



# SWIFT Securities View Update for SMPG

5 October– SMPG Amsterdam

# SWIFT tackles major friction in securities industry with first end-to-end view of post-trade processing

SECURITIES, 28 SEPTEMBER 2022 | 6 MIN READ



**Brussels, 28 September 2022** – SWIFT today announces the successful pilot of SWIFT Securities View, a new capability that significantly increases transparency in post-trade processing and helps prevent costly settlement fails. The new service, which will be available for broad adoption in 2023, addresses one of the biggest challenges in the securities industry.



# Smartifying securities is key to realising SWIFT's strategic vision

## Frictionless payments

Instant and frictionless transactions from account to account anywhere in the world, building on and extending gpi

## Smarter securities

Smarter securities services for greater simplicity and efficiency

## Open state-of-the-art platform

State-of-the-art digital platform that enables messaging and transaction services with effortless customer experience

## Rich data

End-to-end integrity and rich data services enabled by ISO 20022, to help our users innovate and grow



# SWIFT New Securities Strategy: Delivering instant, frictionless transactions

**SWIFT is building an enhanced platform with value added services to deliver instant, frictionless payments and more transparent securities transactions.**



**Securities View**

An end-to-end tracking service aims at providing greater visibility of settlement transaction on a near real time basis to all relevant parties in both legs of the settlement chain and enabling parties to identify and manage exceptions effectively



**gpi**

An end-to-end payment tracking service to improve speed and traceability of payments, enhance liquidity management and to reduce exceptions through a suite of additional value added services.



**KYC Registry**

A global, centralized, secure platform to exchange standardized KYC data, allowing a streamlined KYC process for Banks, Corporates and Non bank financial institutions.



# Pilot Timeline



# Pilot Phase 1:



## Pilot phase 1: description & objectives

### Pilot phase 1 consisted of:

- ❑ Pilot members to input test transactions (MT541/3...) with dummy data, including dummy UTI in SWIFT T&T environment.
- ❑ Pilot members to log into test version of the Securities tracker GUI to follow the status of their test transactions according to test scenarios.
- ❑ Pilot members to share user experience feedback in Feedback & Review sessions

### The purpose of phase 1 was threefold:

- ✓ **Ensure data extraction and data display in GUI is done correctly and according to the GDPR** and other data governance rules.
- ✓ **Validate the value & benefits** for pilot members of key features, such as early warnings, full visibility across the post-trade chain, identification of root-cause of exceptions.
- ✓ **Gather UX feedback** from pilot members with the aim **to enhance the design of the Tracker GUI** from a UX perspective.



## Pilot phase 1: Transactions & Use-Cases

To achieve the objectives of phase 1 we tested with:

- ❑ 17 institutions distributed over 6 groups
  
- ❑ 45 Transactions covering a variety of use-cases:
  - Plain vanilla happy flow
  - Early warning based on differences in Buy/Sell data
  - Partial settlement
  - Fails
  - Rejections
  - Cancel/Replace...etc.
  
- ❑ 30+ Feedback & Review sessions





# Phase 1: Conclusions & outcome – GUI enhancements already implemented

Securities Tracker

Search on Unique Transaction Identifier (UTI) or Sender's Message Reference (SEME) john doe api

Back to home Previous transaction Next transaction Your time zone: GMT+2:00

### Securities transaction view

Mark as to do Annotate Export view

Latest transaction state	Instruction type	Financial instrument ID	Settlement amount	Settlement quantity	Settlement date	Trade date	Unique Transaction Identifier (UTI)
Initiated 22 Aug 17:29 <span>my side</span>	RVP	ISIN FR0000121262	73,200.00 EUR	2000, UNIT	24 Aug 2022	22 Aug 2022	TESTSCENARIO20220822152948
Initiated 22 Aug 17:30	DVP						

Latest state on both sides: Initiated - Originated by: BSWPPLP1 on 22 Aug 2022 17:30 on my side and by: DLIPUS33 on 22 Aug 2022 17:30 on counterparty side

