



# Joint Initiative on a PSD2 Compliant XS2A Interface

NextGenPSD2 XS2A Framework

Domestic PIS and AIS Definitions

#### License Notice

This Specification has been prepared by the Participants of the Joint Initiative pan-European PSD2-Interface Interoperability\* (hereafter: Joint Initiative). This Specification is published by the Berlin Group under the following license conditions:

• "Creative Commons Attribution-NoDerivatives 4.0 International Public License"



This means that the Specification can be copied and redistributed in any medium or format for any purpose, even commercially, and when shared, that appropriate credit must be given, a link to the license must be provided, and indicated if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. In addition, if you remix, transform, or build upon the Specification, you may not distribute the modified Specification.

- Implementation of certain elements of this Specification may require licenses under third party intellectual property rights, including without limitation, patent rights. The Berlin Group or any contributor to the Specification is not, and shall not be held responsible in any manner for identifying or failing to identify any or all such third party intellectual property rights.
- The Specification, including technical data, may be subject to export or import regulations in different countries.
   Any user of the Specification agrees to comply strictly with all such regulations and acknowledges that it has the responsibility to obtain licenses to export, re-export, or import (parts of) the Specification.

-

<sup>\*</sup> The 'Joint Initiative pan-European PSD2-Interface Interoperability' brings together participants of the Berlin Group with additional European banks (ASPSPs), banking associations, payment associations, payment schemes and interbank processors.

### **Contents**

| 1 | Intro | duction   | 1  |
|---|-------|---|----|
|   | 1.1   | Background  | 1  |
|   | 1.2   | Domestic Payment and Account Information Definitions    | 2  |
|   | 1.3   | Structure of the Document                               | 2  |
|   | 1.4   | Document History  | 4  |
| 2 | JSO   | N based Domestic Payment Products and Extensions of SCT | 5  |
|   | 2.1   | Austria   | 5  |
|   | 2.2   | Bulgaria  | 7  |
|   | 2.3   | Croatia   | 9  |
|   | 2.4   | Czech Republic  | 11 |
|   |       | 2.4.1 Priority Code (analogy to Priority3Code in ISO)   | 12 |
|   |       | 2.4.2 Substructure for Remittance Type                  | 12 |
|   | 2.5   | Denmark   | 13 |
|   | 2.6   | Hungary   | 14 |
|   | 2.7   | Netherlands   | 18 |
|   | 2.8   | Norway  | 19 |
| 3 | XML   | based Community Wide Definitions                        | 20 |
|   | 3.1   | Croatia   | 20 |
|   | 3.2   | Hungary   | 20 |
| 4 | Dom   | estic AIS Functionality                                 | 21 |
|   | 4.1   | Czech Republic  | 21 |
|   | 4.2   | Denmark   | 21 |
|   | 4.3   | Hungary   | 31 |
| 5 | Com   | mon Structured Data Types                               | 32 |
| 6 | Refe  | rences  | 35 |

#### 1 Introduction

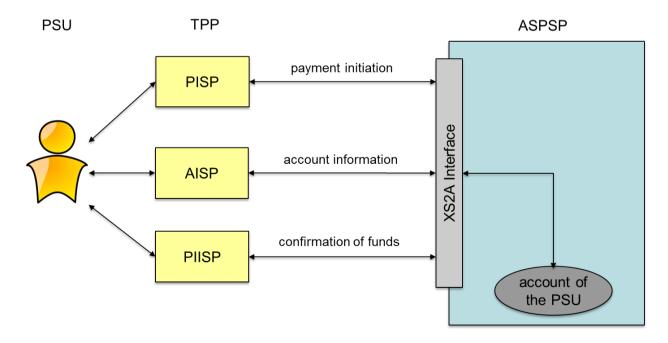
### 1.1 Background

With [PSD2] the European Union has published a new directive on payment services in the internal market. Member States had to adopt this directive into their national law until 13<sup>th</sup> of January 2018.s

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].

For operating the new services a TPP needs to access the account of the PSU which is usually managed by another PSP called the Account Servicing Payment Service Provider (ASPSP). As shown in the following figure, an ASPSP has to provide an interface (called "PSD2 compliant Access to Account Interface" or short "XS2A Interface") to its systems to be used by a TPP for necessary accesses regulated by [PSD2]:



Further requirements on the implementation and usage of this interface are defined by a Regulatory Technical Standard (short RTS) from the European Banking Authority (short EBA), published in the Official Journal of the European Commission.

### 1.2 Domestic Payment and Account Information Definitions

The Implementation Guidelines of the NextGenPSD2 Interface define Core JSON structures for payment initiations. These core definitions on SEPA Credit Transfers, SEPA Instant Credit Transfers, Target-2 Payments and Cross-border Payments define formats which would work for all ASPSPs which offer the related payment products in JSON encoding in the XS2A interface. Communities of ASPSPs might liberalize the mandated field usage of attributes of the core definitions or extend them by the optional usage of more data attributes. In addition, endpoint formats for domestic payment products in JSON format might be defined on domestic level. These very specific requirements on domestic payment formats in some markets also lead to specific requirements on the AIS definitions, specifically transaction reporting in JSON, which are not (yet) covered by the overall data model. In addition, this document will cover definitions of domestic identification schemes for domestic payment formats.

In both cases, some communities have defined these extensions or domestic JSON payment formats. In additions, communities might use common specific XML formats for payments.

In addition, some communities have extended the JSON structures for transaction information within AIS. The reason is that in the related online banking systems more information is provided than supported by the core NextGenPSD2 API definitions or even by ISO20022.

This document contains all such information for several markets in Europe in an overview.

This information is independent of the Implementation Guideline Version. More detailed information might be found by community documentation. Community documentation where available is always assumed to be the normative reference.

Please note that some of the technical extensions defined in this document might be integrated by the core NextGenPSD2 API at a later stage.

#### 1.3 Structure of the Document

Chapter 2 contains extensions of community defined extension of Core JSON payment formats or JSON formats for domestic payment products.

Chapter 3 contains references to XML schema definitions of several communities for payment initiations which can be used for XML based payment endpoints.

Chapter 4 describes extensions of the JSON based AIS functionality by communities for offering domestic payments' specifics or more information than supported today by the central NextGenPSD2 data model for AIS.

Chapter 5 contains structured data types common to the extended PIS and AIS functionality. Please note that these new data types are most likely be integrated into the core NextGenPSD2 data model in a future version of this specification.

