



Standards Release 2017 webinar for market infrastructures

Introduction to the SWIFT gpi related changes

February, 2017

Webinar Housekeeping Rules

To ensure a smooth presentation, we will handle **the questions** at the end of the webinar.

During the webinar, please share your questions in the « Q&A » window and send it to « All panelists »

You will receive a copy of the presentation after the webinar.

1. Enter your question here

2. Select
“All Panelists”

3. Send

The screenshot shows a webinar interface with three main tabs: Participants, Chat, and Q&A. The Q&A tab is selected and expanded, showing a dropdown menu with 'All Panelists' chosen. Below the dropdown is a text input field with a placeholder: 'Select a participant in the ask menu first and type your question here. There is a 256 character limit.' To the right of the input field is a 'Send' button. A large yellow arrow points to the input field, and two smaller yellow arrows point to the dropdown and the Send button respectively.



Goal of this Webinar

1 - SWIFT gpi: an introduction

2 - Introduction to the dedicated gpi fields:

- Description
- Usage in FINCopy and FINInform
- Usage in V-Shape MIs

3 - Additional Considerations

- Testing options
- Additional information



1 - SWIFT gpi: an introduction



1 - SWIFT gpi: an introduction

The correspondent banking model is under pressure

Customers and regulators push for better payments service

End customers increasingly demanding

Domestic payments going real-time

Banks rationalize their correspondent banking networks

Regulatory intensity and increasing costs

Network rationalization

Digital innovators offer new disruptive solutions

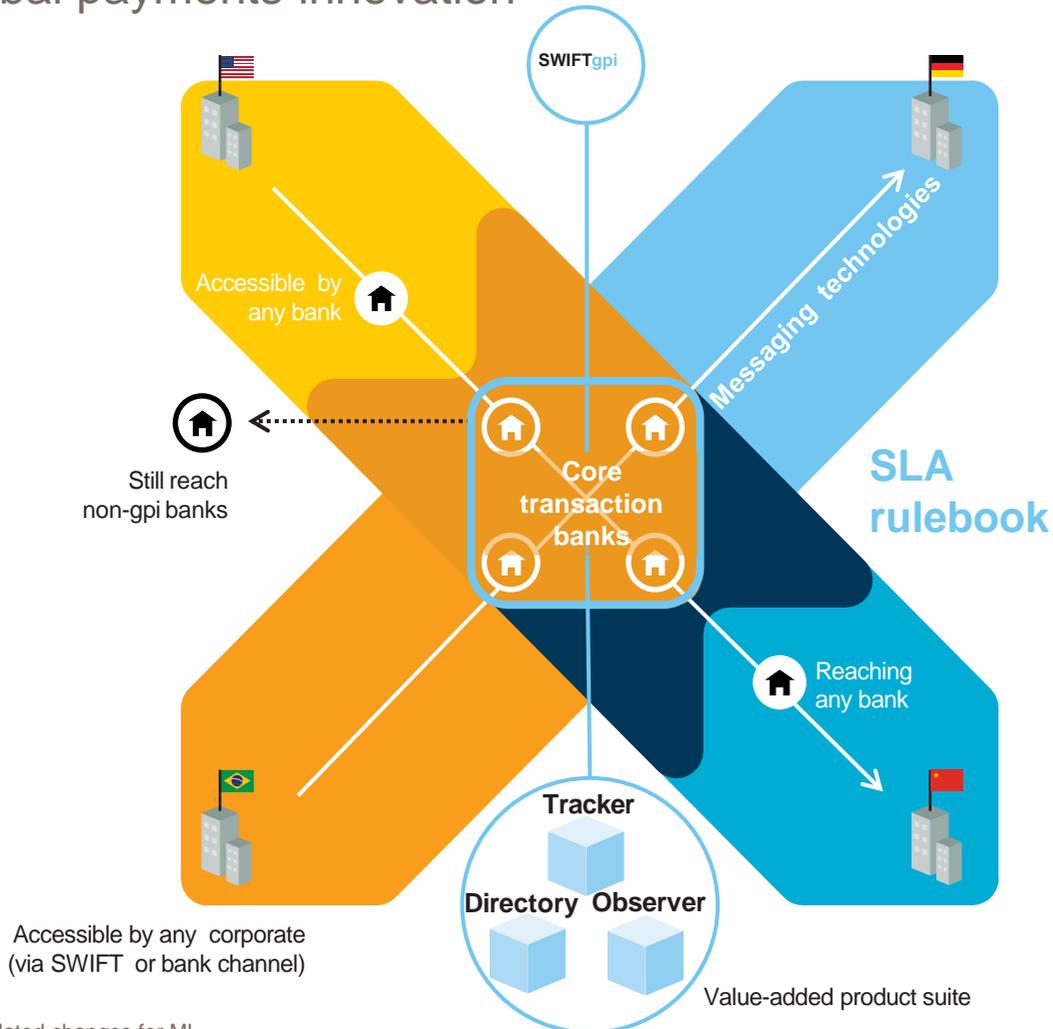
Disintermediation

Enhanced value proposition



1 - SWIFT gpi: an introduction

SWIFT global payments innovation



Key features

Faster, same day use of funds*

Transparency of fees

End-to-end payments tracking

Remittance information transferred unaltered

(*) within the timezone of the receiving gpi member



1 - SWIFT gpi: an introduction

SWIFT gpi member banks

90+ member banks sending payments into more than 224 countries and territories; representing over 75% of all SWIFT cross-border payments