You can click on a state to see more details

Parties State details Detailed history and export

Export details of selected message(s) Export this tab

Date in GMT	Message	Function	Sender	Receiver	SEME	Reason	Settlement amount	Settlement quantity	Trade date	Settlement date
22 Aug 17:30:10	MT 543	NEWM	DLIPUS33	TMDFKHK1	20220822153010	-	73,200.00 EUR	2000, UNIT	22 Aug 2022	24 Aug 2022
22 Aug 17:30:08	MT 541	NEWM	BSWPPLP1	MOITSGS1	20220822153008	-	73,200.00 EUR	2000, UNIT	22 Aug 2022	24 Aug 2022
22 Aug 17:30:06	MT 541	NEWM	GLCUSTOD	BS						

- ✓ Time zone notation
- ✓ Initiation TS on the “metroline”
- ✓ Click-Copy the UTI
- ✓ Improved the transaction header
- ✓ Improved clarity of the status bar messages
- ✓ Search on enter

Securities Tracker

Search on Unique Transaction Identifier (UTI) or Sender's Message Reference (SEME) john doe api

Back to search Previous transaction Next transaction Your time zone: GMT+2:00

### Securities transaction view

Mark as to do Annotate Export view

Latest transaction state	Instruction type	Financial instrument ID	Settlement amount	Settlement quantity	Settlement date	Trade date	Unique Transaction Identifier (UTI)
Failed 28 Aug 02:40 <span>my side</span>	RF	ISIN FR0000121262	Deliver/Receive free	2000, UNIT	30 Aug 2022	28 Aug 2022	TESTSCENARIO202208280401680816159
Failed 28 Aug 02:40	DF						

Exception on both sides: Failed - Status: Failing settlement (SETT/PENF) - Reason: Account blocked (PENF/BLOC)  
 - Status: Failing settlement (SETT/PENF) - Reason: Beneficial ownership disagreement (PENF/BENO)  
 - Originated by: MOITSGS1 on 28 Aug 2022 02:40 on my side and by: MOITSGS1 on 28 Aug 2022 02:40 on counterparty side



# Phase 1: Conclusions & outcome – GUI Screen today

[Back to search](#)

[Previous transaction](#) | 
 [Next transaction](#) >

 Your time zone: GMT+

## Securities transaction view

Mark as to do 

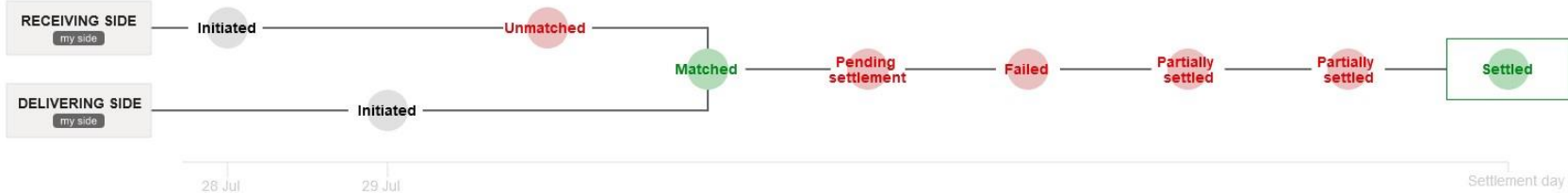
 Annotate

 Export view

Latest transaction state	Instruction type	Financial instrument ID	Settled amount	Settled quantity	Settlement date	Trade date	Unique Transaction Identifier (UTI)
<b>Settled</b> 03 Aug 17:50 <input type="button" value="my side"/>	RVP	ISIN GB00BN7CG237	2,550.00	150, FAMT Previously settled	28 Jul 2022	26 Jul 2022	TTLAHB7FFAZI0MZ8PP8
<b>Settled</b> 03 Aug 17:50 <input type="button" value="my side"/>	DVP			50, FAMT	Eff. settlement date 03 Aug 2020		OE26ZZZUC12G5TRAN200 1 

Latest state on both sides: Settled - Originated by: SWLLBE20 on 03 Aug 2022 17:50 on my side and by: SWLLBE20 on 03 Aug 2022 17:50 on counterparty side - Originated by: SWLLBE20 on 03 Aug 2022 17:50 on my side and by: SWLLBE20 on 03 Aug 2022 17:50 on counterparty side

