code) provided by the customer during the postal payment order creation. The short identifier is used instead of the local ID to filter postal payments, if the bilateral agreement between the two organizations has 'Yes' for the property **Use secret code as local id**.

V1.06 Build 000 (30 June 2022)

Enhancements and fixes included in this build are listed with their associated identifiers in brackets, as applicable.

Enhancements

API

- **Addition of Electronic Advance Postransfer (EAP) API component to the UPU-IP**: The EAP component serves external systems (including the PosTransfer app) that want to exchange (register and collect) information about electronic advance data of postal payments or PosTransfer. This new component implements the following features:
  - New EAP Register service to be called by the PosTransfer app without requiring a client certificate (when the app is published for end users), but must have a token for every operation to restrict access to the published PosTransfer app. It includes a new API operation for submitting an EAP and returning an EAP code when successful.
  - New API operation in EAP Collect service (available only to enrolled clients) to allow retrieving EAP details related to the organization based on the EAP code provided.
  - UPU-IP EAP repository to store EAP information for any designated operator (DO) with a published PosTransfer app.
  - New EAP Windows service to delete expired EAPs after a certain period.

V1.05.001

V1.05 Build 001 (24 June 2022)

Enhancements and fixes included in this build are listed with their associated identifiers in brackets, as applicable.

Fixes

API documentation

- The UPU-IP API documentation now only includes description of objects in use in UPU-IP API; objects in use in BAMS and EAP API are now documented in their respective documentation [ITSM ticket IN_20220602_0016].

Database

- Resolved the issue of bilateral agreement cache loads when BAMS API returns an agreement with CurrentState parameter null [ITSM ticket IN_20220614_0013].
- Changed the Country property on TAddress class from "ISO Country code" to "2 digit ISO Country code" to ensure that the UPU-IP API issues postal payments with a country code that is valid and accepted by IFS partners who expect a 2-digit ISO country code.

V 1.05

V1.05 Build 000 (10 March 2022)

Enhancements and fixes included in this build are listed with their associated identifiers in brackets, as applicable.

Enhancements

API

- Implemented a secured **Transport Level Security (TLS)** API that encapsulates security credentials and claims with every message, providing end-to-end security independent of the transport protocol. Web service requests and responses to and from UPU-IP are encrypted and authenticated with x.509 certificates. This API was introduced in release 1.04.02.
- Integrated the enhanced **LoadAgreements** API of BAMS to now allow retrieval of bilateral agreement requests corresponding to the search criteria such as current state of the agreement, issuing/paying organization, and date.

Database

- Each UPU-IP postal payment order is now associated with a unique bilateral agreement identifier.

Interoperability

- UPU-IP now integrates the new bilateral agreement though **BAMSProxy** class. This new bilateral agreement came about after BAMS introduced a new interface to define bilateral agreement and retrieve a new BA schema, improving the ability to define each property dynamically to match the needs of customers.
- Upgraded the UPU-IP platform in order to support changes done to BAMS as per BAMS 2021 project, which now supports customer services and fees, and agreement properties.

V1.04 Build 000 (23 December 2021)

Enhancements and fixes included in this build are listed with their associated identifiers in brackets, as applicable.

Enhancements

API

Postal payment retrieval

- The UPU-IP API operations **Get** and **GetByCriteria** have been updated to include new call parameters that filter the retrieved postal payments. The update allows the integrating systems to retrieve only updates that have been made since the last call

Fixes

Interoperability

State transitions and EDI exchanges

Several corrections have been made to the EDI converter, which takes care of postal payment events between UPU-IP partners and EDI partners (IFS and STEFI).

