



General Information (Origin of Request)		
<input checked="" type="checkbox"/> User Requirements (URD) <input checked="" type="checkbox"/> Other User Functional or Technical Documentation (SYS)		
Request raised by: Euroclear	Institute: CSD	Date raised: 13/05/2016
Request title: T2S should give the possibility to receive outbound T2S messages bundled in files		Request ref. no: T2S 0613 URD
Request type: Common	Classification: Scope enhancement	Urgency: Normal
1. Legal/business importance parameter: Medium	2. Market implementation efforts parameter: Low	
3. Operational/Technical risk parameter: Low	4. Financial impact parameter: High	
Requestor Category: CSD	Status: Authorised at Steering Level	

Reason for change and expected benefits/business motivation:

At present, T2S allows T2S actors to only bundle inbound messages into files. Outbound messages are always sent on a unitary basis in real time, with the exception of LCMM status notification during night time settlement (NTS) which are always sent in file mode.

Bundling messages into files provides several benefits:

- Cost reduction, both at T2S and VAN provider levels
- Better capacity optimization
- Better performance monitoring

Considering that the vast majority of T2S messages are outbound messages, current offer restricts these benefits.

The aim of the CR is to allow T2S actors (CSDs, NCBs, DCPs) to subscribe to the receipt of outbound messages into files based on a number of criteria.

Description of requested change:

T2S should allow CSDs, NCBs and DCPs to subscribe to the receipt of T2S outbound messages according to the following modalities. The subscription is optional:

- Clients can continue to receive outbound reporting message per message
- Clients who subscribe to the bundling will benefit from standard features described below

Configuration is done via request to the T2S Operator (similar to flat file configuration). The files are sent to the Party technical address (PTA) defined as default routing configuration. Such files will always be sent via the file channel as done for NTS files.

Selection criteria

- T2S actor
 - o Before sending a message, T2S checks if the recipient has subscribed to the bundling function. If so, T2S will bundle the messages according to the message types and the conditions detailed below.
- Message types
 - o The bundling function is offered for all outbound messages, excluding the following ones;
 - Queries responses;
 - Reports;
 - Admi.007;
 - Inbound processing rejection;
 - Error messages sent from the backend;
 - o It applies indifferently to original messages and copies subscribed by the recipient, and in particular to copies of inbound messages subscribed (e.g. sese023).
NB: the detailed list of messages in scope and out of scope of bundling is attached to this CR.

Bundling conditions

T2S will bundle outbound messages during the whole business day with the exception of the maintenance window. During the NTS, the messages that are already part of the NTS bundling will not be subject to this new bundling feature (i.e. NTS bundling remains unchanged)

T2S will apply the following standard parameters in the bundling process. These parameters apply equally to all parties subscribing to the service.

Modification of these parameters can be requested via a 'fast track' change request that can be delivered inside or outside of a T2S release. The maximum time needed by the 4CB to deliver such modification will be three weeks.

- Maximum number of messages
 - o Once the file has reached the maximum number of messages defined, T2S will send the file to the recipient immediately.
 - o The maximum number of messages should be 1000.
- Elapse time
 - o In order to avoid to reach the maximum number of messages and a visible delay in the sending of the reporting; a standard elapse time is defined for the frequency of sending the files to the recipients. The elapse time is defined as a common value
 - o Each elapse time, T2S send the files to the recipients, even if the maximal number of messages is not reached
 - o In case only one message was generated during the defined elapse time a file is created
 - o In case there are no messages generated during the defined elapse time no file is sent out to the customer
 - o The elapsed time should be 2 minutes.
- Deactivation period
 - o By exception, during the period close to the DVP cut off, the file bundling is deactivated and outbound messages are sent in real time.
 - o The deactivation period should start 30 minutes before the planned first occurrence of the currency-dependent event "Start of Intraday DVP cut-off" (IDVP), i.e. 15:30 as per current T2S configuration. The deactivation period should last until the last occurrence of the currency dependent event "End of Intraday DVP cut-off" (EDVP).

