

Billpay Model and Services 3.0

# Document Status

status: Request for Comment (valid values are < Request for Comment, Preliminary Review, Public Review, Architectural Review, Final Review, Published, Deprecated)

This version: **Assembla**.com. Files Tag = CUFX\_3.0\_RFC\_Active

Previous Version: **Assembla**.com. Files Tag = CUFX\_3.0\_RFC\_Archive

# Change Log

|  |  |  |
| --- | --- | --- |
| Version | Date | Changes |
| 3.0 | 12/17/2013 | * Initial Creation |
| 3.0 | 12/24/2013 | * Create a billPaymentMessage wrapper for every message to increase ability for infrastructure to serialize the data. |
| 3.0 | 01/28/2014 | * Updated JSON Examples for XSD modifications. Added Use Case Diagram. |
| 3.0 | 02/10/2014 | * Updated known errors in the document |
| 3.0 | 04/10/2014 | * Updated JSON examples, corrected known errors, updated diagram. |
| 3.0 | 07/28/2014 | * Updated Diagram in Services. Corrected minor typos, added content on filtering. |

# Overview of Specification

The CUFX Bill Payment Service provides a standard description for payment definitions and instances of those payments. The CUFX Bill Payment Service provide the information necessary to pass create, read, update, and delete bill payment transactions between credit union data systems.

# Any know Errors in the document

|  |  |
| --- | --- |
| **Error Description** | Status of Error |
|  |  |

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# Document Conventions

List any document conventions such as what bold and italics mean and how the document is intended to be read.

“Within this specification, the key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” are to be interpreted as described in W3 Working Group (W3C)]. However, for readability, these words do not appear in all uppercase letters in this specification.

At times, this specification recommends good practice for authors and user agents. These recommendations are not normative and conformance with this specification does not depend on their realization. These recommendations contain the expression “We recommend …”, “This specification recommends …”, or some similar wording.”

All formatting in this document utilize Word Styles.

All Citations must utilize Word Citations to automatically show at the end of the document.

All updates after the initial creation must be performed using Tracking Changes turn on and Accepted by the Architecture committee.

# Definitions related to the specification

**Bill Pay Service Definitions**

**BillPaymentOccurence** – This object represents an instance of the bill payment.

**BillPaymentRecurring** – This object contains the bill payment specific information needed to create an instance of a recurring bill payment.

**FundsTransferOccurenceBase** – This object contains the details about an occurrence of a funds transfer. It may contain a recurring Id as reference to a recurring payment.

**FundsTransferRecurringBase** – This object contains the details about a recurring funds transfer. The details of this object are linked to a funds transfer occurrence through the recurring Id.

**Bill Payee Service Definitions**

**Bill** – This object contains details about a bill item.

**BillPayee** – This object contains the details about a payee or service provider (e.g., utility, phone provider, etc.).

# Data Elements

## Filters used when accessing the Bill Payment data

Refer to Security Services documentation to understand what may be contained in the header and processed by security procedures. When accessing the data include **MessageContext.xsd** so that the service can determine the scope of the request. Refer to recent CUFX messageContext Data and CUFX Security Services for use of MessageContext.xsd. Include any filter variables related to the request.

See **BillFilter.xsd, BillPaymentFilter.xsd,** and **BillPayeeFilter.xsd.**

# Use Case

1

READ a Bill with BillMessage

CUFX OLB

2

Return Bill Detail or error code

3

READ for BillPayee with BillPayeeMessage

14

Return confirmation or error code

13

Delete BillPayment with billPaymentOccurrenceMessage

12

Return confirmation or error code

11

Update BillPayment with billPaymentOccurrenceMessage

9

READ for BillPayment with billPaymentOccurrenceMessage

10

Return the list of bill payments or error code

8

Return confirmation or error code

7

Delete BillPayee with BillPayeeMessage

5

Update BillPayee with BillPayeeMessage

6

Return confirmation or error code

4

Return the list of payees or error code

CUFX Data Provider

Note: for Recurring Bill Payments use cases replace billPaymentOccurrence with billPaymentRecurring as noted above.