AMERICAS

20%

EMEA

52%

APAC

28%

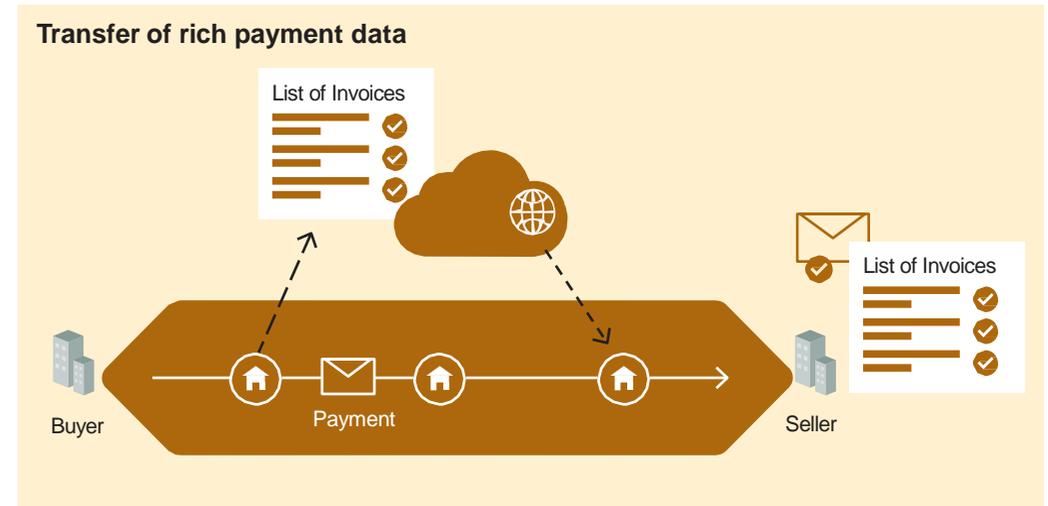
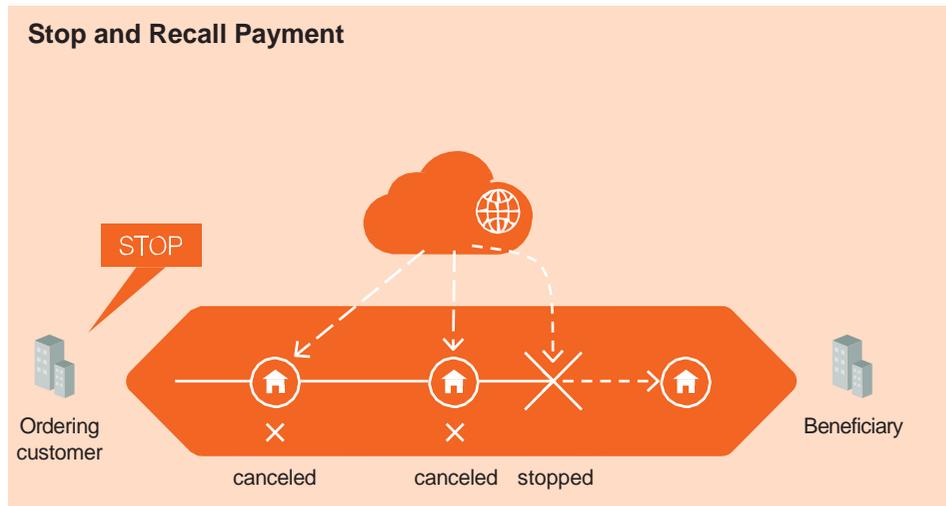
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|--|--|---|---|
| 1. ABN AMRO Bank | 26. CaixaBank | 51. Industrial and Commercial Bank of China | 77. Sberbank |
| 2. ABSA Bank | 27. Canadian Imperial Bank of Commerce | 52. ING Bank | 78. Siam Commercial Bank |
| 3. Agricultural Bank of China | 28. China Construction Bank | 53. Intesa Sanpaolo | 79. Silicon Valley Bank |
| 4. Alfa-Bank | 29. China Merchants Bank | 54. Intl. FCStone | 80. Skandinaviska Enskilda Banken |
| 5. Australia and New Zealand Banking Group | 30. Citibank | 55. Investec | 81. Société Générale |
| 6. Axis Bank | 31. Commonwealth Bank of Australia | 56. Itaù Unibanco | 82. SpareBank 1 |
| 7. Banco Bilbao Vizcaya Argentaria | 32. Commerzbank | 57. JPMorgan Chase Bank | 83. Standard Bank of South Africa |
| 8. Bangkok Bank | 33. Crédit Agricole | 58. Kasikornbank | 84. Standard Chartered Bank |
| 9. Bank of America Merrill Lynch | 34. Crédit Mutuel-CIC Banques | 59. KBC Bank | 85. Sumitomo Mitsui Banking Corporation |
| 10. Bank of China | 35. Credit Suisse | 60. KEB Hana Bank | 86. Swedbank |
| 11. Bank of Communications | 36. CTBC Bank | 61. Lloyds Bank | 87. Tadhamon International Islamic Bank |
| 12. Bank of New York Mellon | 37. Danske Bank | 62. Mashreq Bank | 88. TMB Bank |
| 13. Bank of Nova Scotia | 38. DBS Bank | 63. Maybank | 89. Toronto-Dominion Bank |
| 14. Bank of the Philippine Islands | 39. Deutsche Bank | 64. Mizuho Bank | 90. UBS |
| 15. Bank of Tokyo-Mitsubishi UFJ | 40. DNB Bank | 65. National Australia Bank | 91. U.S. Bank |
| 16. Banco Bradesco | 41. Ecobank | 66. Natixis | 92. UniCredit |
| 17. Banco Santander | 42. E.Sun Commercial Bank | 67. Nedbank | 93. United Overseas Bank |
| 18. Banco de Crédito del Peru | 43. Erste Group Bank | 68. Nordea Bank | 94. Wells Fargo |
| 19. Banco do Brasil | 44. Fifth Third Bank | 69. Oversea-Chinese Banking Corporation | |
| 20. Banorte | 45. FirstRand Bank | 70. PKO Bank Polski | |
| 21. Banque Européenne d'Investissement | 46. Handelsbanken | 71. Promsvyazbank | |
| 22. Barclays | 47. Helaba Landesbank Hessen-Thüringen | 72. Rabobank | |
| 23. Bidvest Bank | 48. HSBC Bank | 73. Raiffeisen Bank International | |
| 24. BNP Paribas | 49. ICICI Bank | 74. Resona Bank | |
| 25. Budapest Bank | 50. IndusInd Bank | 75. Royal Bank of Canada | |
| | | 76. Royal Bank of Scotland | |



1 - SWIFT gpi: an introduction

Roadmap

Dramatically improve cross-border payments Customer Credit Transfer	Live since Feb 2017
Extension for cover payments	Expected by end of 2017
Enable digital transformation	
Stop and Recall Payment	Expected by end of 2017
Rich Payment Data	Expected in 2018
International Payments Assistant	Expected in 2018
Additional payment services	Continuous exploration and co-creation with the financial, corporate and fintech industries
Explore new technologies (blockchain, Collaborative innovation ...)	



