

General Information (Origin of Request)		
<input type="checkbox"/> User Requirements (URD) <input checked="" type="checkbox"/> Other User Functional or Technical Documentation (SYS)		
Request raised by: Eurosystem	Institute: Eurosystem	Date raised: 11/11/2015
Request title: Settlement Instruction New Screen: Amendments in Layout and Error Handling		Request ref. no: T2S 0566 SYS
Request type: Common		Urgency: Normal
1. Legal/business importance parameter: High	2. Market implementation efforts parameter: Low	
3. Operational/Technical risk parameter: Low	4. Financial impact parameter: No cost impact	
Requestor Category: Eurosystem	Status: Authorised at Steering Level	

Reason for change and expected benefits/business motivation:

The resolution of ticket PBI-156446 "Information missing in Sese.023 Copy XML" requires a technical re-design of the Settlement Instruction - New Screen. To enable the consistent creation of the XML message some amendments in the layout of the screen and the error handling are required and need to be included in the UHB. These amendments are a pre-requisite for the implementation of the changes described in PBI-156446.

This CR covers the following amendments in the Settlement Instruction New screen:

- Implementation of a schema validation process for Settlement Instructions entered in the system via U2A.

All the Settlement Instructions submitted via the "Settlement Instruction New screen" will go through a new process which creates a sese.023 XML message based on the attributes entered by the user in the screen. This will then be validated against the T2S sese.023 schema in order to ensure full compliance between the data that can be filled in by the User in U2A (Settlement Instruction New screen) and the data which can be transported back into the sese.023 inbound copy by T2S. Any schema validation errors will be reported back to the user for correction prior being able to leave the screen for further processing. Alternatively he may cancel the action of entering the settlement instruction and leave the screen without clicking "submit".

- Update of the Settlement Instruction New screen layout:
 - o Addition of an additional information pop-up related to Restriction reference(s) and Link(s).
 - o A new icon at the end of every entry within the link/restriction table will be added. By clicking on this icon a popup will appear where the user can enter the additional information for this specific link/restriction.
 - o The additional information included in the pop-up will be removed from the Additional Information frame of the screen.
 - o Following additional information attributes will be added to the pop-up:

LINKAGES

- Message Number:
 - Long Number
- Linked Quantity:
 - Paired Off Quantity:
 - Unit
 - Face Amount
 - Amortised Value
 - Turned Quantity:
 - Unit
 - Face Amount
 - Amortised Value

RESTRICTION REFERENCE

- Lot Quantity:
 - Unit
 - Face Amount
 - Amortised Value
- Lot Date time:
 - Date
 - Date Time
- Lot Price:
 - Type:
 - Yielded
 - Value Type
 - Value:
 - Rate
 - Amount and Currency
- Type of Price:
 - Code
 - Proprietary:
 - Identification
 - Issuer
 - Schema Name

- Addition of the “Current Instruction Number” attribute in the Link frame.

As per sese.023 schema design, in case the pool instruction counter is included the current instruction number needs to be specified too.

A new field “Current Instruction number” would be added next to the attribute “Pool instruction counter”.

- Addition of the “Hold Indicator reason” attribute for the Party Hold and CSD Hold fields.

A new field per each of the two hold indicators would be added to specify the relevant reason. This attribute would be removed from the Additional Information frame of the screen.

- Addition of an additional information pop-up related to the place of trade type.

If the “place of trade description” or “place of trade identifier” is filled in, as per the sese.023 schema the place of trade type becomes mandatory to be filled in (either code or proprietary information).

The place of trade type related attributes would be removed from the Additional Information frame of the screen.

This Change Request is accompanying the accepted defect with ticket number PBI000000156446 (Information missing in Sese.023 Copy XML).

Description of requested change:

A new technical validation will be implemented in the T2S GUI for the Settlement Instruction New screen in order to ensure that the data entered in the screen are T2S sese.023 schema compliant.

This new check will generate internally an equivalent sese.023 upon the submitting of the Settlement Instruction in U2A mode and validate it against the sese.023 XML schema.

