Change Request Form

<table>
<tr><td colspan="3">General Information (Origin of Request)</td></tr>
<tr><td colspan="3">☒ User Requirements Document (URD)</td></tr>
<tr><td colspan="3">☒ User Detailed Functional Specification (UDFS)</td></tr>
<tr><td colspan="3">☐ User Handbook (UHB)</td></tr>
<tr><td colspan="3">☒ Other User Functional or Technical Documentation (SYS)</td></tr>
</table>

Request raised by: Eurosystem	**Institution:** ECB	**Date raised:**
Request title: Enhancements of TIPS cross-currency functionalities		**Request ref. no:** TIPS-0090-URD

Request type:	
1. Legal/business importance parameter: Medium	**2. Market implementation efforts parameter – Stakeholder impact:** Medium
3. Operational impact: Low	**4. Financial impact parameter:** High
5. Functional/ Technical impact: High	**6. Interoperability impact:** Medium
Requestor Category: ECB	**Status:** Registered

Reason for change(s) and expected benefits/business motivation:

This change request reflects further needed enhancements stemming from the TIPS-0065-URD *Enhanced Linked Transaction (ELKT) settlement model for cross-currency in TIPS.* The present change request includes the functionalities deemed as out-of-scope for TIPS-0065-URD.

The changes firstly entail that cross-currency transactions (independently from the settlement model used, Regular Cross-currency settlement or LKT Cross-currency settlement model) shall be included in the SLA report. Secondly, all cross-currency payments shall be included in the Enhanced Information Database (EIDB)[1], giving the NCBs the possibility of differentiating cross-currency payments from mono-currency payments. Lastly, the camt.053 Statement of Account (SoA) report should be adapted in order to allow customers to distinguish between mono-currency payments and the leg of cross-currency transactions credited or debited in the reported accounts.

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Description of requested change(s):

The change request is divided in three sections (i) SLA report (ii) Enhanced information database (EIDB) and (iii) camt.053 Statement of Account (SoA) report.

     (i)   <u>SLA report</u>

The cross-currency payment legs settled with LKT or Regular Cross-currency settlement model should be included in the monthly SLA report produced by 4CB.

     (ii)   <u>Enhanced information database (EIDB)</u>

The Enhanced Information Database (EIDB) should be fed with the aggregated data stemming from cross-currency payments. This would entail that EIDB users can differentiate between mono-currency payments and cross-currency ones. The data stemming from cross-currency payments should be aggregated in the same way as the current aggregation for mono-currency payments[2].

Furthermore, the TIPS Dashboard should also be populated with the new information and the possibility to differentiate between mono-currency and cross-currency payments.

     (iii)   <u>camt.053 Statement of Account (SoA) report</u>

To ease the customer reconciliation, the camt.053 SoA report should be enhanced in order to allow, for each payment transaction entry, to easily understand if the debit or credit entry is related to a leg of a cross-currency

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[1] The EIDB is only available for central bank users.

[2] The payments settled after the implementation of TIPS-0064 /TIPS-0065-URD and before the implementation of this change request, will not be available in the EIDB.

Change Request Form

transaction or a mono-currency one.

The requirements described in this Change Request should apply to all hosted currencies and potential new currencies onboarding TIPS.

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Submitted annexes / related documents:

TIPS-0065-URD

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Proposed wording for the Change request:

TIPS UDFS R2025.OCT

1) **§ 3.3.2.2.12 BankToCustomerStatement (camt.053.001.06)**

[…]

Table 1 – BankToCustomerStatement (camt.053.001.06)

Field Name	Description	XML path	Mand.	TIPS Usage
Message Identifier	Identification of the message	BkToCstmrStmt/GrpHdr/MsgId	Yes	
[…]	[…]	[…]	[…]	[…]
Bank transaction code	Bank transaction code of the transaction, which allows to distinguish between Payment Transactions and Liquidity transfer Orders.	BkToCstmrStmt/Stmt/Ntry/BkTxCd/Domn/Cd	Yes	Used codes are based on the ExternalBankTransactionDomain ISO documentation. The Domain code allowed value is: - **PMNT** (Payments).
Bank Transaction Code Family	Family of the Bank Transaction Code.	BkToCstmrStmt/Stmt/Ntry/BkTxCd/Domn/Fmly/Cd	Yes	Allowed values depend on the type of reported payment: - **ICDT**: Debited Liquidity Transfers (for Outbound, Internal Contingency[3] and intra-service LTs[4]) - **RCDT**: Credited Liquidity Transfers (for Inbound, Internal Contingency[5] and intra-service LTs[6]) - **IRCT**: Debited Instant Payment or cross-currency Instant Payment Transaction - **RRCT**: Credited Instant Payment or cross-currency Instant Payment Transaction

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[3] ICLT where the debited account is a TIPS DCA and the credited account is a Transit Account.

[4] Intra-service LT where the debited account is a TIPS DCA and the credited account is a TIPS AS Technical Account.

[5] ICLT where the credited account is a TIPS DCA and the debited account is a Transit Account.

[6] Intra-service LT where the credited account is a TIPS DCA and the debited account is a TIPS AS Technical Account.

