



ISO 20022 Messaging Solutions

Collateral Management

January 16th 2018 - Fifth meeting of the AMI-SeCo HSG's Collateral Management Harmonisation Task Force (CMH-TF)

ISO 20022 and ISO 15022 Collateral Management offering

What is available...

- Current offering consists of two suite of messages, addressing both “bilateral” & “triparty” message standardisation requirements.
 - *Bilateral Collateral Management* messages are based on ISO 20022 development methodology covering x-asset & x-segment, life cycle activity
 - *Clearing* (ISO 20022) a few ISO 15022 MTs not used, background
 - *Triparty Collateral Management* messages are based on ISO 15022 Standards & in use for more than 10 years, globally.

Collateral Management

Processes

Upstream

- *Margining*
- *Eligibility*

Downstream

- *Settlement*
- *Reporting*
- *Reconciliation*

Messaging solutions

Bilateral Collateral Management

- *ISO 20022*
- *MX Messaging*

Tri-Party Collateral Management

- *ISO 15022*
- *MT Messaging*

Settlement and Reconciliation

- *ISO 15022 / 20022*
- *MT / MX Messaging*
- *Status linked reporting*
- *Asset movement*

Coverage

*Multi asset class
Business line agnostic
Fully STP*

*CCP – Cleared flow
Clearing member
Buy side*

*Interoperable
Standardised*

*Bilateral (I) CSD flow
CSD (I)CSD flow*

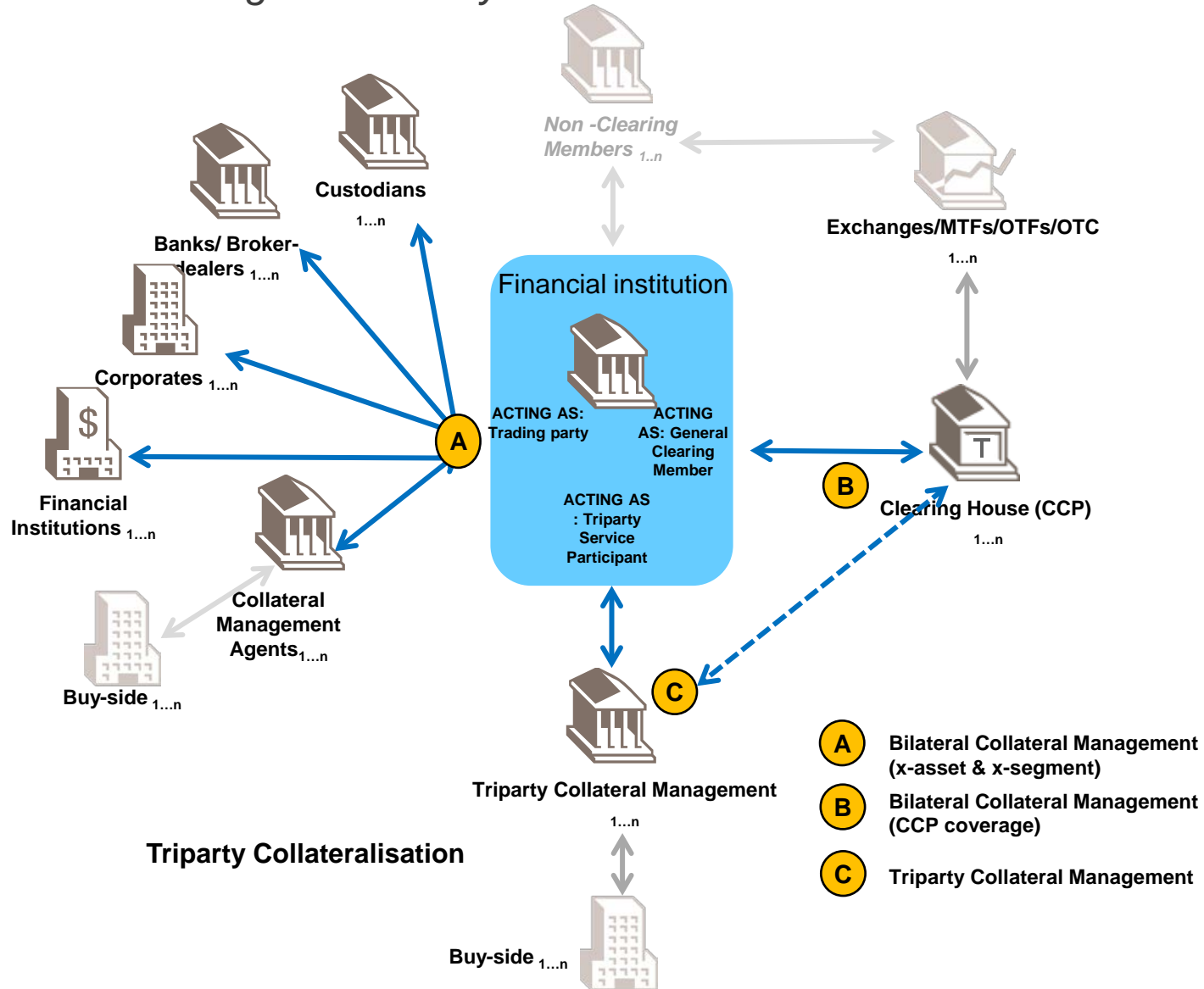
*Securities messages
Cat 5
Equities / FI*