# 1.4 Document History

| Version    | Change  | Approved by                      |
|------------|---|----------------------------------|
| 2019-03-29 | Initial Version   | NextGenPSD2 Taskforce            |
| 2019-07-05 | Updated Version:  | NextGenPSD2 Taskforce            |
|            | Change on Format of creditorAgentName.  |                                  |
|            | Added a new payment type for the Norwegian Market   |                                  |
| 2020-03-27 | Updated Version   | NextGenPSD2 Taskforce            |
|            | Add specific Hungarian Payment Products for JSON and XML  |                                  |
|            | Add specific Danish AIS requirements  |                                  |
|            | Add a Section on commonly used structured data types  |                                  |
| 2020-07-30 | Updated Version   | NextGenPSD2 Taskforce 2020-07-30 |
|            | Extended the introduction by explaining the need for AIS extensions and new structured data types | 2020-07-30                       |
|            | Add specific Hungarian AIS definitions for JSON as a new section 4.3                              |                                  |
|            | Add a new section 2.4 on domestic payment formats for the Czeck market.                           |                                  |
|            | Add a new section 4.1 on domestic AIS additions for the Czeck market.                             |                                  |

### 2 JSON based Domestic Payment Products and Extensions of SCT

The ASPSPs of the communities named hereafter supporting the XS2A interface extend the permitted data elements for the SCT, SCT INST, Target2 Payments and Cross Border Credit Transfer core formats, as defined in [XS2A-IG] to the following extended format. The extended data elements are coloured.

### 2.1 Austria

| Data Element                               | Туре                        | SCT Core  | SCT INST  | Target2   | Cross Border |
|--|-----------------------------|-----------|-----------|-----------|--------------|
|  |                             |           | Core      | Paym Core | CT Core      |
| endToEnd<br>Identification                 | Max35Text                   | optional  | optional  | optional  | optional     |
| debtorAccount (incl. type)                 | Account<br>Reference        | mandatory | mandatory | mandatory | mandatory    |
| debtorld                                   | Max35Text                   | n.a.      | n.a.      | n.a.      | n.a.         |
| ultimateDebtor                             | Max70Text                   | optional  | optional  | n.a.      | n.a.         |
| instructedAmount (inc. Curr.)              | Amount                      | mandatory | mandatory | mandatory | mandatory    |
| currencyOfTransfer <sup>2</sup>            | Currency<br>Code            | n.a.      | n.a.      | n.a.      | optional     |
| exchangeRateInformation                    | Payment<br>Exchange<br>Rate | n.a.      | n.a.      | n.a.      | n.a.         |
| creditorAccount                            | Account<br>Reference        | mandatory | mandatory | mandatory | optional     |
| creditorAgent                              | BICFI                       | optional  | optional  | optional  | conditional  |
| creditorAgentName                          | Max140Text                  | n.a.      | n.a.      | n.a.      | optional     |
| creditorName                               | Max70Text                   | mandatory | mandatory | mandatory | mandatory    |
| creditorld                                 | Max35Text                   | optional  | optional  | n.a.      | n.a.         |
| creditorAddress                            | Address                     | optional  | optional  | optional  | conditional  |
| creditorNameAnd<br>Address                 | Max140Text                  | n.a.      | n.a.      | n.a.      | n.a.         |
| ultimateCreditor                           | Max70Text                   | optional  | optional  | n.a.      | n.a.         |
| purposeCode                                | Purpose<br>Code             | optional  | optional  | n.a.      | optional     |
| chargeBearer                               | Charge<br>Bearer            | n.a.      | n.a.      | optional  | conditional  |
| serviceLevel                               | Service<br>Level Code       | n.a.      | n.a.      | n.a.      | n.a.         |
| remittanceInformation Unstructured         | Max140Text                  | optional  | optional  | optional  | optional     |
| remittanceInformation<br>UnstructuredArray | Array of<br>Max140Text      | n.a.      | n.a.      | n.a.      | n.a.         |

Page 5

<sup>&</sup>lt;sup>2</sup> This is a data element to indicate a diverging interbank currency.

NextGenPSD2 XS2A Framework – Domestic AIS and PIS Functions JSON based Domestic Payment Products and Extensions of SCT

| Data Element          | Туре       | SCT Core | SCT INST | Target2   | Cross Border |
|-----------------------|------------|----------|----------|-----------|--------------|
|                       |            |          | Core     | Paym Core | CT Core      |
| remittanceInformation | Remittance | optional | optional | n.a.      | n.a.         |
| Structured            |            |          |          |           |              |
| requestedExecution    | ISODate    | optional | optional | n.a.      | optional     |
| Date                  |            |          |          |           |              |
| requestedExecution    | ISODateTim | n.a.     | optional | n.a.      | n.a.         |
| Time                  | е          |          |          |           |              |

### 2.2 Bulgaria

| Data Element                               | Туре                         | domestic-<br>budget-<br>transfers-<br>BGN | domestic-<br>credit-<br>transfers-<br>BGN | sepa-credit-<br>Transfers | Cross-<br>border CT<br>(non<br>SEPA) |
|--|------------------------------|---|---|---------------------------|--------------------------------------|
| endToEndIdentification                     | Max35Text                    | optional                                  | optional                                  | optional                  | optional                             |
| debtorAccount (incl. type)                 | Account<br>Reference         | mandatory                                 | mandatory                                 | mandatory                 | mandatory                            |
| debtorId                                   | Max35Text                    | n.a.                                      | n.a.                                      | n.a.                      | n.a.                                 |
| ultimateDebtor                             | Max70Text                    | mandatory                                 | n.a.                                      | n.a.                      | n.a.                                 |
| instructedAmount (inc. Curr.)              | Amount                       | mandatory                                 | mandatory                                 | mandatory                 | mandatory                            |
| currencyOfTransfer                         | Currency<br>Code             | n.a.                                      | n.a.                                      | n.a.                      | n.a.                                 |
| creditorAccount                            | Account<br>Reference         | mandatory                                 | mandatory                                 | mandatory                 | mandatory                            |
| creditorAgent                              | BICFI                        | optional                                  | optional                                  | optional                  | optional                             |
| creditorAgentName <sup>3</sup>             | Max 140Text                  | n.a.                                      | n.a.                                      | n.a.                      | optional                             |
| creditorName                               | Max70Text                    | mandatory                                 | mandatory                                 | mandatory                 | mandatory                            |
| creditorId                                 | Max35Text                    | n.a.                                      | n.a.                                      | n.a.                      | n.a.                                 |
| creditorAddress                            | Address                      | optional                                  | optional                                  | optional                  | mandatory                            |
| ultimateCreditor                           | Max70Text                    | n.a.                                      | n.a.                                      | n.a.                      | n.a.                                 |
| purposeCode                                | Purpose Code                 | mandatory                                 | n.a.                                      | n.a.                      | n.a.                                 |
| chargeBearer                               | Charge Bearer<br>Code        | n.a.                                      | n.a.                                      | optional                  | conditional                          |
| serviceLevel                               | Service Level<br>Code        | optional                                  | optional                                  | optional                  | optional                             |
| remittance Information Unstructured        | Max140Text                   | mandatory                                 | mandatory                                 | optional                  | optional                             |
| remittanceInformation<br>UnstructuredArray | Array of<br>Max140Text       | n.a.                                      | n.a.                                      | n.a.                      | n.a.                                 |
| remittanceInformationStructured            | Remittance                   | n.a.                                      | n.a.                                      | n.a.                      | n.a.                                 |
| requested Execution Date                   | ISODate                      | n.a.                                      | n.a.                                      | n.a.                      | n.a.                                 |
| requestedExecutionTime                     | ISODateTime                  | n.a.                                      | n.a.                                      | n.a.                      | n.a.                                 |
| budgetPaymentDetails                       | Budget<br>Payment<br>Details | mandatory                                 | n.a.                                      | n.a.                      | n.a.                                 |

<sup>&</sup>lt;sup>3</sup> There is the need also to transport address information for creditor agents in rare cases. The next version of this document will support a mechanism for this need.