Submitted annexes / related documents:

Proposed wording for the Change Request:

URD

Chapter 11 Configuration requirements

Chapter 11.16 Outbound message bundling parameters

Configuration parameters for optional outbound message bundling

<u>Reference ID</u>	T2S.11.940
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Table 11-23 – Attribute Requirements for optional outbound message bundling

<u>Attribute</u>	<u>Description</u>
<u>Maximum number of messages to be bundled</u>	<u>This attribute shall specify the maximum number of outbound messages after which T2S shall send a file bundling these outbound messages.</u>
<u>Elapsed time</u>	<u>This attribute shall provide the number of minutes after which T2S shall send a file bundling the outbound messages available during that elapsed time.</u>
<u>Start of the deactivation period</u>	<u>This attribute shall define the start of the deactivation of outbound message bundling during a period close to the DVP cut-off.</u>
<u>End of the deactivation period</u>	<u>This attribute shall define the end of the deactivation of outbound message bundling during a period close to the DVP cut-off.</u>

Chapter 13 Messages and reports requirements

Generation criteria for messages

Reference ID	T2S.13.060
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T2S shall send event-driven messages (i.e. “real-time” generation and sending). Events that will trigger the generation and sending of a message are described in chapter 5, under life cycle management. They are also illustrated by the flows of messages (refer to 13.3, detailed message flows).

T2S bundling of outbound messages into files

Reference ID	T2S.13.065
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T2S shall allow T2S Actors to receive outbound messages bundled into files. The message bundling excludes queries responses, reports, acknowledgements and some rejections/errors.

T2S will not bundle messages during the maintenance window and around a period close to the DVP cut-off. T2S shall bundle outbound messages with the exception of settlement related messages during the night-time settlement when one of the below condition is met:

- Maximum number of messages to be bundled;
- Elapsed time.

Night-time settlement communication

Reference ID	T2S.13.070
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T2S shall send settlement-related messages, such as the settlement status message and the settlement confirmation, after each cycle of night-time settlement.

For a given instruction, only the last valid statuses at the end of the cycle shall be sent. Statements and reports will be sent at the end of each night-time cycle and/or at the end of night-time settlement (as explained in “Reports” section, 13.5).

T2S sending files during night-time period

Reference ID	T2S.13.080
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During the night-time period, T2S shall only send settlement related messages (e.g. settlement confirmations and settlement failure notifications) bundled into files to T2S actors. All other messages (e.g. matching notifications, reports, query responses, static data related messages) are ~~sent individually~~ not subject to the night-time period bundling.

UDFS

1.3.1.5 Common rules for messages and files addressing (Page 118)

When defining a conditional routing, the responsible T2S Actor (i.e. a CSD, a CB or a directly connected participant) has to provide, in addition to the data required for the setup of a default routing configuration, the following pieces of information:

- the sequence number of the conditional routing, specifying the order according to which T2S tries to match the current outgoing message with one of the conditional routing configuration, for a given recipient party;
- a set of conditions specifying the criteria on which the routing is defined: the type of the message, the size boundaries (i.e. the minimum and the maximum size of the message), the currency of the message;
- a Boolean information specifying whether the set of conditions represents a positive or a negative list.

In addition, T2S outbound communications are bundled into files during night-time settlement (for specific settlement-related messages) and, on an optional basis, during real-time settlement.

When determining how to route outbound communication during the real-time settlement period, T2S applies the following rules:

- If the type of outbound communication is an acknowledgement of receipt, a reaction on an erroneous incoming message or a query result, T2S applies a mandatory routing, i.e. it routes the outbound communication to the same network service and party technical address which were used for sending the related inbound communication.
- If the type of outbound communication is different from the ones mentioned in the previous point, then:
 - If the outgoing message matches one of the conditional routing configurations and the Party has not opted to receive outbound messages bundled into files, then T2S routes the outbound communication via the network service and to the party technical address specified in the matched routing configuration.

- If no matching conditional routing configurations are found or the Party has opted to receive outbound messages bundled into files, then T2S routes the outbound communication to the relevant default routing configuration.
- As to data compression:
 - If the outbound communication is smaller than 2KB, then T2S does not compress the data, regardless of compression setting specified in the matched routing configuration.
 - If the outbound communication is a report, then T2S compresses the data regardless of compression setting specified in the matched routing configuration.
 - For all other types of outbound communication, T2S compresses the data only if this is required by the compression setting specified in the matched routing configuration.

