# ISO 20022 Technical Committee Meeting

26 March 2021

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Joining by webinar

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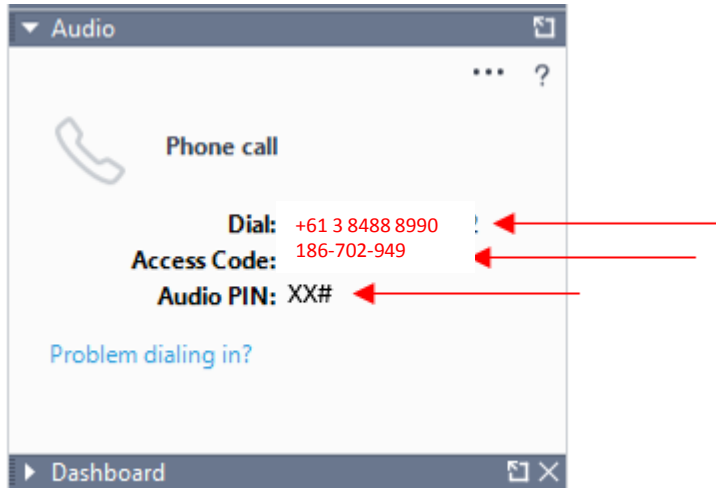
Attendee Participation

To join audio via telephone:
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- You will need the unique 2 digit audio pin to ask questions.

If you are not speaking during the meeting, please mute yourself on your end.

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Important information – Competition Law Policy

Committee members are reminded to have regard to their obligations under competition law. In particular, please note recent changes to the Competition and Consumer Act to prohibit a corporation from engaging with one or more persons in a concerted practice that has the purpose, effect or likely effect of substantially lessening competition.

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Agenda

1. Agenda overview

2. Minutes from last meeting

3. Matters for Consideration: Netting and Settlement redesign

3a   Overview of changes

3b   Update on consultation process (verbal)

3c   ISO 20022 message changes

3d   'To-be' messages for review

4. Closing

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2. Minutes

The ISO 20022 Technical Committee last met on 7 April 2020. Finalised minutes were provided to members and published on [CHESS Replacement web page](#).

There are no open actions.

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3. Matters for consideration – Changes to netting and settlement workflow

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3a Overview of Netting and Settlement changes

- Extreme volume increases in March 2020 requires CHESS replacement to have significantly more throughput capacity and the ability to scale more quickly to even higher throughput capacity post-Day 1

- RBA and ASIC also publicly set out their expectations that CHESS replacement achieve a significant uplift in intraday processing capacity and end-of-day processing performance

- No appetite from the market (AMOs and front offices) for a capacity related event post go-live or for interim constraints on trading activity being imposed

- Lower cost option to make the changes now than in the near term after go-live

- Consultation paper published on 18 February set out the proposed changes including how CHESS will no longer generate individual settlement confirmations for each fully settled instruction, and move to an exception only reporting model

- Market webinar (I&T working group), 23 February, provided an overview of the consultation paper and proposed changes

- Focus groups sessions were held with software providers (2 March), clearing and settlement participants (3 March) and settlement only participants (4 March)

- Feedback on the consultation paper closed 18 March

- The proposed changes result in the removal, enhancement or new ISO messages, hence today's meeting

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3b Update on consultation process

Verbal update

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3c ISO 20022 message changes

Summary of changes

Message Name	Message Id (CDE)	EIS Message Id	Change Type
Netted Obligation Report	sett_102	EIS 134 EIS 138	Removed
Un-netted Obligation Report	sett_103	EIS 136 EIS 140	Removed
Settlement Confirmation	sett_119	EIS 156 EIS 192	Removed
Settlement Transaction Generation Notification	sett_130	EIS 124	Schema Upgrade: • Removed 'Settlement Transaction Condition' Value: 'NBOB' • Added 'Settlement Batch Id'
Settlement Movement Confirmation	sett_136	EIS 146	Schema Upgrade • Added 'Settlement Amount' • Added 'Settlement Batch Id' • Added 'Movement Type'
Adjusted Settlement Instruction	sett_139	EIS 128	Schema Upgrade: • Removed 'Settlement Transaction Condition' Value: 'NBOB' • Added 'Receiving Settlement Account'
Accrual Settlement Instruction	sett_140	EIS 142	Schema Upgrade: Removed 'Settlement Transaction Condition' Value: 'NBOB'
Reporting Request	rptg_601	EIS 503	Schema Upgrade: Added report type value 'SETT'
End Of Report	rptg_607		Schema Upgrade: Added report type values 'SETT' and 'NNDP'
Settlement Statement Report	rptg_608	N/A	New Message
Netted Obligation Report	rptg_609	N/A	New Message