The Budget Payment Details will not be considered further in this document. This attribute is specified by the Bulgarian community.

### 2.3 Croatia

| Data Element                   | Туре                     | sepa-credit-<br>transfers | target-2-<br>payments | cross-<br>border-<br>credit-<br>transfers | domestic-<br>credit-<br>transfers-<br>hr | instant-<br>domestic-<br>credit-<br>transfers-<br>hr | hr-rtgs-<br>payments |
|--------------------------------|--------------------------|---------------------------|-----------------------|---|--|--|----------------------|
| endToEndIdentification         | Max35Text                | optional <sup>1</sup>     | optional              | optional                                  | optional <sup>1</sup>                    | optional <sup>1</sup>                                | optional             |
| debtorAccount (incl. type)     | Account<br>Reference     | mandatory                 | mandatory             | mandatory                                 | mandatory                                | mandatory  | mandatory            |
| debtorId                       | Max 35Text               | n.a.                      | n.a.                  | n.a.                                      | n.a.                                     | n.a.   | n.a.                 |
| ultimateDebtor                 | Max70Text                | optional                  | n.a.                  | n.a.                                      | optional                                 | optional   | n.a.                 |
| instructedAmount (inc. Curr.)  | Amount                   | mandatory                 | mandatory             | mandatory                                 | mandatory                                | mandatory  | mandatory            |
| currencyOfTransfer             | Currency Code            | n.a.                      | n.a.                  | n.a.                                      | n.a.                                     | n.a.   | n.a.                 |
| exchangeRateInformation        | Payment<br>Exchange Rate | n.a.                      | n.a.                  | n.a.                                      | n.a.                                     | n.a.   | n.a.                 |
| creditorAccount                | Account<br>Reference     | mandatory                 | mandatory             | mandatory                                 | mandatory                                | mandatory  | mandatory            |
| creditorAgent <sup>6</sup>     | BICFI                    | optional                  | optional              | conditional                               | n.a.                                     | n.a.   | n.a.                 |
| creditorAgentName <sup>6</sup> | Max140Text               | n.a.                      | n.a.                  | optional                                  | n.a.                                     | n.a.   | n.a.                 |
| creditorName                   | Max70Text                | mandatory                 | mandatory             | mandatory                                 | mandatory                                | mandatory  | mandatory            |
| creditorId                     | Max 35Text               | n.a                       | n.a.                  | n.a.                                      | n.a.                                     | n.a.   | n.a.                 |
| creditorAddress <sup>6</sup>   | Address                  | optional                  | optional              | conditional                               | optional                                 | optional   | optional             |
| creditorNameAnd<br>Address     | Max140Text               | n.a.                      | n.a.                  | n.a.                                      | n.a.                                     | n.a.   | n.a.                 |
| ultimateCreditor               | Max70Text                | optional                  | n.a.                  | n.a.                                      | optional                                 | optional   | n.a.                 |
| purposeCode                    | Purpose Code             | optional                  | n.a.                  | n.a.                                      | optional                                 | optional   | optional             |
| chargeBearer <sup>6</sup>      | Charge Bearer            | n.a.                      | optional <sup>4</sup> | conditional <sup>4</sup>                  | n.a.                                     | n.a.   | n.a.                 |
| serviceLevel                   | Service Level<br>Code    | n.a.                      | n.a.                  | n.a.                                      | n.a.                                     | n.a.   | n.a.                 |

| Data Element                            | Туре                   | sepa-credit-<br>transfers | target-2-<br>payments | cross-<br>border-<br>credit-<br>transfers | domestic-<br>credit-<br>transfers-<br>hr | instant-<br>domestic-<br>credit-<br>transfers-<br>hr | hr-rtgs-<br>payments |
|---|------------------------|---------------------------|-----------------------|---|--|--|----------------------|
| remittance Information Unstructured     | Max140Text             | optional                  | optional              | optional                                  | mandatory                                | mandatory  | mandatory            |
| remittanceInformationUnstructured Array | Array of<br>Max140Text | n.a.                      | n.a.                  | n.a.                                      | n.a.                                     | n.a.   | n.a.                 |
| remittanceInformationStructured         | Remittance             | optional <sup>2</sup>     | n.a.                  | n.a.                                      | optional <sup>2</sup>                    | optional <sup>2</sup>                                | optional             |
| requestedExecutionDate                  | ISODate                | optional                  | optional              | optional                                  | optional                                 | optional   | optional             |
| requestedExecutionTime                  | ISODateTime            | n.a.                      | n.a.                  | n.a.                                      | n.a.                                     | n.a.   | n.a.                 |

<sup>&</sup>lt;sup>1</sup> Debtor's reference; if ommited, for domestic payments (inside Croatia) default is HR99

<sup>&</sup>lt;sup>2</sup> Creditor's reference; if ommited, for domestic payments (inside Croatia) default is HR99<sup>3</sup>

<sup>&</sup>lt;sup>4</sup> If ommited, for payments inside EEA default is SHA

<sup>&</sup>lt;sup>6</sup> Creditor agent BIC or creditor agent name, charge bearer and creditor address are mandatory for cross-border payments if creditor agent is outside EEA

### 2.4 Czech Republic

The following payment product definitions are supported at least by UniCredit for the Czech Republic market.