T2S applies automatic bundling into files during night-time settlement, while offering the possibility for each Party to opt for the bundling of outbound messages into files during the whole business day¹. Exceptions during the business day are the maintenance window where no messages are sent and the period close to the DVP cut off². During this time the file bundling is deactivated and outbound messages are sent in real time. In addition, during the NTS, messages that are already part of the NTS bundling will not be subject to this bundling feature.

For this optional bundling, T2S will bundle messages into files based on two standard parameters, with the sending of a file triggered whenever one of the two conditions expressed by these parameters is met. The two parameters refer to the maximum number of messages that can be included in a file (set to 1000) and the maximum elapsed time defining the frequency for sending bundled files (set to 2 minutes). These parameters apply equally to all parties opting for the service.

The files are sent to the Party technical address defined as default routing configuration. Such files will always be sent via the file channel.

The optional bundling function is offered for all outbound messages, excluding the following ones:

- Query responses;
- Reports;
- admi.007;
- Inbound processing rejections;
- Error messages sent from the backend.

During the night-time settlement period, T2S sends all the settlement-related messages listed in the following table grouped into files.

1.3.1.5 Common rules for messages and files addressing (Page 120)

SETTLEMENT DAY PERIOD	MATCHED ROUTING CONFIGURATION	OUTBOUND COMMUNICATION	COMPRESSED DATA
real-time settlement (if not opted for optional bundling)	Default 1	All individual messages <= 32KB	No
	Default 2	All individual messages > 32KB	Yes
<u>Real-time settlement (if opted for optional bundling)</u>	<u>Default 2</u>	<u>All individual messages excluding the exceptions listed above, bundled into files, regardless of file size</u>	<u>Yes</u>

¹ The subscription to optional message bundling during the real-time period is handled by the T2S Operator, which will manage the participants' preferences based on their specific requests.

² The deactivation period is configured to begin half an hour before the first planned currency-dependent DVP cut-off and end with the last event for the cut-off processing.

ght-time settlement (if not opted for optional bundling)	Default 1	All individual messages not listed in Table 21 – Settlement related messages sent grouped into files <= 32KB	No
	Default 2	All individual messages not listed in Table 21 – Settlement related messages sent grouped into files > 32KB	No
		Files of messages included in Table 21 – Settlement related messages sent grouped into files regardless of file size	Yes
<u>Night-time Settlement</u> (if opted for optional bundling)	<u>Default 2</u>	<u>Files of messages not included in the list of exceptions above or in Table 21 – Settlement related messages sent grouped into files, regardless of file size</u>	<u>Yes</u>

Table 26 USAGE OF NETWORK SERVICES FOR OUTBOUND COMMUNICATION (page 121)

SETTLEMENT DAY PERIOD	MATCHED ROUTING CONFIGURATION	OUTBOUND COMMUNICATION	COMPRESSED DATA
Real-time settlement (if not opted for optional bundling)	Default 1	All individual messages not in DKK <= 32KB	No
	Default 2	All individual messages not in DKK > 32KB	Yes
	Conditional 1	All individual messages in DKK <= 32KB	Yes
	Conditional 2	All individual messages in DKK > 32KB	Yes
<u>Real-time settlement</u> (if opted for optional bundling)	<u>Default 2</u>	<u>All individual messages excluding the exceptions listed above, bundled into</u>	<u>Yes</u>

		<u>files, regardless of file size</u>	
Night-time settlement (if not opted for optional bundling)	Default 1	All individual messages not in DKK and not listed in Table 21 – Settlement-related messages sent grouped into files <= 32KB	No
	Default 2	All individual messages not in DKK and not listed in Table 21 – Settlement-related messages sent grouped into files > 32KB	Yes
		Files of messages not in DKK and included in Table 21 – Settlement-related messages sent grouped into files regardless of file size	Yes
	Conditional 1	All individual messages not in DKK and not listed in Table 21 – Settlement-related messages sent grouped into files <= 32KB	Yes
	Conditional 2	All individual messages not in DKK and not listed in Table 21 – Settlement-related messages sent grouped into files > 32KB	Yes
		Files of messages not in DKK and included in Table 21 – Settlement-related messages sent grouped into files regardless of file size	Yes
<u>Night-time Settlement (if opted for optional bundling)</u>	<u>Default 2</u>	<u>Files of messages not included in the list of exceptions above or in Table 21 – Settlement related</u>	<u>Yes</u>

		messages sent grouped into files, <u>regardless of file size</u>	
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1.6.4.1.3 Status management process