*Payment messages
Cat 1,2
Statements Cat 5, 9*



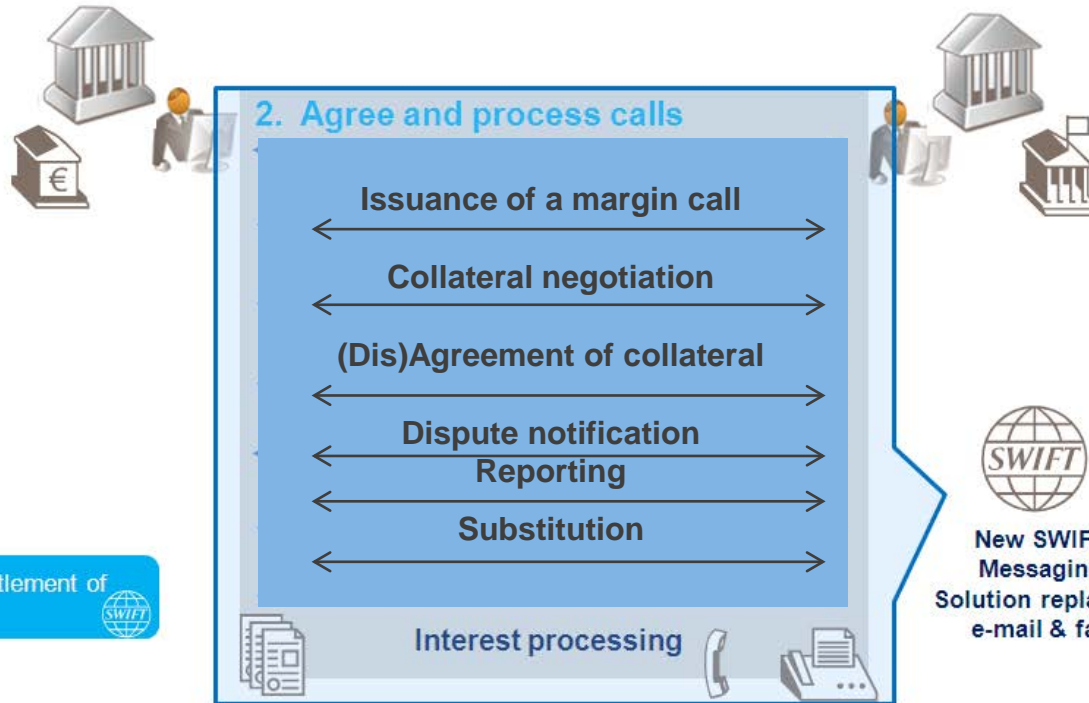
Positioning of current ISO 20022 and ISO 15022 messaging offering *Upstream Business Models...*

Collateral management ecosystem



Bilateral Collateral Management Solution

1. Data capture and margin call calculation (in-house flows)



- Provides an end to end electronic messaging solution around collateral processes

- Cross asset & cross segment solution, complementary with downstream settlement processes

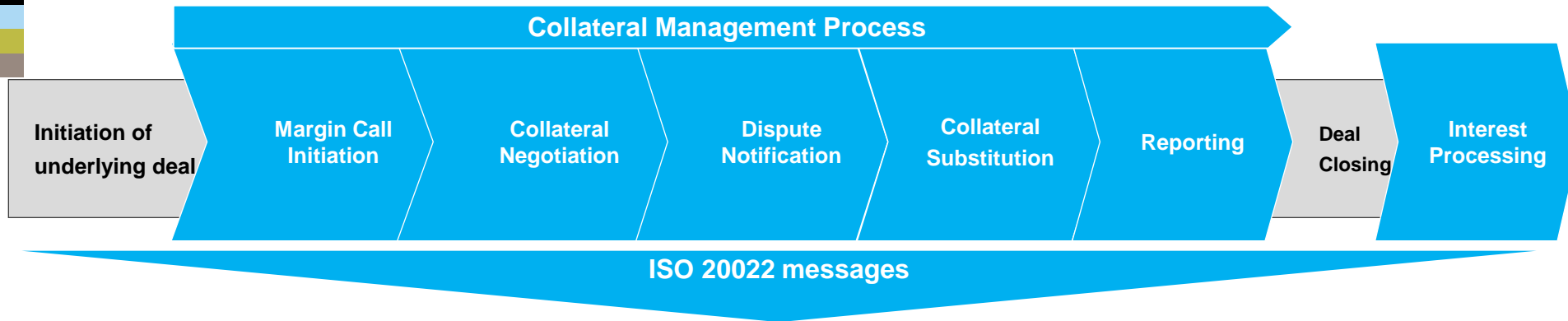


New SWIFT Messaging Solution replacing e-mail & fax

- Enables monitoring & mobilisation of collateral in the business chain
- Development based on ISO 20022 methodology

- Complementary to Clearing solution, addressing the communication needs of CCP to GCM/ICM and NCMs