| Data Element                             | Туре                     | SCT<br>EU<br>Core | SCT<br>INST<br>EU<br>Core | Target2<br>Paym.<br>Core | Cross<br>Border<br>CT<br>Core | Domestic<br>credit<br>transfers<br>CZ |
|--|--------------------------|-------------------|---------------------------|--------------------------|-------------------------------|---------------------------------------|
|  | T                        | 1                 | T                         | 1                        | 1                             |                                       |
| endToEndIdentification                   | Max35Text                | 0                 | 0                         | 0                        | n.a.                          | С                                     |
| instructionIdentification                | Max35Text                | n.a.              | n.a.                      | n.a.                     | n.a.                          | С                                     |
| debtorAccount (incl. type)               | Account<br>Reference     | m                 | m                         | m                        | m                             | m                                     |
| debtorld                                 | Max35Text                | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| ultimateDebtor                           | Max70Text                | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| instructedAmount (incl. Currency.)       | Amount                   | m                 | m                         | m                        | m                             | m                                     |
| currencyOfTransfer                       | Currency Code            | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| exchangeRateInformation                  | Payment<br>Exchange Rate | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| creditorAccount                          | Account<br>Reference     | m                 | m                         | m                        | m                             | m                                     |
| creditorAgent                            | BICFI                    | О                 | 0                         | 0                        | С                             | n.a.                                  |
| creditorAgentName                        | Max105Text               | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| creditorName                             | Max70Text                | m                 | m                         | m                        | m                             | n.a.                                  |
| creditorId                               | Max35Text                | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| creditorAddress                          | Address                  | О                 | 0                         | 0                        | С                             | n.a.                                  |
| creditorNameAndAddress                   | Max140Text               | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| ultimateCreditor                         | Max70Text                | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| purposeCode                              | Purpose Code             | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| chargeBearer                             | Charge Bearer            | n.a.              | n.a.                      | 0                        | С                             | n.a.                                  |
| serviceLevel                             | Service Level<br>Code    | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| remittanceInformationUnstructured        | Max140Text               | 0                 | 0                         | 0                        | 0                             | 0                                     |
| remittanceInformationUnstructured Array  | Array of<br>Max140Text   | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| remittanceInformationStructured          | Remittance               | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| remittanceInformationStructured<br>Array | Array of Remittance      | n.a.              | n.a.                      | n.a.                     | n.a.                          | 0                                     |
| requestedExecutionDate                   | ISODate                  | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| requestedExecutionTime                   | ISODateTime              | n.a.              | n.a.                      | n.a.                     | n.a.                          | n.a.                                  |
| instructionPriority                      | Priority Code            | n.a.              | n.a.                      | n.a.                     | n.a.                          | 0                                     |

## 2.4.1 Priority Code (analogy to Priority3Code in ISO)

| Туре | Description                                 |
|------|---|
| NORM | Standard payment with normal priority (D+1) |
| HIGH | Standard payment with high priority (D+0)   |
| URGT | Urgent Payment (Instant Payment)            |

# 2.4.2 Substructure for Remittance Type

| Attribute       | Туре      | Condition | Description                    |
|-----------------|-----------|-----------|--------------------------------|
| reference       | Max35Text | Mandatory | The actual reference.          |
| referenceType   | Max35Text | Mandatory | The only permitted entries are |
|                 |           |           | variableCode,                  |
|                 |           |           | specificCode,                  |
|                 |           |           | constantCode                   |
| referencelssuer | Max35Text | Optional  |                                |

### 2.5 Denmark

| Data Element                            | Туре                     | danish-<br>domestic-<br>credit-<br>transfers | instant-<br>danish-<br>domestic-<br>credit-<br>transfers- | intraday-<br>danish-<br>domestic-<br>credit-<br>transfers |
|---|--------------------------|--|---|---|
| endToEndIdentification                  | Max35Text                | optional                                     | optional  | optional  |
| debtorAccount (incl. type)              | Account<br>Reference     | mandatory                                    | mandatory   | mandatory   |
| debtorId                                | Max 35Text               | optional                                     | optional  | optional  |
| ultimateDebtor                          | Max70Text                | optional                                     | optional  | optional  |
| instructedAmount (inc. Curr.)           | Amount                   | mandatory                                    | mandatory   | mandatory   |
| currencyOfTransfer4                     | Currency Code            | n.a.   | n.a.  | n.a.  |
| exchangeRateInformation                 | Payment<br>Exchange Rate | n.a.   | n.a.  | n.a.  |
| creditorAccount                         | Account<br>Reference     | mandatory                                    | mandatory   | mandatory   |
| creditorId                              | Max 35Text               | optional                                     | optional  | optional  |
| creditorAgent                           | BICFI                    | optional                                     | optional  | optional  |
| creditorAgentName                       | Max140Text               | n.a.   | n.a.  | n.a.  |
| creditorName                            | Max70Text                | Optional                                     | Optional  | Optional  |
| creditorAddress                         | Address                  | optional                                     | optional  | optional  |
| creditorNameAnd<br>Address              | Max140Text               | n.a.   | n.a.  | n.a.  |
| ultimateCreditor                        | Max70Text                | optional                                     | optional  | optional  |
| purposeCode                             | Purpose Code             | optional                                     | optional  | optional  |
| remittanceInformationUnstructured       | Max140Text               | n.a.   | n.a.  | n.a.  |
| remittanceInformationUnstructured Array | Array of<br>Max140Text   | optional                                     | optional  | optional  |
| remittanceInformationStructured         | Remittance               | optional                                     | optional  | optional  |
| requestedExecutionDate                  | ISODate                  | Mandatory                                    | n.a.  | n.a.  |
| requestedExecutionTime                  | ISODateTime              | n.a.   | n.a.  | n.a   |

<sup>&</sup>lt;sup>4</sup> This is a data element to indicate a diverging interbank transaction currency.

# 2.6 Hungary

The following payment product definitions are supported at least by RBI, Unicredit and Erste Group for the Hungarian market.

| Data Element                    | Туре                        | SCT Core  | SCT INST<br>Core | HCT Core  | HCT Inst    | Target2<br>Paym<br>Core | Cross Border<br>CT Core |
|---------------------------------|-----------------------------|-----------|------------------|-----------|-------------|-------------------------|-------------------------|
| endToEnd<br>Identification      | Max35Text                   | optional  | optional         | optional  | optional    | optional                | optional                |
| debtorAccount (incl. type)      | Account<br>Reference        | mandatory | mandatory        | mandatory | mandatory   | mandatory               | mandatory               |
| debtorldentification            | Party<br>Identification     | n.a.      | n.a.             | optional  | optional    | n.a.                    | n.a.                    |
| ultimateDebtor                  | Max70Text                   | optional  | optional         | optional  | optional    | n.a.                    | n.a.                    |
| ultimateDebtorIdentificatio n   | Party<br>Identification     | n.a.      | n.a.             | optional  | optional    | n.a.                    | n.a.                    |
| instructedAmount (inc. Curr.)   | Amount                      | mandatory | mandatory        | mandatory | mandatory   | mandatory               | mandatory               |
| currencyOfTransfer <sup>2</sup> | Currency<br>Code            | n.a.      | n.a.             | n.a.      | n.a.        | n.a.                    | optional                |
| exchangeRateInformation         | Payment<br>Exchange<br>Rate | n.a.      | n.a.             | n.a.      | n.a.        | n.a.                    | n.a.                    |
| creditorAccount                 | Account<br>Reference        | mandatory | mandatory        | mandatory | mandatory   | mandatory               | optional                |
| creditorAgent                   | BICFI                       | optional  | optional         | n.a.      | n.a.        | optional                | conditional             |
| creditorAgentName               | Max70Text                   | n.a.      | n.a.             | n.a.      | n.a.        | n.a.                    | optional                |
| creditorName                    | Max70Text                   | mandatory | mandatory        | mandatory | conditional | mandatory               | mandatory               |
| creditorId                      | Max35Text                   | n.a.      | n.a.             | n.a.      | n.a.        | n.a.                    | n.a.                    |
| creditorIdentification          | Party<br>Identification     | Optional  | Optional         | Optional  | Optional    | n.a.                    | n.a.                    |
| creditorAddress                 | Address                     | optional  | optional         | n.a.      | n.a.        | optional                | conditional             |