2 – Introduction to the dedicated gpi fields

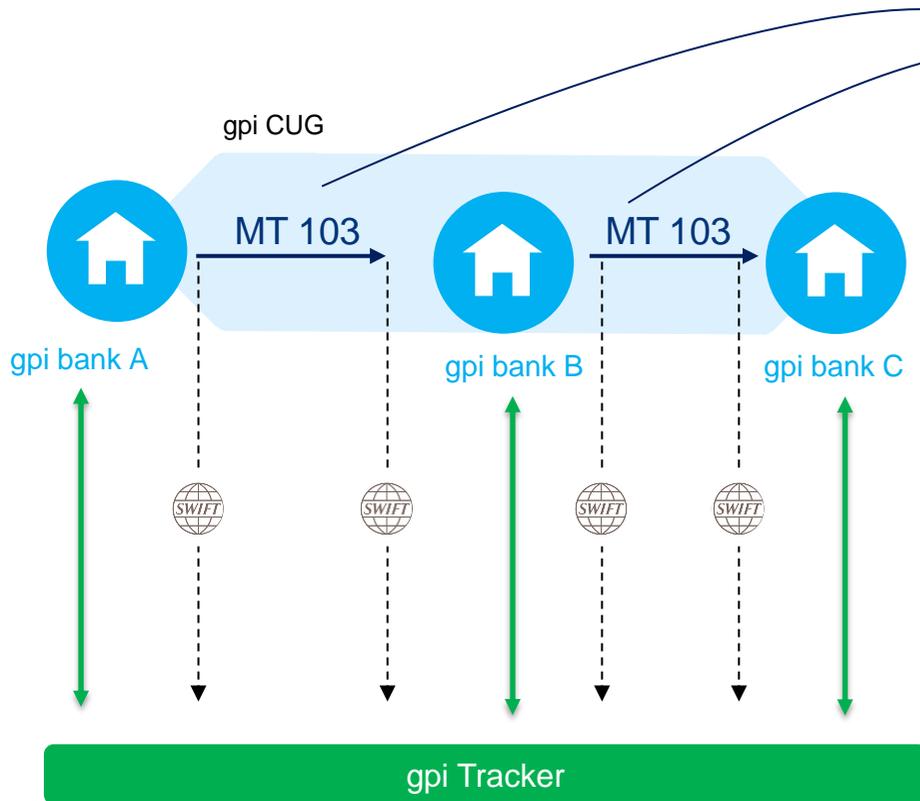


2 - Introduction to the dedicated gpi fields:

Description: Exchanging gpi transactions today between gpi banks

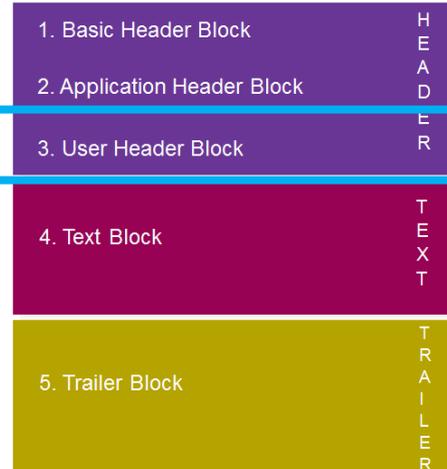
Since SR 2016:

gpi banks can exchange gpi payments with other gpi banks



In SR 2016 two new fields were introduced in the User Header (=Block 3) of the MT 103 to flag a payment as a gpi transaction and to allow for payments tracking across the end-to-end payment chain:

- Field 111: Service Type Identifier
- Field 121: Unique End-to-End Transaction Reference



These elements are also used in gpi confirmations (MT 199, API calls to the tracker, etc)



2 - Introduction to the dedicated gpi fields

MT 103 FIN Header Block 3 contains the new gpi elements exchanged in MTs

Service Type Identifier

- Field 111 in FIN Header Block 3
- Field 111 and field 121 must both be present or both be absent
- Format: 3!n
- Value for currently defined gpi service type is '001'. Code is not validated. Additional codes may be used in the future for other gpi service types.

Example: {111:001}

Unique End-to-End Transaction Reference (UETR)

- Field 121 in FIN Header Block 3
- Contains Universally Unique Identifier (UUID – IETF's RFC4122 using version 4 of the generation algorithm)
- Format: 36!x composed of 32 hexadecimal characters, displayed in 5 groups separated by hyphens:
xxxxxxxx-xxxx-4xxx-yxxx-xxxxxxxxxxxx
x = any hexadecimal character (lower case only); y is one of 8, 9, a or b.
- Designed to be globally unique, without risk of repetition over time

Example: {121:eb6305c9-1f7f-49de-aed0-16487c27b42d}

Sample MT 103*

SENDER: Instructing gpi Bank BIC
MT 103

RECEIVER: Instructed gpi Bank BIC

:111:001

:121:eb6305c9-1f7f-49de-aed0-16487c27b42d

:20:ABC123

:23B:CRED

:32A:160115USD1010,

:33B:USD1000,

:50F:/Account Laurel Co.

/1/Laurel

/2/Address

/3/Country and Town

:59F:/account Hardy

/1/Hardy Co.

