TIPS A2A Workshop
in view of the migration to ISO20022 MR
Version2019 - New Suffix Usage

29 September 2023
Introduction

The upcoming TIPS R2023.NOV release will bring a significant change of A2A configuration due to the migration to ISO 20022 MR version 2019 and the deployment of, among others, the following change requests:

- **TIPS-0052-SYS - Alignment of TIPS to the 2023 Version of the SCTInst specifications and MyStandards migration**
- **TIPS-0055-SYS - Update of TIPS non-Euro message specifications**
- **TIPS-0056-SYS - Additional EPC requirements on migration aspects**

The content of these change requests has been incorporated in the Scope Defining Documents relevant for TIPS Users. The updated versions can be found below:

- **TIPS - User Detailed Functional Specifications (UDFS) Version R2023.NOV**
- **TIPS MEPT Implementation Guide R2023.NOV**
• Instant Payment messages are transmitted using the Instant messaging network service and the Message Exchange Processing for TIPS (MEPT) protocol, described in the related document TIPS Connectivity - Message exchange processing.

• According to the MEPT protocol, a generic TIPS message is made of two main sections:
  - **The message header at transport level**, containing all the information that enrich the message but are not strictly related to the message content (routing, signature, etc.)
  - **The business message payload**, containing the ISO business message.
Since June 2021 (TIPS R3.1), TIPS supports two message sets for both (i) the settlement of Instant Payments and (ii) the related business cases such as Recall and Investigation:

- One set of messages for **SCT\textsuperscript{inst} scheme**
  - pacs.002.001.03
  - pacs.008.001.02
  - pacs.004.001.02
  - camt.056.001.01
  - camt.029.001.03
  - pacs.028.001.01

- A new set of messages for **non-Euro schemes**
  - pacs.002.001.10
  - pacs.008.001.08
  - pacs.004.001.09 (from R4.0 on)
  - camt.056.001.08 (from R4.0 on)
  - camt.029.001.09 (from R4.0 on)
  - pacs.028.001.03 (from R4.0 on)

When a message is delivered to TIPS, the message router uses the message type in order to select the proper schema for the schema validation process.
With the alignment to the 2023 version of the EPC specifications and the migration to ISO MR2019 for messages dedicated to the euro community, the two message sets (SCTInst and non-EURO) will share the same message types, including version, as both will be aligned to ISO MR2019 (e.g. pacs.008 V08 for SCTInst and pacs.008 V08 for non-EURO).

The message type will be no longer sufficient for the completion of the schema validation process: an additional information is needed.

Moreover, since the message payload is not accessible before the schema validation check, this information should be present at transport protocol level (Message Exchange Processing for TIPS (MEPT) protocol), considering also that the message payload cannot be changed in order not to lose compliance with the requirements underlying the two sets and with the ISO20022 standard.

The proposed solution is to add a suffix to the value of the existing MsgType MEPT property to distinguish the two sets, as shown in the following example:

- **MsgType=pacs.008.001.08.EPC** for messages sent in EUR compliant with the **SCTInst** specifications

- **MsgType=pacs.008.001.08.NPC** for messages sent e.g. in SEK compliant with the **non-Euro** specifications
4 Message Types/ Flow Types

This is the list of message types and related flows that have to be allowed between the TIPS Platform and the Actors. The “ISO Message Type” column shows the permitted values that can be assigned to the MsgType header field.