You can click on a state to see more details

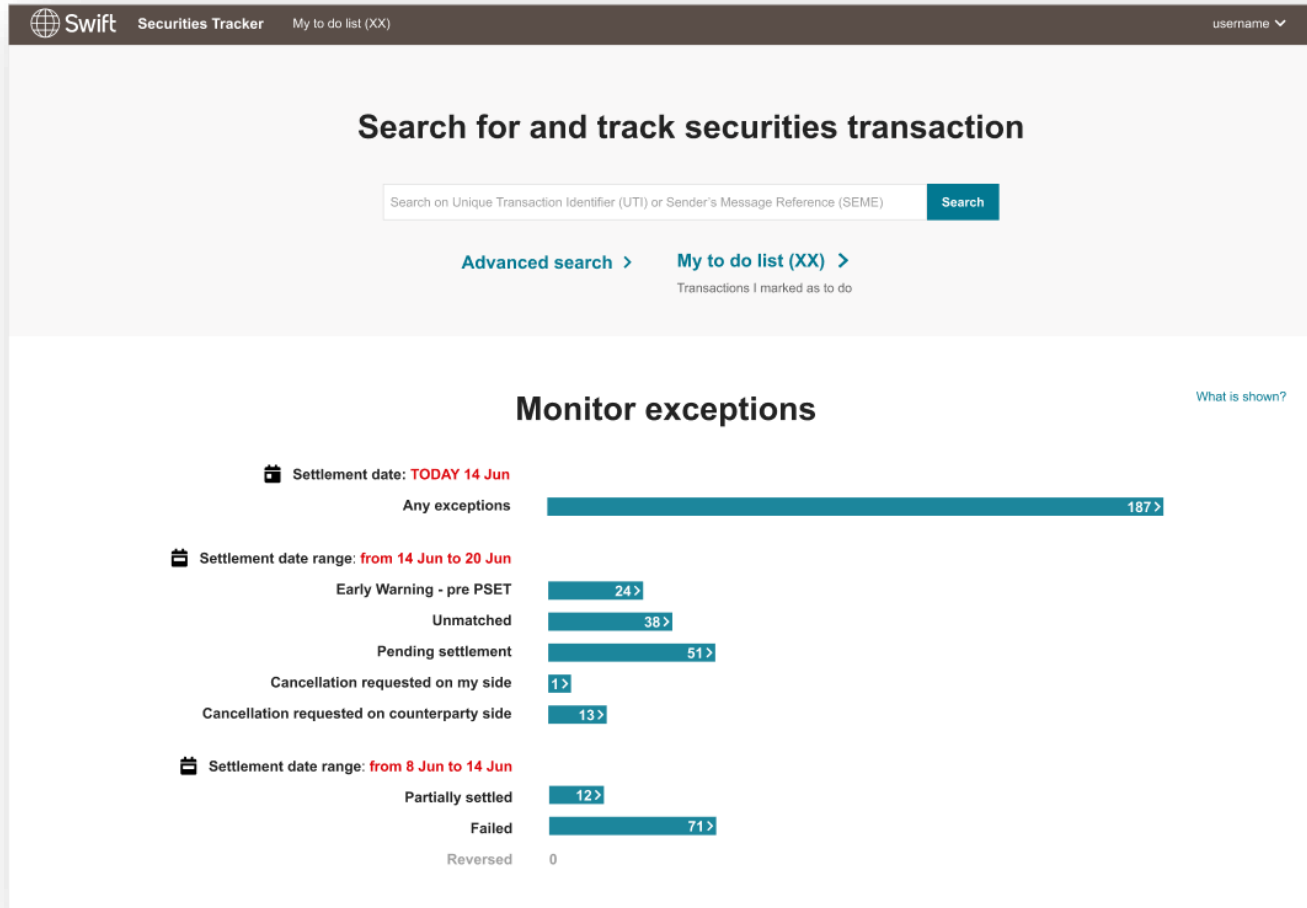


## Phase 1: Conclusions & outcome - Upcoming enhancements based on pilot feedback

- To highlight the (SSIs parties) settlement parties' discrepancies
- To add an interaction to provide the data source
  - For the party's information
  - For the message information
  - For the economics of the transaction in the header
- To improve the graphic representation for the dashboard
- To allow for GUI Integration (URL+UTI) in another GUI
- To improve the responsive design for screens to better adapt to different monitor resolution