Additionally, in order to enable the consistent creation of the XML message for its validation some amendments of the screen layout are to be implemented

Submitted annexes / related documents

Presentation on additional information for sese.023 inbound copy:

- CRG meeting of 13 and 28 October 2015
UT-PBR-058 (Additional information in sese.023 inbound copy — PBI156446)
<http://www.ecb.europa.eu/paym/t2s/progress/pdf/tg/crg/crg54/ut-pbr-058.pdf>
- CRG meeting of 28 October 2015
UT-PBR-058 (Additional information in sese.023 inbound copy — PBI156446) — Status update
http://www.ecb.europa.eu/paym/t2s/progress/pdf/tg/crg/crg55/06.ut-pbr-058_additional_information_for_sese.023-status_update.pdf

Proposed wording for the Change request:

UHB v2.1 Section 2.2.2.19 Settlement Instruction – New Screen, pages 201-241

Context of Usage This screen contains a number of fields regarding settlement instructions. You can enter new data. Afterwards you can proceed further by clicking on the buttons below.
The screen can be used either in 2-eyes mode or 4-eyes mode.
This screen is not relevant for CB users.
Any schema validation error will be reported back to the user for correction prior being able to leave the screen for further processing.
Alternatively he may cancel the action of entering the settlement instruction and leave the screen without clicking “submit”.

Field**Description**

Party Hold Status	Select a hold status as set by the T2S party from the possible values: I No (default value) I Yes References for error messages [] 2342]: I MVCP036 I MVCP092 I MVCP124 I MVCP125
<u>Party Hold Reason</u>	<u>Enter the additional reason information of the Party Hold Status.</u> <u>Required format is: max. 210 characters</u>
CSD Hold Status	Select a hold status as set by the CSD from the possible values: I No (default value) I Yes References for error messages [] 2342]: I MVCP037 I MVCP038 I MVCP126 I MVCP127
<u>CSD Hold Reason</u>	<u>Enter the additional reason information of the CSD Hold Status.</u> <u>Required format is: max. 210 characters</u>
Pool Instruction Counter	Enter the number of linked instructions included in the pool. Required format is: Integer References for error messages [] 2342]: I MVL1843 I MVL1845 This field becomes mandatory when the 'Pool Instruction Reference' is filled in.
<u>Current Instruction Number</u>	<u>Enter the sequential number of the instruction.</u> <u>Required format is: Integer</u> <u>This field becomes mandatory when the 'Pool Instruction Reference' is filled in.</u>
Pool Reference Owner BIC	Enter the BIC of the owner of the Pool Instruction Reference. Required format is: max. 11 characters (SWIFT-x) The field 'Pool Reference Owner BIC' becomes mandatory when the field 'Pool Instruction Reference' is filled in.
<u>Link Additional Information</u>	
<u>Message Number/Long Number</u>	<u>Enter the type number / message identified of the message referenced in the linkage sequence.</u> <u>Required format is: max. 12 characters</u>

<u>Linked Quantity/Paired Off Quantity/Unit</u>	<p>Enter the quantity of the linked transaction to be paired-off expressed in units. <u>Required format: max. 15 digit(s) incl. decimal point (thereof max. 14 decimal places).</u> <u>Only one of the values for quantity can be filled in: "Unit", "Face Amount" or "Amortised Value".</u> <u>If "Paired Off Quantity" is filled in, then "Turned Quantity" cannot be filled in.</u></p>
<u>Linked Quantity/Paired Off Quantity/Face Amount</u>	<p>Enter the quantity of the linked transaction to be paired-off expressed in face amount. <u>Required format: max. 15 digit(s) incl. decimal point (thereof max. 5 decimal places).</u> <u>Only one of the values for quantity can be filled in: "Unit", "Face Amount" or "Amortised Value".</u> <u>If "Paired Off Quantity" is filled in, then "Turned Quantity" cannot be filled in.</u></p>
<u>Linked Quantity/Paired Off Quantity/Amortised Value</u>	<p>Enter the quantity of the linked transaction to be paired-off expressed in amortised value. <u>Required format: max. 15 digit(s) incl. decimal point (thereof max. 5 decimal places).</u> <u>Only one of the values for quantity can be filled in: "Unit", "Face Amount" or "Amortised Value".</u> <u>If "Paired Off Quantity" is filled in, then "Turned Quantity" cannot be filled in.</u></p>
<u>Linked Quantity/Turned Quantity/Unit</u>	<p>Enter the quantity of the linked transaction to be turned expressed in units. <u>Required format: max. 15 digit(s) incl. decimal point (thereof max. 14 decimal places).</u> <u>Only one of the values for quantity can be filled in: "Unit", "Face Amount" or "Amortised Value".</u> <u>If "Turned Quantity" is filled in, then "Paired Off Quantity" cannot be filled in.</u></p>
<u>Linked Quantity/Turned Quantity/Face Amount</u>	<p>Enter the quantity of the linked transaction to be turned expressed in face amount. <u>Required format: max. 15 digit(s) incl. decimal point (thereof max. 5 decimal places).</u> <u>Only one of the values for quantity can be filled in: "Unit", "Face Amount" or "Amortised Value".</u> <u>If "Turned Quantity" is filled in, then "Paired Off Quantity" cannot be filled in.</u></p>
<u>Linked Quantity/Turned Quantity/Amortised Value</u>	<p>Enter the quantity of the linked transaction to be turned expressed in amortised value. <u>Required format: max. 15 digit(s) incl. decimal point (thereof max. 5 decimal places).</u> <u>Only one of the values for quantity can be filled in: "Unit", "Face Amount" or "Amortised Value".</u> <u>If "Turned Quantity" is filled in, then "Paired Off Quantity" cannot be filled in.</u></p>
Restriction Reference	<p>----- Enter the restriction reference applying on securities. Required format is: max. 3050 characters (SWIFT-x)</p>