4.4 Message Types for TIPS 6.0 ➞ R2023.NOV

The following message types are added as part of TIPS 6.0:

<table>
<thead>
<tr>
<th>ISO Message Type (MsgType)</th>
<th>Sender</th>
<th>Receiver</th>
<th>Technical service</th>
</tr>
</thead>
<tbody>
<tr>
<td>pacs.008.001.08.EPCx</td>
<td>Actorx</td>
<td>Platformx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>pacs.008.001.08.EPCx</td>
<td>Platformx</td>
<td>Actorx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>pacs.002.001.10.EPCx</td>
<td>Actorx</td>
<td>Platformx</td>
<td>Instant Messagingx</td>
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<tr>
<td>pacs.002.001.10.EPCx</td>
<td>Platformx</td>
<td>Actorx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>pacs.028.001.03.EPCx</td>
<td>Actorx</td>
<td>Platformx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>pacs.028.001.03.EPCx</td>
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<td>Actorx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>camt.056.001.08.EPCx</td>
<td>Actorx</td>
<td>Platformx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>camt.056.001.08.EPCx</td>
<td>Platformx</td>
<td>Actorx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>camt.029.001.09.EPCx</td>
<td>Actorx</td>
<td>Platformx</td>
<td>Instant Messagingx</td>
</tr>
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<td>Actorx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>pacs.004.001.09.EPCx</td>
<td>Actorx</td>
<td>Platformx</td>
<td>Instant Messagingx</td>
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<td>Platformx</td>
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<td>Instant Messagingx</td>
</tr>
<tr>
<td>pacs.008.001.08.NPCx</td>
<td>Actorx</td>
<td>Platformx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>pacs.008.001.08.NPCx</td>
<td>Platformx</td>
<td>Actorx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>pacs.002.001.10.NPCx</td>
<td>Actorx</td>
<td>Platformx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>pacs.002.001.10.NPCx</td>
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<td>Actorx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>pacs.028.001.03.NPCx</td>
<td>Actorx</td>
<td>Platformx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>pacs.028.001.03.NPCx</td>
<td>Platformx</td>
<td>Actorx</td>
<td>Instant Messagingx</td>
</tr>
<tr>
<td>camt.056.001.08.NPCx</td>
<td>Actorx</td>
<td>Platformx</td>
<td>Instant Messagingx</td>
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<td>camt.056.001.08.NPCx</td>
<td>Platformx</td>
<td>Actorx</td>
<td>Instant Messagingx</td>
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<tr>
<td>camt.029.001.09.NPCx</td>
<td>Actorx</td>
<td>Platformx</td>
<td>Instant Messagingx</td>
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<td>Actorx</td>
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<td>Platformx</td>
<td>Actorx</td>
<td>Instant Messagingx</td>
</tr>
</tbody>
</table>
4.4 Message Types for TIPS 6.0 (TIPS R2023.NOV)

After completion of the TIPS 6.0 deployment, the following message types can be safely removed:

<table>
<thead>
<tr>
<th>ISO Message Type (MsgType)</th>
<th>Sender</th>
<th>Receiver</th>
<th>Technical Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>pacs.008.001.02z</td>
<td>Actor</td>
<td>Platform</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>pacs.008.001.02z</td>
<td>Platform</td>
<td>Actor</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>pacs.002.001.03x</td>
<td>Actor</td>
<td>Platform</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>pacs.002.001.03x</td>
<td>Platform</td>
<td>Actor</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>pacs.028.001.01x</td>
<td>Actor</td>
<td>Platform</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>pacs.028.001.01x</td>
<td>Platform</td>
<td>Actor</td>
<td>Instant Messaging</td>
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<tr>
<td>camt.056.001.01x</td>
<td>Actor</td>
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<td>Instant Messaging</td>
</tr>
<tr>
<td>camt.056.001.01x</td>
<td>Platform</td>
<td>Actor</td>
<td>Instant Messaging</td>
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<tr>
<td>camt.029.001.03x</td>
<td>Actor</td>
<td>Platform</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>camt.029.001.03x</td>
<td>Platform</td>
<td>Actor</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>pacs.004.001.02x</td>
<td>Actor</td>
<td>Platform</td>
<td>Instant Messaging</td>
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<tr>
<td>pacs.004.001.02x</td>
<td>Platform</td>
<td>Actor</td>
<td>Instant Messaging</td>
</tr>
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<td>pacs.008.001.08z</td>
<td>Actor</td>
<td>Platform</td>
<td>Instant Messaging</td>
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<td>pacs.008.001.08z</td>
<td>Platform</td>
<td>Actor</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>pacs.002.001.10x</td>
<td>Actor</td>
<td>Platform</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>pacs.002.001.10x</td>
<td>Platform</td>
<td>Actor</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>pacs.028.001.03x</td>
<td>Actor</td>
<td>Platform</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>pacs.028.001.03x</td>
<td>Platform</td>
<td>Actor</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>camt.056.001.08x</td>
<td>Actor</td>
<td>Platform</td>
<td>Instant Messaging</td>
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<tr>
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<td>Platform</td>
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<td>Instant Messaging</td>
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<td>Actor</td>
<td>Platform</td>
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<td>Actor</td>
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<tr>
<td>pacs.004.001.09x</td>
<td>Actor</td>
<td>Platform</td>
<td>Instant Messaging</td>
</tr>
<tr>
<td>pacs.004.001.09x</td>
<td>Platform</td>
<td>Actor</td>
<td>Instant Messaging</td>
</tr>
</tbody>
</table>