# Services

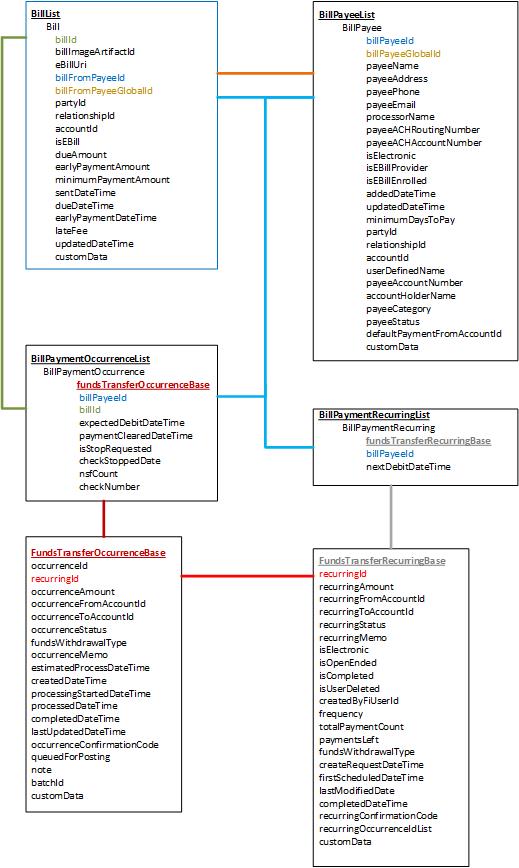
|  |  |
| --- | --- |
| Definition | Bill Payments |
| Overview of Capabilities | Service to create payments and set dependent data. |
| Dependencies | Security Services, messageContext |
| CUFX REST LINK | [https://api.dataprovider.com/](https://api.dataprovider.com/deposit)bill  https://api.dataprovider.com/billPaymentOccurrence  [https://api.dataprovider.com/](https://api.dataprovider.com/deposit)billPaymentRecurring  [https://api.dataprovider.com/](https://api.dataprovider.com/deposit)billpayee |
| CUFX WSDL LINK |  |

The Bill Pay Service is a logical grouping of four services. The services are bill, billPaymentOccurrence, billPaymentRecurring, and billPayee. These four services support the creation, viewing, and maintenance of bill payments between different systems. The bill service primarily exists to read bill information. The current model while extensible does not currently consider the creation and maintenance of bills using CUFX as a number of organizations creating Bills may lie outside of the Credit Union Industry. Capture of bill information is used to populate a bill payment occurrence or recurring transaction. For each payment type, occurring and recurring, a base xsd has been established to contain all of the elements common for that transaction and included as an extension base. The funds transfer base xsds are also used with transfers, and wire transactions.

The funds transfer base XSDs have been designed to include all common elements necessary for the payment transactions. Due to the nature of payments types, not all fields contained in the xsd may be applicable for the type and may be disregarded needed. This is an intentional decision to allow flexibility for the implementation and to keep the structures simplified.

The diagram below show the relationships between the bill, payee, payment occurrence and a payment recurring.

The field and the corresponding line has been color coded to enhance readability and to reflect keys between the structures.



## Authentication

See Security Services and messageContext for more detail.

## Bill Read

|  |  |
| --- | --- |
| INPUTS | cufx:billMessage (which includes)   * cufx:messageContext * cufx:billFilter (read) |
| Outputs | cufx:billList |
| Return Values | cufx: Error |
| Side Effects | No data is being manipulated, only a lookup is being performed. |
| Dependencies | Security Services for authentication and security. |
| Fields used | **Message Headers** : See security services  **messageContext**: See messageContext.xsd  **TBD** |
| Testing Procedures for Certification | Send details for a new account and verify that it has been created, with the id returned in the deposit object. |

### REST-JSON QUERY INDIVIDUAL BILL TRANSACTION

In some cases the remote system may need to request the details for a specific instance of a bill. This example shows call that reads an existing instance of a bill. The bill filter is used as search criterion.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

**X-HTTP-Method-Override: GET**

X-API-Version: >=3.0.0

**POST** https://api.dataprovider.com/bill

{

"billMessage": {

"@xmlns:xsi": "http://www.w3.org/2001/XMLSchema-instance",

"messageContext": {

<see messageContext.xsd>

},

"billFilter": {

"billIdList": {

"billId": [

"439987"

]

},

"accountIdList": {

"accountId": [

"accountId1"

]

},

"billFromPayeeIdList": {

"billPayeeId": [

"billPayeeId1"

]

}

}

}

}

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

Payload:

{ "billList": {

"bill": [

{

"billId": "439987",

"billImageArtifactId": {

"artifactUniqueId": "artifactUniqueId1"