| Data Element                               | Туре                                | SCT Core | SCT INST<br>Core | HCT Core | HCT Inst | Target2<br>Paym<br>Core | Cross Border<br>CT Core |
|--|-------------------------------------|----------|------------------|----------|----------|-------------------------|-------------------------|
| creditorNameAnd<br>Address                 | Max140Text                          | n.a.     | n.a.             | n.a.     | n.a.     | n.a.                    | n.a.                    |
| ultimateCreditor                           | Max70Text                           | optional | optional         | optional | optional | n.a.                    | n.a.                    |
| ultimateCreditorIdentificati<br>on         | Party<br>Identification             | n.a.     | n.a.             | optional | optional | n.a.                    | n.a.                    |
| purposeCode                                | Purpose<br>Code                     | optional | optional         | optional | optional | n.a.                    | optional                |
| chargeBearer                               | Charge<br>Bearer                    | n.a.     | n.a.             | n.a.     | n.a.     | optional                | conditional             |
| serviceLevel                               | Service Level<br>Code               | n.a.     | n.a.             | n.a.     | n.a.     | n.a.                    | n.a.                    |
| remittanceInformation Unstructured         | Max140Text                          | optional | optional         | optional | optional | optional                | optional                |
| remittanceInformation<br>UnstructuredArray | Array of<br>Max140Text              | n.a.     | n.a.             | n.a.     | n.a.     | n.a.                    | n.a.                    |
| remittanceInformation<br>Structured        | Remittance                          | optional | optional         | optional | optional | n.a.                    | n.a.                    |
| requestedExecution Date                    | ISODate                             | optional | optional         | optional | n.a.     | n.a.                    | optional                |
| requestedExecution<br>Time                 | ISODateTim<br>e                     | n.a.     | optional         | n.a.     | n.a.     | n.a.                    | n.a.                    |
| categoryPurpose                            | Category<br>Purpose Code            | n.a.     | n.a.             | optional | optional | n.a.                    | n.a.                    |
| categoryPurposeProprietar<br>y             | Max35Text                           | n.a.     | n.a.             | Optional | Optional | n.a.                    | n.a.                    |
| regulatoryReporting                        | Array of<br>Regulatory<br>Reporting | n.a.     | n.a.             | n.a.     | optional |                         |                         |

#### Additional notes:

• All defined data elements are expected to be available also in bulk and periodic payments. Bulk payments might be offered in XML structure instead, cp. Section 3.2.

#### **Identification Elements:**

The following extended identification elements have been added specifically for the domestic Hungarian payment methods:

creditorIdentification, ultimateCreditorIdentification, debtorIdentification, ultimateDebtorIdentification to support the need to transport more information about the related parties. For a detailed type specification please compare Section 5 of this document.

The short attribute creditorId for the SEPA payment is also still addressable for downward compatibility for SEPA payment instruments.

#### **Extended Account Reference**

For the domestic Hungarian payment products, the account reference type is extended by an "other" structure, cp. Section 5 of this document. ASPSP will document which proprietary aliases they will support.

### **Regulatory Reporting Array**

The array contains at least one, but no more than ten (to avoid overloading) element of Regulatory Reporting. The array shall not contain duplicate detailsCode.

### **Regulatory Reporting Data Type**

Countries may require the TPPs to attach additional data about the transfer order. The regulatory reporting allows this data to appear in an extensible type and value format. ASPSPs must ensure that TPPs could attach any identifier type (and the connected value), but only required to handle the ones, that their local regulation requires.

| Data Element       | Туре      | SCT Core | SCT INST | HCT Core | HCT Inst  | Target2   | Cross Border |
|--------------------|-----------|----------|----------|----------|-----------|-----------|--------------|
|                    |           |          | Core     |          |           | Paym Core | CT Core      |
| detailsCode        | Max35Text | n.a.     | n.a.     | n.a.     | mandatory | n.a.      | n.a.         |
| detailsInformation | Max35Text | n.a.     | n.a.     | n.a.     | mandatory | n.a.      | n.a.         |

detailsCode: defines the type of information provided in the detailsInformation attribute. Predefined values are:

- merchantDeviceId
- shopId
- invoiceId
- customerld
- credTranId
- loyaltyld
- navCheckId

detailsInformation: any data in connection to the type defined in detailsCode. ASPSPs should document any formatting rules to meet. Rules may depend on the detailsCode value.