/2/Address

/3/Country and Town

:70: remittance info from MT 101

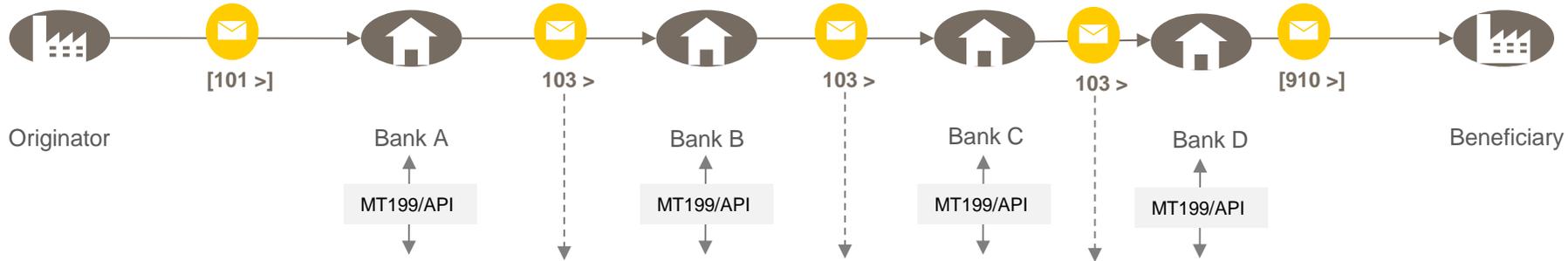
:71A:OUR

:71G:USD10,

* For illustration purposes only, not in technical format

2 - Introduction to the dedicated gpi fields

How the gpi fields enable end-to-end transaction tracking



“One-glance” status overview

Track path, in real time

Details of banks along the chain

Unique, end-end tracking number

Central payments database, hosted at SWIFT

Updated via MT199 or API

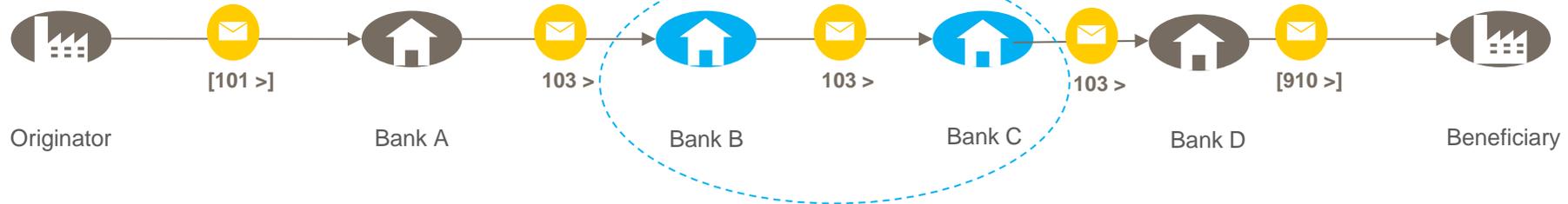
Data consumption via GUI, via MT199 (push) or via API (pull)

Transparency of total fees and time

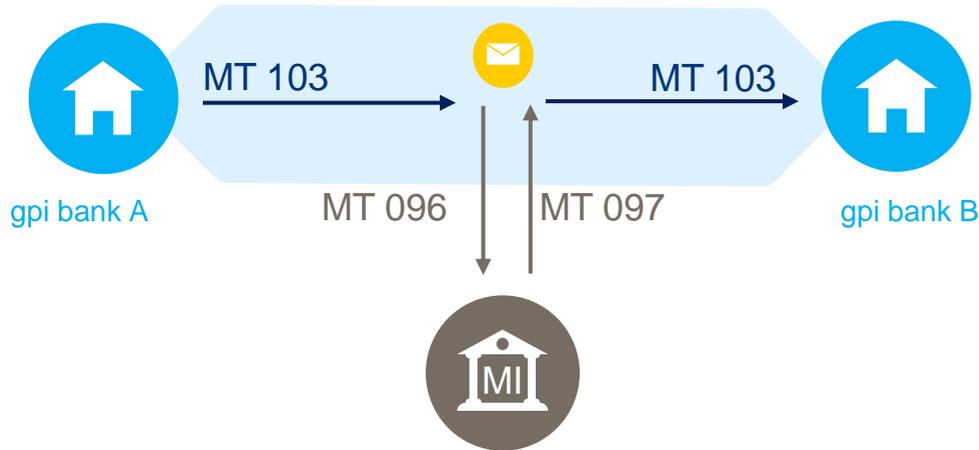


2 - Introduction to the dedicated gpi fields

Role of MIs in gpi cross-border transactions



Domestic high-value payments system



Cross-border transactions often include a 'local leg', which can be cleared and settled through domestic high-value payments systems.

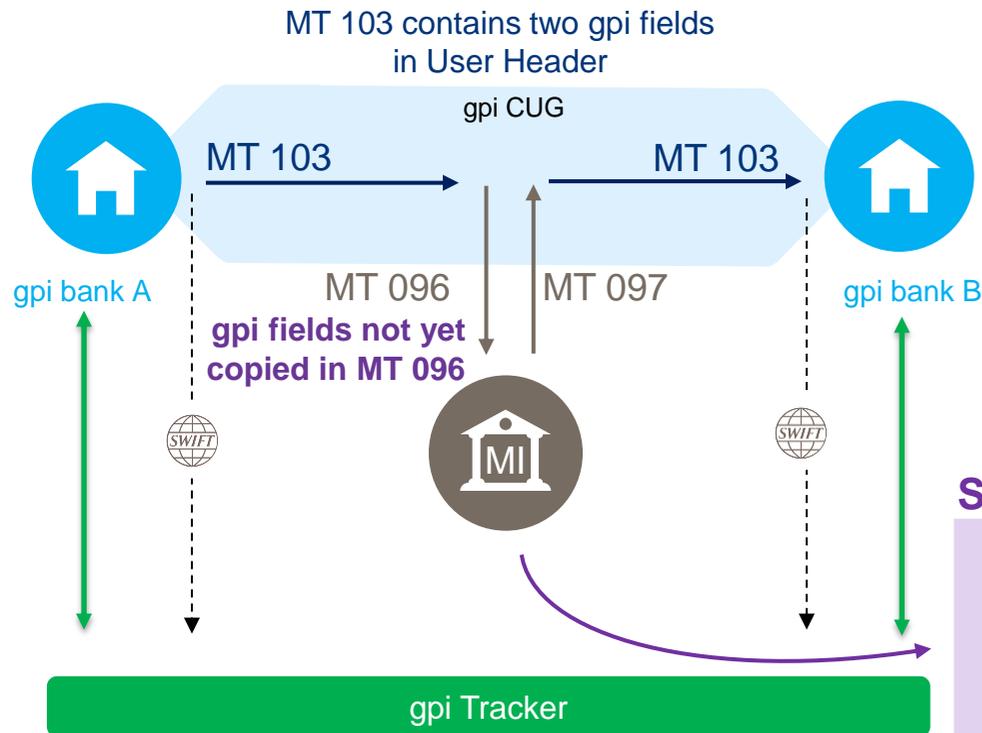
These market infrastructures need to be able to support the exchange of gpi transactions to ensure a seamless end-to-end payments journey.

