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Foreword

This IST Technical Specification was developed in accordance with "ÍST Reglur um tækniforskriftir, tækniskýrslur og vinnustofusamþykktir" (*e.* IST rules on Technical Specifications, Technical Reports and Workshop Agreements). It was agreed on a TN-FMÞ-VH1 meeting on the 2020-12-22 by representatives of interested parties, approved and supported by IST following a public call for participation within TN-FMÞ, the FUT technical committee on financial services. It does not necessarily reflect the views of all stakeholders that might have an interest in its subject matter.

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This ÍST TS is based on the results of the work of workgroup TN-FMÞ-VH1 Business claims.

The text of ÍST TS-312 was based on the work of following specialists working in TN-FMÞ-VH-1 in cooperation with the consultant Guðmundur Jón Halldórsson.

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Introduction

This Technical Specification (TS) is written to present a preferred way to implement currencies according to the requirements of the Icelandic banks for implementing in Icelandic finance and banking transactions.

API interfaces enable accounting systems, payment systems, information systems and other systems to exchange data with the banks without registering in traditional online banking. An example of exchanging data with the banks can be through the accounting systems interface. With a click of a button in the accounting system exchange of data is performed by the system in background and latest relevant data is shown in the accounting system.

The Icelandic banks together with RB (Clearing House of Iceland), Central Bank of Iceland, software companies, billing companies, fintech companies and other stakeholders within the TN FMÞ at the Icelandic Standards Council have written a standard on how the banks should conduct electronic interconnection in the construction of Application Programming Interfaces (APIs). The first version of that standard was published in 2007 and was named IOBWS (Icelandic Online Banking Web Service). Six years later, version 2, IOBWS 2.0 of the standard was published. The work was developed to make corrections and upgrade to business operations that were not foreseen in the earlier standard. This document describes the partial results of the third phase of the third IOBWS project, IOBWS 3.0.

It was decided on a TN-FMÞ meeting to give fintech companies and other stakeholders the ability to get more detailed information about both debit and credit cards. This ability will support requesting information details and statement detail about specific cards and answering questions such as when this card will expire. And even details about the kind of withdrawal were done. For example: payment from a smart device.

This document is based on the results from the working group of the TN-FMÞ, VH-1 Financial claims. The following technical specification describes next version of the currency service.

The purpose is to supplement the currencies in the IOBWS standard to better support the Icelandic development community and enable stakeholders to trust the Icelandic banking environment.

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1. Scope

The joint effort to create third version of the IOBWS (Icelandic Online Banking Web Service) is described in ÍST-WA-310. This document describes the currency product and is a part of the third version of IOBWS.

This document reflects the agreement made by TN-FMÞ and is based on the analysis of the working group TN-FMÞ-VH1 Business claims.