Change Request Form

Field Name	Description	XML path	Mand.	TIPS Usage
Bank Transaction Code SubFamily	SubFamily of the Bank Transaction Code.	BkToCstmrStmt/Stmt/Ntry/BkTxCd/Domn/Fmly/SubFmlyCd	Yes	In terms of reporting, both Instant Payment Transactions and Liquidity Transfers, are defined as Financial Institution Credit Transfer. The allowed value for this field is **FICT**.
<u>Bank Transaction Code Family Proprietary</u>	<u>Proprietary bank transaction code</u>	<u>BkToCstmrStmt/Stmt/Ntry/BkTxCd/Prtry/Cd</u>	<u>No</u>	<u>Definition of the type of returned Bank Transaction Code Family. Used only in case of cross-currency Instant Payment Transaction. The allowed value for this field is **TCCY**.</u>
Amount Details + ProprietaryAmount	Additional information for Account balance	BkToCstmrStmt/Stmt/Ntry/AmtDtls/PrtryAmt	Yes	For every Entry of the statement, two Proprietary Amount blocks are included. These blocks define the Account Balance before and after the settlement of the Instant Payment Transaction or Liquidity Transfers occurred.
[…]	[…]	[…]	[…]	[…]

2) § ANNEX B. ENHANCED INFORMATION DATABASE

[…]

Table 2 – Dataset structure

Name	Description
[…]	[…]
transaction_type	Type of transaction. The field can assume one of the following values: • "Instant Payment" • <u>"Cross-currency Instant Payment"</u> • "Recall Response"[7] • "Liquidity Transfer" • "Intra-service LT"
[…]	[…]

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[7] "Recall response" refers only to positive recall responses

High-level description of Impact:

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Impacts on other projects and products:

No impact is foreseen on other TARGET Services:

- T2: no impact

- ECMS: no impact

- T2S: no impact

Outcome/Decisions:

Change Request Form

L3 analysis - General Information		
Impact on TIPS		
Business Interface		
X	A2A Interface	
	U2A Interface	
Settlement Engine		
	Payment Transaction	
	Liquidity Transfer	
	Recall	
Queries and Reports		
	Queries	
X	Reports	
Other functions		
	Local Reference Data Management	
	Statistics	
	Complex Queries and Reports	
	Mobile Proxy Look-up	
Common Components		
	ESMIG	
	CRDM	
	Archiving	
	Billing	
	DMT	
Operational Tools		
X	SLA Reporting	
	TMS	
	Technical Monitoring	

Change Request Form

	Change Management	
	Capacity Management	
Infrastructure request		
	Application components impacted	
	Application components not impacted	
Operational activities		
	Business activities impacted	
	Technical activities impacted	
New functionalities		
X	Enhanced Information Database (EIDB)	

Impact on documentation		
Document	**Chapter**	**Change**
TIPS UDFS	3.3.2.2.12 BankToCustomerStatement (camt.053.001.06) ANNEX B. ENHANCED INFORMATION DATABASE	Insertion of the optional field proprietary bank transaction code (BkToCstmrStmt/Stmt/Ntry/BkTxCd/Prtry/Cd). Update of Table 146 - Dataset structure to include the "Cross-currency Instant Payment" as transaction type value
TIPS UHB	n/a	n/a
Training documentation	n/a	n/a
MyStandards	Usage Guidelines for camt.053	Insertion of the optional field proprietary bank transaction code (BkToCstmrStmt/Stmt/Ntry/BkTxCd/Prtry/Cd). TCCY as only allowed code.
Other documents	n/a	n/a
Impacted GDPR message / screen fields	n/a	n/a

Change Request Form

<table>
<tr><td align="center">**Overview of the impact of the request on TIPS (L2 view)**</td></tr>
<tr><td align="center">**Summary of functional, development, infrastructure, operational and security impacts**</td></tr>
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Summary of functional impact:

Assumptions underlying the CR Detailed Assessment

No specific assumptions have been made beyond the amendments necessary to meet the requirements of the change request. All assumptions made are outlined below for each of the points mentioned in the text of the CR.

The purpose of this CR is to support the introduction of the cross-currency functionalities deemed as out-of-scope for TIPS-0065-URD. More in detail, the amendments required to reflect the requirements of this CR are the following:

   i)   In order for 4CB to provide monthly information related to the settlement of cross-currency payments regardless the cross-currency settlement model used by TIPS participants, the SLA report shall include a new "Volume of Cross-currency IPTs settled in the month" indicator for computing the number of cross-currency payments settled in the month out of the number of settlement attempts for each currency supported in TIPS (i.e. EUR, SEK, DKK). More in detail, the currency driving the aggregation process in each indicator shall be the currency of the source leg in the context of an end-to-end cross-currency transaction. For the sake of clarity, this means that, for instance, a cross-currency payment originated in the EUR leg and directed to the SEK leg shall be taken into account only by the volumetric cross-currency indicator related to the Euro currency and not by the Swedish volumetric cross-currency indicator as well. Regarding the other SLA indicators, cross-currency payments shall not be considered in the aggregation process and therefore no impact is foreseen.