Bilateral Collateral Management Messaging Solution

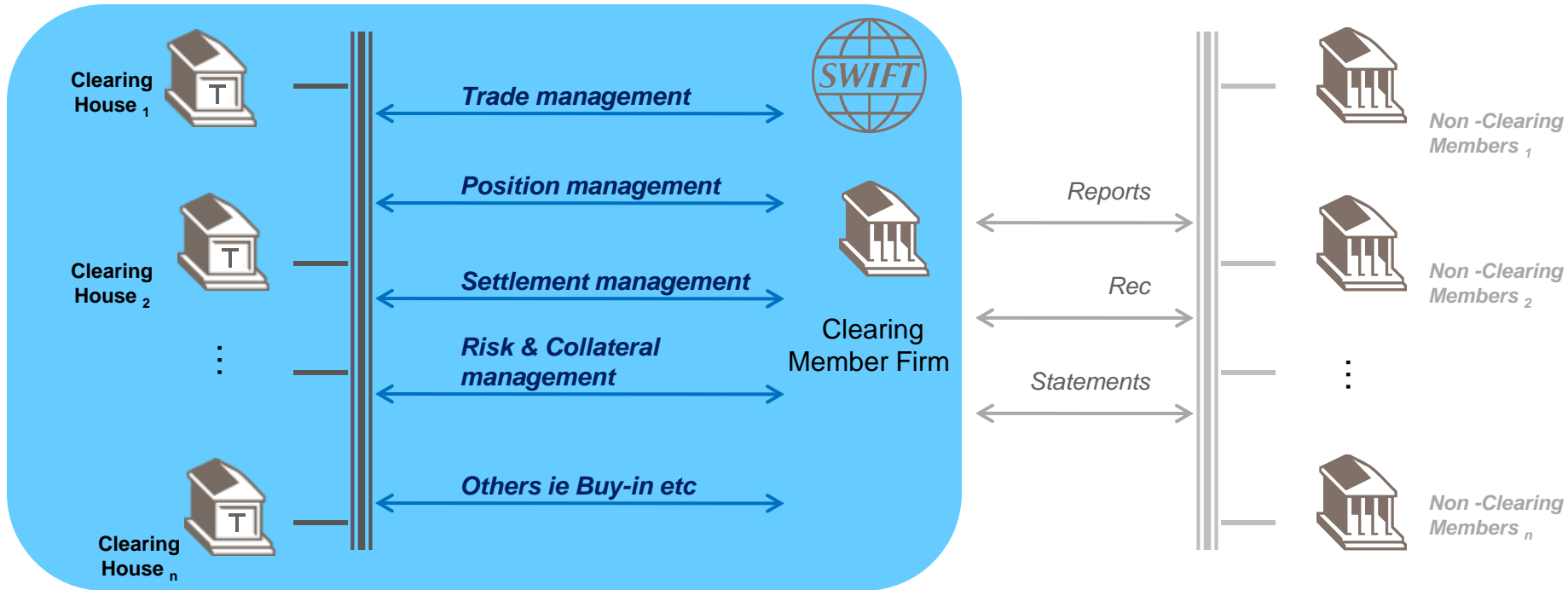


Margin Call	Collateral Proposal	Dispute	Substitution	Reconciliation	Interest Processing
<ul style="list-style-type: none"> ▪ Margin Call Request (colr.003) ▪ Margin Call Response (colr.004) 	<ul style="list-style-type: none"> ▪ Collateral Proposal (colr.007) ▪ Collateral Proposal Response (colr.008) 	<ul style="list-style-type: none"> ▪ Margin Call Dispute Notification (colr.009) 	<ul style="list-style-type: none"> ▪ Collateral Substitution Request (colr.10) ▪ Collateral Substitution Response (colr.011) ▪ Collateral Substitution Confirmation (colr.012) 	<ul style="list-style-type: none"> ▪ Collateral Exposure Report (colr.016) 	<ul style="list-style-type: none"> ▪ Interest Payment Request (colr.013) ▪ Interest Payment Response (colr.014) ▪ Interest Payment Statement (cole.015)

Generic messages : Collateral Management Cancellation Request, Collateral Management Cancellation Status

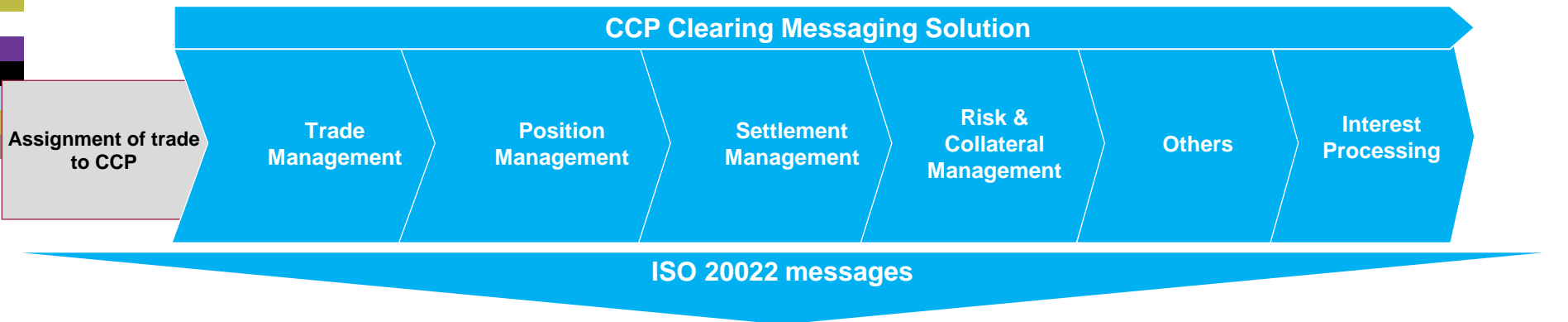


CCP Clearing Messaging Solution



- New messaging solution based on ISO 20022 methodology
- Servicing the communication and standardisation requirements of Clearing houses and GCM/ICM/DCM for cash markets (FI & equities)