3c ISO 20022 message changes

Netted Obligation Report

The CHESS Replacement system will no longer materialise the Net Broker Obligation as part of the netting process and communicate it to Participants via the Netted Obligation Report (sett_102)

The efficiencies of netting will be carried over to the CHESS Replacement system, Gross Market Trades (excluding crossings) will be eligible for novation and netting and contribute to the Novated Net Delivery Position (NNDP) calculation

As part of overnight processing, the CHESS Replacement system will calculate a projected NNDP for each Account (HIN), Security and Basis of Movement combination and communicate this to Clearing Participants via a new Netted Obligation Report (rptg_609).

The Netted Obligation Report will have the following characteristics:
- Delivered on an unsolicited basis to Clearing Participants
- Contains all projected NNDPs calculated for all future settlement dates
- Incorporate trades created post Trade Date (i.e. As At Trades), trades cancelled post registration and trades with a deferred settlement period
- Contains total number of units, total settlement amount and trade count for each NNDP calculated

3c ISO 20022 message changes

Netted Obligation Report - UML
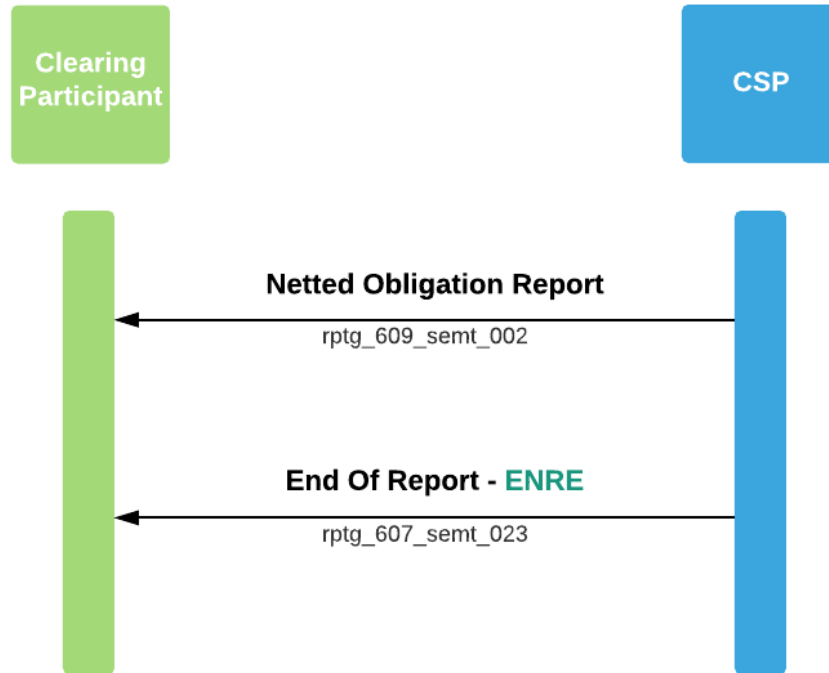
3c ISO 20022 message changes

rptg_609_semt_002 Netted Obligation Report

Lvl	Name	Mult	Type / Code
0	Securities Balance Custody Report V10		
1	Pagination	[1..1]	
1	Statement General Details	[1..1]	
2	Query Reference	[0..1]	text{1,35}
2	Statement Identification	[0..1]	text{1,35}
3	Novated Net Delivery Position		NNDP
1	Safekeeping Account	[1..1]	
1	Balance For Account	[0..*]	
2	Financial Instrument Identification	[1..1]	
2	Aggregate Balance	[1..1]	
3	Short Long Indicator	[1..1]	text
3	Quantity	[1..1]	Choice
2	Account Base Currency Amounts	[0..1]	
3	Holding Value	[0..1]	
4	Amount	[1..1]	0 <= decimal
4	Sign	[1..1]	boolean
2	Holding Additional Details	[0..1]	text{1,350}
2	Supplementary Data	[0..*]	
2	NNDP Report Additional Attributes	[1..1]	
3	Trade Transaction Condition	[0..*]	Choice
4	Proprietary	[1..1]	
5	Identification	[1..1]	text
3	Number Of Entries	[1..1]	text

Transaction Id (1..1): Transaction Id of the original settlement instruction

Account Id [1..1]:

Beginning of the repeating group (1..*]

Security [1..1]:

Unit Quantity [1..1]: Number of units of the Novated Net Delivery Position (NNDP).