Restriction Reference Shows the restriction reference applying on securities.
References for error messages
.....

Use of Restriction Additional Information

Lot Quantity/Unit Enter the quantity that is part of the lot described expressed in units.
Required format: max. 15 digit(s) incl. decimal point (thereof max. 14 decimal places).
Only one of the values for quantity can be filled in: "Unit", "Face Amount" or "Amortised Value".

Lot Quantity/Face Amount Enter the quantity that is part of the lot described expressed in face amount.
Required format: max. 15 digit(s) incl. decimal point (thereof max. 5 decimal places).
Only one of the values for quantity can be filled in: "Unit", "Face Amount" or "Amortised Value".

Lot Quantity/Amortised Value Enter the quantity that is part of the lot described expressed in amortised value.
Required format: max. 15 digit(s) incl. decimal point (thereof max. 5 decimal places).
Only one of the values for quantity can be filled in: "Unit", "Face Amount" or "Amortised Value".

Lot Date Time/Date Enter the date on which the lot was purchased or use the *calendar* icon.
Required format: YYYY-MM-DD
Only one field among "Date" and "Date Time" can be filled in.

Lot Date Time/Date Time Enter the date/time on which the lot was purchased or use the *calendar* icon.
Required format: YYYY-MM-DDThh:mm:ss.sss
Only one field among "Date" and "Date Time" can be filled in.

Lot Price/Type/Yielded Select yes or no to indicate that the price is expressed as a yield.
Possible values:
· Yes
· No
Only one field among 'Value Type' and 'Yielded' can be filled in.

Lot Price/Type/Value Type Select the type of value in which the price is expressed from the possible values:
· Discount (default value)
· Premium
· Par
Only one field among 'Value Type' and 'Yielded' can be filled in.

Lot Price/Value/Rate Enter the price expressed as a rate.
Required format is: max. 12 digit(s) incl. decimal point (thereof max. 10 decimal places)
Only one field among 'Value Amount' and 'Value Rate' can be filled in.

Lot Price/Value/Amount Enter the price expressed as a value.
Required format is: max. 15 digit(s) incl. decimal point (thereof max. 13 decimal places)
Only one field among 'Value Amount' and 'Value Rate' can be filled in.