### 2.7 Netherlands

| Data Element                                       | Туре                        | SCT EU Core | SCT INST EU<br>Core | Target2<br>Paym. Core | Cross<br>Border CT<br>Core |
|--|-----------------------------|-------------|---------------------|-----------------------|----------------------------|
| endToEnd<br>Identification                         | Max35Text                   | optional    | optional            | optional              | n.a.                       |
| debtorAccount (incl. type)                         | Account<br>Reference        | optional    | optional            | optional              | optional                   |
| debtorld   | Max35Text                   | n.a.        | n.a.                | n.a.                  | n.a.                       |
| ultimateDebtor                                     | Max70Text                   | n.a.        | n.a.                | n.a.                  | n.a.                       |
| instructedAmount (inc. Curr.)                      | Amount                      | mandatory   | mandatory           | mandatory             | mandatory                  |
| currencyOfTransfer                                 | Currency<br>Code            | n.a.        | n.a.                | n.a.                  | n.a.                       |
| exchangeRateInformatio<br>n                        | Payment<br>Exchange<br>Rate | n.a.        | n.a.                | n.a.                  | n.a.                       |
| creditorAccount                                    | Account<br>Reference        | mandatory   | mandatory           | mandatory             | mandatory                  |
| creditorAgent                                      | BICFI                       | optional    | optional            | optional              | conditional                |
| creditorAgentName                                  | Max140Text                  | n.a.        | n.a.                | n.a.                  | n.a.                       |
| creditorName                                       | Max70Text                   | mandatory   | mandatory           | mandatory             | mandatory                  |
| creditorId   | Max35Text                   | n.a.        | n.a.                | n.a.                  | n.a.                       |
| creditorAddress                                    | Address                     | optional    | optional            | optional              | conditional                |
| creditorNameAnd<br>Address                         | Max140Text                  | n.a.        | n.a.                | n.a.                  | n.a.                       |
| ultimateCreditor                                   | Max70Text                   | n.a.        | n.a.                | n.a.                  | n.a.                       |
| purposeCode  | Purpose<br>Code             | n.a.        | n.a.                | n.a.                  | n.a.                       |
| chargeBearer                                       | Charge<br>Bearer            | n.a.        | n.a.                | optional              | conditional                |
| serviceLevel                                       | Service<br>Level Code       | n.a.        | n.a.                | n.a.                  | n.a.                       |
| remittance<br>Information<br>Unstructured          | Max140Text                  | optional    | optional            | optional              | optional                   |
| remittance<br>Information<br>Unstructured<br>Array | Array of<br>Max140Text      | n.a.        | n.a.                | n.a.                  | n.a.                       |
| remittance<br>Information<br>Structured            | Remittance                  | n.a.        | n.a.                | n.a.                  | n.a.                       |
| requestedExecution<br>Date                         | ISODate                     | n.a.        | n.a.                | n.a.                  | n.a.                       |
| requestedExecution Time                            | ISODateTim<br>e             | n.a.        | n.a.                | n.a.                  | n.a.                       |

### 2.8 Norway

| Data Element                            | Туре                 | norwegia<br>n-<br>domestic-<br>credit-<br>transfers | instant-<br>norwegian-<br>domestic-<br>credit-<br>transfers-<br>straks | instant-<br>norwegian-<br>domestic-<br>credit-<br>transfers<br>(FUTURE) | Norwegian-<br>domestic-<br>payment-to-<br>self |
|---|----------------------|---|--|---|--|
| endToEndIdentification                  | Max35Text            | n.a.  | n.a.   | n.a.  | optional                                       |
| debtorAccount                           | Account<br>Reference | mandatory   | mandatory  | mandatory   | mandatory                                      |
| ultimateDebtor                          | Max70Text            | optional  | optional   | optional  | n.a.   |
| instructedAmount                        | Amount               | mandatory   | mandatory  | mandatory   | n.a.   |
| creditorAccount                         | Account<br>Reference | mandatory   | mandatory  | mandatory   | mandatory                                      |
| creditorAgent                           | BICFI                | optional  | optional   | optional  | n.a.   |
| creditorName                            | Max70Text            | mandatory   | mandatory  | mandatory   | mandatory                                      |
| creditorAddress                         | Address              | optional  | optional   | optional  | n.a  |
| ultimateCreditor                        | Max70Text            | optional  | optional   | optional  | n.a.   |
| purposeCode                             | Purpose<br>Code      | optional  | optional   | optional  | optional                                       |
| remittanceInformation Unstructured      | Max140Text           | optional  | optional   | optional  | n.a.   |
| Remittance<br>Information<br>Structured | Remittance           | optional  | optional   | optional  | n.a  |
| requestedExecution Date                 | ISODate              | Optional  | n.a.   | n.a.  | n.a.   |
| requestedExecution<br>Time              | ISODate<br>Time      | n.a.  | n.a.   | optional  | n.a.   |

### 3 XML based Community Wide Definitions

#### 3.1 Croatia

For bulk-payments Croatia will only support pain.001 XML format according to Croatian national schema, which is already defined and in use, as described on national SEPA portal (http://www.sepa.hr/upute-za-korisnike/shema-za-sepa-kreditni-transfer/), with XSD schema published here:

http://www.sepa.hr/wp-content/uploads/2015/06/sepa.hr\_.pain\_.001.001.03\_07052015\_xsd.rar.

Since Croatian schema assumes that one bulk can consist of different payment products (both SEPA and domestic and cross-border), there is no need for different payment products on bulk payments service, and Croatian banks will expose only one endpoint:

/bulk-payments/pain001-credit-transfers-hr.

#### 3.2 Hungary

For bulk payments, some Hungarian banks will only accept XML formats. The XML formats for the Hungarian community are published on:

https://www.giro.hu/letoltes/hct-xml-atutalasi-megbizas-szabvanyalkalmazasi-utmutatoja-v1-2

The XSDs can be found under:

https://www.giro.hu/letoltes/hct-xml-atutalasi-megbizas-sema-definicio-fajl-v1-3

### 4 Domestic AIS Functionality

### 4.1 Czech Republic

The following transaction definitions are supported at least by UniCredit for the Czech Republic market:

The element

remittanceInformationStructuredArray

is substructured as array of type Remittance as described for payment initiation in Section 2.4.2.

#### 4.2 Denmark

The following additional elements will be supported by transaction reports by Danish banks (cp. Yellow marks)

| Attribute                    | Туре                        | Condition | Description  |
|------------------------------|-----------------------------|-----------|--|
| transactionId                | String                      | Optional  | Can be used as access-ID in the API, where more details on an transaction is offered. If this data attribute is provided this shows that the AIS can get access on more details about this transaction using the GET Transaction Details Request as defined in Section Fehler! Verweisquelle konnte nicht gefunden werden. |
| entryReference               | Max35Text                   | Optional  | Is the identification of the transaction as used e.g. for reference for deltafunction on application level. The same identification as for example used within camt.05x messages.  |
| endToEndId                   | Max35Text                   | Optional  | Unique end to end identity.  |
| accountServicer<br>Reference | Max35Text                   | Optional  | Identification provided by the ASPSP.  |
| localInstrumentCode          | Local<br>Instrument<br>Code | Optional  | ExternalLocalInstrument1Code   |

| Attribute                      | Туре                                   | Condition | Description  |
|--------------------------------|--|-----------|--|
| localInstrument<br>Proprietary | Max35Text                              | Optional  |  |
| mandateld                      | Max35Text                              | Optional  | Identification of Mandates, e.g. a SEPA Mandate ID   |
| checkld                        | Max35Text                              | Optional  | Identification of a Cheque   |
| creditorId                     | Max35Text                              | Optional  | Identification of Creditors, e.g. a SEPA Creditor ID   |
| creditorIdentification         | Party<br>Identification                | Optional  | Structured identification of creditors   |
| bookingDate                    | ISODate                                | Optional  | The Date when an entry is posted to an account on the ASPSPs books.  |
| valueDate                      | ISODate                                | Optional  | The Date at which assets become available to the account owner in case of a credit   |
| transactionAmount              | Amount                                 | Mandatory | The amount of the transaction as billed to the account.  |
| currencyExchange               | Array of<br>Report<br>Exchange<br>Rate | Optional  |  |
| amountDetails                  | Amount<br>Details                      | Optional  | Additional information to the transaction amount.  |
| interbankSettlement<br>Date    | ISODate                                | Optional  | Date on which the amount of money ceases to be available to the agent that owes it and when the amount of money becomes available to the agent to which it is due. |
| cardTransaction                | Card<br>Transaction                    | Optional  | Card transaction details in case of an underlying card transaction.  |
| creditorName                   | Max70Text                              | Optional  | Name of the creditor if a "Debited" transaction  |