},

"eBillUri": "http://uri1",

"billFromPayeeId": "billFromPayeeId1",

"billFromPayeeGlobalId": "billFromPayeeGlobalId1",

"partyId": "partyId1",

"relationshipId": "relationshipId1",

"accountId": "accountId1",

"isEBill": "true",

"dueAmount": {

"value": "125.32",

"currencyCode": "USD"

},

"earlyPaymentAmount": {

"value": "125.32",

"currencyCode": "USD"

},

"minimumPaymentAmount": {

"value": "20.00",

"currencyCode": "USD"

},

"sentDateTime": "1900-01-01T01:01:01Z",

"dueDateTime": "1900-01-01T01:01:01Z",

"earlyPaymentDateTime": "1900-01-01T01:01:01Z",

"lateFee": {

"value": "5.00",

"currencyCode": "USD"

},

"updatedDateTime": "1900-01-01T01:01:01Z",

}

]

}

}

## Bill PAYMENT OCCURRENCE CREATE, READ, UPDATE, DELETE

|  |  |
| --- | --- |
| INPUTS | cufx: billPaymentOccurrenceMessage (which includes)   * cufx:messageContext * cufx:billPaymentFilter (read, update, delete) * cufx:billPaymentList (create,update) |
| Outputs | cufx:billPaymentList |
| Return Values | cufx: Error |
| Side Effects | Creation, update or deletion of bill payment on system of record. Read has no side effects. |
| Dependencies | Security Services for authentication and security. |
| Fields used | **Message Headers** : See security services  **messageContext**: See messageContext.xsd  **TBD** |
| Testing Procedures for Certification | Send details for a new account and verify that it has been created, with the id returned in the deposit object. |

### REST-JSON CREATE BILL PAYMENT OCCURRENCE EXAMPLE

This example shows call that creates a new instance of a bill payment.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

X-API-Version: >=3.0.0

**POST** https://api.dataprovider.com/billPaymentOccurrence

{

"billPaymentOccurrenceMessage": {

"@xmlns:xsi": "http://www.w3.org/2001/XMLSchema-instance",

"messageContext": {

<see messageContext.xsd>

},

"billPaymentList": {

"billPaymentOccurrence": [

{

"occurrenceId": "occurrenceId1",

"occurrenceAmount": {

"value": "150.00",

"currencyCode": "USD"

},

"occurrenceFromAccountId": "occurrenceFromAccountId1",

"occurrenceToAccountId": "occurrenceToAccountId1",

"occurrenceStatus": "Scheduled",

"fundsWithdrawalType": "WhenRequested",

"occurrenceMemo": "occurrenceMemo1",

"estimatedProcessDateTime": "1900-01-01T01:01:01Z",

"createdDateTime": "1900-01-01T01:01:01Z",

"queuedForPosting": "true",

"note": "note1",

"batchId": "batchId1",

"billPayeeId": "billPayeeId1",

"billId": "billId1",

"expectedDebitDateTime": "1900-01-01T01:01:01Z",

"nsfCount": "1",

"checkNumber": "checkNumber1"

}

}

}

}

}

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

Payload:

{

"billPaymentList": {

"billPaymentOccurrence": [

{

"occurrenceId": "occurrenceId1",

"occurrenceAmount": {

"value": "150.00",

"currencyCode": "USD"

},

"occurrenceFromAccountId": "occurrenceFromAccountId1",

"occurrenceToAccountId": "occurrenceToAccountId1",

"occurrenceStatus": "Scheduled",

"fundsWithdrawalType": "WhenRequested",

"occurrenceMemo": "occurrenceMemo1",

"estimatedProcessDateTime": "1900-01-01T01:01:01Z",

"createdDateTime": "1900-01-01T01:01:01Z",

"occurrenceConfirmationCode": "occurrenceConfirmationCode1",

"queuedForPosting": "true",

"note": "note1",

"batchId": "batchId1",

"billPayeeId": "billPayeeId1",

"billId": "billId1",

"expectedDebitDateTime": "1900-01-01T01:01:01Z",

"nsfCount": "1",

"checkNumber": "checkNumber1"

}

}

}

### REST-JSON READ BILL PAYMENT OCCURRENCE EXAMPLE

This example shows call that reads an existing instance of a bill payment(s) matching the billPaymentOccurrenceId in the BillPaymentFilter.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