Settlement Amount [1..1]: Cash component of the Novated Net Delivery Position (NNDP).

Settlement Date (1..1): Settlement Date of the settlement cycle in which the Novated Net Delivery Position (NNDP) is scheduled to settle.

Basis of Movement [0..3]

Number of Settlement Obligations (1..1): The total number of novated market trades contributing to the Novated Net Delivery Position (NNDP).

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3c ISO 20022 message changes

Batch Settlement - Partial Settlement - overview of changes

Impacted settlement instruction types:

- Bilateral Scheduled Settlement Instructions (BSSI)
- Unilateral Scheduled Settlement Instructions (USSI)
- Novated Rescheduled Instructions (NRI)
    - Where a NRI has fully failed, and is SSP adjusted, the SSP component will be created as a separate settlement instruction, to be settled within the current batch settlement cycle

Settlement instructions can be selected to part fail as a result of:

- unit failure algorithm
- funds failure algorithm
- combination of both

Partially failed instructions are notified via two messages:

- Adjusted Settlement Instruction (sett_139) for the portion of the instruction to be rescheduled to the next batch cycle, carrying the original obligation Id
- Settlement Transaction Generation Notification (sett_130) for the portion settled in the current batch cycle. This will carry a new obligation Id and a reference to the originating obligation Id

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3c ISO 20022 message changes

Partial Settlement - UML
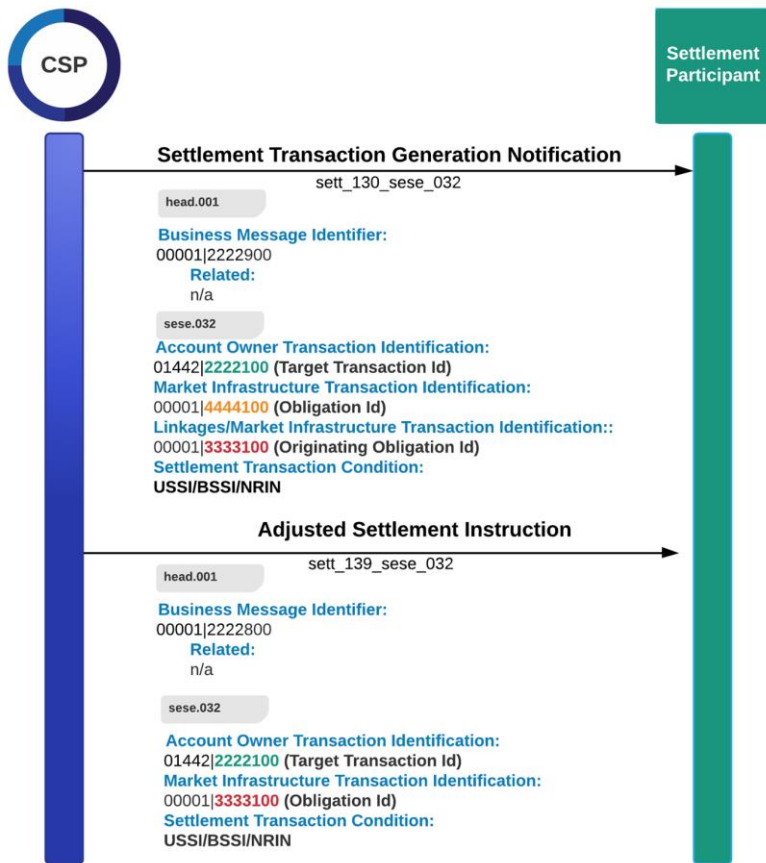
	sett_106 (SI Status Advice)	sett_130 (SI Generation Notification)	sett_139 (Adjusted SI)
Settlement Transaction Condition	USSI/BSSI	USSI/BSSI	USSI/BSSI
Target Transaction Id	01442|2222**2100**	01442|2222**2100**	01442|2222**2100**
Obligation Id	00001|3333**100**	00001|4444100	00001|3333**100**
Originating Obligation Id		00001|3333**100**	
Adjustment Reason		PART	FAIL
Reason			FSUS, FSPS, HLCK, OTAR

* *When the 'Settlement Transaction Condition' is 'NRIN';*
  - *'Target Transaction Id' will be populated as 'NONREF'*
  - *'Transaction Id' (i.e. 'Account Servicer Transaction Id') will be used.*
  This is in line with the current behaviour.

