



EUROPEAN CENTRAL BANK

EUROSYSTEM

T2S CHANGE REQUEST FORM		
General Information (Origin of Request) <input checked="" type="checkbox"/> User Requirements (URD) or GUI Business Functionality Document (BFD) <input type="checkbox"/> Other User Functional or Technical Documentation (SYS)		
Request raised by: 4CB	Institute: 4CB	Date raised: 30/03/2021
Request title: New option for opening T2S during the week-end		Request No.: T2S 0762 URD
Request type: Common	Classification: Scope enhancement	Urgency: Fast-track
1. Legal/business importance parameter¹: High	2. Market implementation efforts parameter²: High	
3. Operational/Technical risk parameter³: Medium	4. Financial impact parameter⁴: Very high	
Requestor Category: Eurosystem	Status: Implemented	

Reason for change and expected benefits/business motivation:

During the analysis conducted by ECB/4CB teams related to EFi migration, it was identified that on an exceptional basis a very high volume - up to 1,7 million - of settlement instructions may need to be processed in T2S.

Such high volume of transactions (higher than the daily average of transactions currently settled in T2S) requires to be processed during the NTS settlement period which is tailored for processing them using adequate mechanisms in T2S (settlement in batch processing, NTS algorithms, NTS cycles & sequences).

However, these massive volumes – due to the time needed for their injection- cannot enter T2S and be ready for settlement attempt before NTS starts at 20:00.

One solution was therefore considered to rely on the T2S MOP⁵ procedures for opening T2S during the weekend that is usually reserved for deployment weekends, specific testing activities or for processing exceptional events, e.g. high-volume Corporate Actions (CA) events.

As per this procedure, each of these opening options need to be communicated and agreed by the Operational Managers Group at least 3 months in advance. However, during the discussion of the T2S OMG, it was identified that this procedure was not suitable to cover the business scenario identified here above, as the notification period of 3 months could not be observed⁶.

Considering the constraints above, the 4CB are requested to design a new option for opening T2S during the weekend under the following conditions:

- First condition: to allow the settlement under NTS mode of high volumes (related to CA or not) unable to be ready for settlement at the start of the regular NTS at 20:00 (hereafter named as *NTS Late Peak Volumes transactions or NLPV transactions*);
- Second condition: to keep the regular NTS starting at 20:00 running as usual for all other activities;
- Third condition: to keep settlement available for all other activities at the end of the regular NTS while waiting for the NLPV transactions to be settled in an ad-hoc NTS window. In case NTS cycles are used during this waiting period the duration of each of these cycles must be scheduled for a maximum of 15 min.

This new solution is expected to be available only during the weekend and triggered under an operational procedure to be included in the MOP at the implementation phase.

The detailed assessment of the CR showed that it's not possible to establish *a priori* a threshold of settlement instructions to be processed as of which the activation of the procedure on the weekend is recommended. Since

¹ Legal/business importance parameter was set to High because it will improve the stability of T2S in case of peaks in settlement volume

² Market implementation effort parameter was set to High because it could require implementation efforts for all T2S actors to handle the additional weekend processing and related communications.

³ Operational/technical risk parameter was set to Medium because even if the changes are made on the T2S settlement module, they apply only in very specific scenarios (exceptionally high volumes to settle in NTS but unavailable for NTS starting at 20:00)

⁴ Financial impact parameter was set to Very High according to the following scale: 700kEUR < Very high

⁵ MOP: Manual of Operational Procedure

⁶ According to the Finnish law (Act on limited liability companies, article 5.19) the general meeting invitations need to be sent minimum of three weeks in advance.

other operational procedures can be invoked, and provided that the NTS is the phase of the Operating Day when the volumes have to be settled, the elements to be considered for such assessment are (at least):

- The number of instructions and relevant duration of injection by the requesting CSD;
- The maximum acceptable delay in the start of the NTS Sequence 1 on the specific date (to be decided by the Settlement/Crisis Managers);
- The maximum acceptable delay in the completion of the NTS and NTS reporting on the specific date (to be decided by the Settlement/Crisis Managers).

Such complex assessment needs to be done on a case-by-case basis, in a holistic exercise that will have to take into account both technical and business variables (e.g. overlapping business activities on the part of other Actors). An additional finding of such a case-by-case assessment might be that the mandatory maintenance window for that particular weekend needs to be delayed⁷. Even though this will not be the case for every usage of the procedure, the possibility needs to be foreseen.

The detailed operational procedure is to be defined by the OMG and reflected in the MOP. The objective will be to ensure that this procedure is activated only in very exceptional / necessary situations, considering the impacts of opening on weekends on the T2S community.

The existing weekend activities are important e.g. to match ECB ITSC testing requirements, enable disruptive infrastructure changes, hardware changes, network changes, rotations etc. The additional windows will then require reprioritise scheduled activities on short notice and in consequence a currently very stable CYC (common yearly calendar) will become fluid, making it necessary to implement a new approach on setting and managing CYC dates.