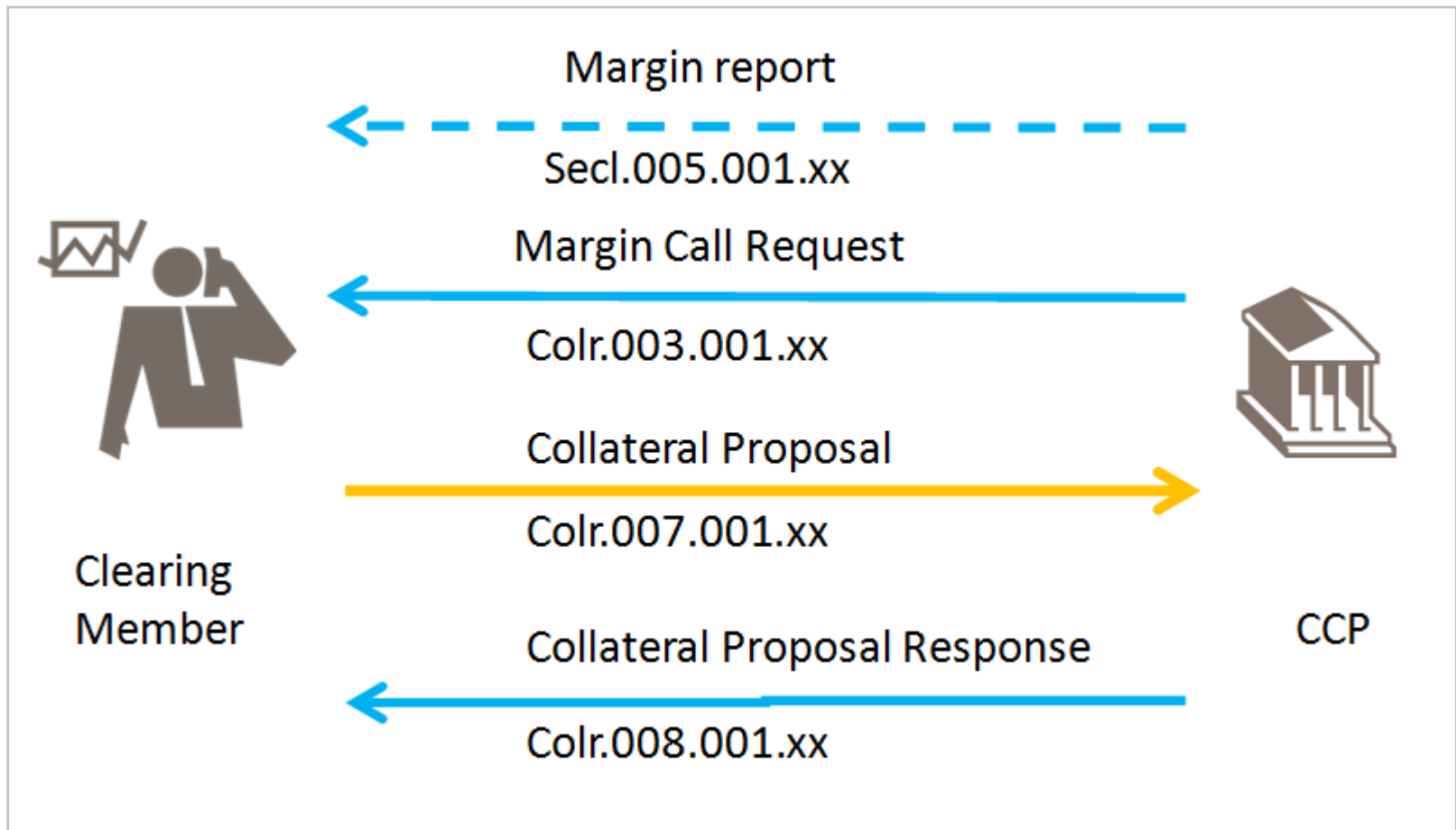
CCP Clearing Messaging Solution



Trade Management	Position Management	Settlement Management	Risk & Collateral Management	Others	Interest Processing
<ul style="list-style-type: none"> Trade Leg Notification (secl.001) Trade Leg Statement (secl.003) Trade Leg Notification Cancellation (secl.002) 	<ul style="list-style-type: none"> Net Position (secl.004) Margin Report (secl.005) Margin Call Request (colr.003) Margin Call Response (colr.004) Margin Call Dispute Notification (colr.009) 	<ul style="list-style-type: none"> Settlement Obligation Report (secl.010) Securities Transaction Pending Report (semt.018) Bank To Customer Account Report (camt.052) Bank To Customer Statement (camt.053) 	<ul style="list-style-type: none"> Collateral Proposal (colr.007) Collateral Proposal Response (colr.008) Collateral Substitution Request (colr.010) Collateral Substitution Response (colr.011) Collateral Substitution Confirmation (colr.012) Collateral Management Cancellation Request (colr.005) Collateral Management 	<ul style="list-style-type: none"> Default Fund Contribution Report (secl.006) Buy-in Notification (secl.007) Buy-in Response (secl.008) Buy-in Confirmation (secl.009) 	<ul style="list-style-type: none"> Interest Payment Request (colr.013) Interest Payment Response (colr.014) Interest Payment Statement (colr.015)