# Phase 1: Conclusions & outcome – upcoming enhancement mock-ups (1/2)



# Phase 1: Conclusions & outcome – upcoming enhancement mock-ups (2/2)

2 parties for PSET

The screenshot shows the 'Parties' tab with three sections: RECEIVING PARTIES, DELIVERING PARTIES, and PLACE OF SETTLEMENT (PSET).  
**RECEIVING PARTIES:**  
 - **RECU:** BEST SECURITIES INSTITUTION - BEBRU123 (Account BR4563JHUGHTY67H - BRUSSELS - BELGIUM)  
 - **REAG:** PERFECT GLOBAL CUSTODIAN - BEBRU456 (Account BR0099KLOHHGTY6PP - BRUSSELS - BELGIUM)  
**DELIVERING PARTIES:**  
 - **DECU:** TOP SECURITIES INSTITUTION - BEBRU008 (Account AAAA8766765XXX - BRUSSELS - BELGIUM)  
 - **DEAG:** Proprietary code: XXXXXXXXXXXXXXXXXXXX (Account /xxxxxxxxxx/)  
**PLACE OF SETTLEMENT (PSET):**  
 - PARTY NAME - BICXXXX  
 - CITY - COUNTRY  
 - PARTY NAME - BICXXXX  
 - CITY - COUNTRY

2 roles for same party

The screenshot shows the 'Parties' tab with the RECEIVING PARTIES section. It lists two roles for the same party:  
 - **BUYR REI2:** GREAT LOCAL CUSTODIAN - BEBRU789 (Account AAAA87667656PP - BRUSSELS - BELGIUM)  
 - **ROLE:** TOP SECURITIES INSTITUTION - BEBRU008 (Account AAAA8766765XXX - BRUSSELS - BELGIUM)

The screenshot shows a table of transactions with columns: Date in GMT +-XX, Message, Function, Sender, Receiver, SEME, PSET, Settlement amount, Settlement quantity, Trade date, and Settlement date. A blue arrow points to the PSET column in the highlighted row.

	Date in GMT +-XX	Message	Function	Sender	Receiver	SEME	PSET	Settlement amount	Settlement quantity	Trade date	Settlement date
<input type="checkbox"/>	DD Mmm HH:MM:SS	MT 548	XXXX	/BICXXXXB/	/BICXXXXB/	XXXXXXXXXXXX	BEBRU456	XXXXXXXXXX XXX	-	15 Nov 2021	-
<input type="checkbox"/>	DD Mmm HH:MM:SS	MT 548	XXXX	/BICXXXXB/	/BICXXXXB/	XXXXXXXXXXXX	BEBRU456	XXXXXXXXXX XXX	-	15 Nov 2021	-
<input type="checkbox"/>	DD Mmm HH:MM:SS	MT 548	XXXX	/BICXXXXB/	/BICXXXXB/	XXXXXXXXXXXX	BEBRU456	XXXXXXXXXX XXX	-	15 Nov 2021	-
<input type="checkbox"/>	DD Mmm HH:MM:SS	MT 548	XXXX	/BICXXXXB/	/BICXXXXB/	XXXXXXXXXXXX	BEBRU457	XXXXXXXXXX XXX	-	15 Nov 2021	-
<input type="checkbox"/>	DD Mmm HH:MM:SS	MT 548	XXXX	/BICXXXXB/	/BICXXXXB/	XXXXXXXXXXXX	BEBRU456	XXXXXXXXXX XXX	-	15 Nov 2021	-
<input type="checkbox"/>	DD Mmm HH:MM:SS	MT 541	XXXX	/BICXXXXB/	/BICXXXXB/	XXXXXXXXXXXX	-	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX XXXX	-	15 Nov 2021
<input type="checkbox"/>	DD Mmm HH:MM:SS	MT 543	XXXX	/BICXXXXB/	/BICXXXXB/	XXXXXXXXXXXX	-	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX XXXX	-	15 Nov 2021