- The EDI converter has been enhanced to store a copy of the exchanged EDI files in a central repository
- When failing to collect a file from the FTP folder, it now moves a copy of the files to an error folder
- Backup EDI files are stored in a structured hierarchy
- EDI message files are tracked with information for support

Reference data has been revised to

- prevent cancellation of GT postal payments
- authorize reception from EDI partners of expired postal payment from IN and GT products
- support reimbursement of postal payments expired or declared as impossible to pay by EDI partners
- support expiration of postal payments for the different products and partners of exchanges (EDI or UPU-IP)

The EDI converter now correctly

- acknowledges or rejects EDI messages even if a new event occurs between registration of event, reception of event and the moment the EDI file is generated by the converter job (IN_20210824_0018 - PB_20210826_0014)
- generates IFSErr with the resaon code to the incorrect event, in particular reason X when a valid bilateral agreement is missing

PPS*Clearing / QCS-related

- The EDI converter which feeds other systems (QCS Finance and PPS*Clearing) with UPU-IP exchanges has been corrected to apply the same ListID when feeding both QCS Finance and PPS*Clearing with the same EDI message

V1.03 Build 000 (6 August 2021)

Enhancements and fixes included in this build are listed with their associated PRCR or CRM numbers in brackets, as applicable.

Enhancements

API

- New API operation IssueWithLock() has a locking mechanism enabled by default. Issue postal payments that require additional process before they become available to the paying partner organization, for example during analysis for a specific authority, set of control operations
- New API operation Lock() enables a lock on postal payment preventing other partners' operations. Reserve postal payments available under offline process and prevent any evolution (state change: expiration, cancellation). Automated service requires locking to payment partners during process in external account systems; while payment is restricted to specific offline office (e.g. point of sale); or analysis for a specific authority, set of control operations
- New API operation Unlock() disables the lock on postal payments. Release a locked postal payment, and at the same time (optionally) record an operation from the current partner, even if the postal payment has passed its end validity date
- Update of the existing Cancel(), Reimburse(), Pay() and ConfirmPayToAccount() API operations to return ErrorCode 14 (operation is not allowed along with ErrorDetails) when called on locked postal payments by a partner organization that is not the owner of the lock.
- Update of the Get() and ReceiveForAccount() API operations to retrieve only postal payments available for payment which are not locked.
- Update of the GetByCriteria() and CheckStatus() API operations to include lock status details in response.

Interoperability

- The converter to former M38 EDI messages guarantees exchanges between new and old technologies. It delays while locking the conversion and transports new postal payment details to the former postal payments platform based on FTP EDI files. Once unlocked, it transmits new postal payments details.
- The converter to former M38 EDI messages automatically rejects with IFSErr message (and reason code T - Rejected because of a wrong event sequence T") cancellation requests received from EDI partners that request cancellation of postal payments locked by the paying organization.

Service

- The Expiration service delays expirations of lock postal payments until they are unlocked.

Configuration

- The UPU-IP now includes new parameters to support definition of the maximum size of API operation response (maxReceivedMessageSize) and maximum execution delay (exe-

cutionTimeout) and three additional parameters for the RIA SSL configuration (RIA_SSL_ENABLED, RIA_SSL_FRIENDLY_NAME, RIA_SSL_URL)

Interface

The UPU-IP proxy to RIA system now supports SSL connection with client certificate.

Fixes

API

- Issue() API operation now validates that the provided moID is correct (that it does not exceed the maximum length).
- ReceiveForAccount() API operation now retrieves payable postal payments from GT product.
- ConfirmPayToAccount() API operation now correctly allows activities only on GT and IN products.

Interoperability

- The converter to former M38 EDI messages now correctly includes a payment element in Resord with EI event for receiving IN/GT postal payment from the EDI partner.

Interfaces

Update of RIA proxy to support SSL connection with client certificate

*PPS*Clearing / QCS-related*

- The export to PPS*Clearing now generates Resord files with EE events.
- The export to PPS*Clearing now includes EE and FP events even for postal payments for which the bilateral agreement does not exist (postal payment with external system) or for which the bilateral agreement has expired.

API documentation

- The UPU-IP API documentation has been revised to include new API operations and is now available online: https://upu.api.post/upu-ip_api/api/WSDistributor.IExternalService.html

V 1.02

V1.02 Build 000 (07 December 2020)

Enhancements and fixes included in this build are listed with their associated PRCR or CRM numbers in brackets, as applicable.