**X-HTTP-Method-Override: GET**

X-API-Version: >=3.0.0

**POST** https://api.dataprovider.com/billPaymentOccurrence

{

"billPaymentOccurrenceMessage": {

"@xmlns:xsi": "http://www.w3.org/2001/XMLSchema-instance",

"messageContext": {

<see messageContext.xsd>

},

"billPaymentFilter": {

"occurrenceIdList": {

"occurrenceId": [

"1234567"

]

},

"startCompletedDateTime": "1900-01-01T01:01:01Z",

"endCompletedDateTime": "1900-01-01T01:01:01Z",

"accountIDList": {

"accountId": [

"accountId1"

]

},

"minAmount": {

"value": "1",

"currencyCode": "USD"

},

"maxAmount": {

"value": "1000",

"currencyCode": "USD"

},

"batchIdList": {

"batchId": [

"batchId1"

]

},

"billPayeeIdList": {

"billPayeeId": [

"billPayeeId1",

]

},

"billIdList": {

"billId": [

"billId1"

]

}

}

}

}

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

Payload:

"billPaymentList": {

"billPaymentOccurrence": [

{

"occurrenceId": "1234567",

"occurrenceAmount": {

"value": "143.33",

"currencyCode": "USD"

},

"occurrenceFromAccountId": "occurrenceFromAccountId1",

"occurrenceToAccountId": "occurrenceToAccountId1",

"occurrenceStatus": "Scheduled",

"fundsWithdrawalType": "WhenRequested",

"occurrenceMemo": "occurrenceMemo1",

"estimatedProcessDateTime": "1900-01-01T01:01:01Z",

"createdDateTime": "1900-01-01T01:01:01Z",

"processingStartedDateTime": "1900-01-01T01:01:01Z",

"lastUpdatedDateTime": "1900-01-01T01:01:01Z",

"occurrenceConfirmationCode": "occurrenceConfirmationCode1",

"queuedForPosting": "true",

"note": "note1",

"batchId": "batchId1",

"billPayeeId": "billPayeeId1",

"billId": "billId1",

"expectedDebitDateTime": "1900-01-01T01:01:01Z",

"nsfCount": "1",

"checkNumber": "checkNumber1"

}

}

}

}

### REST-JSON UPDATE BILL PAYMENT OCCURRENCE EXAMPLE

This example shows call that updates an existing instance of a bill payment.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

X-API-Version: >=3.0.0

**PUT** https://api.dataprovider.com/billPaymentOccurrence

{

"billPaymentOccurrenceMessage": {

"@xmlns:xsi": "http://www.w3.org/2001/XMLSchema-instance",

"messageContext": {

<see messageContext.xsd>

},

"billPaymentFilter": {

"occurrenceIdList": {

"occurrenceId": [

"654353"

]

},

"billPayeeIdList": {

"billPayeeId": [

"1234567",

]

},

"billIdList": {

"billId": [

"12345"

]

}

},

"billPaymentList": {

"billPaymentOccurrence": [

{

"occurrenceId": "654353",

"occurrenceAmount": {

"value": "85,32",

"currencyCode": "USD"

},

"lastUpdatedDateTime": "1900-01-01T01:01:01Z",

"batchId": "batchId1",

"billPayeeId": "1234567",

"billId": "billId1",

"expectedDebitDateTime": "1900-01-01T01:01:01Z",

}

}

}

}

}

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

Payload:

{

"billPaymentList": {

"billPaymentOccurrence": [

{

"occurrenceId": "654353",

"occurrenceAmount": {

"value": "85,32",

"currencyCode": "USD"

},

"lastUpdatedDateTime": "1900-01-01T01:01:01Z",

"occurrenceConfirmationCode": "occurrenceConfirmationCode1",

"batchId": "batchId1",

"billPayeeId": "1234567",

"billId": "billId1",

"expectedDebitDateTime": "1900-01-01T01:01:01Z",

}

}

}

}

}

### REST-JSON DELETE BILL PAYMENT OCCURRENCE EXAMPLE

This example shows call that deletes an existing instance of a bill payment.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

**X-HTTP-Method-Override: DELETE**

X-API-Version: >=3.0.0

**PUT** https://api.dataprovider.com/billPaymentOccurrence

{

"billPaymentOccurrenceMessage": {

"@xmlns:xsi": "http://www.w3.org/2001/XMLSchema-instance",

"messageContext": {

<see messageContext.xsd>

},

"billPaymentFilter": {

"occurrenceIdList": {

"occurrenceId": [

"654353"

]