| Attribute                                 | Туре                    | Condition   | Description   |
|---|-------------------------|-------------|---|
| creditorAddress                           | Address                 | Optional    |   |
| creditor<br>Account                       | Account<br>Reference    | Conditional | Please note, that the extended reference as indicated in Section 5 is supported for the Danish Market. This type is also supporting a creditorAccount name sub-attribute. |
| creditorAgent                             | BICFI                   | Optional    |   |
| crediorAgent<br>Proprietary               | Max35Text               | Optional    | Will be used to transport the domestic bank code in Denmark.  |
|   |                         |             | Remark For Future: Will be reviewed for the next version.   |
| ultimate<br>Creditor                      | Max70Text               | Optional    |   |
| ultimateCreditor<br>Address               | Address                 | Optional    |   |
| debtorName                                | Max70Text               | Optional    | Name of the debtor if a "Credited" transaction  |
| debtorIdentification                      | Party<br>Identification | Optional    | Structured identification of a debtor   |
| debtorAccount                             | Account<br>Reference    | Conditional | Please note, that the extended reference as indicated in Section 5 is supported for the Danish Market. This type is also supporting a creditorAccount name sub-attribute. |
| debtorAgent                               | BICFI                   | Optional    |   |
| ultimateDebtor                            | Max70Text               | Optional    |   |
| remittance<br>Information<br>Unstructured | Max140Text              | Optional    |   |
| remittance<br>Information                 | Array of<br>Max140Text  | Optional    | Remark for Future:  |

| Attribute                                   | Туре  | Condition   | Description   |
|---|---|-------------|---|
| Unstructured<br>Array                       |   |             | In version 2.0 these two unstructured remittance fields might be merged.  |
| remittance<br>Information<br>Structured     | Max140Text                                    | Optional    | Reference as contained in the structured remittance reference structure (without the surrounding XML structure).  |
|   |   |             | Remark For Future: This field will be re-typed in a future version of the interface to the structured data type Remittance or might be omitted. For migration reasons, this is not supported in version 1.3.x.  |
| remittance                                  | Array of                                      | Optional    | NOTE:   |
| Information<br>Structured<br>Array          | Remittance                                    |             | More details about the Remittance Data Type will be published in an Errata in due course.   |
|   |   |             | For usage of the fields e.g. for domestic elements, Berlin Group should be contacted. This would enable to publish usage of structured remittance information in the domestic payment documentation, cp. Fehler! Verweisquelle konnte nicht gefunden werden |
| additionalInformation                       | Max500Text                                    | Optional    | Might be used by the ASPSP to transport additional transaction related information to the PSU   |
| additionalInformation<br>Structured         | Structured<br>Additional<br>Information       | Conditional | Is used if and only if the bookingStatus entry equals "information". Every active standing order related to the dedicated payment account result into one entry.  |
| additionalTransaction informationStructured | Structured Additional Transaction Information | Optional    | Data about the transactional process of submission, authorisation and/or cancellation of the underlying payment.  |

| Attribute                          | Туре                        | Condition | Description  |
|------------------------------------|-----------------------------|-----------|--|
| purposeCode                        | Purpose<br>Code             | Optional  |  |
| bank<br>TransactionCode            | Bank<br>Transaction<br>Code | Optional  | Bank transaction code as used by the ASPSP and using the sub elements of this structured code defined by ISO20022.  For standing order reports the |
|                                    |                             |           | following codes are applicable:  |
|                                    |                             |           | "PMNT-ICDT-STDO" for credit transfers,   |
|                                    |                             |           | "PMNT-IRCT-STDO" for instant credit transfers  |
|                                    |                             |           | "PMNT-ICDT-XBST" for cross-border credit transfers   |
|                                    |                             |           | "PMNT-IRCT-XBST" for cross-border real time credit transfers and   |
|                                    |                             |           | "PMNT-MCOP-OTHR" for specific standing orders which have a dynamical amount to move left funds e.g. on month end to a saving account               |
| proprietaryBank<br>TransactionCode | Max35Text                   | Optional  | proprietary bank transaction code as used within a community or within an ASPSP e.g. for MT94x based transaction reports                           |
| balanceAfter<br>Transaction        | Balance                     | Optional  | This is the balance after this transaction. Recommended balance type is interimBooked.   |
| _links                             | Links                       | Optional  | The following links could be used here:  |
|                                    |                             |           | transactionDetails for retrieving details of a transaction.  |

**Note:** The following "schemeNameProprietary" entries are supported for the Danish market:

- Account Reference Type "other": "Danish Slip"
- Organisation Identification Type "other": "Danish BS Debtor Group"
- Private Identification Type "other": "Danish Easy Account"

#### Example 1:

```
"creditorAccount":
    {
     "other":
        {
            "schemeNameProprietary" : "Danish Slip",
            "identification" : "71123456789012345612345678"
        }
}
```

### Example 2

### **Type Amount Details**

| Attribute         | Туре                        | Condition | Description |
|-------------------|-----------------------------|-----------|-------------|
| instructedAmount  | Amount and Exchange Details |           |             |
| transactionAmount | Amount and Exchange Details |           |             |

### Example:

### **Amount and Exchange Details Type**

| Attribute      | Туре             | Condition | Description  |
|----------------|------------------|-----------|--|
| amount         | Amount           | Mandatory |  |
| sourceCurrency | Currency<br>Code | Mandatory | Currency from which an amount is to be converted in a currency conversion.   |
| exchangeRate   | String           | Mandatory | Factor used to convert an amount from one currency into another. This reflects the price at which one currency was bought with another currency. |
| unitCurrency   | Currency<br>Code | Mandatory | Currency in which the rate of exchange is expressed in a currency exchange. In the example 1EUR = xxxCUR, the unit currency is EUR.              |
| targetCurrency | Currency<br>Code | Mandatory | Currency into which an amount is to be converted in a currency conversion.   |

| Attribute              | Туре    | Condition | Description  |
|------------------------|---------|-----------|--|
| quotationDate          | ISODate | Mandatory | Date at which an exchange rate is quoted.                                      |
| contractIdentification | String  | Optional  | Unique identification to unambiguously identify the foreign exchange contract. |

| Creditor Reference<br>TypeAttribute | Туре      | Condition | Description |
|-------------------------------------|-----------|-----------|-------------|
| reference                           | Max35Text | Mandatory |             |
| referenceType                       | Max35Text | Optional  |             |
| referencelssuer                     | Max35Text | Optional  |             |