2. Normative references, definitions, and symbols

2.1 Definitions

- **CurrencyCode**: in an ISO 4217 standard for all available currencies in the world.
- **Kennitala**: The Icelandic identification number (Icelandic: kennitala, abbreviated kt.) is a unique national identification number used by the Icelandic government to identify individuals and organisations in Iceland.
- **Icelandic IBAN** definition https://en.wikipedia.org/wiki/International_Bank_Account_Number ISO 13616:1997
- **ISO 20022** is an ISO standard for electronic data interchange between financial institutions.
- **eIDAS** – Regulation (EU) No 910/2014 of the European Parliament and of the Council of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC
- **AISP** – Account Information Service Provider – Being an authorised AISP means that business can ask for permission to connect to a bank account and use that bank account information to provide a service.
- **PISP** – Payment Initiation Service Provider – Businesses that are authorised PISP's can ask for permission to connect to a bank account and initiate payments on the customer's behalf, from their bank account.
- **3D** – 3D Secure (3DS) is an additional layer of security for online credit and debit card payments – the most well-known examples being Verified by Visa, Mastercard SecureCode and American Express SafeKey. At the final stage of checkout, it asks the buyer for a password so the bank can authorise the payment.
- **IOBWS 3.0** – This is the acronym of the third version of the Icelandic Open Banking Web Services project and its product.
- **FUT** is the IT sector council at Icelandic standards.
- **TN-FMÞ** - Technical committee on finance services, working under FUT.
- **Berlin group** – The 'Berlin Group' is a pan-European payments interoperability standards and harmonisation initiative with the primary objective of defining open and common scheme- and processor-independent standards in the inter-banking domain between Creditor Bank (Acquirer) and Debtor Bank (Issuer), complementing the work carried out by e.g., the European Payments Council. As such, the Berlin Group has been established as a pure technical standardisation body, focusing on detailed technical and organisational requirements to achieve this primary objective.
- **NextGenPSD2 framework - PSD2** – With [PSD2] the European Union has published a new directive on payment services in the internal market. Among others [PSD2] contains regulations of new services to be operated by so-called Third-Party Payment Service Providers (TPP) on behalf of a Payment Service User (PSU). These new services are:
    - **Payment Initiation Service** (PIS) to be operated by a Payment Initiation Service Provider (PISP) TPP as defined by article 66 of [PSD2]
    - **Account Information Service** (AIS) to be operated by an Account Information Service Provider (AISP) TPP as defined by article 67 of [PSD2], and
    - **Confirmation of the Availability of Funds Service** to be used by Payment Instrument Issuing Service Provider (PIISP) TPP as defined by article 65 of [PSD2].
- **PSU** – Payment Service User. The end-user of payment service.
- **SCA** – Strong Customer Authentication. Defined by the EBA in its RTS on SCA as "an authentication based on the use of two or more elements categorised as knowledge (something only the user knows [for example, a password]), possession (something only the user possesses [for example, a particular cell phone and number]) and inherence (something the user is [or has, for example, a fingerprint or iris pattern]) that are independent, [so] the breach of one does not compromise the others, and is designed in such a way as to protect the confidentiality of the authentication data."
- **Payment service directive** – PSD2 overview.

2.2 Definition of the currency product

The following elements are used to define the card product. It is important to understand the meaning of each element to see how it fits in the big picture:

- Currency: Describes single currency in the ISO 4217 standard. Only currency code and description are used.
- Currency Source: The origin of the currency rate.
- Currency Rate: The buy and sell between two currencies on a specific date.

3. Icelandic domestic adaptions

This chapter concludes the domestic adaptation to the currency products and data model changes.

3.1 Currency products

The workgroup concluded to define the following currency product, defined in detail in Annex:

- **Currency product:** Currency from a specific source with details about the sell and buy rate per day.

3.2 Functional changes & data model changes

The Icelandic definition of the currency service is described in the latest version of the document IOBWS3-0.yaml located at https://github.com/stadlar/IST-FUT-FMTH/tree/master/Deliverables

4 Presumptions, future work, maintenance

4.1 Presumptions

The Icelandic financial sector wants to have unified way to get currency and rate details.

4.2 Future work

- TN-FMÞ has the intention to keep working on developing this document amongst others developed in the IOBWS 3.0 project based on domestic needs.
- TN-FMÞ have arranged for that the delivery of the YAML document will in the Github located at https://github.com/stadlar/IST-FUT-FMTH/tree/master/Deliverables

4.3 Maintenance

As other products of the IOBWS 3.0 project will the maintained by TN-FMÞ.

TN FMÞ agrees that FUTs Github (https://github.com/stadlar/IST-FUT-FMTH/issues) should be used in this maintenance task and issues shall be raised and processed by TN-FMÞ.

Annex A

The following annex describes the next version of the currency service previously described in TS 160:2013 (ICS 03.360, 35.240).