3c ISO 20022 message changes

sett_130_sese_032 Settlement Transaction Generation Notification

Lvl	Name	Mult	Type /	Restr
0	Securities Settlement Transaction Generation Notification			
1	Transaction Identification Details	[1..1]		
2	Account Owner Transaction Identification	[1..1]	text{1,35}	
2	Account Servicer Transaction Identification	[0..1]	text{1,35}	
2	Market Infrastructure Transaction Identification	[0..1]	text{1,35}	
2	Common Identification	[0..1]	text{1,35}	
1	Linkages	[0..*]		[0..2]
2	Reference	[1..1]	Choice	
3	Market Infrastructure Transaction Identification	[1..1]	text{1,35}	
1	Trade Details	[1..1]		
2	Settlement Date	[1..1]	Choice	
3	Date	[1..1]	Choice	
1	Financial Instrument Identification	[1..1]		
1	Quantity And Account Details	[1..*]		[1..1]
2	Settlement Quantity	[1..1]	Choice	
1	Settlement Parameters	[1..1]		
2	Settlement Transaction Condition	[0..*]	Choice	[1..1]
3	Proprietary	[1..1]		
4	Identification	[1..1]	text	T/C
5	Bilateral Settlement Instruction		BSSI	
5	Unilateral Settlement Instruction		USSI	
5	Gross Market Trade		GMTD	
5	Novated Rescheduled Instruction		NRIN	
5	Novated Settlement Failure Instruction		NSFI	
1	Delivering Settlement Parties	[0..1]		[1..1]
1	Receiving Settlement Parties	[0..1]		[1..1]
1	Settlement Amount	[0..1]		
2	Amount	[1..1]	0 <=	T/C
2	Credit Debit Indicator	[1..1]	text	
1	Other Amounts	[0..1]		
1	Status And Reason	[0..1]		[1..1]
2	Settlement Status	[0..1]	Choice	[1..1]
4	Reason	[1..*]		[1..1]
5	Code	[1..1]	Choice	

Transaction Id (1..1): Transaction Id of the original settlement instruction

Obligation Id (1..1): Unique system generated identifier

Settlement Batch Id (0..1) *[New]*: unique identifier for the current batch settlement cycle

Originating Obligation Id (0..1) *[Repurposed]*Obligation identifier of the original settlement instruction where the reason is [PART]

Settlement Date (1..1): Current Settlement Date

Settlement Quantity (1..1): Units settled within the current batch settlement cycle

Settlement Transaction Condition (1..1) *[Updated]*: Settlement transaction condition of the original settlement instruction

Reason (0..1):
- Proprietary code list RescheduleReasonCodes_ASX_1
- Added new reason code: 'PART' [Partial Settlement]

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3c ISO 20022 message changes

sett_139_sese_032 Adjusted Settlement Instruction

Lvl	Name	Mult	Type / Code
0	Securities Settlement Transaction Generation Notification		
1	Transaction Identification Details	[1..1]	
2	Account Owner Transaction Identification	[1..1]	text{1,35}
2	Account Servicer Transaction Identification	[0..1]	text{1,35}
2	Market Infrastructure Transaction Identification	[0..1]	text{1,35}
1	Trade Details	[1..1]	
2	Settlement Date	[1..1]	Choice
1	Financial Instrument Identification	[1..1]	
1	Quantity And Account Details	[1..*]	
2	Settlement Quantity	[1..1]	Choice
2	Safekeeping Account	[1..1]	
1	Settlement Parameters	[1..1]	
2	Settlement Transaction Condition	[0..*]	Choice
5	Bilateral Settlement Instruction		BSSI
5	Unilateral Settlement Instruction		USSI
5	Gross Market Trade		GMTD
5	Novated Rescheduled Instruction		NRIN
1	Delivering Settlement Parties	[0..1]	
1	Receiving Settlement Parties	[0..1]	
2	Party 1	[0..1]	
3	Safekeeping Account	[0..1]	
1	Settlement Amount	[0..1]	
1	Generated Reason	[0..*]	
2	Code	[1..1]	Choice
3	Proprietary	[1..1]	
4	Identification	[1..1]	text
3	Additional Reason Information	[0..1]	text{1,210}
3	Failed Settlement - Unit Shortfall		FSUS
3	Failed Settlement - Payment Shortfall		FSPS
3	Offsetting Transaction Arrangement		OTAR
3	Account Lock Applied		HLCK