Same information is also reflected as ‘Dropped in 6.0’ under NOTE column in sections:

4 Message Types/ Flow Types and

4.3 Message Types for TIPS 3.1 and 4.0
TIPS Message Example - **before** migration to MR2019 - SCT\textsuperscript{Inst} case

```xml
<rfh2>
  <HMAC>dGhpcyBpcyBubI3QgYSBzaWduYXR1cmUK...
  <HMACKeyId>1234</HMACKeyId>
  
  [...]  
  <PrimitiveType>ReceiveIndication</PrimitiveType>
  
  <MsgType>pacs.008.001.02</MsgType>
  <SendTimestamp>2023-10-19T12:00:01.222Z</SendTimestamp>
  <ReceiveTimestamp>2023-10-19T12:00:01.777Z</ReceiveTimestamp>
  <MsgBizIdentifier>MSG001</MsgBizIdentifier>
  <MsgNetworkIdentifier>NWX000001</MsgNetworkIdentifier>

</rfh2>

<!-- Examples are proposed referring to MEPT interface. DiCoAs should «map» the MsgType field according to A2A interface of the selected NSP – See Annex I - II -->

  <FIToFICstmrCdtTrf>
    
    <GrpHdr>
      <MsgId>MSG001</MsgId>
      <CreDtTm>2023-10-19T12:00:01.222Z</CreDtTm>
      
      [...]  
    </GrpHdr>

  </FIToFICstmrCdtTrf>

</Document>
```
<rfh2>
  <HMAC>dGhpcyBpcyBub...</HMAC>
  <HMACKeyId>1234</HMACKeyId>
  [...]
  <PrimitiveType>ReceiveIndication</PrimitiveType>
  <MsgType>pacs.008.001.08</MsgType>
  <SendTimestamp>2023-10-19T12:00:01.222Z</SendTimestamp>
  <ReceiveTimestamp>2023-10-19T12:00:01.777Z</ReceiveTimestamp>
  <MsgBizIdentifier>MSG001</MsgBizIdentifier>
  <MsgNetworkIdentifier>NWX000001</MsgNetworkIdentifier>
</rfh2>