2 - Introduction to the dedicated gpi fields

Exchanging gpi transactions today over market infrastructures using **SWIFT FINCopy**

As of SR 2016:

- gpi banks can exchange gpi payments with other gpi banks
- gpi banks can exchange these gpi payments over the +50 SWIFT High-Value Payment Systems that use FINCopy



SR 2017

- SWIFT will remove shielding and apply 'Business As Usual' copy rules
- MIs need to be able to receive the gpi fields in the MT 096

Preparation for SR 2017

- MIs need to prepare for SR 2017

SR 2016

- gpi banks can exchange MT 103s with gpi fields as of SR 2016
- The new gpi fields were communicated late in the SR2016 process, reason why the gpi CUG was put in place for gpi banks
- It was decided to **temporarily shield MIs from receiving fields in MT 096** used as part of FINCopy to allow for more preparation time



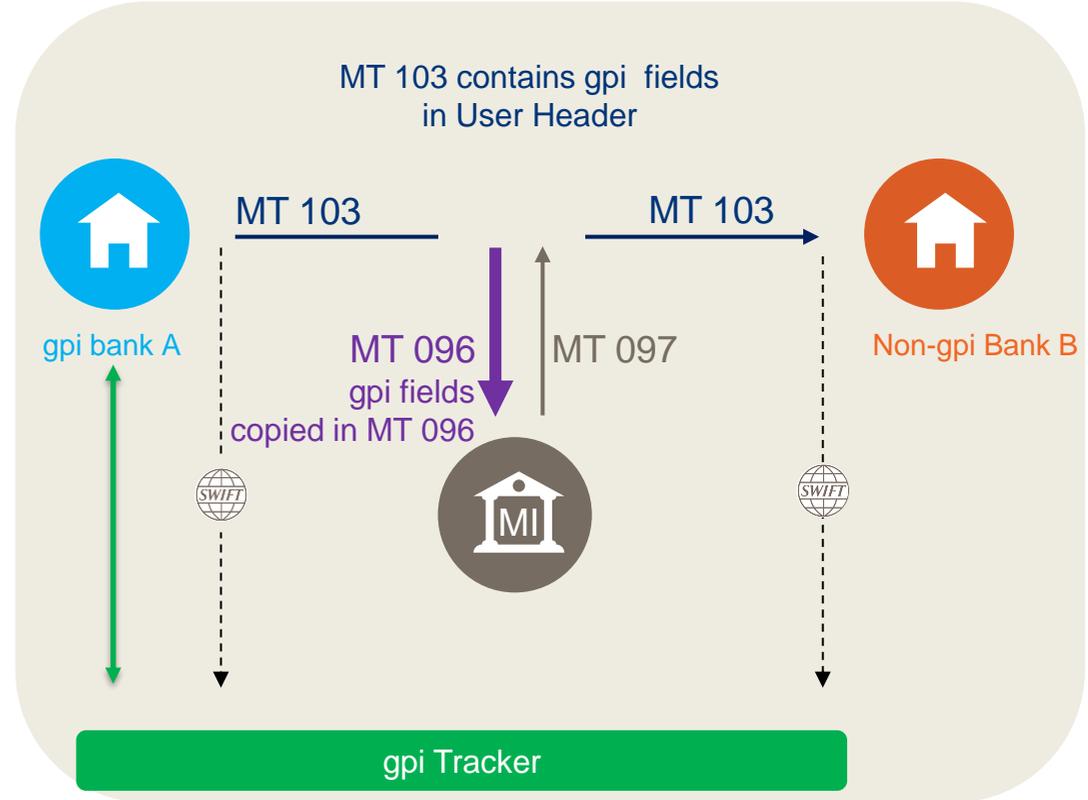
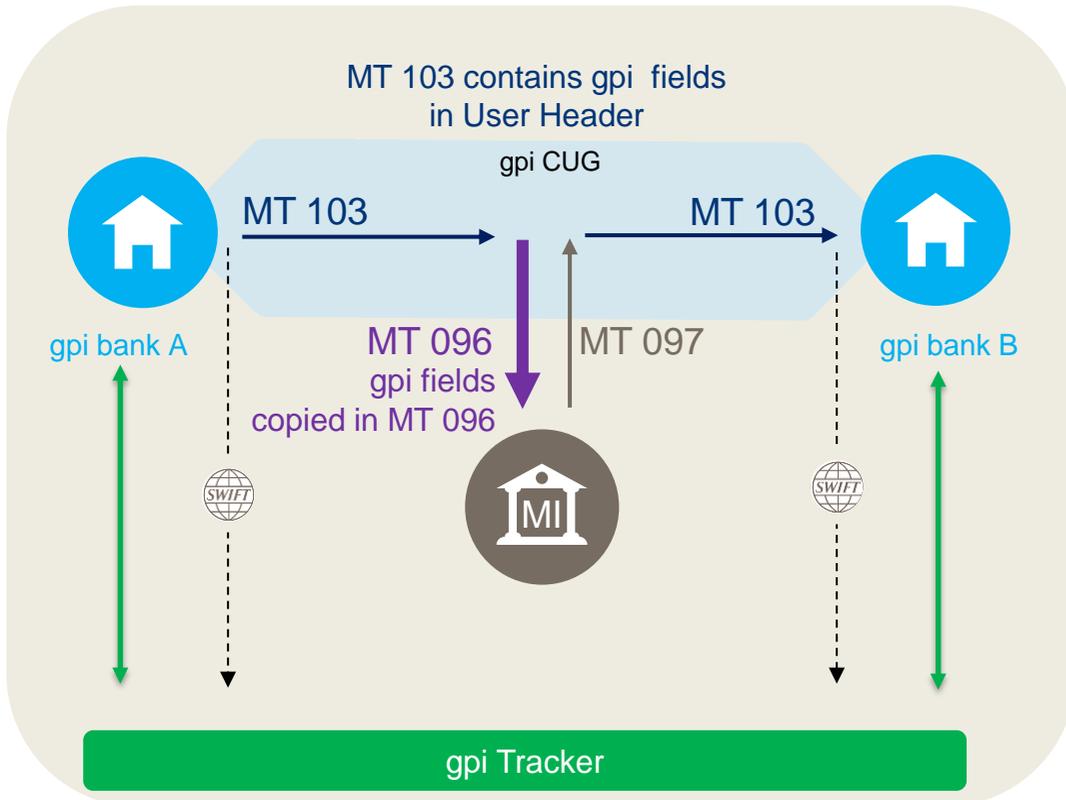
2 - Introduction to the dedicated gpi fields

As of SR 2017

As of SR 2017, SWIFT will copy gpi fields to MIs using SWIFT FINCopy

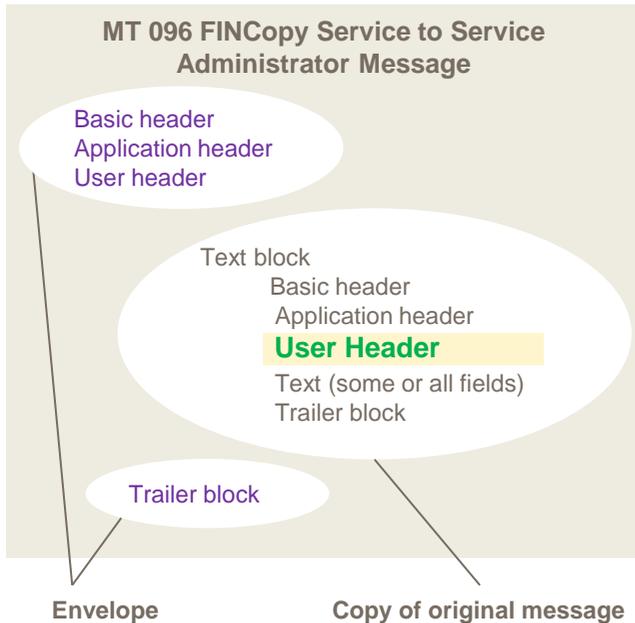


Non-gpi banks and MIs using FIN must be able to **receive** gpi fields in User Header of MT 103.