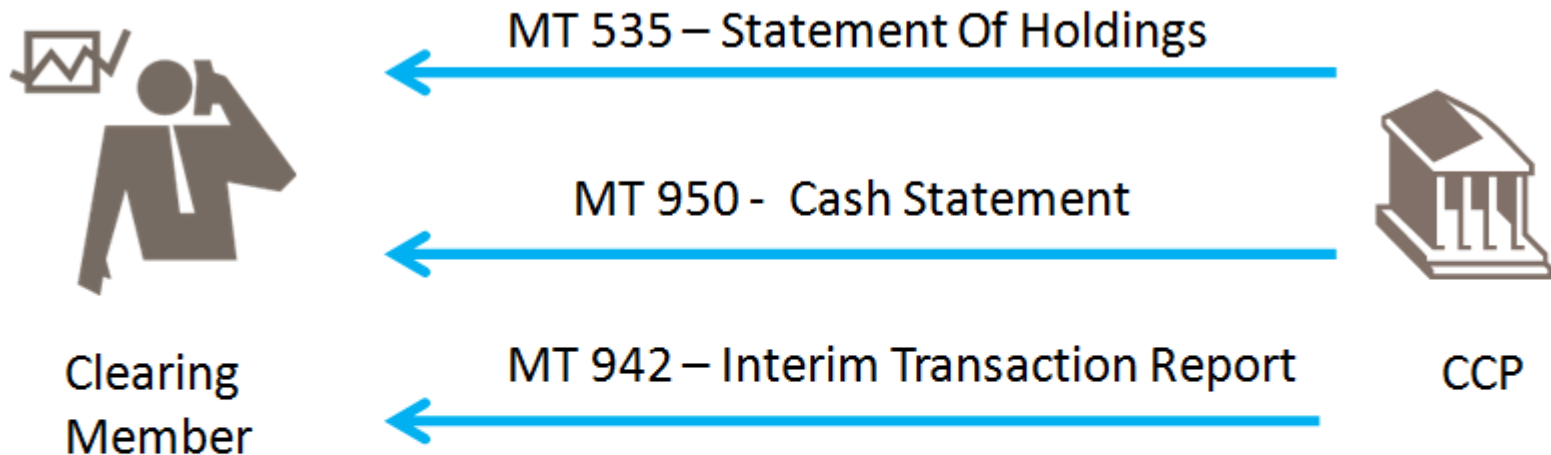
Most used messages on the SWIFT Network

Automated Margining and Substitution – Using ISO 20022 Colr. and Secl. series messages



Most used messages on the SWIFT Network

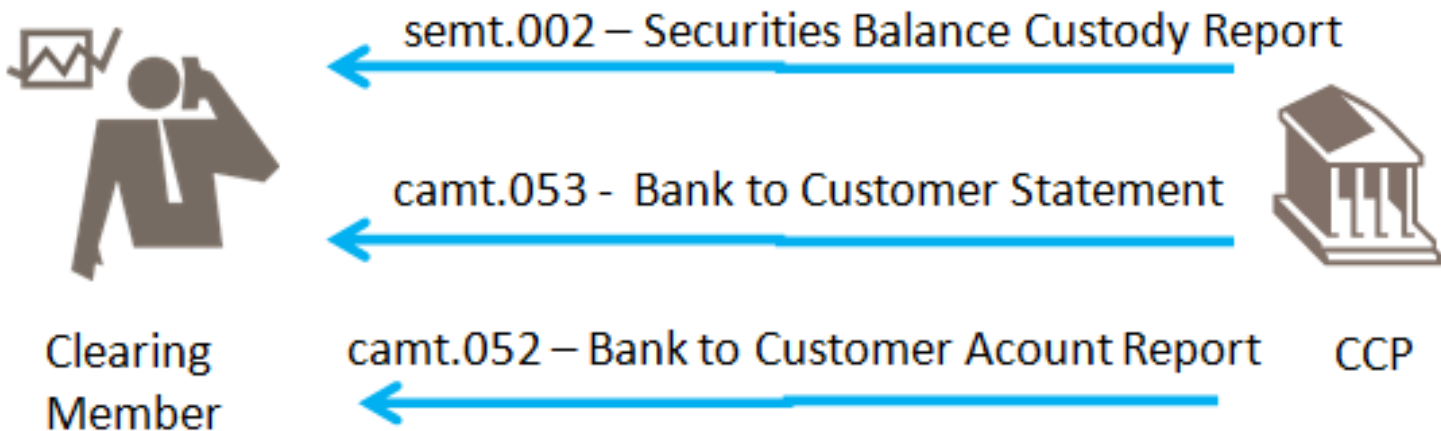
Automated Reporting – Using ISO 15022 Settlement and Reconciliation messages



Option 1:

- Use of existing – *MT 15022 messages*
- EOD / Intraday Cash and Securities Report
- Quantity and Identification of financial instrument

Automated Reporting – Using commonly used ISO 20022 Settlement and Reconciliation messages



Option 1:

- Use ISO 20022 semt and camt messages
- EOD / Intraday Cash and Securities Report
- Quantity and Identification of financial instrument

Automated Reporting – Using ISO 20022 Colr. series messages



Clearing
Member

Collateral And Exposure Report
← Colr.016.001.xx

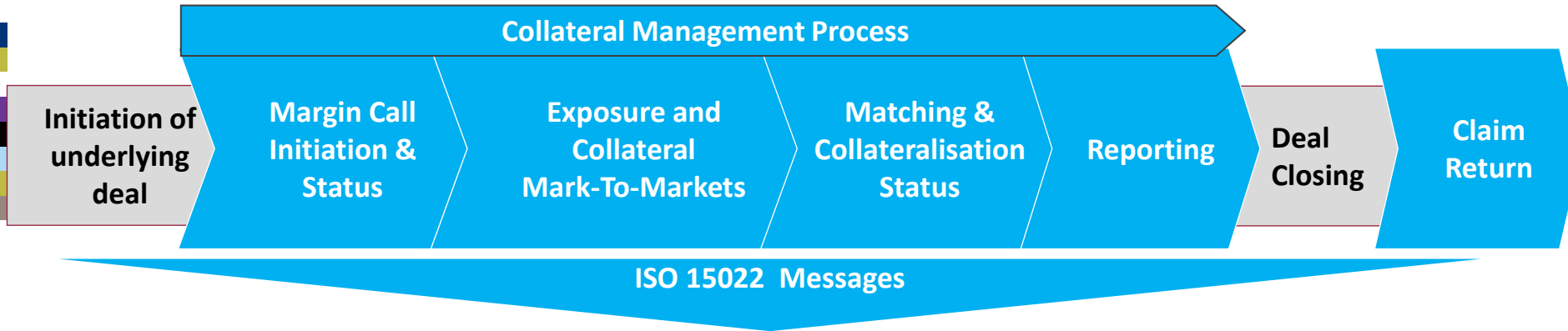


CCP

Option 2:

- Comprehensive detailed report:
 - Cash & Stock Valuation
 - EOD / Intraday Reporting
 - Exposure details / valuations
 - Confirmation of Exposure
 - Account Identification
 - Status Update
 - Margin Amounts
 - Accrued interest

Triparty Collateral Management Messaging Solution

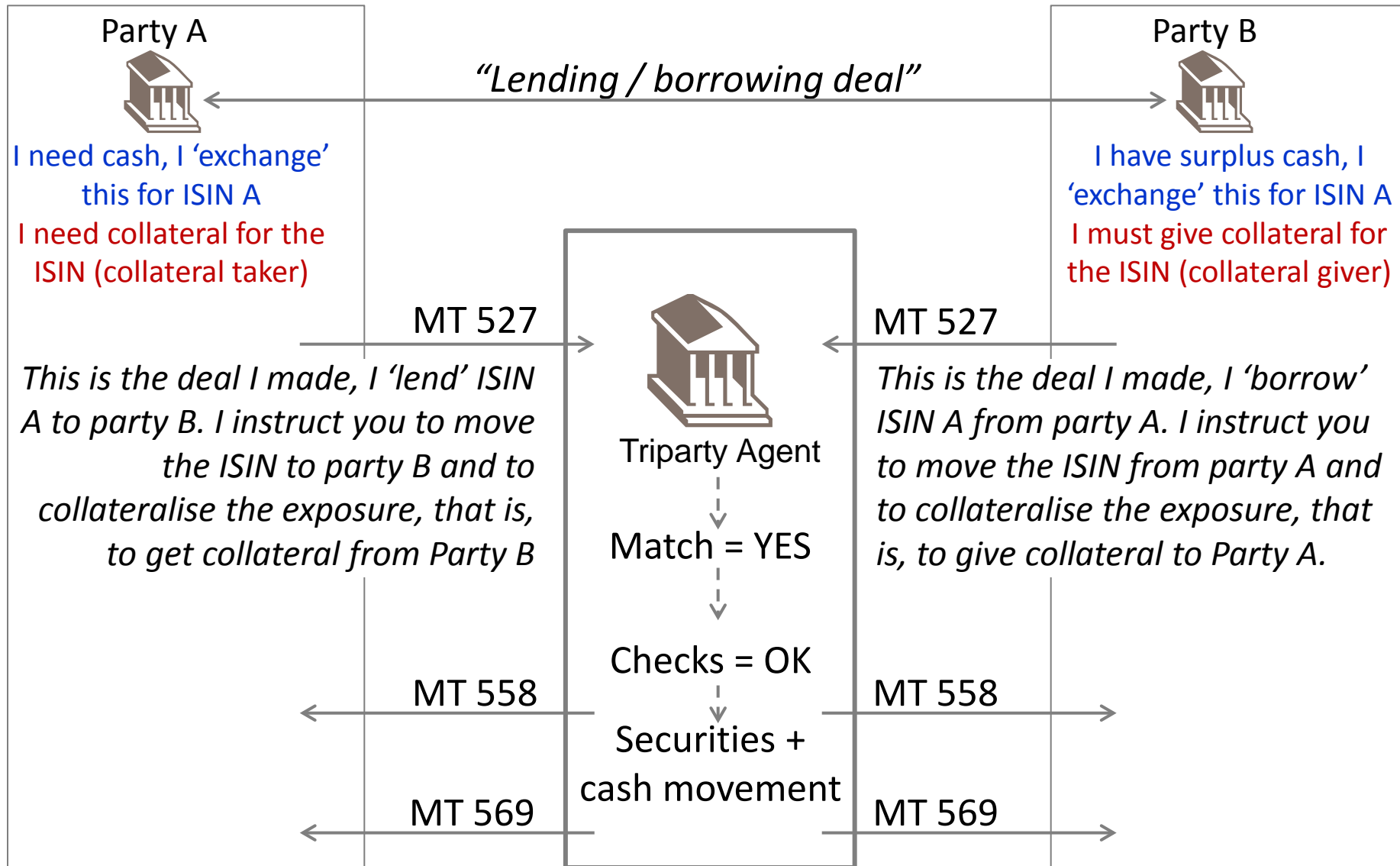


Margin Call & Status	MTM & Collateral Valuation	Status update	Reporting	Claim
<ul style="list-style-type: none"> ▪ MT527 Triparty Collateral Instruction 	<ul style="list-style-type: none"> ▪ MT569 Triparty Collateral and Exposure Statement 	<ul style="list-style-type: none"> ▪ MT558 Triparty Collateral Status Advice 	<ul style="list-style-type: none"> ▪ MT569 Triparty Collateral and Exposure Statement 	<ul style="list-style-type: none"> ▪ MT527 Triparty Collateral Instruction ▪ MT558 Triparty Collateral Status Advice