A.1. Introduction

A.1.1 Background

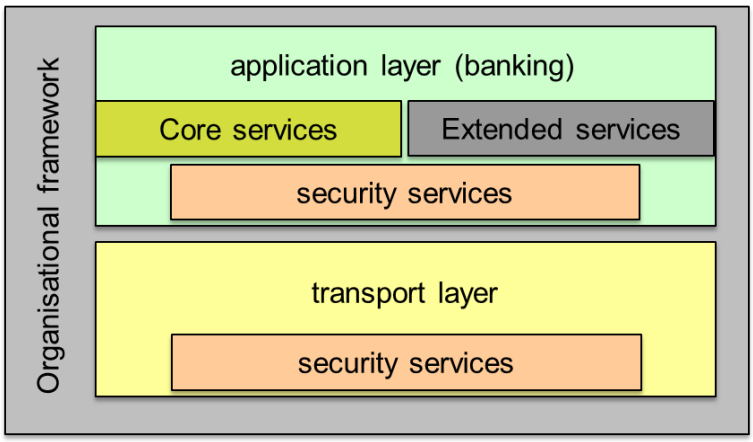
The ASPSP have undertaken the task of describing the next version of the TS 160:2013 Icelandic Online Banking Web Service – Currency rate.

A.1.2 XS2A Interface Specification

This document is a next version of the TS 160:2013 Specification which defines a standard for a currencies Interface and by this reaching interoperability of the interfaces of ASPSPs.

The Currency Interface is designed as a B2B interface between a TPP and the ASPSP server. For the time being, the protocol defined in this document is a pure client-server protocol, assuming the TPP server being the client, i.e. all API calls are initiated by the TPP. In future steps, this protocol might be extended to a server-server protocol, where also the ASPSP initiates API calls towards the TPP.

This document details the standard in defining messages and detailed data structures for currency Interface. For the specification, the two layers shown in the following figure are distinguished:



This document now describes how the existing services for account information can be extended to specifically grant consent only on card accounts and to specifically provide information on card accounts on the level of PANs.

A.2. Character Sets and Notations

For definition on character Sets and Notations as well as for request and response notations refer to Chapter 2 of [XS2A-IG].

A.3. Transport Layer

For details on the transport Layer, please refer to Chapter 3 in [XS2A-IG].

A.4. Application Layer: Guiding Principles

The following extension will define requests for a TPP to get information on currencies.

To specifically request information on one single card, a new "/cards" endpoint is defined. Access to the "/cards" endpoint works in almost any regard analogously to access to a card accounts endpoint with the exception, that the "/card" endpoint provides information on one single card instead of a card account, that might consist of more than one card.

A.4.1 Signing Messages at Application Layer

The ASPSP may require the TPP to sign request messages. This requirement shall be stated in the ASPSP documentation.

A.4.2 API Access Methods

The following table gives an overview on the HTTP access methods supported by the new API endpoint and by resources created through this API.

Endpoints/Resources	Method	Condition	Description
currencies	GET	Mandatory	Read all supported currencies. The ASPSP's might support different currencies and must be documented by the ASPSP. Section A.5.1
currencies/sources	GET	Mandatory	Read the supported currency sources. The ASPSP's must support at least: 1. General (Bank exchange rate) 2. Notes (Banknote exchange rate). Section A.5.2
currencies/{base-currency}/rates	GET	Mandatory	Read the rates for the base currency for a specific date. Return all supported quoted currencies for the currencies the ASPSP supports. Section A.5.3
currencies/{quote-currency}/rates/{base-currency}	GET	Mandatory	Read the rates for the quoted currency for a specific date for only the chosen base currency. Section A.5.4
currencies/{quote-currency}/rates/{base-currency}/history	GET	Mandatory	Section A.5.5

A.5. Currency Requests

Endpoints are defined for this extended service:

A.5.1 Read Currencies

Request

Call

```
GET /v1/currencies
```

Read all supported currencies.

Query Parameters

No query parameter.

Request Header

Attribute	Type	Condition	Description
X-Request-ID	UUID	Mandatory	ID of the request, unique to the call, as determined by the initiating party.
PSU-IP-Address	String	Conditional	The forwarded IP Address header field consists of the corresponding HTTP request IP Address field between PSU and TPP. It shall be contained if and only if this request was actively initiated by the PSU.

Query Parameters

Attribute	Type	Condition	Description
sourceQuery	Currency Source	Optional	The source of the currencies.

Response

Response Code

HTTP Response Code equals 200.