2 - Introduction to the dedicated gpi fields

Usage in FINCopy and FINInform: MT 096 FINCopy to Server Destination Message



This applies to both **full** and **partial** copy. Partial copy refers to partial copy of the text block (some or all fields) of the underlying copied transaction.

MT 096 example

```
{1:F01BANKGB2LACMR2245224778}
{2: O0961409021011DYLPXXXXXXXXX24442365571409021111S}
{3:{ABC}{108: MUR OF MT 096}
{1:F01SNDRGB22AXXX3461486137}
{2:I103RCVRGB2LAXXX U}
{3:{103:TGT}{108:XY/T44961}{111:001}{121:eb6305c9-1f7f-49de-aed0-16487c27b42d}}
{4:
:20:TRANSFER
:23B:CRED
:32A:140902GBP150000,00
:33B:STG150000,00
:50K:/122267890
BIODATA LTD
46 GREEN LANE
CAMBORNE
CORNWALL TR14 7EQ
ENGLAND
:59:/50266959
H.F. TRELAWNEY
68 MARK LANE
LONDON EC2
ENGLAND
:71A:SHA
-}
{5:
{CHK:81EC89D79E80}}
{5:{CHK:CHECKSUM OF MT 096}{SYS:SYSTEM TRAILER OF MT 096}}
```

Header blocks MT 096

New fields

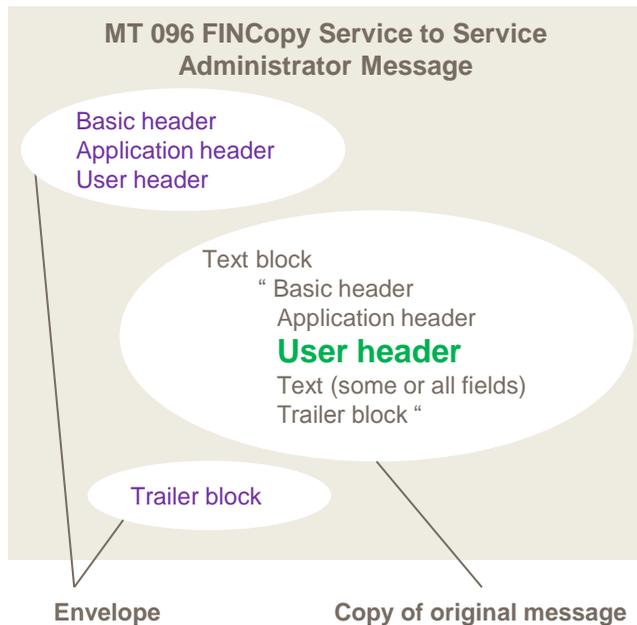
FINCopy service code

Trailer blocks MT 096

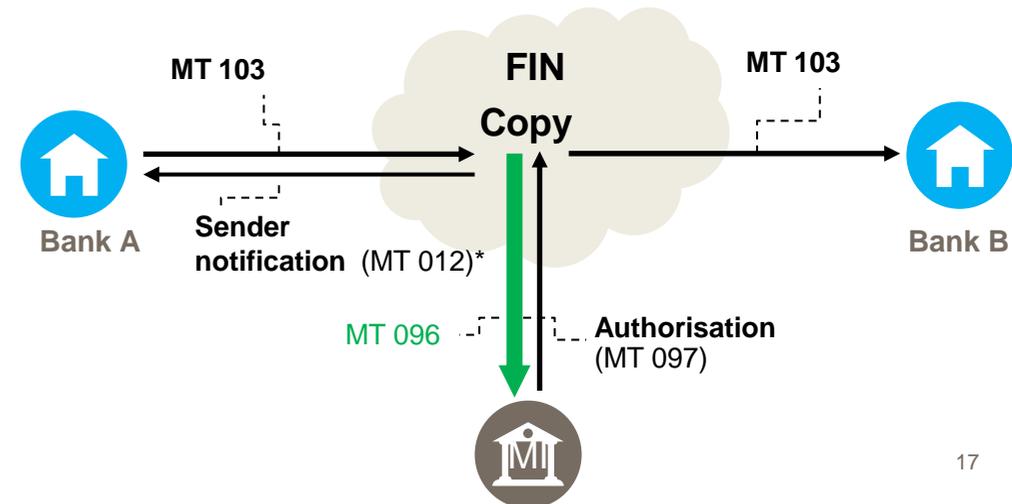


2 - Introduction to the dedicated gpi fields

Usage in FINCopy and FINInform: **MT 096** FINCopy to Server Destination Message

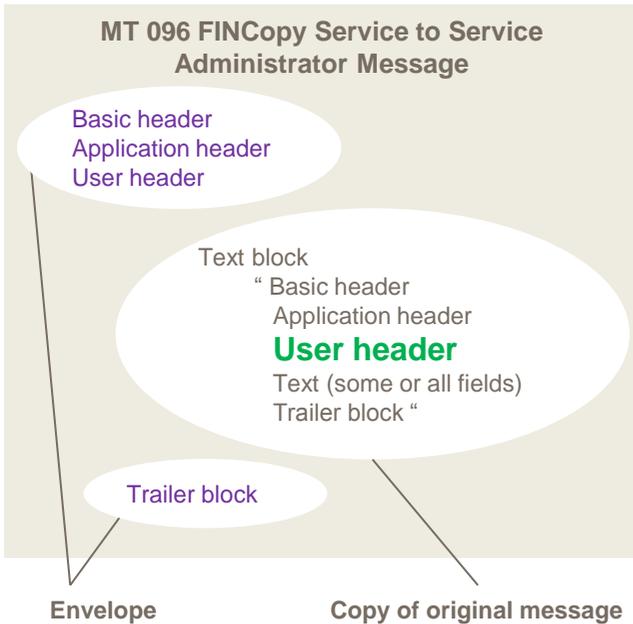


- Advance Information of the [FIN System Messages](#): block 4 of the MT 096 will contain the copied message as originally sent including all the fields from the user header in block 3. If present in the original message, this includes fields 111 <service-type-identifier> and 121 <unique-end-to-end-transaction-reference>.
- The Advance information of the [FIN Operations Guide](#) specifies the exact format of the elements in the User Header
- No impact on other FINCopy features or FINCopy system messages
- This applies to Y-Copy mode and T-Copy mode
- It also applies to FINInform (which uses MT 096)