<u>Lot Price/Value/Currency</u>	<u>Select the currency of the value amount from the drop-down menu.</u> <u>Required format is: 3 characters (SWIFT-x)</u>
<u>Type of Price/Code</u>	<u>Select the ISO 20022 codes to indicate the type of price from the possible values:</u> <u>: Average</u> <u>Only one of the following types can be filled in for a given place of trade: 'Code' or the combination of 'Identification', 'Issuer' and optionally 'Schema Name'.</u>
<u>Type of Price/Proprietary/Identification</u>	<u>Enter the proprietary information, often a code, of the type of price.</u> <u>Required format is: max. 4 characters (SWIFT-x)</u> <u>Only one of the following types can be filled in for a given type of price: 'Code' or the combination of 'Identification', 'Issuer' and optionally 'Schema Name'.</u>
<u>Type of Price/Proprietary/Issuer</u>	<u>Enter the issuer information of the type of price.</u> <u>Required format is: max. 4 characters (SWIFT-x)</u> <u>Only one of the following types can be filled in for a given type of price: 'Code' or the combination of 'Identification', 'Issuer' and optionally 'Schema Name'.</u>
<u>Type of Price/Proprietary/Schema Name</u>	<u>Enter a short textual description of the schema of the type of price.</u> <u>Required format is: max. 4 characters (SWIFT-x)</u> <u>Only one of the following types can be filled in for a given type of price: 'Code' or the combination of 'Identification', 'Issuer' and optionally 'Schema Name'.</u>
Value Rate	----- Enter the price expressed as a rate. Required format is: decimal number <u>max. 12 digit(s) incl. decimal point (thereof max. 10 decimal places)</u> Only one field among 'Value Amount' and 'Value Rate' can be filled in. If any of these two fields is filled in the other one cannot be filled in. If either 'Value Amount' or 'Value Rate' is filled in, then either 'Value Type' or 'Yielded' must also be filled in.
Exchange Rate	Enter the factor used for the conversion of an amount from one currency into another. This reflects the price at which one currency was bought with another currency. Required format is: decimal number <u>max. 12 digit(s) incl. decimal point (thereof max. 10 decimal places)</u>
Quoted Currency	Select the currency into which the base currency is converted, in a currency exchange <u>from the drop-down menu.</u> Required format is: <u>max. 3 capital letter(s)</u>
Resulting Amount	Enter the counter value of a foreign exchange conversion. Required format is: decimal number <u>max. 15 digit(s) incl. decimal point (thereof max. 5 decimal places)</u>
Resulting Amount Currency	Select the currency of the counter value of a foreign exchange conversion <u>from the drop-down menu.</u> Required format is: <u>3 capital letter(s)</u>
Unit Currency	Select the currency into which the base currency is converted, in a currency exchange for unit <u>from the drop-down menu.</u> Required format is: decimal number
Market Type	
Issuer	Enter the entity that assigns the identification. Required format is: max. 354 <u>354</u> characters (SWIFT-x)

Schema Name	Enter the name of the identification schema. Required format is: max. 354 characters (SWIFT-x)
Number of Days Accrued	Enter the number of days on which the interest rate accrues (daily accrual note). Required format is: decimal number <u>Integer</u>
Original Ordered Amount	Enter the original ordered amount. Required format is: decimal number <u>max. 15 digit(s) incl. decimal point (thereof max. 5 decimal places)</u>
Original Ordered Currency	Select the currency of the original ordered amount <u>from the drop-down menu</u> . Required format is: max. 3 capital letter(s)
Place of Trade Description	Enter the market in which a trade transaction has been executed. Required format is: max. 430 characters (SWIFT-x)
Place of Trade Identifier	Enter the market in which a trade transaction has been executed. Required format is: max. 4 characters (SWIFT-x)

Place of Trade Additional Information

<u>Type/Code</u>	<p>Select the ISO 20022 code to indicate the type of market in which transactions take place from the possible values:</p> <ul style="list-style-type: none"> · <u>PrimaryMarket</u> · <u>SecondaryMarket</u> · <u>OverTheCounter</u> · <u>Various</u> · <u>StockExchange</u> <p>Required format is: max. 4 characters (SWIFT-x). Only one of the following types can be filled in for a given place of trade: <u>'Code' or the combination of 'Identification', 'Issuer' and optionally 'Schema Name'</u>.</p>
<u>Type/Proprietary/Identification</u>	<p>Enter the proprietary information, often a code, of the place of trade type. Required format is: max. 4 characters (SWIFT-x). Only one of the following types can be filled in for a given place of trade: <u>'Code' or the combination of 'Identification', 'Issuer' and optionally 'Schema Name'</u>.</p>
<u>Type/Proprietary/Issuer</u>	<p>Enter the issuer information of the place of trade type. Required format is: max. 4 characters (SWIFT-x). Only one of the following types can be filled in for a given place of trade: <u>'Code' or the combination of 'Identification', 'Issuer' and optionally 'Schema Name'</u>.</p>
<u>Type/Proprietary/Schema Name</u>	<p>Enter a short textual description of the schema of the place of trade type. Required format is: max. 4 characters (SWIFT-x). Only one of the following types can be filled in for a given place of trade: <u>'Code' or the combination of 'Identification', 'Issuer' and optionally 'Schema Name'</u>.</p>

High level description of Impact:

Outcome/Decisions:

* CRG Teleconference of 12 November 2015: The CRG decided to put the Change Request on hold and the CRG agreed to check with the CRG members if they have any comments on the Change Request and provide recommendation for approval of the Change Request in a written procedure.