},

"billPayeeIdList": {

"billPayeeId": [

"1234567",

]

},

"billIdList": {

"billId": [

"12345"

]

}

}

}

}

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

## Bill PAYEE CREATE, READ, UPDATE, DELETE

|  |  |
| --- | --- |
| INPUTS | cufx:billPayeeMessage (which includes)   * cufx:messageContext * cufx:billPayeeFilter (read, update, delete) * cufx:billPayeeList (create,update) |
| Outputs | cufx:billPayeeList |
| Return Values | cufx: Error |
| Side Effects | Creation, update or deletion of deposit account, in some cases party, contact, Read has no side effects. |
| Dependencies | Security Services for authentication and security. |
| Fields used | **Message Headers** : See security services  **messageContext**: See messageContext.xsd  **TBD** |
| Testing Procedures for Certification | Send details for a new account and verify that it has been created, with the id returned in the deposit object. |

### REST-JSON CREATE BILL PAYEE EXAMPLE

This example shows call that creates a new instance of a bill payee.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

X-API-Version: >=3.0.0

**POST** https://api.dataprovider.com/billPayee

{

"billPayeeMessage": {

“messageContext”: { <see messageContext.xsd>

},

"billPayeeList": {

"billPayee": [

{

"billPayeeId": "billPayeeId1",

"billPayeeGlobalId": "billPayeeGlobalId1",

"payeeName": "payeeName1",

"payeeAddress": {

"line1": "line11",

"line2": "line21",

"line3": "line31",

"city": "city1",

"stateProvince": "stateProvince1",

"postalCode": "postalCode1",

"countryCode": "AD",

"country": "country1",

"effectiveDateTime": "1900-01-01T01:01:01Z",

"expirationDateTime": "1900-01-01T01:01:01Z",

"timeAtAddress": "P396DT1H1M1S",

"addressVerifyDateTime": "1900-01-01T01:01:01Z"

},

"payeePhone": {

"type": "Home",

"number": "number1",

"extension": "extension1",

"planFormat": "Nanp",

"description": "description1",

"smsRegistered": "true"

},

"payeeEmail": {

"type": "Home",

"address": "address1"

},

"processorName": "processorName1",

"payeeACHRoutingNumber": "1234567",

"payeeACHAccountNumber": "7654321",

"isElectronic": "true",

"isEBillProvider": "true",

"isEBillEnrolled": "true",

"addedDateTime": "1900-01-01T01:01:01Z",

"minimumDaysToPay": "1",

"partyId": "partyId1",

"relationshipId": "relationshipId1",

"accountId": "accountId1",

"userDefinedName": "userDefinedName1",

"payeeAccountNumber": "payeeAccountNumber1",

"accountHolderName": "accountHolderName1",

"payeeCategory": "payeeCategory1",

"defaultPaymentFromAccountId": "1234567",

}

]

}

}

}

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

Payload:

{ "billPayeeList": {

"billPayee": [

{

"billPayeeId": "billPayeeId1",

"billPayeeGlobalId": "billPayeeGlobalId1",

"payeeName": "payeeName1",

"payeeAddress": {

"line1": "line11",

"line2": "line21",

"line3": "line31",

"city": "city1",

"stateProvince": "stateProvince1",

"postalCode": "postalCode1",

"countryCode": "AD",

"country": "country1",

"effectiveDateTime": "1900-01-01T01:01:01Z",

"expirationDateTime": "1900-01-01T01:01:01Z",

"timeAtAddress": "P396DT1H1M1S",

"addressVerifyDateTime": "1900-01-01T01:01:01Z"

},

"payeePhone": {

"type": "Home",

"number": "number1",

"extension": "extension1",

"planFormat": "Nanp",

"description": "description1",

"smsRegistered": "true"

},

"payeeEmail": {

"type": "Home",

"address": "address1"

},

"processorName": "processorName1",

"payeeACHRoutingNumber": "1234567",

"payeeACHAccountNumber": "7654321",

"isElectronic": "true",

"isEBillProvider": "true",

"isEBillEnrolled": "true",

"addedDateTime": "1900-01-01T01:01:01Z",

"updatedDateTime": "1900-01-01T01:01:01Z",

"minimumDaysToPay": "1",

"partyId": "partyId1",

"relationshipId": "relationshipId1",

"accountId": "accountId1",

"userDefinedName": "userDefinedName1",

"payeeAccountNumber": "payeeAccountNumber1",

"accountHolderName": "accountHolderName1",

"payeeCategory": "payeeCategory1",

"payeeStatus": "Active",

"defaultPaymentFromAccountId": "1234567",

}

]