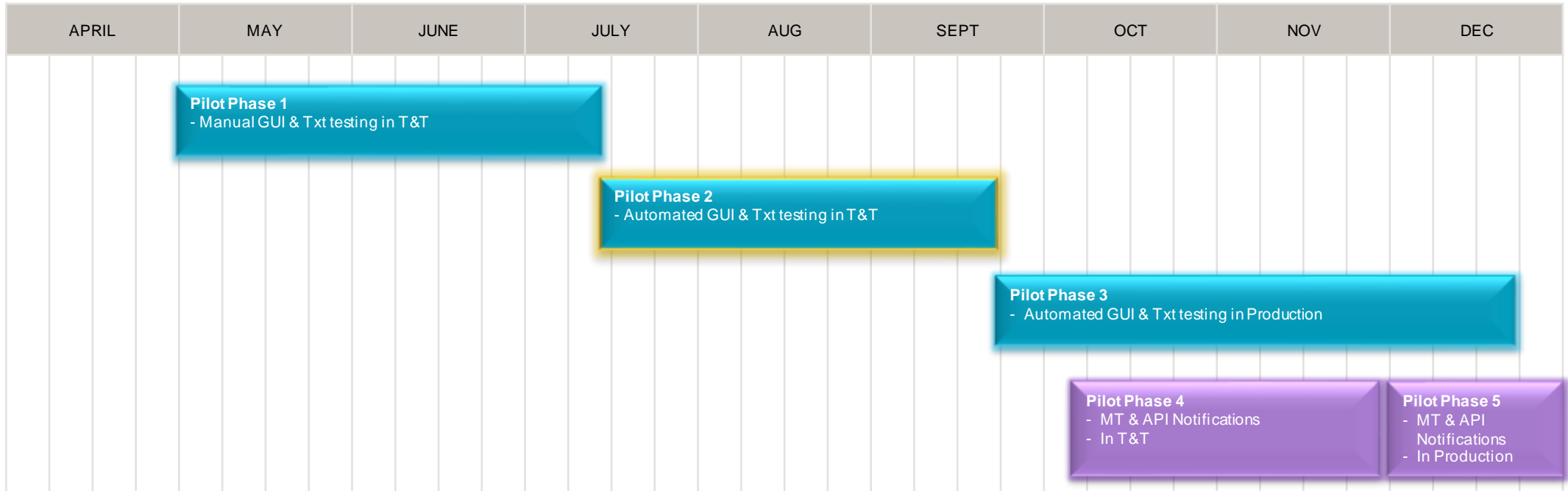
After click on the highlighted issue, trigger Detailed history tab with column set to the issue (PSET here)



# Pilot Phase 2: UTI-ready



# Pilot Timeline







## Some examples with UTI activation in CTM

### Allocation UTI Generation:

DTCC LEI + IM CTMDetailID + EB CTMDetailID

Example:

549300TXA3WBLB9JHZ8814939556931493955510

Trade Side Details									
Both Sides My Side Counterparty									
Master Ref	CTM Trade...	Block UTI	Match Agrd	Block Status	Exec Broker	TLPSET	Complete	Asset Clas	
IM20211125... EB20211125...	1527483255 1527483261	549300TXA3WBLB9JHZ8815274832551527483261 549300TXA3WBLB9JHZ8815274832551527483261	NMAG NMAG	MACH MACH	ITP LLC - CT... ITP LLC - CT...	DTCYUS33	INCP INCP	E E	
Client Alloc Ref	Allocation UTI	Alloc Status	Qty Alloc	Acct ID ▲ 1	Trd Amt	Co			
001 001	549300TXA3WBLB9JHZ8815274832661527483264 549300TXA3WBLB9JHZ8815274832661527483264	MACH MACH	50.0 50.0	0108 0108	500.00 500.00				

```
<TradeLevelReferences>
  <MasterReference>EB20210819.TST02</MasterReference>
  <CTMTradeSideId>1513469819</CTMTradeSideId>
  <BlockUTI>549300TXA3WBLB9JHZ8815134698131513469819</BlockUTI>
</TradeLevelReferences>
```



# Pilot Phase 3:

Successful testing in live is now.