During the ~~Daytime period~~ whole day the communication to the T2S Actors is ~~continuous~~ sent in real time, if the T2S Actor has not opted for the optional file bundling. In case the T2S Actors are using the optional file bundling T2S sends all messages bundled into files considering the elapse time or maximum number of messages. There are two exceptions during the business day: the maintenance window and the period close to the DVP cut off. During this time the optional file bundling is deactivated and messages are sent in real time. ~~but d~~ During the Night-time period, T2S only sends settlement related messages (e.g. settlement confirmations and settlement failure notifications) bundled into one or more files depending on the size (maximum volume of 32 MB). ~~All other messages (e.g. matching notifications, reports, query responses, static data related messages) are sent individually.~~ At the end of every Night-time sequence, T2S sends the latest valid statuses values together with the associated reason codes to the T2S Actors. T2S sends messages to T2S Actors in a consistent order.

1.7.6 Store and Forward Communication (Reports, Notifications)

- | Unless the user has subscribed to the optional bundling of messages into files, it depends on the settings in Static Data and the global compression limit whether the response is compressed or not.
- | As sequence reporting in the NTS T2S sends to the T2S Actors a bundled file including settlement status advices, posting notification, etc resulting from the execution of the settlement sequence. The file size is up to 32 MB. If the file size limitation would be breached, T2S sends several files.
- | In case the T2S Actors opt to receive outbound messages bundled into files T2S sends nearly all messages bundled into files considering the elapse time or maximum number of messages (see section 1.3.1.5 Common Rules for Messages and File addressing).
- | For reports that would breach the size limitation of 32 MB, please see section Outbound traffic exceeding given size limitations.

GFS

3.2.1 General Introduction

The activity diagram of the Interface domain A2A has to be updated to include the new function in the outbound processing module

3.2.5.2 Diagram of the module

The "Outbound Processing Module for Application-to-Application mode (A2A)" has to be updated to include the new function in the outbound processing module

3.2.5.3 Description of the functions of the module 6 – A2A Message Sequencing

The function delivers the *Sequenced outbound business data A2A flow* to the ~~Create Outbound Communication A2A File Bundling~~ function.

3.2.5.3 Description of the functions of the module 7 – File Bundling

This function receives the *Sequenced outbound business data A2A flow* and is responsible for the file bundling process.

This process is divided into two parts: the mandatory bundling during the night-time settlement and the optional file bundling during the whole day. Exceptions during the business day are the maintenance window and during the period close to the DVP cut off.

Afterwards the function delivers the *Sequenced outbound business data A2A flow* to the *Create Outbound Communication A2A function*.

3.2.5.3 Description of the functions of the module 7 – Create A2A Outbound Communication

7.8 – Create A2A Outbound Communication

High level description of Impact:

Outcome/Decisions:

- * CRG meeting on 24 May 2016: The CRG put the Change Request on hold for the T2S Release 2.0 potentially.
- * CRG meeting of 26 October 2016: The CRG agreed to postpone the preliminary assessment on the Change Request.
- * CRG meeting on 4 July 2017: The CRG agreed to put the Change Request on hold.
- * CRG meeting on 15 December 2017: The CRG agreed to have the Change Request updated and recommended the launch of the preliminary assessment of the updated Change Request.
- * OMG on 4 January 2018: During a OMG written procedure from 22 December 2017 to 4 January 2018, some OMG member(s) identified an operational impact, that the configuration of the message bundling by relevant T2S Actors may affect the performance in peak hours. Once the Change Request is allocated to a release, the OMG will assess the need for an operational procedure to accompany the Change Request.
- * CRG teleconference on 28 February 2018: The CRG agreed to have the Change Request updated and recommended the launch of the detailed assessment of the updated Change Request with a view of R3.0.
- * AMI-SeCo on 7 March 2018: In a written procedure from 1 to 7 March 2018, the AMI-SeCo agreed to the recommendation of the CRG
- * CSG on 8 March 2018: In a written procedure from 1 to 8 March 2018, the CSG took the resolution to launch the detailed assessment of the change request.
- * CRG teleconference on 30 May 2018: The CRG agreed to recommend the Change Request to the CSG for approval and inclusion in T2S Release 3.2.
- * OMG written procedure ended on 6 June 2018: the OMG members did not identify any blocking operational impact of the CR and as a result did not raise any objection to its inclusion in the Release 3.2
- * PMG on 6 June 2018: the Project Managers Group (PMG) was in favour of adding the CR to T2S release 3.2 from a planning perspective
- * AMI-SeCo written procedure ended 12 June 2018: one AMI-SeCo member pointed at the need to discuss the transmission of the cost savings expected from CR-613 along the custody chain, and another member advised that CR-613 should be a specific change request rather than a common one. Other AMI-SeCo members agreed to the CRG recommendation to approve CR-613 and its inclusion in the T2S release 3.2.
- * CSG on 14 June 2018: the CSG adopted a resolution to approve CR-613 and its inclusion in the scope of T2S release 3.2.