Transaction Id (1..1): Transaction Id of the original settlement instruction

Obligation Id (1..1): Obligation Id of the original settlement instruction

New Settlement Date (0..1) [New]: Next Business Date

Unit Quantity (1..1): Unit quantity carried forward to next batch settlement cycle

Settlement Transaction Condition (1..1) *[Updated]*:
- Removed 'NBOB'
- Settlement transaction condition of the original settlement instruction

Receiving Account Identifier (0..1) *[New]*:
Receiving account identifier of the original settlement instruction where the settlement instruction condition is USSI.

Reason (0..1): RescheduleReasonCodes_ASX_1 updated to add following adjustment reason code: 'FAIL'

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3c ISO 20022 message changes

Batch Settlement - Net Settlement Movement - overview of changes

The CHESS Replacement system generates a Net Settlement Movement (sett_136) for each Account (HIN), Security and Basis of Movement combination where there are one or more "settled" obligations.

The Net Settlement Movement (sett_136) is enhanced to incorporate the funds component which is associated to the settlement obligations contributing to the movement.

The following information is included within the Net Settlement Movement:
- Total number of units settled for an Account, Security and Basis of Movement combination
- Count of settlement obligations contributing to this movement, including:
  o Gross Market Trades (which make up the NNDP)
  o Novated Settlement Failures (representing failure of a portion of the NNDP)
  o BSSI, USSI and NRIs (settled in batch settlement, including partial settlement)
  o All settlement obligations, regardless of payment type (free of payment/against payment)
  o Breakdown of counts, units and settlement amounts relating to each type of settlement instruction type

In the event that batch settlement is cancelled, a Net Settlement Movement (sett_136) will be generated for a zero net movement to cater for the Gross Market Trades which have been replaced by the Novated Rescheduled Instruction.

3c ISO 20022 message changes

Movement of units and notifications (batch settlement) - UML
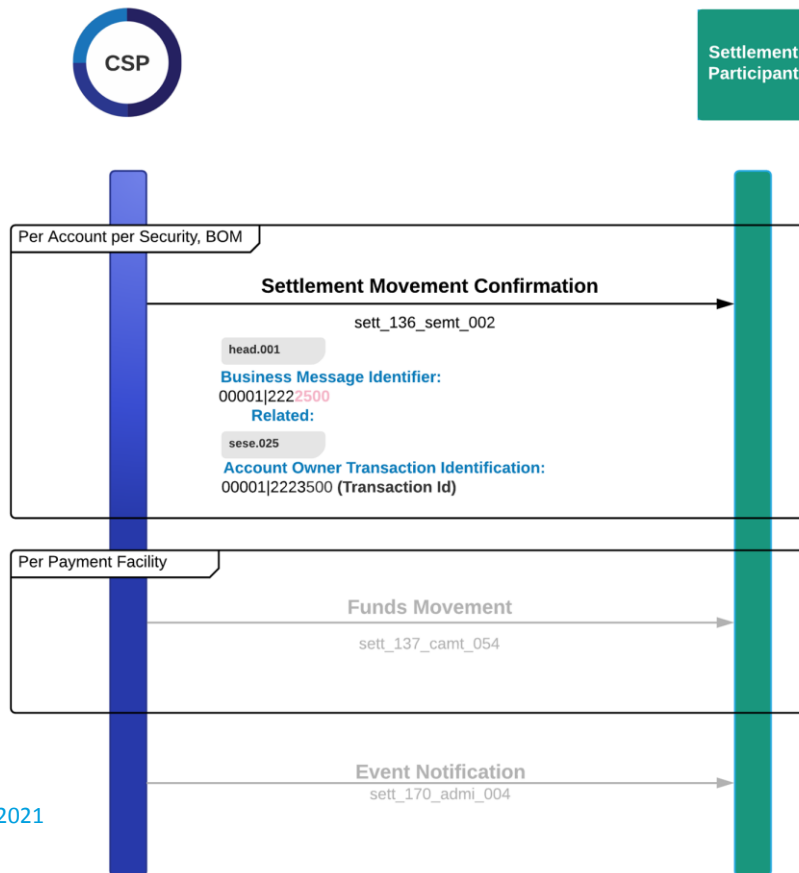
sett_136_semt_002 Settlement Movement Confirmation