# **Card Transaction Type**

| Attribute   | Туре                           | Condition | Description |
|-------------|--------------------------------|-----------|-------------|
| card        | Card Type                      | Optional  |             |
| transaction | Card<br>Transaction<br>Details | Optional  |             |

# **Card Type**

| Attribute      | Туре      | Condition | Description |
|----------------|-----------|-----------|-------------|
| cardBrand      | Max35Text | Optional  |             |
| maskedPAN      | Max30Text | Optional  |             |
| cardHolderName | Max45Text | Optional  |             |

# **Card Transaction Details Type**

| Attribute           | Туре                    | Condition | Description |
|---------------------|-------------------------|-----------|-------------|
| paymentContext      | Payment<br>Context Type | Optional  |             |
| sequenceNumber      | Max35Text               | Optional  |             |
| transactionDateTime | ISODateTime             | Optional  |             |

# **Payment Context Type**

| Attribute         | Туре                    | Condition | Description |
|-------------------|-------------------------|-----------|-------------|
| cardPresent       | Boolean                 | Optional  |             |
| cardDataEntryMode | Card Data<br>Entry Mode | Optional  |             |

### **Additional Transaction Information**

| Attribute                 | Туре                   | Condition | Description |
|---------------------------|------------------------|-----------|-------------|
| transactionStatus         | Transaction<br>Status  | Mandatory |             |
| transactionCreated        | User Entry             | Optional  |             |
| transaction<br>Authorised | Array of User<br>Entry | Optional  |             |
| Transaction<br>Cancelled  | Array of User<br>Entry | Optional  |             |

### **User Entry**

| Attribute | Туре        | Condition | Description |
|-----------|-------------|-----------|-------------|
| user      | Max70Text   | Mandatory |             |
| dateTime  | ISODateTime | Mandatory |             |

### Example:

```
{ "additionalTransactionInformation" :
  "transactionStatus" : "CANC",
  "transactionCreated" :
       "user": "Michael Firstguy",
       "dateTime": "2017-10-25T15:30:35.035Z"
       },
  "transactionAuthorized":
       [ {
       "user": "Allan Danishperson",
       "dateTime" : "2017-10-25T16:30:00.000Z"
       },
       "user": "Michael Danishguy",
       "dateTime" : "2017-10-25T16:50:00.000Z"
    "transactionCancelled"
       "user": "Michael Danishguy",
       "dateTime": "2017-10-25T19:00:00.000Z"
       } ]
     }
}
```

### **Card Data Entry Mode**

ISO20022 Code: CardsDataReading1Code

A list of the existing codes is

CICC: EMV based

ECTL: EMV based contactless

MGST: Magnetic StripePHYS: Manual EntryBRCD: Barcode

### 4.3 Hungary

The following AIS definitions are supported at least by RBI, Unicredit and Erste Group for the Hungarian market.

### **Extended Account Reference**

For the domestic Hungarian payment products, the account reference type is extended by an "other" structure, cp. Section 5 of this document. ASPSP will document which proprietary aliases they will support.

### 5 Common Structured Data Types

The following data types are used by several communities for payment initiation and/or account information.

**Remark for Future**: Some of these types are planned to be recognized in the next major release of the Implementation Guideline. This is still under review.

### **Party Identification Type**

| Attribute      | Туре                                   | Condition | Description                                    |
|----------------|--|-----------|--|
| organisationId | Organisation<br>Identification<br>Type | Optional  | An entry provided by an external ISO code list |
| privateId      | Private<br>Identification<br>Type      | Optional  | A scheme name defined in a proprietary way.    |

**Note:** Only one of the entries is allowed.

### **Organisation Identification Type**

| Attribute | Туре                | Condition | Description |
|-----------|---------------------|-----------|-------------|
| others    | Array of Other Type | Optional  |             |

Note: Further attributes like anyBIC might be opened up in a later version.

### **Private Identification Type**

| Attribute | Туре                   | Condition | Description |
|-----------|------------------------|-----------|-------------|
| others    | Array of<br>Other Type | Mandatory |             |

### Other Type

| Attribute      | Туре      | Condition | Description |
|----------------|-----------|-----------|-------------|
| identification | Max35Text | Mandatory |             |

| Attribute                 | Туре      | Condition | Description                                    |
|---------------------------|-----------|-----------|--|
| schemeName<br>Code        | Code      | Optional  | An entry provided by an external ISO code list |
| schemeName<br>Proprietary | Max35Text | Optional  | A scheme name defined in a proprietary way.    |
| issuer                    | Max35Text | Optional  | Issuer of the identification                   |

# Example:

### **Extended Account Reference**

The account reference type is extended by the field marked in yellow.

| Attribute | Туре      | Condition   | Description  |
|-----------|-----------|-------------|--|
| iban      | IBAN      | Conditional |  |
| bban      | BBAN      | Conditional | This data elements is used for payment accounts which have no IBAN.                                |
| pan       | Max35Text | Conditional | Primary Account Number (PAN) of a card, can be tokenised by the ASPSP due to PCI DSS requirements. |
| maskedPan | Max35Text | Conditional | Primary Account Number (PAN) of a card in a masked form.   |

| Attribute | Туре             | Condition   | Description  |
|-----------|------------------|-------------|--|
| msisdn    | Max35Text        | Conditional | An alias to access a payment account via a registered mobile phone number. |
| other     | Other Type       | Conditional | An alias with a proprietary coding   |
| currency  | Currency<br>Code | Optional    | ISO 4217 Alpha 3 currency code   |
| name      | Max70Text        | Optional    | Name of the account  |

#### 6 References

- [XS2A-OR] NextGenPSD2 XS2A Framework, Operational Rules, The Berlin Group Joint Initiative on a PSD2 Compliant XS2A Interface, version 1.3, published November 2018
- [XS2A-IG] NextGenPSD2 XS2A Framework, Implementation Guidelines, The Berlin Group Joint Initiative on a PSD2 Compliant XS2A Interface, version 1.3.6, published 3<sup>rd</sup> February 2020
- [EBA-RTS] Commission Delegated Regulation (EU) 2018/389 of 27 November 2017 supplementing Directive 2015/2366 of the European Parliament and of the Council with regard to Regulatory Technical Standards for Strong Customer Authentication and Common and Secure Open Standards of Communication, C(2017) 7782 final, published 13 March 2018
- [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