Preliminary assessment: (outdated by the detailed assessment – for documentation only):

- **Findings**
 - When RTS and NTS bundling are running in parallel (during NTS phase) those messages/usages bundled at during NTS are not bundled in the RTS files. During the rest of the day the messages bundled during NTS (listed in UDFS v2.3 table 21) are also bundled in RTS files (please see related open issue/question to be clarified by the originator).
 - In case there are no messages generated during the defined elapse time no file is sent
 - As already mentioned in the 4CB analyses the bundling activation/deactivation requirement will slow the performance because of an additional time consuming process due to new checks if RTS bundling is active or not.
 - Please be aware that for RTS files only the file channel will be taken into account (same as for NTS files).
 - Setting for receiving bundled messages will be recorded in an Attribute Domain maintained by the T2S Operator based on requests received by the users.
 - One or two new business day event(s) might be required to handle the deactivation of the bundling at specific moments of the business day.
 - From 4CB point of view volume tests are recommended to evaluate the magnitude of the impact on performance.

- **Open issues/ questions to be clarified by the originator:**
 - **Deactivation period:** An exact timeframe before and after DVP cut-off must be specified by the customers prior to the launch of the detailed assessment.
 - The **maximum number of messages** that will be bundled into one file and **the elapsed time** are currently not defined. These parameters should be specified prior to the launch of the detailed assessment from user side. In order to minimise a negative impact on T2S overall, 4CB might provide different values as result of the detailed assessment.
 - Moreover, it is essential to know **how many and which CSDs are going to use the CR functionalities prior the launch of the detailed assessment (indicative) and prior the start of user testing (confirmed)?** This information is also needed to proactively inform the NSPs SWIFT and SIA for potential adjustments on their side.
 - 4CB simplification proposal in view of the parallel bundling during Night Time Settlement to have only the NTS bundling and those messages not subject to NTS bundling sent as single messages.
 - As the detailed list of messages in scope and out of scope of bundling is very long 4CB propose to include only the provided list of exclusions in the UDFS.

EUROSYSTEM ANALYSIS – GENERAL INFORMATION

Impact On T2S	Static data management		Interface	
		Party data management		Communication
		Securities data management	X	Outbound processing
		T2S Dedicated Cash account data management	X	Inbound processing
		Securities account data management		
	X	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
				Status management
	Operational services			Instruction matching
		Data Migration		Instructions maintenance
	X	Scheduling	Statistics, queries reports and archive	
		Billing		Report management
		Operational monitoring		Query management
			X	Statistical information
			X	Legal archiving
	X	Settlement Day		
		All modules (Infrastructure request)		
		No modules (infrastructure request)		
	Business operational activities			
	Technical operational activities			