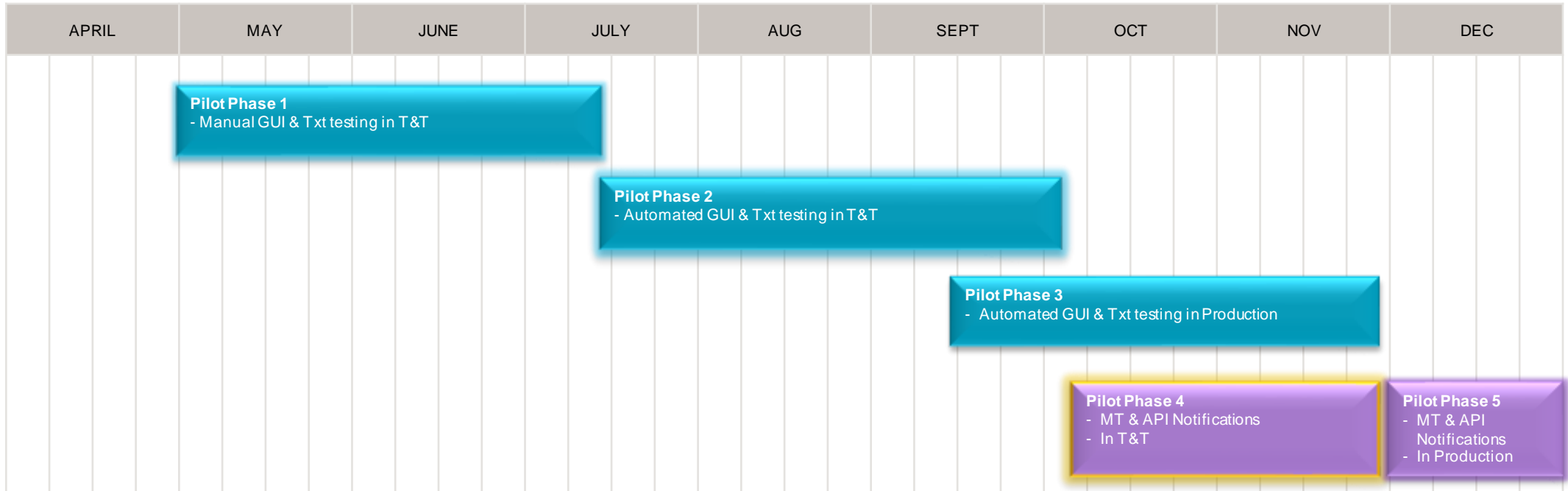


# Pilot Phase 4:

## Automated integration via APIs



# Pilot Timeline



# Operations capabilities



**Real time progress information**  
on instruction, status and resolution



**Early warning - Compare & Alert service**  
highlighting discrepancies between own and counterparty instructions



**Improved allegation reconciliation**  
thanks to visibility of own and counterparty instructions



**Automated resolution processing**  
Enhanced status exchange and resolution ownership



**Multiple integration channels**  
API, MT and GUI



**Audit trail & linkage to other transactions**  
record of lifecycle history, root cause, claim management connection up & downstream, and associated transactions



**Metrics and analytics**  
settlement and fail root cause analysis

## Automation

An API is a set of definitions and protocols for building and **integrating** application software

APIs are a means of enabling **connectivity** between the systems and datasets that need to be integrated: they simplify the way two applications talk to each other

APIs are sometimes thought of as contracts, with documentation that represents an agreement between parties:

If party 1 sends a remote request structured in a particular way, this is how party 2's software will respond

APIs support digitisation and modernisation of legacy infrastructures



# API Calls

API endpoint types	Purpose
1 <b>Get securities transaction current details</b>	A service user queries for a specific transaction record. The service returns current or recent transaction details.
2 <b>Get securities transaction history details</b>	A service user queries for a specific transaction record. The service returns audit trail data for a transaction, instruction, status and confirmation updates with corresponding timestamps and events.
3 <b>Get relevant securities transactions (polling)</b>	A service user can query for the set of records that have been modified (including created) since a 'StartTime'.
4 <b>Post service notification</b>	Service push API to inform the service user that a transaction status has changed, including new transaction received.
5 <b>Post securities transaction record update</b>	A service user can update an existing securities transaction with a status, confirmation, reference, annotation. User provides a notification to the service for an update.
6 <b>Post securities transaction new record</b>	A service user can submit a new instruction or transaction (where the record has not been sent as a U2U MT message) . User provides a notification to the service for a new record.