- Life-cycle of a triparty transaction: from matching to settlement
- Complies with regulatory requirements (US FED)
- Provides real time instruction, status and collateral position reporting
- Implemented by more than 150 institutions globally, facilitates single-window approach through Standards and SWIFT network



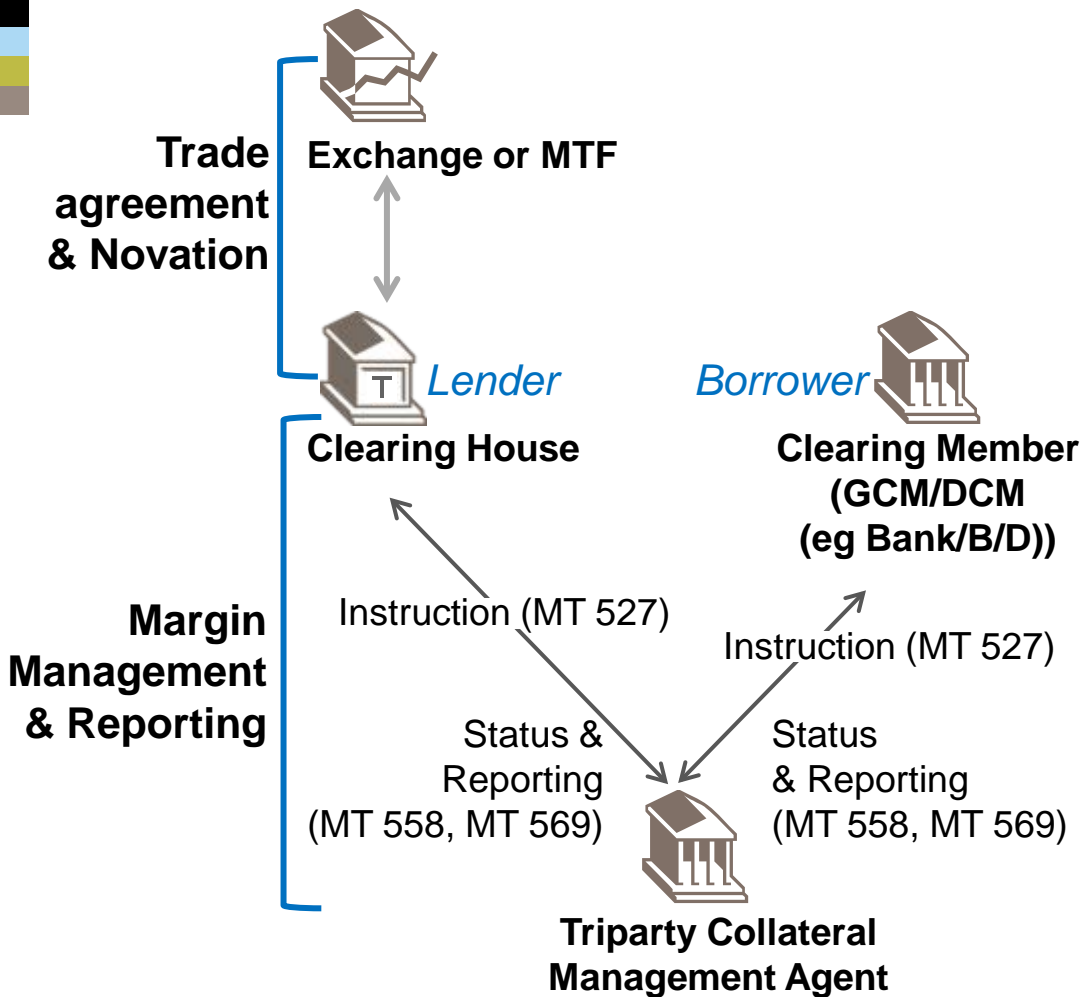
Triparty Collateral – basic scenario



There may be various MT 54x + payment messages to move securities & cash to the appropriate accounts

Triparty Collateral in context of CCP Links

CCPs using triparty agents to handle collateral management operations



- Due to the regulatory push towards CCP Clearing for standardised products, there is an additional demand on high quality collateral
- In order to leverage their security holdings & meet the margining timelines with required quality of collateral, market participants are looking to leverage their triparty collateral management arrangements vis a vis the CCPs.

“Eligibility Haircut Concentration Limit Profile messages” – on hold

Scope: automate the setting up and the management of collateral profile (eligible financial instruments, application of haircuts and concentration limits to address asset volatility and to maintain collateral liquidity. Today process is manual and takes weeks.

Regulatory compliance is driving the need for full automation for collateral portfolio profiles as part of a communication workflow between MI's, Counterparties and Clients

The scope of the project is the design of ISO 20022 messages to cover:

- The initiation/Amendment/Termination of a collateral profile with Eligible securities, Haircuts and Concentration limits
- The communication of a status following the receipt of the above data.
- The communication of a cancellation request following the sending of the above data.
- The communication of a end of day or intraday report following the receipt of the above messages.





ISO 20022 messages creation and maintenance

Process and Timeline

January 16th 2018 - Fifth meeting of the AMI-SeCo HSG's Collateral Management Harmonisation Task Force (CMH-TF)

ISO 20022: The actors (1/2)

Submitting organisations

Communities of users or organisations that want to develop ISO 20022 compliant messages to support their financial transactions

Could be

ANBIMA

ASF

Banco de España

Bank of England

Banque de France

Berlin Group

BIAN

CBI Consortium

CFETS

CFTC

China UnionPay

Clearstream

CLS

Danish Bankers Association

Deutsche Bundesbank

DTCC

Early Warning Services

EPC

ESMA

Euroclear

European Central Bank

FED

FFI

FISD

FPL

FpML

IFX Forum

ISITC

nexo A.I.S.B.L.

