

Technical introduction

Cross-currency service in TIPS



Cross-border payments: TIPS for getting there Andrea Dimartina Market Infrastructure Expert and TIPS Functional Manager, Banca d'Italia

Introduction to the settlement model

The cross-currency settlement model for TIPS hosted currencies is managed via TIPS change request <u>TIPS-0065-URD – Enhanced Linked Transaction (LKT) settlement model for cross-currency in TIPS</u>

This enhanced cross-currency solution for end-to-end cross-currency payments foresees the following features:

- > Available for all possible combinations of current and future TIPS-hosted currencies
- Guarantees end-to-end instantaneity of the payments between all TIPS-hosted currencies by means of two transactions (i.e. mono-currency legs) and 'all or nothing' approach (i.e. "both transactions are settled or none of them is settled").
- > Offers to the originator certainty of the delivery of the funds to the ultimate beneficiary
- > Manages the end-to-end timeout within 20 seconds, in compliance with One-leg-out provision
- Reuses to the maximum extent possible existing ISO messages for both EUR and non-EUR currencies

TIPS cross-currency payment initiation phase

The following preliminary steps, belonging to the Customer-to-PSP and Intermediaries spaces, are provided for the sake of completeness:

- 1) The **Payer initiates a cross-currency payment request** towards its Originator PSP.
- 2) Transaction currency and amount should be provided by the Payer.
- Prior to forwarding the payment request to the TIPS x-ccy service, it is possible for the Originator PSP to present to the Payer the actual FX rate applied (as offered by the Exit-Leg PSP).
- 4) If applicable, this allows the Originator PSP to offer the Payer to confirm the actual exchange rate prior to processing the payment.

Start of a TIPS cross-currency payment – step 1

Cross-currency payment instruction to the CSM shall follow the implementation guidelines stemming from OCT Inst:



The **STEP 1** pacs.008 submitted by Bank A shall include at least the following *business* (**) information:

- Transaction Identification,
- ✓ Amount in source currency,
- Amount in destination currency,
- ✓ Applied FX-rate,
- Intermediaries' info, i.e. BIC or references of the Exit-leg PSP and (on optional basis) Entry-leg PSP(*),
- ✓ Ultimate beneficiary data, such as payee IBAN and BIC of the Bank B.

(*) Exit-leg PSP and Entry-leg PSP (cross-currency PSPs) can either be <u>two distinct players</u> or the <u>same legal entity acting in two different jurisdictions</u> (**) Additional technical fields are needed (e.g. Clearing System Code)

Enhanced Linked Transactions model overview



Example*: EUR-SEK transaction

the two.



A deep dive on the TIPS mapping table (1/2)

- The **mapping table** is primarily used to understand for which couple of currencies the LKT model applies (instead of the regular cross-currency model introduced by CR0064).
- In addition, as the Entry leg PSP information is **not mandatory** according to OCT Inst scheme IGs, but required for settlement in the LKT model, TIPS will rely either on a mapping table to fill the gap or on the information provided by the originator PSP.
- The mapping table is configured upon information provided by each central bank responsible for a currency in TIPS (i.e. ECB, Riksbank and Danmarks Nationalbank). The table can be described as two layers:
 - 1. Ad-hoc mapping per each pair of Exit leg and Entry leg PSP (for example Nordea/Deutsche Bank). The mapping table is restricted to one entry per entry leg and currency pair. For example, if Deutsche act as an Exit PSP in a cross-currency transaction between EUR and SEK, Nordea can be the only Entry PSP given this configuration. This referred to as the **ad-hoc entry**.
 - 2. A **default mapping** for an Entry leg PSP per destination currency. If the above pair is not present, a default mapping should exist per source and destination currency, granting that there is always an Entry leg PSP able to receive payments in a given corridor

A deep dive on the TIPS mapping table (2/2)

Step	1) Corrid	or enabled for	ELKT: yes/no		Step	2) Consulted only i	f Entry Leg PSP is	not informed
	Source CCY	Destination CCY	CSM Source DN	CSM Destination DN	Destination NSP	Exit Leg PSP	Entry Leg PSP	
	EUR	ркк	TIPSEURTechDN	TIPSDKKTechDN	SWIFT	UNCRITMMXXX	NDEADKKKXXX	Ad-hoc entry
	EUR	ркк	TIPSEURTechDN	TIPSDKKTechDN	SWIFT	Any	NDEADKKK001	Default entry
	EUR	SEK	TIPSEURTechDN	TIPSSEKTechDN	NEXI	UNCRITMMXXX	NDEASESSXXX	
	DKK	SEK	TIPSDKKTechDN	TIPSSEKTechDN	NEXI	NDEADKKKXXX	NDEASESSXXX	
	DKK	EUR	TIPSDKKTechDN	TIPSEURTechDN	SWIFT	Any	UNCRITMMXXX	
	SEK	EUR	TIPSSEKTechDN	TIPSEURTechDN	NEXI	NDEASESSXXX	UNCRITMMXXX	
	SEK	ркк	TIPSSEKTechDN	TIPSDKKTechDN	NEXI	Any	NDEADKKKXXX	
	EUR	EUR	TIPSEURTechDN	ExternalIPSDN	SWIFT	Any	UNCRITMMXXX	

Technical fields for internal routing

Cross-currency transaction – Settlement Model check



Settlement takes place according to TIPS-0065 (ELKT model)

Cross-currency transaction – Missing Entry-Leg PSP



TIPS cross-currency messages

By searching <u>XCY</u>, the TIPS cross-currency messages as displayed below can be found in MyStandards

Swift MyStandards		Q Search Standards Releases CBPR+ Swift Guidel	ines Groups
xcy			× Q)
To search for an exact phrase, enclose it in double	quotation marks, e.g. "pacs.(08 CBPR+"	
▼ Publishing Date	Usage Guidelines 3	Standards Messages 0 Groups 0 Communities 0 Portals 0	
all ~			sort by Relevance -
▼ Publishers (1)			
Select all TIPS (Target Services) 3	target **	pacs.008_XCY_FITOFICustomerCreditTransfer_pacs.008.001.08 Base Standard: FI To FI Coustomer Credit Transfer V08 (pacs.008.001.08) Collection maca08.1TPS.XCY Version: TIPS-0064-URD beta version , Status: Draft	Released date: 13 Feb 2024
▼ Message Types (1)	TIPS		Export •
Restricted ISO20022 3			
• Restricted Messages (3)	torget) m	pacs.002_XCY_FITOFIPaymentStatusReport_pacs.002.001.10 Base Standard: FI To FI Payment Status Report V10 (pacs.002.001.0) Collection: pacs.002_TIPS_XCY	Released date: 13 Feb 2024
Collections (3)	TIPS	Version: TIPS-0064-URD beta version, Status : Draft	😫 🛃 Export 💌
 Version (2) 		pacs.028_XCY_FIToFIPaymentStatusRequest_pacs.028.001.03	
Status (1)	TIPS	Base Standard: FI To FI Payment Status Request V03 (pacs.028.001.03) Collection: pacs.028_TIPS_XCY	Released date: 15 Feb 2024
	TIF5	Version: TIPS-0064-URD beta version, Status: Draft	🚇 🛃 Export 🔹