L	Name	XML Tag	Mult
0	Securities Balance Custody Report V10	<SctiesBalCtdyRpt>	
1	Statement General Details	<StmtGnlDtls>	[1..1]
2	Query Reference	<QryRef>	[0..1]
2	Statement Identification	<StmtId>	[0..1]
2	Statement Date Time	<StmtDtTm>	[1..1]
1	Safekeeping Account	<SfkpgAcct>	[1..1]
2	Identification	<Id>	[1..1]
1	Balance For Account	<BalForAcct>	[0..*]
2	Financial Instrument Identification	<FinInstrmId>	[1..1]
2	Aggregate Balance	<AggtBal>	[1..1]
3	Short Long Indicator	<ShrtLngInd>	[1..1]
4	Long		
3	Quantity	<Qty>	[1..1]
2	Net Settlement Movement Attributes	<NetSttlmMvmntAttrbt>	[2..6]

Transaction Id (1..1): Unique system generated transaction identifier

Settlement Batch Id (0..1) *[New]***:** unique identifier for the current batch settlement cycle

Account Id (1..1): Account Id for which the confirmation is being sent

Security (1..1): Security (Security Code and ISIN) relating to which the confirmation is being sent

New Holding Balance (1..1): Holding balance for the Account for the Security following the completion of batch settlement

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sett_136_semt_002 Settlement Movement Confirmation (cont.)

Lv	Name	XML Tag	Mult
2	Net Settlement Movement Attributes	<NetSttlmMvmntAttrbt	[2..6]
3	Unit Quantity	<UnitQty>	[1..1]
3	Short Long Indicator	<ShrtLngInd>	[1..1]
3	Trade Transaction Condition	<TradTxCond>	[0..3]
3	Number Of Entries	<NbOfNtries>	[1..1]
3	Movement Type	<MvmtTp>	[1..1]
4	Unilateral Settlement Instruction		
4	Overall Net Movement		
4	Bilateral Settlement Instruction		
4	Novated Settlement Failure Instruction		
4	Novated Rescheduled Instruction		
4	Gross Market Trades		
3	Amount	<Amt>	[0..1]
4	Amount	<Amt>	[1..1]
5	Xml Attribute Currency	<Ccy>	
4	Credit Debit Indicator		[1..1]
5	Credit		
5	Debit		

Unit Quantity (1..1): Total number of units settled for the movement type

Basis Of Movement (0..3): Basis of movement combination for which this confirmation is being sent

Number of settlement obligations (1..1): Total number of settlement instructions settled for the movement type

Movement Type (1..1) *[New]*:
- Overall Net Movement (NETT)
- Gross Market Trade (GMTD)
- Novated Settlement Failure (NSFI)
- Novated Rescheduled Instruction (NRIN)
- Bilateral Scheduled Settlement Instruction (BSSI)
- Unilateral Scheduled Settlement Instruction (USSI)

Settlement Amount (1..1)*[New]***:** The total amount settled for the movement type.

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3c ISO 20022 message changes

Settlement Statement Report - Overview

The CHESS Replacement system will no longer generate a Settlement Confirmation (sett_119, EIS 156) for each settlement instruction

which has fully settled within batch settlement processing.