}

}

}

### REST-JSON READ BILL PAYEE EXAMPLE

This example shows call that reads an existing instance of a bill payee.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

**X-HTTP-Method-Override: GET**

X-API-Version: >=3.0.0

**POST** https://api.dataprovider.com/billPayee

{

"billPayeeMessage": {

"messageContext": { <see messageContext.xsd>

},

"billPayeeFilter": {

"billPayeeGlobalIdList": {

"billPayeeGlobalId": [

"2998765"

]

},

"accountIdList": {

"accountId": [

"accountId1"

]

},

"payeeName": "payeeName1",

"isElectronic": "true",

"payeeCategory": "payeeCategory1",

"payeeStatusList": {

"payeeStatus": [

"Active"

]

}

}

}

}

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

Payload:

{ "billPayeeList": {

"billPayee": [

{

"billPayeeId": "124775",

"billPayeeGlobalId": "2998765",

"payeeName": "payeeName1",

"payeeAddress": {

"line1": "line11",

"line2": "line21",

"line3": "line31",

"city": "city1",

"stateProvince": "stateProvince1",

"postalCode": "postalCode1",

"countryCode": "AD",

"country": "country1",

"effectiveDateTime": "1900-01-01T01:01:01Z",

"expirationDateTime": "1900-01-01T01:01:01Z",

"timeAtAddress": "P396DT1H1M1S",

"addressVerifyDateTime": "1900-01-01T01:01:01Z"

},

"payeePhone": {

"type": "Home",

"number": "number1",

"extension": "extension1",

"planFormat": "Nanp",

"description": "description1",

"smsRegistered": "true"

},

"payeeEmail": {

"type": "Home",

"address": "address1"

},

"processorName": "processorName1",

"payeeACHRoutingNumber": "1234567",

"payeeACHAccountNumber": "7654321",

"isElectronic": "true",

"isEBillProvider": "true",

"isEBillEnrolled": "true",

"addedDateTime": "1900-01-01T01:01:01Z",

"updatedDateTime": "1900-01-01T01:01:01Z",

"minimumDaysToPay": "1",

"partyId": "partyId1",

"relationshipId": "relationshipId1",

"accountId": "accountId1",

"userDefinedName": "userDefinedName1",

"payeeAccountNumber": "payeeAccountNumber1",

"accountHolderName": "accountHolderName1",

"payeeCategory": "payeeCategory1",

"payeeStatus": "Active",

"defaultPaymentFromAccountId": "1234567",

}

]

}

}

}

### REST-JSON UPDATE BILL PAYEE EXAMPLE

This example shows call that updates an existing instance of a bill payee.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

X-API-Version: >=3.0.0

**PUT** https://api.dataprovider.com/billPayee

{

"billPayeeMessage": {

“messageContext”: { <see messageContext.xsd>

},

"billPayeeFilter": {

"billPayeeGlobalIdList": {

"billPayeeGlobalId": [

"2998765"

]

},

"accountIdList": {

"accountId": [

"accountId1"

]

},

"payeeName": "payeeName1",

"isElectronic": "true",

"payeeCategory": "payeeCategory1",

"payeeStatusList": {

"payeeStatus": [

"Active"

]

}

},

"billPayeeList": {

"billPayee": [

{

"billPayeeId": "123456",

"billPayeeGlobalId": "2998765",

"payeeName": "payeeName2",

"payeeAddress": {

"line1": "New Address",

"city": "New City",

"stateProvince": "NY",

"postalCode": "10001",

"countryCode": "US",

}

]

}

}

}

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

Payload:

{ "billPayeeList": {

"billPayee": [

{

"billPayeeId": "124775",

"billPayeeGlobalId": "2998765",

"payeeName": "payeeName2",

"payeeAddress": {

"line1": "New Address",

"city": "New City",

"stateProvince": "NY",

"postalCode": "10001",

"countryCode": "US",

"updatedDateTime": "1900-01-01T01:01:01Z",

"payeeStatus": "Active",

}

]

}

}

}

### REST-JSON DELETE BILL PAYEE EXAMPLE

This example shows call that deletes an existing instance of a bill payee.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