  <FIToFICstmrCdtTrf>
    <GrpHdr>
      <MsgId>MSG001</MsgId>
      <CreDtTm>2023-10-19T12:00:01.222Z</CreDtTm>
      [...]
    </GrpHdr>
  </FIToFICstmrCdtTrf>
</Document>
TIPS Message Example - after migration to MR2019 – SCT<sup>Inst</sup> case

```xml
<rfh2>
  <HMAC>dGhpcyBpcyBub3QgYSBzaWduYXR1cmUK...
  <HMACKeyId>1234</HMACKeyId>
  [...]
  <PrimitiveType>ReceiveIndication</PrimitiveType>
  <MsgType>pacs.008.001.08.EPC</MsgType>
  <SendTimestamp>2023-12-19T12:00:01.222Z</SendTimestamp>
  <ReceiveTimestamp>2023-12-19T12:00:01.777Z</ReceiveTimestamp>
  <MsgBizIdentifier>MSG001</MsgBizIdentifier>
  <MsgNetworkIdentifier>NWX000001</MsgNetworkIdentifier>
</rfh2>

  <FIToFICstmrCdtTrf>
    <GrpHdr>
      <MsgId>MSG001</MsgId>
      <CreDtTm>2023-12-19T12:00:01.222Z</CreDtTm>
      [...]
    </GrpHdr>
  </FIToFICstmrCdtTrf>
</Document>
```
TIPS Message Example - after migration to MR2019 – non-EURO case

```xml
<rfh2>
  <HMAC>dGhpcyBpcyBub3QgYSBzaWduYXR1cmUK...
  <HMACKeyId>1234</HMACKeyId>
  [...]
  <PrimitiveType>ReceiveIndication</PrimitiveType>
  <MsgType>pacs.008.001.08.NPC</MsgType>
  <SendTimestamp>2023-12-19T12:00:01.222Z</SendTimestamp>
  <ReceiveTimestamp>2023-12-19T12:00:01.777Z</ReceiveTimestamp>
  <MsgBizIdentifier>MSG001</MsgBizIdentifier>
  <MsgNetworkIdentifier>NWX000001</MsgNetworkIdentifier>
</rfh2>
```

```xml
  <FIToFICstmrCdtTrf>
    <GrpHdr>
      <MsgId>MSG001</MsgId>
      <CreDtTm>2023-12-19T12:00:01.222Z</CreDtTm>
    </GrpHdr>
    [...]
  </FIToFICstmrCdtTrf>
</Document>
```
List of Use Cases*

1 - Wrong value in **Header Message Type** field (i.e. pacs.008 V08 missing .EPC suffix)
   A) Nexi-Colt -> rejection with Nexi-Colt sending a technical Ack back to TIPS Actor**
   B) SWIFT -> SWIFT forwards XML to TIPS and *admi.007* rejection with Parsing error ‘X001’

2 - Wrong value in **Header Message Type** field (i.e. .EPC suffix wrongly added - A2A query camt.005)
   A) Nexi-Colt -> rejection with Nexi-Colt sending a technical Ack back to TIPS Actor
   B) SWIFT -> SWIFT forwards XML to TIPS and *admi.007* rejection with Parsing error ‘X001’

3 - Correct .EPC suffix in Header **Message Type**, but wrong suffix usage in **Message payload**
   A) the .EPC suffix is wrongly added in the namespace declaration
      Both Nexi-Colt and SWIFT -> forward XML to TIPS -> XSD schema validation fails -> *admi.007* rejection with Parsing error X001
   B) the .EPC suffix is wrongly added under a ‘business’ tag (i.e. under ‘Original Message Name ID’ tag )
      Both Nexi-Colt and SWIFT -> forward XML to TIPS -> TIPS Usage check validation fails -> *pacs.002* rejection with ‘business’ error *MS01*

* All Use Cases refer to SCT**Inst scenario in PROD environment as of 19 November 2023 03:30 AM CET
**Nexi-Colt will enforce this check only few weeks after 19 November 2023 and will behave as case B in the interim period
Use Case 1 – wrong value in Message Type field – missing suffix

TIPS Actor is sending to TIPS a pacs.008 under $\text{SCT}^{\text{Inst}}$ scheme, but does not add the .EPC suffix in Header $\text{MsgType}$ field

```xml
<rfh2>
  <HMAC>dGhpcyBpcyBub3QgYSBzaWduYXR1cmUK...
  <HMACKeyId>1234</HMACKeyId>
  […]
  <PrimitiveType>ReceiveIndication</PrimitiveType>
  <MsgType>pacs.008.001.08</MsgType>
  <SendTimestamp>2023-12-19T12:00:01.222Z</SendTimestamp>
  <ReceiveTimestamp>2023-12-19T12:00:01.777Z</ReceiveTimestamp>
  <MsgBizIdentifier>MSG001</MsgBizIdentifier>
  <MsgNetworkIdentifier>NWX000001</MsgNetworkIdentifier>
</rfh2>
```
Use Case 1 – wrong value in Message Type field – A - Nexi-Colt