Fixes

Configuration

- Renamed the configuration parameter, **EXPIRY_PERIOD** to **EXPIRY_PERIOD_IN_MIN** for clarity

*PPS*Clearing / QCS-related*

- Fixed the issue of Resord events from 2 UPU-IP partners not imported into the PPS*Clearing system [CRM106920]
- Fixed the issue of Monord acknowledgements containing events from 2 UPU-IP partners not imported into the PPS*Clearing system [CRM106919]
- If an error occurs while exporting to QCS, UPU-IP no longer creates duplicate messages in the PPS*Clearing System [CRM106885]
- Orders pushed to the Forsage system now have the product type code [CRM106889]
- Orders exchanged between UPU-IP partners which were under non-Clearing agreements are now exported to PPS*Clearing and QCS Finance systems [CRM106886]
- The export to PPS*Clearing now includes files exchanged between UPU-IP client and external system; Tracing is now available in QCS, and orders can now be settled in PPS*Clearing [CRM106887]
- For orders exchanged between UPU-IP partners without EDI, events exported to the PPS*Clearing system now include cancellation (ED) events [CRM106888]
- Orders exchanged between IFS and UPU-IP partner or between UPU-IP partners, now expire according to the expiry setting defined in the bilateral agreement [CRM106891; CRM106890]
- Inpayment (cash-to-account) orders with the recorded outbound EI (Payment Impossible) event, no longer produces recurrent warning logs every minute; The inbound FI (Payment Impossible) event is now created successfully [CRM106894]
- UPU-IP now assigns the expiry status to Inpayment (cash-to-account) orders properly [CRM106892]
- UPU-IP now sends an IFSErr message with the correct test element value in the pre-production environment [CRM107982]
- When the bilateral agreement expires, UPU-IP now generates an IFSErr message successfully [CRM108029]
- UPU-IP no longer fails to generate an IFSErr message even if the new bilateral agreement is not yet found in the UPU-IP cache [CRM106163]

API

- The GetFXRates service logic has been updated; UPU-IP now provides the correct exchange rate to the calling operator [CRM106141]
- Updated the UPU-IP API documentation to indicate PPS*Clearing-specific properties which are not used in both IFS and UPU-IP [CRM 106142]

- When the exchange rate file is not available, UPU-IP now returns a clear error message [CRM106143]
- When exchanging with an IFS 4 partner, the UPU-IP API now checks the bilateral agreement expiry date [CRM108028]
- Updated the description for **TMODetails.Remuneration** in the UPU-IP API documentation [CRM106140]

Interfaces

- Added a new required field for compliance reason when paying a RIA money order [CRM105635]

Versions prior to 1.02

These versions comprise the initial releases of UPU-IP, which include the following features:

Centralized system

- Switch for real-time message routing
- Repository of all payments; unique reference in case of discrepancy between connected Posts and partners
- Central management of bilateral agreements in BAMS

Urgent (instant) service with Web services solution

- Real-time communication
- Synchronous protocol for urgent international postal payment services Payment anywhere facility
- Client decides at Post, at a sub-agent of the Post, or at another agent

One-time connection

- One-time integration of further external partners or MTOs to UPU-IP for every Post

Existing add-on services remain available

- **PPS*Clearing**: exchanges over the UPU-IP feed PPS*Clearing to be included in settlement and netting process

Interoperability

- **Converter to former M38 EDI**: bridge between the new UPU-IP and the EDI-FTP platform to convert and transport M38 EDI messages to the previous postal payments platform based on FTP EDI files, and to guarantee exchanges between new and old technologies
- **External systems proxy** (e.g. Forsage): to relay postal payment events to external systems if the external system is the reference system (push mode)

The **UPU Interconnection Platform (UPU-IP)** is a platform that enables near real-time exchange of postal payment-related messages between business partners.

Designed to address the limitations of transmitting EDI postal payment messages via the File Transfer Protocol (FTP), the UPU-IP exposes Web Services to business partners to interface with their system.