Response Header

Attribute	Type	Condition	Description
X-Request-ID	UUID	Mandatory	ID of the request, unique to the call, as determined by the initiating party.

Response Body

Attribute	Type	Condition	Description
currencies	Array of Currency	Mandatory	Descriptions of the accessible currencies.

Remark: ASPSP might have different list of currencies.

Examples

```
{
  "currencies": [
    {
      "currencyCode": "ISK",
      "description": "Icelandic krona"
    },
    {
      "currencyCode": "EUR",
      "description": "EURO"
    },
  ]
}
```

A.5.2 Read Currency Sources

Request

Call

`GET /v1/currencies/sources`

Reads list of currency sources. Source defines the origin of the currency data.

Path Parameters

No parameters.

Query Parameters

No parameters.

Request Header

Attribute	Type	Condition	Description
X-Request-ID	UUID	Mandatory	ID of the request, unique to the call, as determined by the initiating party.

PSU-IP-Address	String	Conditional	The forwarded IP Address header field consists of the corresponding HTTP request IP Address field between PSU and TPP. It shall be contained if and only if this request was actively initiated by the PSU.

Request Body

No request body.

Response

Response Code

HTTP Response Code equals 200.

Response Header

Attribute	Type	Condition	Description
X-Request-ID	UUID	Mandatory	ID of the request, unique to the call, as determined by the initiating party.

Response Body

Attribute	Type	Condition	Description
sources	List of Currency Source	Mandatory	List of available currency sources. The list can differ between ASPSP.

Example

```
{
  "sources":
    {
      "name": "General"
    },
    {
      "name": "Notes"
    }
}
```

A.5.3 Read Rates for Base Currency

Request

Call

```
GET /v1/currencies/{base-currency}/rates
```

Reads rates for a quoted currency.

Path Parameters

Attribute	Type	Description
base-currency	Currency Code	This defines the base currency.

Query Parameters

Attribute	Type	Condition	Description
sourceQuery	Currency Source	Optional	The source of the currencies.

Request Header

Attribute	Type	Condition	Description
X-Request-ID	UUID	Mandatory	ID of the request, unique to the call, as determined by the initiating party.
PSU-IP-Address	String	Conditional	The forwarded IP Address header field consists of the corresponding HTTP request IP Address field between PSU and TPP. It shall be contained if and only if this request was actively initiated by the PSU.

Request Body

No request body.

Response

Response Code

HTTP Response Code equals 200.

Response Header

Attribute	Type	Condition	Description
X-Request-ID	UUID	Mandatory	ID of the request, unique to the call, as determined by the initiating party.

Response Body

Attribute	Type	Condition	Description
currencyRates	List of currency Rate	Optional	Identifier of the addressed card. **Remark for Future**: Might be mandated in a later version.

Examples

```
{
  "currencyRates":
    {
      "baseCurrency": "ISK",
      "quoteCurrency": "EUR",
      "currencySource": "General",
      "buy": "154.34",
      "sell": "155.26",
      "date": "2020-08-02"
    }
  ]
}
```

A.5.4 Read Rates for Quoted and Base Currency

Request

Call

`GET /v1/currencies/{quote-currency}/rates/{base-currency}`

Reads rates for a quoted currency with defined base currency instead of using ISK as base.

Path Parameters

Attribute	Type	Description
quote-currency	Currency Code	This defines the quoted currency.
base-currency	Currency Code	This defines the base currency.

Query Parameters

Attribute	Type	Condition	Description
sourceQuery	Currency Source	Optional	The source of the currencies.

Request Header

Attribute	Type	Condition	Description
X-Request-ID	UUID	Mandatory	ID of the request, unique to the call, as determined by the initiating party.
PSU-IP-Address	String	Conditional	The forwarded IP Address header field consists of the corresponding HTTP request IP Address field between PSU and TPP. It shall be contained if and only if this request was actively initiated by the PSU.

Request Body

No request body.

Response

Response Code

HTTP Response Code equals 200.

Response Header

Attribute	Type	Condition	Description
X-Request-ID	UUID	Mandatory	ID of the request, unique to the call, as determined by the initiating party.