Nexi-Colt directly rejects the XML message via Technical Ack negative response (SendErr)*

*Nexi-Colt will enforce this check only few weeks after 19 November 2023 and will behave as case B in the interim period
Use Case 1 – wrong value in Message Type field – B - SWIFT

TIPS Actor

SWIFT

TIPS

pacs.008

pacs.008

SWIFT forwards the XML messages

TIPS rejects the XML message via admi.007 with ‘X001’ parsing error
Use Case 2 – wrong value in Message Type field – suffix not required

TIPS Actor is sending to TIPS a camt.005 under SCT\textsuperscript{Inst} scheme, but adds the .EPC suffix, which is not required by TIPS, in Header \textit{MsgType} field

```
<TIPS>
  <rfh2>
    <HMAC>dGhpcyBpcyBub3QgYSBzaWduYXR1cmUK...
    <HMACKeyId>1234</HMACKeyId>
    [...]
    <PrimitiveType>ReceiveIndication</PrimitiveType>
    <MsgType>DRAFT2camt.005.001.07.EPC</MsgType>
    <SendTimestamp>2023-12-19T12:00:01.222Z</SendTimestamp>
    <ReceiveTimestamp>2023-12-19T12:00:01.777Z</ReceiveTimestamp>
    <MsgBizIdentifier>MSG001</MsgBizIdentifier>
    <MsgNetworkIdentifier>NWX000001</MsgNetworkIdentifier>
  </rfh2>
</TIPS>
```
Use Case 2 – wrong value in Message Type field – A - Nexi-Colt

Nexi-Colt directly rejects the XML message via Technical Ack negative response (SendErr)
Use Case 2 – wrong value in Message Type field – B - SWIFT

**TIPS Actor**

![Diagram of TIPS Actor](image1)

**SWIFT**

![Diagram of SWIFT](image2)

**TIPS**

![Diagram of TIPS](image3)

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SWIFT forwards the XML messages

TIPS rejects the XML message via *admi.007* with ‘X001’ parsing error
Use Case 3 – correct value in Message Type field – Case A

TIPS Actor is sending to TIPS a pacs.008 under SCT\textsuperscript{Inst} scheme and correctly adds the .EPC suffix in Header \textit{MsgType} field...*

\begin{verbatim}
<TIPS>  
  <HMAC>dGhpcyBpcyBub3QgYSBzaWduYXR1cmUK...
  <HMACKeyId>1234</HMACKeyId>
  [...]
  <PrimitiveType>ReceiveIndication</PrimitiveType>
  <MsgType>pacs.008.001.08.EPC</MsgType>
  <SendTimestamp>2023-12-19T12:00:01.222Z</SendTimestamp>
  <ReceiveTimestamp>2023-12-19T12:00:01.777Z</ReceiveTimestamp>
  <MsgBizIdentifier>MSG001</MsgBizIdentifier>
  <MsgNetworkIdentifier>NWX000001</MsgNetworkIdentifier>
</TIPS>
\end{verbatim}

* Both NSPs will forward the XML message to TIPS in this case
Use Case 3 – … with a wrong value in Message Payload – Case A

… but adds the .EPC suffix, which is not required by TIPS, also in the Message Payload under namespace declaration

```
... 
  <FIToFICstmrCdtTrf> 
    <GrpHdr> 
      <MsgId>MSG001</MsgId> 
      <CreDtTm>2023-12-19T12:00:01.222Z</CreDtTm> 
      [...]
    </GrpHdr> 
  </FIToFICstmrCdtTrf> 
</Document>
```

TIPS rejects the XML message via *admi.007* with ‘X001’ parsing error
Use Case 3 – correct value in Message Type field – Case B