Impact on major documentation		
Document	Chapter	Change
Impacted GFS chapter	3.2.1 General Introduction	Update Overall Diagram A2A to introduce new function
	3.2.5.2 Diagram of the module	Update the Diagram of the module to introduce new function
	3.2.5.3 Description of the functions of the module 6 – A2A Message Sequencing	Update receiving function
	3.2.5.3 Description of the functions of the module 7 – File Bundling	Introduce new part to describe the File Bundling function
	3.2.5.3 Description of the functions of the module 7 – Create A2A Outbound Communication	Renumber function
Impacted UDFS chapter	1.3.1.5 Common rules for messages and files addressing	Introduce optional bundling functionality; wording proposal see above
	1.6.4.1.3 Status management process	Introduce optional bundling; wording proposal see above
	1.7.6 Store and Forward communication (Reports, notifications)	Reference the optional bundling functionality as described above
Additional deliveries for		

Message Specification			
UHB			
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			
<p>Since the Change Request will create a new functionality in T2S for the bundling of outbound messages in files during the Real Time Settlement window, 4CB propose to categorise this Change Request as scope enhancement (in line with the categories agreed in the CRG meeting on 26 March 2018 and the CSG meeting on 12 April 2018).</p> <p>As the bundling of outbound messages into files provides several benefits like for example cost reduction and better capacity optimization a new bundling during the whole day will be implemented. Therefore T2S offers the possibility for each Party to opt for the bundling of outbound messages during the whole business day. There are two exceptions during the business day: the maintenance window and the period close to the DVP cut off. During this time the file bundling is deactivated and outbound messages are sent in real time. The bundling deactivation is scheduled 30 minutes before the scheduled time of the first currency-dependent IDVP (default at 3:30 p.m.).</p> <p>The deactivation period should last until the last occurrence of the currency dependent event "End of Intraday DVP cut-off" (EDVP).</p> <p>The NTS bundling will not be subject to this new bundling feature.</p> <p>Following standard parameters will apply for the bundling:</p> <ul style="list-style-type: none"> • maximum number of messages should be 1000 and • elapse time should be 2 minutes. <p>These parameters are equal for all parties who opt for the service.</p> <p>The files are sent via the file channel to the Party technical address defined in the default routing configuration.</p> <p>The bundling function is offered for all outbound messages, excluding the following ones:</p> <ul style="list-style-type: none"> ▪ Query responses; ▪ Reports; ▪ Admi.007; ▪ Inbound processing rejections; ▪ Error messages sent from the backend. <p>Main Cost Drivers</p> <p>Interface:</p> <p>The main cost driver of this CR is the implementation of a new bundling process which will complement the already existing NTS bundling offering the customer the possibility to receive outbound communications encapsulated in files. A complete test campaign to test this new functionality and a regression test campaign need to be performed. There is a not negligible impact referring the updates of concepts as the whole T2S outbound communication has to be restructured and updated. Particularly the detailed description of the new file bundling functionality with all special conditions (standard parameters, activation/ deactivation period, opting and not opting possibility) and their differentiation to the already existing NTS file bundling process has to be specified.</p> <p>Additionally, it is recommended to execute a volume test campaign, as close as possible to production conditions, with user participation to identify the risks and impact on the performance of the application which might be particularly relevant in the NTS due to the coexistence of the already existing file bundling.</p> <p>No impact in U2A is foreseen.</p> <p>The main cost driver on test side is the high number of messages that is impacted by this CR. The new file bundling has to be tested for all relevant messages and message usages during different phases of the T2S Settlement Day (an overview of the messages can be found in the Excel file attached to the CR). For regression purposes all messages that should not be included in the new bundling mechanism need to be tested as well. Furthermore the maximum number of messages per file, the elapse time and the correct differentiation between users opting for the new service and users not opting for it need to be tested.</p>			
Summary of project risk			
None.			
Security analysis			
No adverse effect was identified during security assessment.			



EUROPEAN CENTRAL BANK

EUROSYSTEM

DG - MARKET INFRASTRUCTURE & PAYMENTS

ECB-PUBLIC



22 May 2018

Cost assessment on Change Requests

T2S-613-URD – T2S should give the possibility to receive outbound T2S messages bundled in files			
One-off	Assessment costs*		
	- Preliminary	2,000.00	Euro
	- Detailed	10,000.00	Euro
One-off	Development costs	586,753.02	Euro
Annual	Operational costs		
	- Maintenance costs	48,703.68	Euro
	- Running costs	0.00	Euro

*The relevant assessment costs will be charged regardless of whether the CR is implemented (Cf. T2S Framework Agreement, Schedule 7, par. 5.2.3).