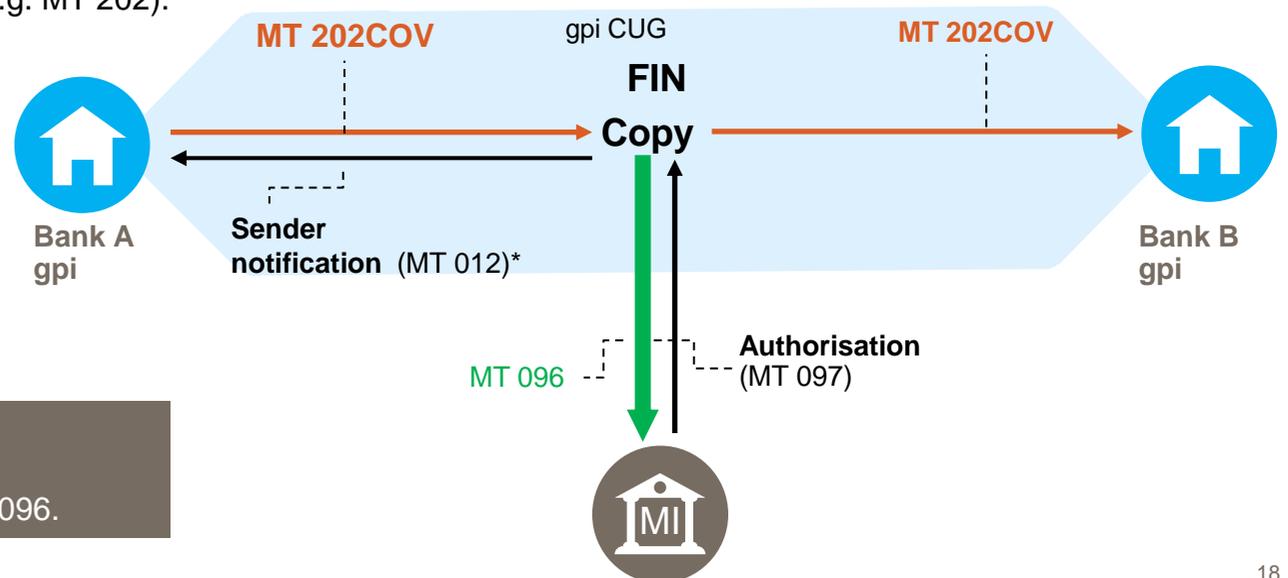


2 - Introduction to the dedicated gpi fields

Usage in FINCopy and FINInform: **MT 096** > can include gpi fields used in MT 202COV and potentially other messages in the future



- gpi banks may already start exchanging **MT 202 COV** messages with gpi fields in the header **in the gpi CUG**.
 - As they are exchanged in the gpi CUG, the implementation timing for this type of exchange can fall outside of the Standards Release process.
- As of SR2017, MIs should also be able to receive the tags included in the User Header of gpi MT 202 COV messages, when these are exchanged by their members over the MI Y-Copy service, as part of the general change request to the MT 096. Other messages may follow (e.g. MT 202).



The MT 096 is 'payment message agnostic', and does not cater for different flavours/versions depending on the MT copied to/embedded in the MT 096.



2 - Introduction to the dedicated gpi fields

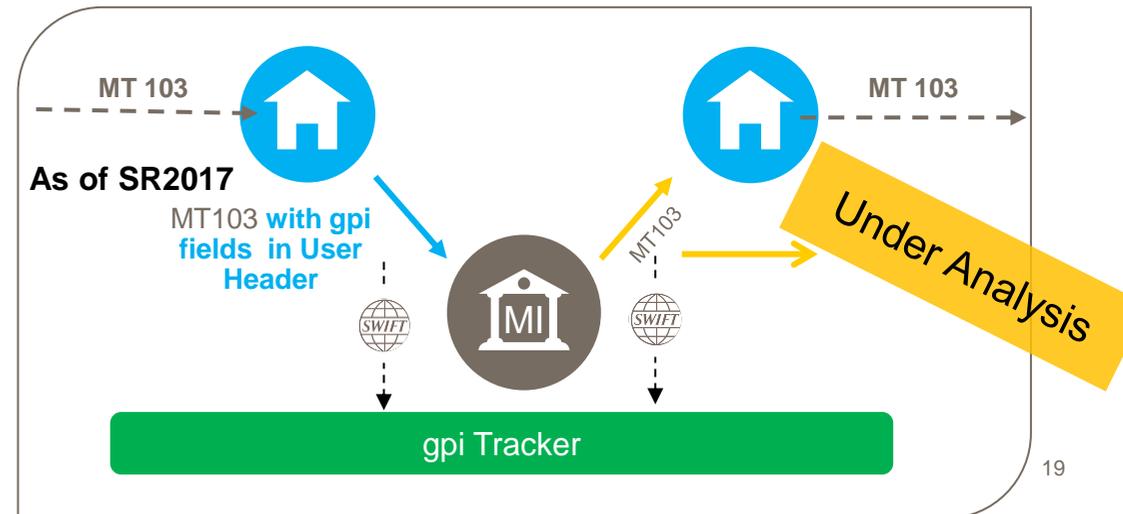
SR2017 for MIs using FIN in so-called V-shape mode

As of SR2017:

- every gpi Bank can send its gpi payments to payment market infrastructures using FIN in so-called 'v-shape' mode.
- These market infrastructures have to be able to receive gpi fields included in the MT 103, like any other 'non-gpi' bank

SWIFT is currently investigating how these Payment Market Infrastructures operating in 'v-shape' could forward the gpi data to both gpi and non-gpi Banks.

If you are a Market Infrastructure using SWIFT in 'v-shape' mode and interested to support gpi payments, please contact us on swiftforBanks@swift.com.