TIPS Beneficiary Actor is sending to TIPS a pacs.002 under SCT\textsuperscript{Inst} scheme to accept/reject an IP, correctly adding the .EPC suffix in Header \textit{MsgType} field…* 

```xml
<rfh2>
  <HMAC>dGhpcyBpcyBub3QgYSBzaWduYXR1cmUK...
  <HMACKeyId>1234</HMACKeyId>
  [...]
  <PrimitiveType>ReceiveIndication</PrimitiveType>
  <MsgType>pacs.002.001.10.EPC</MsgType>
  <SendTimestamp>2023-12-19T12:00:01.222Z</SendTimestamp>
  <ReceiveTimestamp>2023-12-19T12:00:01.777Z</ReceiveTimestamp>
  <MsgBizIdentifier>MSG001</MsgBizIdentifier>
  <MsgNetworkIdentifier>NWX000001</MsgNetworkIdentifier>
</rfh2>
```

* Both NSPs will forward the XML message to TIPS in this case
Use Case 3 – … with a wrong value in Message Payload – Case B

...but adds the .EPC suffix, which is not required by TIPS, also in the Message Payload under the Original Message Name Identification tag <OrgnlMsgNmId>

```xml
[...]
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  <FIToFICstmrCdtTrf>
    <GrpHdr>
      <MsgId>MSG001</MsgId>
      <CreDtTm>2023-12-19T12:00:01.222Z</CreDtTm>
      [...]
      <OrgnlMsgNmId>pacs.008.001.08.EPC</OrgnlMsgNmId>
      [...]
    </GrpHdr>
    </FIToFICstmrCdtTrf>
  </Document>
```

TIPS rejects the XML message via pacs.002 with ‘MS01’ business error code
Thank you for the attention!
Annex I – Technical mapping of Msg Type in Nexi-Colt header

New values with “.EPC” or “.NPC” suffixes to be used in field <Flow>

<table>
<thead>
<tr>
<th>Nexi-Colt</th>
<th>MEPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;ImxSendReq&gt;/ImxServiceHeader&gt;/NetAddressing &gt;/From&gt;</td>
<td>Sender</td>
</tr>
<tr>
<td>&lt;ImxSendReq&gt;/ImxServiceHeader&gt;/NetAddressing &gt;/To&gt;</td>
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<td>(MsgType</td>
</tr>
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<tr>
<td>&lt;ImxSendReq&gt;/ImxServiceHeader&gt;/End2EndData &gt;/SubmissionTs&gt;</td>
<td>SendTimestamp</td>
</tr>
</tbody>
</table>

Example:

```xml
<ImxSendReq>
<ImxServiceHeader>
<NetAddressing>
  <From>cn=dicoata,ou=tips,o=12431,dc=sianet,dc=sia,dc=eu</From>
  <To>cn=platform,ou=tips,o=88020,dc=sianet,dc=sia,dc=eu</To>
  <Domain>IMX.PRD.TIPS</Domain>
  <App>PAY</App>
  <Flow>pacs.008.001.08.EPC</Flow>
</NetAddressing>
<End2EndData>
  <MsgId>9615783986a440a089d3a90aaf3266a2</MsgId>
  <SubmissionTs>2023-09-25T14:39:16.307Z</SubmissionTs>
</End2EndData>
<ImxServiceHeader>
<ImxSendReq>
```
Swift’s Solution for ESMIG supports the upcoming TIPS R2023.NOV version
• Including specifying the correct Header Message Type in the TIPS Header

How does it work in practice?
• Alliance Gateway Instant (AGI) supports all message types and related flows between TIPS Platform and Actors
• Routing rules criteria can optionally be defined in AGI configuration for the <MsgType> suffix
• More information can be found in the link below: AGI User Guide > Section “Generic Configuration Data when Using Message Broker”

Swift Customer Support teams are on hand 24/7 to answer specific queries if you don’t find the information resources you are looking for.