Response Body

Attribute	Type	Condition	Description
currencyRates	List of currency Rate	Optional	Identifier of the addressed card. **Remark for Future**: Might be mandated in a later version.

Examples

```
{
  "currencyRates":
    {
      "baseCurrency": "ISK",
      "quoteCurrency": "EUR",
      "currencySource": "General",
      "buy": "154.34",
      "sell": "155.26",
      "date": "2020-08-02"
    }
  ]
}
```

A.5.4 Read History Rates for Quoted and Base Currency

Request

Call

```
GET /v1/currencies/{quote-currency}/rates/{base-currency}/history
```

Reads rates for a quoted currency with defined base currency instead of using ISK as base.

Path Parameters

Attribute	Type	Description
quote-currency	Currency Code	This defines the quoted currency.
base-currency	Currency Code	This defines the base currency.

Query Parameters

Attribute	Type	Condition	Description
sourceQuery	Currency Source	Mandatory	The source of the currencies.
dateFrom	Date	Mandatory	Get history from date. The ASPSP does not guarantee history passed 1 year. Please refer to the ASPSP documentation regarding history.
dateTo	Date	Optional	End date for query history, if not defined then the default value will be today.

Request Header

Attribute	Type	Condition	Description
X-Request-ID	UUID	Mandatory	ID of the request, unique to the call, as determined by the initiating party.

PSU-IP-Address	String	Conditional	The forwarded IP Address header field consists of the corresponding HTTP request IP Address field between PSU and TPP. It shall be contained if and only if this request was actively initiated by the PSU.

Request Body

No request body.

Response

Response Code

HTTP Response Code equals 200.

Response Header

Attribute	Type	Condition	Description
X-Request-ID	UUID	Mandatory	ID of the request, unique to the call, as determined by the initiating party.

Response Body

Attribute	Type	Condition	Description
currencyRates	List of currency Rate	Optional	Identifier of the addressed card. **Remark for Future**: Might be mandated in a later version.

Examples

```
{
  "currencyRates":
    {
      "baseCurrency": "ISK",
      "quoteCurrency": "EUR",
      "currencySource": "General",
```

```
      "buy": "154.34",
      "sell": "155.26",
      "date": "2020-08-02"
    }
  ]
}
```

A.7. Complex Data Types

The following data types define currency, source, and rate. This chapter describes the data type definitions.

A.7.1 Currency

Attribute	Type	Condition	Description
currencyCode	Currency Code	Mandatory	Code according to ISO 4217 currency code.
description	Text Max 70	Optional	Currency name or description according to ISO 4217 currency.

A.7.2 Currency Source

Attribute	Type	Condition	Description
description	Text Max 70	Mandatory	Name of the currency source. The ASPSP will return at minimum: - General - Notes

A.7.3 Currency Rate

Attribute	Type	Condition	Description
baseCurrency	Currency Code	Mandatory	The base currency for the rate.
quoteCurrency	Currency Code	Mandatory	The quote currency rate.
currencySource	Max70 Text	Mandatory	The currency source.
buy	Number	Mandatory	The buy rate.
sell	Number	Mandatory	The sell rate.
date	Date	Mandatory	Record date.

A.8. References

[eIDAS]	Regulation (EU) No 910/2014 of the European Parliament and of the Council on Electronic Identification and Trust Services for Electronic Transactions in the Internal Market, 23 July 2014, published 28 August 2014
[PSD2]	Directive (EU) 2015/2366 of the European Parliament and of the Council on payment services in the internal market, published 23 December 2015
[signHTTP]	Signing HTTP messages, Network Working Group, Internet Draft version 10, https://datatracker.ietf.org/doc/draft-cavage-http-signatures/
[HAL]	Kelley, M., "HAL - Hypertext Application Language", 2013-09-18, http://stateless.co/hal_specification.html
[OA-SecTop]	OAuth 2.0 Security Best Current Practice draft-ietf-oauth-security-topics-13, Lodderstedt et al., 8 July 2019, https://tools.ietf.org/html/draft-ietf-oauth-security-topics-13

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