## API – Transaction Query

**Information query & response call** used by organisations who are a settlement party on a record to retrieve data for a corresponding securities settlement transaction;

### monitoring

- their own instructions,
- their clients' instructions,
- counterparty instructions

### investigating

- status exceptions
- matching exceptions
- timing exceptions

Inputs	Example	Comment
query submitter ORG identifier: BIC	FORGUS33XXX	The organisations BIC needs to be subscribed to the CUG, if not subscribed then access control response
transaction reference: UTI format	TTHB7FFAZI0OMZ8PP8O E26XXXUC13G3TRAN100 134	format & max length check
output	all core fields from both sides when available	consolidated data from both sides – latest instruction data , status and conf data Parties: instruction senders and receivers and settlement parties from message body



## Securities Transaction - Core fields

Category	Value	Message(s)
References	SEME / RELA	IR/SR/CR
	TRRF / MITI	IR/SR/CR
Dates	SETT – Settle Date	IR/SR/CR
	TRAD – Trade Date	IR/SR/CR
	ESET Effective	CR
Instrument	ISIN & Local (Cusip/Sedol etc)	IR/SR/CR
Amounts	Quantity to be Settled & Type	IR/SR/CR
	Settlement Amount & Currency	IR/SR/CR
	Settled & Remaining & Outstanding	CR
Accounts	Safe Keeping (97a)	IR/SR/CR
Parties	Buyer / Seller (BIC's)	IR/SR/CR
	Delivering / Receiving Agent (BICs & DSS) DEAG,	IR/SR/CR
	Others - MEOR, MERE	IR/SR/CR
Places	Place of Settlement	IR/SR/CR
	Others: Safekeeping / Trade	IR/SR/CR
Status Codes	Settlement & Reason Codes	SR
	Matching & Reason Codes	SR
Tracker State	Tracker State (transaction application)	Tracker
	Confirmation	CR
Reason	Reason Codes	SR
	Reason Narratives	SR
Sources	Information to determine source(s) of data in transaction journey	IR/SR/CR
	Instruction Exchange data – messaging parties	IR/SR/CR
Timestamps	When current data was received	IR/SR/CR





## API Schedule

### The API schedule includes:

- deliver specifications via swaggerhub
- workshops and usage feedback and review
- deliver releases aligned to principles and client integration

### GUI Release timeline

SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY
API v1.0 Specifications (external)	API v1.0 Client access (sandbox)	API v1.1 Events view	API v1.2 Notifications	API Foundation Release



# Thank you!



[www.swift.com](http://www.swift.com)

Contact us at [SWIFTSecuritiesPilot@swift.com](mailto:SWIFTSecuritiesPilot@swift.com)

# Legal Notices

## Copyright

SWIFT © 2022. All rights reserved.

## Disclaimer

The information in this document is subject to change without notice and should not be construed as a commitment by SWIFT. SWIFT assumes no liability for any errors, inaccuracies or incompleteness contained this document.

## Confidentiality

SWIFT's business activities are competitive. We view our insights, approaches, plans as proprietary and/or highly confidential, and look to you to protect SWIFT's rights and interests in any information, data and material you may obtain in connection with our consultation about SWIFT's future strategy (the "**Purpose**"), including but not limited to this presentation. Please access, use or share it on a strict need-to-know basis for the Purpose only and, in all cases, do not disclose it outside your group organisation without the prior written consent of SWIFT. By accessing, using or sharing it you will be deemed to have accepted to protect it as per SWIFT customer confidentiality obligations as set out in the SWIFT General Terms and Conditions (available on SWIFT's website).

## Assumptions

By providing any information, feedback, comment or material in connection with the Purpose, you will be deemed to confirm that (i) SWIFT has the right to use it as SWIFT thinks fit in connection with the Purpose without payment to any party; and (ii) any intellectual property rights created by or for SWIFT as a result or which subsist in it shall vest in SWIFT absolutely. Also, please ensure it is free from any competitively sensitive information.

## Trademarks

SWIFT is the trade name of S.W.I.F.T. SC. The following are registered trademarks of SWIFT: 3SKey, Innotribe, MyStandards, Sibos, SWIFT, SWIFTNet, SWIFT Institute, the Standards Forum logo, the SWIFT logo and UETR. Other product, service, or company names in this publication are trade names, trademarks, or registered trademarks of their respective owners.