The Settlement Movement Confirmation (sett_136) can be used by Participants to understand the units which have settled.
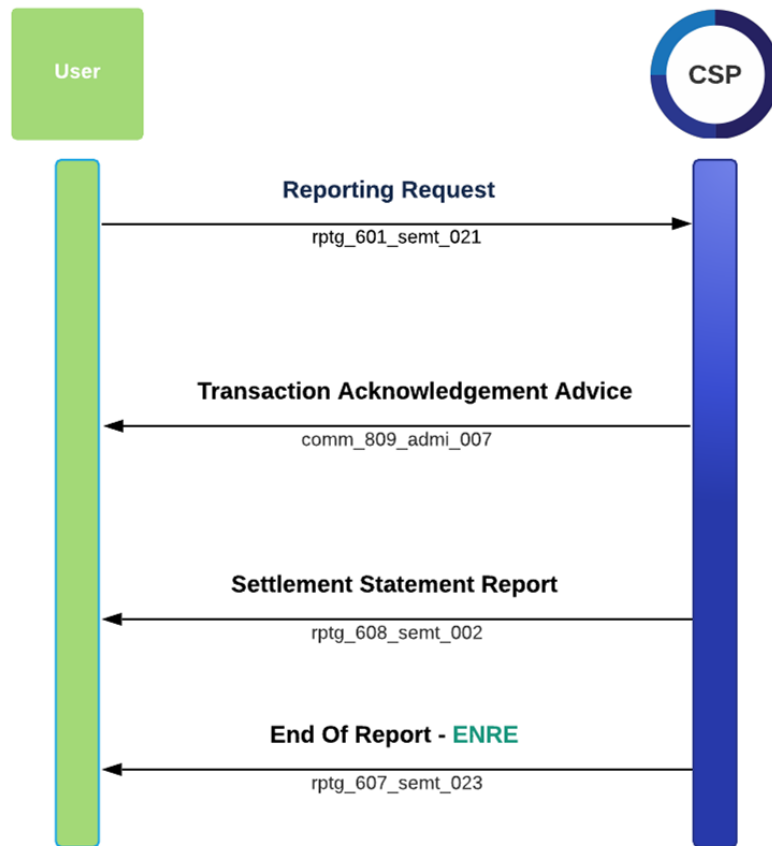
Participants will be able to request a Settlement Statement report to resolve any reconciliation breaks.

The Settlement Statement Report will have the following characteristics:

- Requested by a Participant for a Settlement Date, Account (HIN), Security and Movement Type

- The requested Settlement Date can be the current or previous business dates

- The requested Settlement Date can only be the current business date once batch settlement has completed for that date

- The settlement statement will contain details of all the settled settlement instructions for the criteria requested

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Settlement Statement Report - UML

3c ISO 20022 message changes

rptg_601_semt_021 Reporting Request

Lvl	Name	Mult	Type / Code
0	Securities Statement Query V06 (semt.021.001.06)		
1	Statement Requested	[1..1]	
2	Number	[1..1]	Choice
1	Statement General Details	[0..1]	
2	Statement Date Or Period	[0..1]	Choice
3	Statement Date	[1..1]	Choice
4	Date	[1..1]	date
2	Statement Basis	[0..1]	Choice
5	Unilateral Settlement Instruction		USSI
5	All Obligation Types		ALLT
5	Bilateral Settlement Instruction		BSSI
5	Novated Rescheduled Instruction		NRIN
5	Market Trades and NSFs		MTNF
2	Statement Type	[0..1]	Choice
3	Proprietary	[1..1]	
4	Identification	[1..1]	text
5	Cum Entitlement Balance		CEBL
5	Cum Entitlement Movement		CEMV
5	Holding Balance		HBAL
5	Holding Movement		HMVT
5	Holding Subposition Balance		HSBL
5	Total Cum Entitlement Balance		TCEB
5	Total Security Balance		TSBL
5	Counterparty Funds Balance		CFBL
5	Account Notification		ACNT
5	Settlement Statement Report		SETT
5	Netted Obligation Report		NNDP
1	Safekeeping Account	[1..1]	
2	Identification	[1..1]	text{1,35}
1	Additional Query Parameters	[0..*]	
2	Financial Instrument Identification	[0..*]	
3	ISIN	[0..1]	text
3	Other Identification	[0..*]	

Transaction Id (1..1): Transaction Id of the report request

As-At Date (1..1): Settlement Date

Movement Type *[New]* **(0..1):**
- Type of Settlement Instruction the report is requested for

Report Type (1..1):
- Type of report requested.
- New value 'SETT' introduced for 'Settlement Statement Report'.

Account Id (1..1): Account Id for which the report is being requested.

Security (1..1): Security (Security Code and ISIN) for which the report is being requested.

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3c ISO 20022 message changes

rptg_608_semt_017 Settlement Statement Report

Lvl	Name	Mult	Type / Code
0	Securities Transaction Posting Report V07		
1	Pagination	[1..1]	
1	Statement General Details	[1..1]	
2	Query Reference	[0..1]	text{1,35}
2	Statement Identification	[0..1]	text{1,35}
3	Settlment Statement Report		SETT
2	Statement Period	[1..1]	Choice
3	From Date To Date	[1..1]	
4	From Date	[1..1]	date
4	To Date	[1..1]	date
2	Frequency	[0..1]	Choice
4	Adhoc		ADHO
2	Statement Basis	[1..1]	Choice
3	Code	[1..1]	text
4	Settled		SETT
1	Safekeeping Account	[1..1]	
1	Financial Instrument Details	[0..*]	
2	Transaction	[1..*]	
3	Account Owner Transaction Identification	[1..1]	text{1,35}
3	Account Servicer Transaction Identification	[0..1]	text{1,35}
3	Market Infrastructure Transaction Identification	[0..1]	text{1,35}
3	Trade Identification	[0..*]	text{1,35}
3	Common Identification	[0..1]	text{1,35}
3	Transaction Details	[0..1]	
4	Transaction Activity	[1..1]	Choice
5	Code	[1..1]	text
6	Settlementand Clearing Activity		SETT