   ii)   In order for EIDB users to differentiate between mono-currency payments and cross-currency ones as well as to populate the TIPS Dashboard with the new cross-currency information, the EIDB dataset structure shall include the "Cross-currency Instant Payment" as a new value for the transaction_type field so that only cross-currency aggregated data may be shown.

   iii) To ease customer reconciliation, the camt.053.001.06 Statement of Accounts report should be enhanced in order to allow, for each payment transaction entry, to easily understand if the debit or credit entry is related to a leg of a cross-currency transaction or a mono-currency one. At the current stage, IRCT and RRCT family codes, used inside BkToCstmrStmt/Stmt/Ntry/BkTxCd/Domn/Fmly/Cd tag, are used to identify either an Instant Payment (i.e. mono-currency Instant Payment) or a cross-currency Instant Payment. It is therefore not possible to clearly understand whether the entry of the statement is referring to an IP or a cross-currency IP. For this reason, the Bank Transaction Code containing the set of elements used to fully identify the type of underlying transaction in an entry, will be enhanced by adding an additional layer of detail. The BkToCstmrStmt/Stmt/Ntry/BkTxCd/Prtry/Cd optional XML tag will be populated with proprietary TCCY (TIPS Cross-Currency) code only in case IRCT/RRCT family codes are referring to a debited/credited cross-currency Instant Payments, allowing therefore easier reconciliation activities. The code won't be used by TIPS for mono-currency Instant Payment or in case the entry of the statement is referring to Liquidity Transfers (ICDT/RCDT family codes).

TIPS Dashboard:

Both adaptation of the existing indicators and implementation of new indicators for cross-currency are required.

Furthermore, an internal testing campaign is required to validate the figures of the new TIPS dashboard indicators.

Summary of application development impact:

Impacts on "TIPS Core"

- *Message Router*: The report generation procedure shall be amended so to produce the new flag to mark cross-currency payments when producing Statement of Account (SoA) reports (aka camt.053).

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- *Additional Services*: The procedure that builds the data for the EIDB shall be amended by restructuring the aggregation logic so to identify and locate cross-currency payments and to assign them to a dedicated aggregate associated to a new *instruction_type*.

Impacts on Common Components (SLA Reporting Service)

In order to include the new SLA Section as described within Annex- 1, two new indicators:
1. KPI – "Volume of Cross-currency IPTs (settled and attempts) in the month"
2. KPI – "Volume of Cross-currency IPTs settled in the month - Currency Break breakdown Flows"
have to be designed, meaning that the following amendment are needed:

SLA Reporting FE (Front End) Component
A new sub-paragraph in the "Overall-Status" section has to be included in order to resemble the layout in Annex 1.

SLA Reporting BE (Back End) Component

o Daily Procedures
  o A new KPI must be defined as well as the new related procedure responsible for the daily calculations useful to build on the new section:

    In the month of [reporting month] TIPS has settled a total of [x] cross-currency IPs out of [y] settlement attempts.

    Both the volume of the settled cross-currency IPs and their related attempts have to take into account all the cross-currency payments without making any distinction between the LKT and OLO ones (the calculation process only counts the originator leg).

  o A new KPI must be defined as well as the new related procedure responsible for the daily calculations useful to build on the new table named "Cross-currency flows"

    The new table contains all cross-currency IPTs settled (no distinction between OLO and LKT needed) by counting only the originator leg.

- Monthly Procedures
  o A new KPI must be defined as well as the new related procedure responsible for the monthly calculations useful to build on the new section:

    In the month of [reporting month] TIPS has settled a total of [x] cross-currency IPs out of [y] settlement attempts.

    The calculation process aggregates at monthly level data already aggregated on daily basis.

  o A new KPI must be defined as well as the new related procedure responsible for the monthly calculations useful to build on the new table named "Cross-currency flows"

    The calculation process aggregates at monthly level data already aggregated on daily basis.

- Configurations
  The already existing technical archives, thanks to which the various phases of the process are managed, from the daily loading of the Raw Files, through the daily and monthly calculation, to ending with the activation of the process of generating the final report, i.e. the tables:

  1. SLA KPI-Procedure Mapping - IOR_TIORKPIP_KPI_PROCEDURES
  2. Pipeline Procedure Catalogue - IOR_TIORCPIE_PIPELINE_EDGE
  3. Pipeline Node Catalogue - IOR_TIORCPIN_PIPELINE_NODE
  4. Pipeline Node Sequence Catalogue - IOR_TIORCPRC_PROCEDURE_CATALOG

  need to be uploaded accordingly in order to allow, respectively:

    o The mapping between KPI, Business Service and Procedure (bullet 1)
List of procedures to be activated, with related rules and activation sequence (bullets 2,3 and 4)

Summary of infrastructure impact:

None.

Summary of operational impact:

Enhancement of TIPS SLA section 1.1.1 with a breakdown of the cross-currency flow volumes of settled instant payments. Testing of the relevant data extractions before Production implementation and verification activities upon monthly drafting of the TIPS SLA Report

Summary of security impact:

See Change Request Analysis.