2 - Introduction to the dedicated gpi fields

MIs play key role in the end-to-end gpi payment journey

Market infrastructures support gpi:

1. When based on SWIFT FIN Copy:

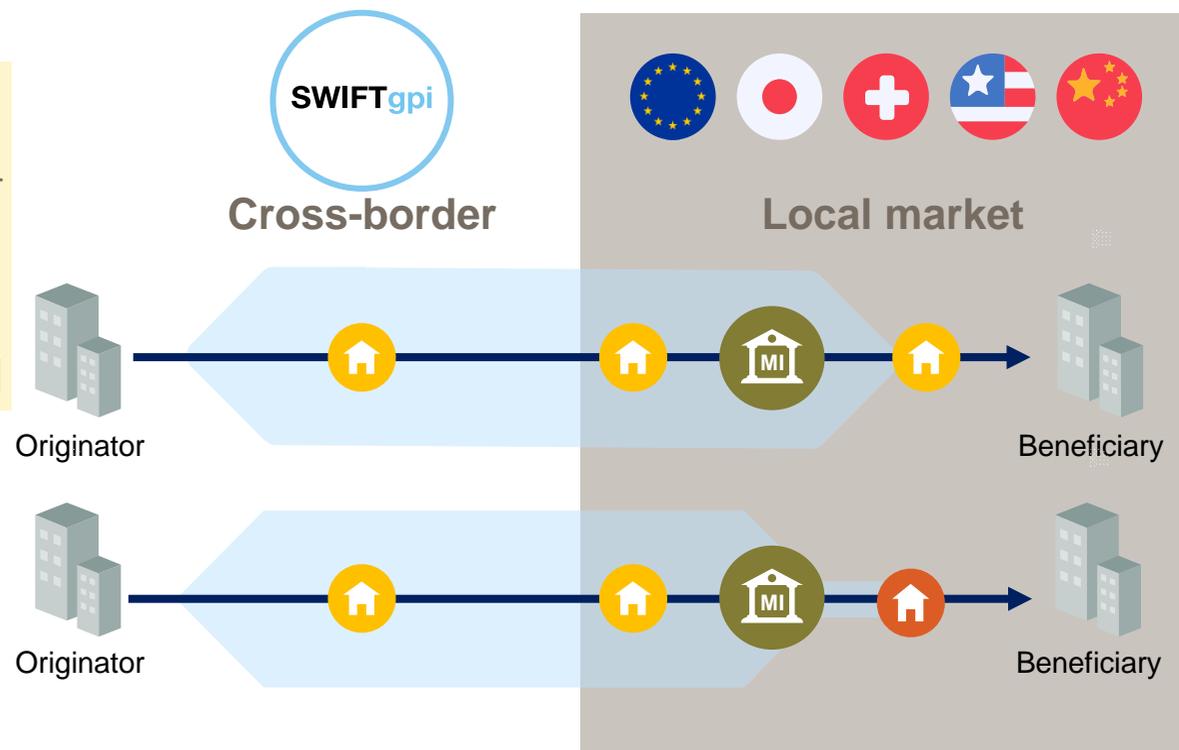
fully supporting gpi:

- ✓ gpi data fields automatically included in credit transfer
- ✓ Support for automatic status updates in the Tracker
- ✓ Common market practice
- ✓ Native integration with gpi

56 MIs (incl. major HVPS in Europe and APAC – T2, Euro1, CHATS...)

2. When not based on SWIFT:

Local market practice for gpi mapping
(to be) agreed with local communities



For new ISO 20022-based High Value Payment Systems (HVPS): ISO 20022 HVPS recommendation for gpi data elements available Q1 2017

When based on SWIFT FIN ('v-shape' e.g. Thailand & Malaysia): will be able to receive gpi fields in MT 103 as of SR 2017



3 - Additional Considerations



3 - Additional Considerations

Testing options

Ms using FINCopy can test the new gpi data elements copied in the MT 096 [as of 23 July 2017](#):

- **Using Local Test Mode to test with SWIFT**
SWIFT will add [MT 096 sample messages](#) which contain the new gpi data to [the tank file](#). You can request these MT 096 messages by sending an MT 073 Message Sample Request.
- **Using Full Function Mode to test with yourself**
To enable Ms to test with themselves, SWIFT can [add the MI test BIC to the test-gpi CUG](#). MI will need to request this through a dedicated [form](#). This enables you to benefit from your full Test and Training environment to send test MT 103s with the new gpi data elements and your service identifier in the User Header between your test-and training destinations. The new gpi data elements will then be included in the MT 096 copied to your FINCopy Test and Training destination, allowing you to simulate testing with your service participants.
- **Using Full Function Mode to test with your members**
If feasible, you could set up [tests with a number of your service participants](#). Please contact swiftforbanks@swift.com for additional information.



3 - Additional Considerations

Where to find more information

- [Standards MT Release 2017 timeline](#)

- [Standards MT Release Guide 2017:](#)
 - Standards Release Guide
 - FIN System Messages Advance Information
 - FIN Operations Guide Advance Information
 - Extended Use of SWIFT gpi Fields 111 and 121

Note: Relevant FINCopy and FINInform volumes of UHB will be updated as per normal procedure in July 2017.

- SWIFT gpi:
www.swift.com/gpi

Additional webinars to learn more about SWIFT gpi and how it can enhance your customers' cross-border payments' experience

- **7 March**, 9am CET - 4pm SGT (45 min.):
[SWIFT gpi for Banks](#)
- **9 March**, 4pm CET - 10am EST (45 min.):
[SWIFT gpi for Banks](#)

To receive more information on the benefits of joining gpi directly, please contact us on swiftforbanks@swift.com or visit www.swift.com/gpi.

Annexes



SWIFT gpi: an introduction

gpi cross-border payment experience and business rules – high level overview

Customer experience

gpi business rules

Faster – start with same day

value (within the timezone of the gpi member)

- **same day value credit to beneficiary (in beneficiary's time zone)**

More efficient and more clarity on fees

- OUR
 - **full original amount is credited** to beneficiary's account and
 - correspondent banking charges can be sent along with payment to avoid charges claims.
- SHA or BEN
 - **transparency of transferred amount and deducts** to originator
 - provided in confirmation, with details to instructing and instructed gpi agents and totals to intermediary gpi agents
- Transparency about FX in some cases

End-to-end payments tracking

- **Confirmation of credit to beneficiary's account**, to beneficiary and to originator
- End-to-end tracking in real time, using the payment and confirmation
- **Unique End-to-end transaction reference (assigned by first gpi bank in the chain)**

Remittance information transferred unaltered

- Deliver up to 140 characters remittance information, **without alteration**





www.swift.com/gpi

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