Transaction Id (1..1): Transaction Id of the report request

Account Id (1..1): Account Id for which the report is being requested.

Security (1..1): Security (Security Code and ISIN) for which the report is being requested.

Beginning of the repeating group (1..*]

Transaction Id [1..1]
•Transaction Id of related sett_105 or NONREF
•Transaction Id of related sett_101 or sett_130

Market Infra Transaction Id [1..1]: Obligation Id

Basis of Movement 1, 2, and 3 [0..3]: Basis of movement combination for the settlement instruction

Originating Obligation Id [0..1]: obligation identifier of the original settlement instruction

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rptg_608_semt_017 Settlement Statement Report (continued…)

Level	Element	Mult.	Type
4	Securities Movement Type	[1..1]	text
5	Delivery		DELI
5	Receive		RECE
4	Payment	[1..1]	text
5	Separate Settlement		FREE
5	Against Payment Settlement		APMT
4	Settlement Parameters	[0..1]	
5	Settlement Transaction Condition	[0..*]	Choice
6	Proprietary	[1..1]	
7	Identification	[1..1]	text
8	Bilateral Settlement Instruction		BSSI
8	Unilateral Settlement Instruction		USSI
8	Gross Market Trade		GMTD
8	Novated Rescheduled Instruction		NRIN
8	Novated Settlement Failure		NSFI
4	Posting Quantity	[1..1]	Choice
5	Quantity	[1..1]	Choice
4	Posting Amount	[0..1]	
5	Amount	[1..1]	0 <= decimal
5	Credit Debit	[1..1]	text
4	Effective Settlement Date	[1..1]	Choice
5	Date	[1..1]	date
4	Transaction Additional Details	[0..1]	text{1,350}

Securities Movement Type[1..1]: DELI or RECE

Payment (1..1): APMT or FREE

Settlement Transaction Condition [1..1]: Transaction Type for settlement Instruction being reported.

Unit Quantity [1..1]: Number of units settled for the settlement Instruction being reported.

Settlement Amount [1..1]: Settlement Amount of the settlement Instruction being reported.

Settlement Date [1..1]: Settlement Date of the settlement Instruction being reported.

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3d 'To-be' messages for review

To-be Messages	Collections
sett_130_sese_032	ASX_AU_CHS_draft_sett
sett_136_semt_002	ASX_AU_CHS_draft_sett
sett_139_sese_032	ASX_AU_CHS_draft_sett
sett_140_sese_032	ASX_AU_CHS_draft_sett
rptg_601_semt_021	ASX_AU_CHS_draft_rptg
rptg_607_semt_023	ASX_AU_CHS_draft_rptg
rptg_608_semt_017	ASX_AU_CHS_draft_rptg
rptg_609_semt_002	ASX_AU_CHS_draft_rptg

MyStandards 'to-be' documentation
Community: ASX ISO 20022 Technical Committee
Collection: ASX_AU_CHS_draft_sett
            ASX_AU_CHS_draft_rptg

Further details (attached to Message Definitions in MyStandards)
- Message Model
- Sample .xml
     Valid .xml samples to illustrate message structure
     Not intended to cover full business usage
- ASX Proprietary Code list (attached to collection)

Feedback Request: ASX requests TC member feedback via comments in MyStandards by **Friday 9 April 2021** ready for ASX review.

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4. Closing

ASX

4. Closing

- Technical documentation updates will be published subject to TC member feedback

- Noted actions from this meeting

- Draft minutes from this meeting will be distributed for review

- Summary of comments received in MyStandards and ASX response will be published and shared by email

- Any further changes to technical documentation as a result of feedback to be communicated

More information on CHESS Replacement & Technical Committee documents: CHESS Replacement web page

Email questions to ASX project team: CHESSReplacement@asx.com.au

Email questions about messages/technical documentation to: CSPSupport@asx.com.au

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