**X-HTTP-Method-Override: DELETE**

X-API-Version: >=3.0.0

**PUT** https://api.dataprovider.com/billPayee

{

"billPayeeMessage": {

“messageContext”: { <see messageContext.xsd>

},

"billPayeeFilter": {

"billPayeeGlobalIdList": {

"billPayeeGlobalId": [

"2998765"

]

},

"accountIdList": {

"accountId": [

"236684"

]

},

"payeeName": "payeeName1",

"payeeStatusList": {

"payeeStatus": [

"Active"

]

}

},

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

## Bill PAYMEnT RECURRING CREATE, READ, UPDATE, DELETE

|  |  |
| --- | --- |
| INPUTS | cufx: billPaymentRecurringMessage (which includes)   * cufx:messageContext * cufx:billPaymentFilter (read, update, delete) * cufx:billPaymentRecurringList (create,update) |
| Outputs | cufx: billPaymentRecurringList |
| Return Values | cufx: Error |
| Side Effects | Creation, update or deletion of recurring bill payment. Read has no side effects. |
| Dependencies | Security Services for authentication and security. |
| Fields used | **Message Headers** : See security services  **messageContext**: See messageContext.xsd  **TBD** |
| Testing Procedures for Certification | Send details for a new account and verify that it has been created, with the id returned in the deposit object. |

### REST-JSON CREATE BILL PAYMENT RECURRING EXAMPLE

This example shows call that creates a new instance of a recurring bill payment.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

X-API-Version: >=3.0.0

**POST** https://api.dataprovider.com/billPaymentRecurring

{

"billPaymentRecurringMessage": {

"@xmlns:xsi": "http://www.w3.org/2001/XMLSchema-instance",

"messageContext": {

“messageContext”: { <see messageContext.xsd>

},

"billPaymentRecurringList": {

"billPaymentRecurring": [

{

"recurringId": "recurringId1",

"recurringAmount": {

"value": "234.12",

"currencyCode": "USD"

},

"recurringFromAccountId": "recurringFromAccountId1",

"recurringToAccountId": "recurringToAccountId1",

"recurringStatus": "Requested",

"recurringMemo": "recurringMemo1",

"isElectronic": "true",

"isOpenEnded": "true",

"createdByFiUserId": "createdByFiUserId1",

"frequency": "Monthly",

"totalPaymentCount": "1",

"paymentsLeft": "10",

"fundsWithdrawalType": "WhenRequested",

"createRequestDateTime": "1900-01-01T01:01:01Z",

"firstScheduledDateTime": "1900-01-01T01:01:01Z",

"recurringOccurrenceIdList": {

"occurrenceId": [

"occurrenceId1"

]

},

"billPayeeId": "billPayeeId1",

"nextDebitDateTime": "1900-01-01T01:01:01Z"

}

]

}

}

}

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

Payload:

{

"billPaymentRecurringList": {

"billPaymentRecurring": [

{

"recurringId": "recurringId1",

"recurringAmount": {

"value": "234.12",

"currencyCode": "USD"

},

"recurringFromAccountId": "recurringFromAccountId1",

"recurringToAccountId": "recurringToAccountId1",

"recurringStatus": "Requested",

"recurringMemo": "recurringMemo1",

"isElectronic": "true",

"isOpenEnded": "true",

"createdByFiUserId": "createdByFiUserId1",

"frequency": "Monthly",

"totalPaymentCount": "1",

"paymentsLeft": "10",

"fundsWithdrawalType": "WhenRequested",

"createRequestDateTime": "1900-01-01T01:01:01Z",

"firstScheduledDateTime": "1900-01-01T01:01:01Z",

"recurringConfirmationCode": "recurringConfirmationCode1",

"recurringOccurrenceIdList": {

"occurrenceId": [

"occurrenceId1"

]

},

"billPayeeId": "billPayeeId1",

"nextDebitDateTime": "1900-01-01T01:01:01Z"

}

]

}

}

### REST-JSON READ BILL PAYMENT RECURRING EXAMPLE

This example shows call that reads an existing instance of a recurring bill payment.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

**X-HTTP-Method-Override: GET**

X-API-Version: >=3.0.0

**POST** https://api.dataprovider.com/billPaymentRecurring

{

"billPaymentRecurringMessage": {

"@xmlns:xsi": "http://www.w3.org/2001/XMLSchema-instance",

"messageContext": {

“messageContext”: { <see messageContext.xsd>

},

"billPaymentFilter": {

"recurringIdList": {

"recurringId": [

"1243256"

]

},

"accountIDList": {

"accountId": [

"987654"