* CRG written procedure from 12 to 20 November 2015: Following the CRG member's feedback, the 4CB agreed to enhance the Change Request and to perform a full assessment of the Change Request.

* CRG meeting of 15 December 2015: The CRG agreed to postpone the discussion on the Change Request until the CRG teleconference of 18 December 2015 when the detailed assessment will be available.

* CRG teleconference of 18 December 2015: The CRG recommended the approval of the Change Request and its addition to Release 1.2.

* CRG on 29 December 2015: Following the written procedure from 18 to 23 December 2015, the CRG acknowledged and did not raise any objection to the minor changes made on the Change Request following the written procedure.

* PMG meeting on 13 January 2016: During a written procedure from 30 December 2015 to 13 January 2016, the Project Managers Group was in favour of adding the Change Request to Release 1.2.

* OMG on 13 January 2016: During a written procedure from 30 December 2015 to 13 January 2016, the Operations Managers Group did not identify any operational impact. The OMG also was in favour of adding the Change Request to Release 1.2.

* Advisory Group's advice on 21 January 2016: The AG was in favour of approving the Change Request and including it in Release 1.2.

* CSD Steering Group's resolution on 22 January 2016: The CSG took the resolution to approve the Change Request and to include it in Release 1.2.

Eurosystem analysis – General information

Impact On T2S	Static data management		Interface	
		Party data management		Communication
		Securities data management		Outbound processing
		T2S Dedicated Cash account data management		Inbound processing
		Securities account data management		
		Rules and parameters data management		
	Settlement		Liquidity management	
		Standardisation and preparation to settlement		Outbound Information Management
		Night-time Settlement		NCB Business Procedures
		Daytime Recycling and optimisation		Liquidity Operations
		Daytime Validation, provisioning & booking	LCMM	
		Auto-collateralisation		Instructions validation
			x	Status management
	Operational services			Instruction matching
		Data Migration		Instructions maintenance
		Scheduling	Statistics, queries reports and archive	
		Billing		Report management
		Operational monitoring		Query management
				Statistical information
				Legal archiving
		All modules (Infrastructure request)		
	No modules (infrastructure request)			
	Business operational activities			
	Technical operational activities			

Impact on major documentation			
Document	Chapter	Change	
Impacted GFS chapter	No impact		
Impacted UDFS chapter	No impact		
Additional deliveries for Message Specification	No impact		
UHB	2.2.2.19 Settlement Instruction – New screen	<ul style="list-style-type: none"> · Update of the screenshot. · Addition of the new attributes and the new pop-ups in the field description 	
External training materials			
Other documentations			
Links with other requests			
Links	Reference		Title

Overview of the impact of the request on the T2S system and on the project

Summary of functional, development, infrastructure and migration impacts

U2A design:

Implementation of a schema validation process for Settlement Instructions entered in the system via U2A in the Settlement Instruction New screen.

All the Settlement Instructions submitted will go through a new process which creates a sese.023 XML message based on the attributes entered by the user in the screen. This will then be validated against the T2S sese.023 schema in order to ensure full compliance between the data that can be filled in by the User in U2A (Settlement Instruction New screen) and the data which can be transported back into the sese.023 inbound copy by T2S. Any schema validation errors will be reported back to the user for correction prior being able to leave the screen for further processing. Alternatively he may cancel the action of entering the settlement instruction and leave the screen without clicking "submit".

Update of the Settlement Instruction New screen layout:

- Addition of an additional information pop-up related to Restriction reference(s) and Link(s).
- Addition of the "Current Instruction Number" attribute in the Link frame.
- Addition of the "Hold Indicator reason" attribute for the Party Hold and CSD Hold fields.
- Addition of an additional information pop-up related to the "Place of Trade Type".

Summary of project risk

None.

Security analysis

No potentially adverse effect was identified during the security assessment.