OAGi

Omgeo

Payments UK

PBOC

RU-CMPG

SABS

SPRING

SWIFT

Target

TC68/SC7/TG1

Tieto Corporation

TWIST

T2S

UN/CEFACT

etc.

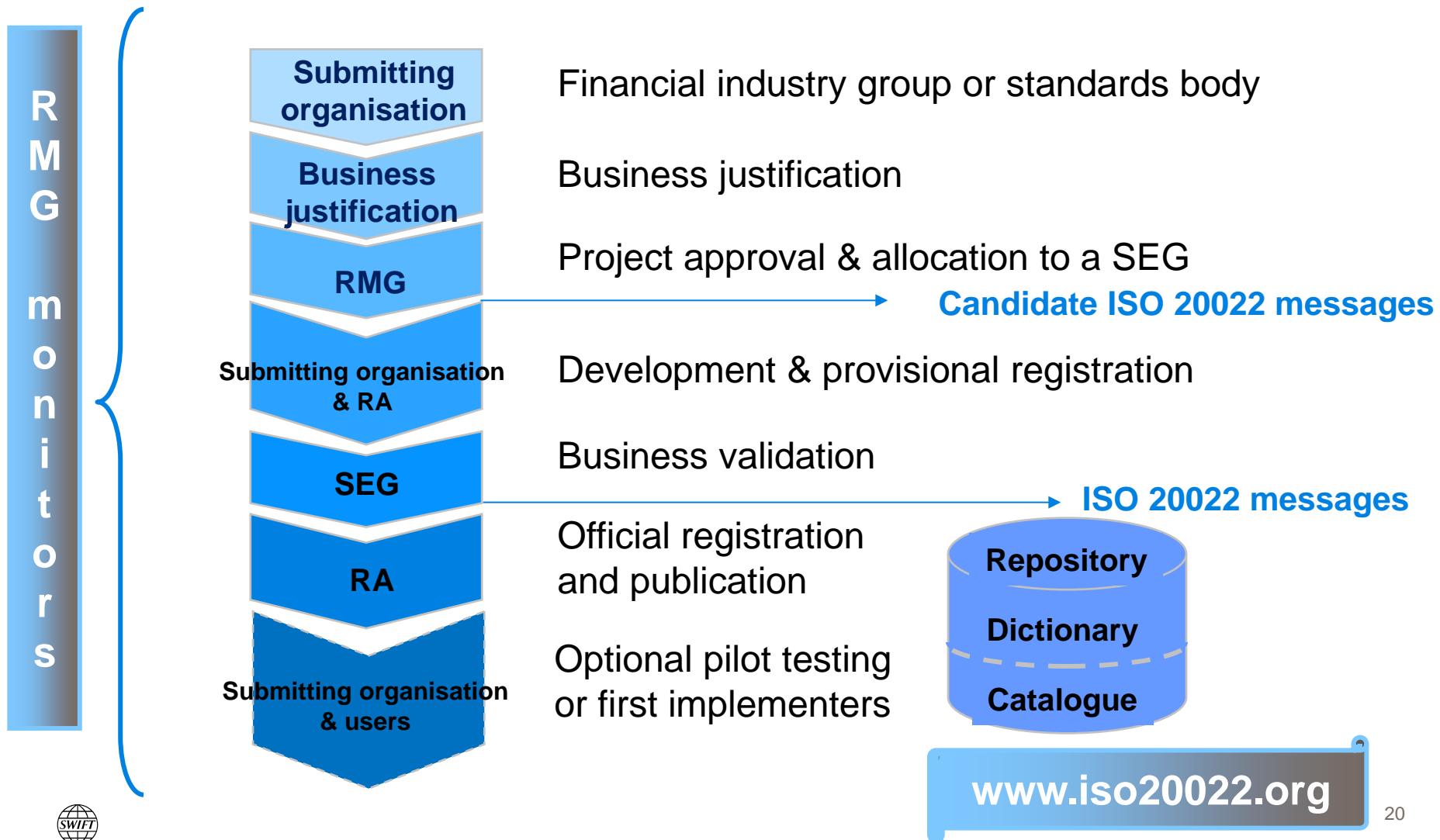


ISO 20022: The actors (2/2)

- **Registration Management Group, RMG**
 - Overall governance, court of appeal
 - Approve business justifications for new message standards
 - Approve new member entities
 - Create Standard Evaluation Groups (SEGs) and SubSEGs
- **Standards Evaluation Groups, SEGs and SubSEGs**
 - Represent future users in specific financial areas
 - Validate new candidate messages and change requests
- **Registration Authority, RA**
 - Ensure compliance
 - Maintain and publish ISO 20022 Repository
- **Technical Support Group, TSG**
 - Assist RMG, SEGs, RA and submitting organisations



ISO 20022 Registration Process



ISO 20022 Registration Process: Yearly Maintenance Process

Timing

By June 1

Users CRs

Users introduce Change Requests to the RA

By July 7

SEG

SEG screens Change Requests (CRs)

By August 21

Submitting organisation

Submitting organisation prepares 'Maintenance Change Request' with each CR implementation

By October 1

SEG

SEG approval/rejection

By December 1

Submitting organisation & RA

Development of new versions

By February 1

SEG

Validation of new versions

April-May

RA

Registration and publication

Submitting organisation & users

First implementers

Repository

Dictionary

Catalogue