]

},

"minAmount": {

"value": "1",

"currencyCode": "USD"

},

"maxAmount": {

"value": "500.00",

"currencyCode": "USD"

}

}

}

}

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

Payload:

{

"billPaymentRecurringList": {

"billPaymentRecurring": [

{

"recurringId": "1243256",

"recurringAmount": {

"value": "234.12",

"currencyCode": "USD"

},

"recurringFromAccountId": "987654",

"recurringToAccountId": "recurringToAccountId1",

"recurringStatus": "Requested",

"recurringMemo": "recurringMemo1",

"isElectronic": "true",

"isOpenEnded": "true",

"createdByFiUserId": "createdByFiUserId1",

"frequency": "Monthly",

"totalPaymentCount": "1",

"paymentsLeft": "10",

"fundsWithdrawalType": "WhenRequested",

"createRequestDateTime": "1900-01-01T01:01:01Z",

"firstScheduledDateTime": "1900-01-01T01:01:01Z",

"recurringConfirmationCode": "recurringConfirmationCode1",

"recurringOccurrenceIdList": {

"occurrenceId": [

"occurrenceId1"

]

},

"billPayeeId": "billPayeeId1",

"nextDebitDateTime": "1900-01-01T01:01:01Z"

}

]

}

}

### REST-JSON UPDATE BILL PAYMENT RECURRING EXAMPLE

This example shows call that updates an existing instance of a recurring bill payment.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

X-API-Version: >=3.0.0

**PUT** https://api.dataprovider.com/billPaymentRecurring

{

"billPaymentRecurringMessage": {

"@xmlns:xsi": "http://www.w3.org/2001/XMLSchema-instance",

"messageContext": {

“messageContext”: { <see messageContext.xsd>

},

"billPaymentFilter": {

"recurringIdList": {

"recurringId": [

"4553346"

]

},

"accountIDList": {

"accountId": [

"7876654"

]

}

},

"billPaymentRecurringList": {

"billPaymentRecurring": [

{

"recurringId": "4553346",

"recurringAmount": {

"value": "114.12",

"currencyCode": "USD"

},

"recurringOccurrenceIdList": {

"occurrenceId": [

"occurrenceId1"

]

},

"billPayeeId": "1234633",

}

]

}

}

}

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

Payload:

{

"billPaymentRecurringMessage": {

"@xmlns:xsi": "http://www.w3.org/2001/XMLSchema-instance",

"messageContext": {

“messageContext”: { <see messageContext.xsd>

},

"billPaymentFilter": {

"recurringIdList": {

"recurringId": [

"4553346"

]

},

"accountIDList": {

"accountId": [

"7876654"

]

}

},

"billPaymentRecurringList": {

"billPaymentRecurring": [

{

"recurringId": "4553346",

"recurringAmount": {

"value": "114.12",

"currencyCode": "USD"

},

"lastModifiedDate": "1900-01-01T01:01:01Z",

"recurringConfirmationCode": "recurringConfirmationCode1",

"recurringOccurrenceIdList": {

"occurrenceId": [

"occurrenceId1"

]

},

"billPayeeId": "1234633",

}

]

}

}

}

### REST-JSON DELETE BILL PAYMENT RECURRING EXAMPLE

This example shows call that deletes an existing instance of a recurring bill payment.

REQUEST:

**<security related header parameters... see Security Services>**

Accept: application/json

Accept-Charset: utf-8

Accept-Language: en-us

Content-type: application/json; charset=utf-8

**X-HTTP-Method-Override: DELETE**

X-API-Version: >=3.0.0

**PUT** https://api.dataprovider.com/billPaymentRecurring

{

"billPaymentRecurringMessage": {

"@xmlns:xsi": "http://www.w3.org/2001/XMLSchema-instance",

"messageContext": {

“messageContext”: { <see messageContext.xsd>

},

"billPaymentFilter": {

"recurringIdList": {

"recurringId": [

"4553346"

]

},

"accountIDList": {

"accountId": [

"7876654"

]

}

}

}

}

RESPONSE

Headers:

Status Code: 200 Ok

Content-type: application/json; charset=utf-8

Content-Language: en-us

# General Error handling For All Services

Refer to latest CUFX documentation *Error Mapping*.

# Bibliography

W3C. (n.d.). *Key words for use in RFCs to Indicate Requirement Levels [RFC2119].* Retrieved Sept. 8th, 2011, from W3C.