The following list describes a proposal of categorization from the point of view of the 4CB, notwithstanding the need for the OMG to agree on the final categorization and reflect it in the dedicated operational procedure.

Weekend activities are categorized in:

1. Activities considered as unmovable by the 4CB: These activities are either highly critical to be processed in a certain time period or fixed by contractual obligations. Activities of these kind are known at least 3 months in advance (hot fixes or security breaches excluded) and can be made transparent. Activities considered as unmovable or that are too expensive to move are, for example (non-exhaustive list):
 - o T2S major and minor releases (4x per year)
 - o T2 releases (2x per year; these are the same dates as for T2S and it is unlikely that they will be ever separated)
 - o Rotation weekend (1-2x per year)
2. Activities that are movable with high effort (e.g. ITSC tests, SW maintenance) which are usually carried out on Saturdays that require Sundays as a fall-back option to repair possible defects to guarantee operation on the next business day. Shifting those activities will cause high effort in communicating with the market or vendors and may generate additional operational risks that will need to be assessed and accepted by the 4CB and OMG.
3. Other: Activities, generally be movable, but still lead to extra effort for the affected parties to re-plan their activities and will cause effort for the change calendar managers to find a suitable time slot.

The request to activate T2S settlement on weekends with a 3 weeks notice and its impacts are assessed by the OMG.

The development of this CR does not preclude the use of the other options for opening during the weekend which are already included in the MOP.

The assumptions, e.g. that the described procedure will be activated once a year, would be re-evaluated on a regular basis (e.g. every three years), based on the most updated view of the needs of the T2S community.

Description of requested change:

Overview

In order to meet the three required conditions, the solution proposed shall comply with the following rationale and

⁷ A conservative estimate of the most extreme scenario would lead to a delay of the mandatory maintenance window of less than 2 hours. If the additional NTS cycles are completed before the replanned start time of the maintenance window, T2S enters RTS mode until that time. If the additional NTS cycles are not completed by the time the start of the MW had been replanned, the activities planned during the MW could be postponed.

features for its implementation:

- For all conditions: NTS late peak volumes transactions shall be identified by a CSD willing to trigger this procedure. As such this CSD will inject these volumes in ad-hoc periods defined in the procedure and will set-up the appropriate intraday restrictions requested in this procedure at CSD level, at ISIN level or at ISO transaction code level.
- For condition 1: confirmation that the NLPV transactions – i.e. not available for settlement at the regular NTS starting at 20:00 with Cycle 1 & 2 (hereafter called *Regular NTS*) - must be processed into additional NTS settlement cycles (hereafter called *Additional Standard NTS cycles*) as these cycles are tailored for high volumes and also as they are able to handle any type of CA booking scheme without the constraints related to a RTS settlement (e.g. linked instructions limited to 2500).
- For condition 2: need to run such *Additional Standard NTS cycles* for NLPV transactions after the following processes have been completed:
 - *Regular NTS*, kept at 20:00 on Fridays⁸ for all CSDs;
 - Injection of NLPV transactions (starting after completion of the *Regular NTS*, so as to avoid any impact of the massive volume injected on the *Regular NTS*);
- For condition 3: confirmation that NTS shall also be used in order to settle the regular CSD activity during the time the NLPV transactions are injected. Actually since the order NTS-RTS-NTS is not compatible with the current T2S operational day, this settlement has also to be carried out during this period through NTS cycles composed of a single sequence (hereafter called *Short NTS cycles*) in order to be as close as possible to RTS settlement.

As a consequence of the aforementioned, the following changes are proposed:

- during the weekend and upon triggering of a procedure to be created in the MOP
 - run the *Regular NTS* starting at 20:00;
 - inject the NLPV transactions in T2S only after the end of the *Regular NTS* (to avoid any negative impact or delay in the *Regular NTS* due to the massive injection of NLPV transactions);
- The NLPV transactions must be:
- sent as already matched instructions (hence no allegation is created);
 - In case the associated instructions are not sent as already matched, the time required to have the transactions ready to be settled, i.e. business validation (of two sese.023 instead of one sese.023 per transaction), allegation generation and matching of the instructions to create the transaction, could be doubled, thus delaying the start of the *Additional Standard NTS cycle*;
 - put under Intraday Restriction⁹ (IR) until all NLPV transactions are available for the *Additional Standard NTS cycles*. Those transactions will therefore be considered as not eligible to *Short NTS Cycles* (meaning that SETT will not create any communication towards LCMM for the update of the involved instructions or creation of the corresponding status advice messages to inform that they are unsettled due to the IR).
- run the *Short NTS cycles*, as dedicated NTS single-sequence cycles triggered by new events, while NLPV transactions are injected, in order to handle remaining unsettled and new arriving instructions from all CSDs excluding NLPV transactions whose ISINs are under IR.
 - run an *Additional Standard NTS cycle* to settle NLPV transactions, once the associated instructions are fully injected, validated and hence available for settlement together with any other CSD transactions presented for settlement. This *Additional Standard NTS cycle* shall run under the same features as the *Regular NTS*.

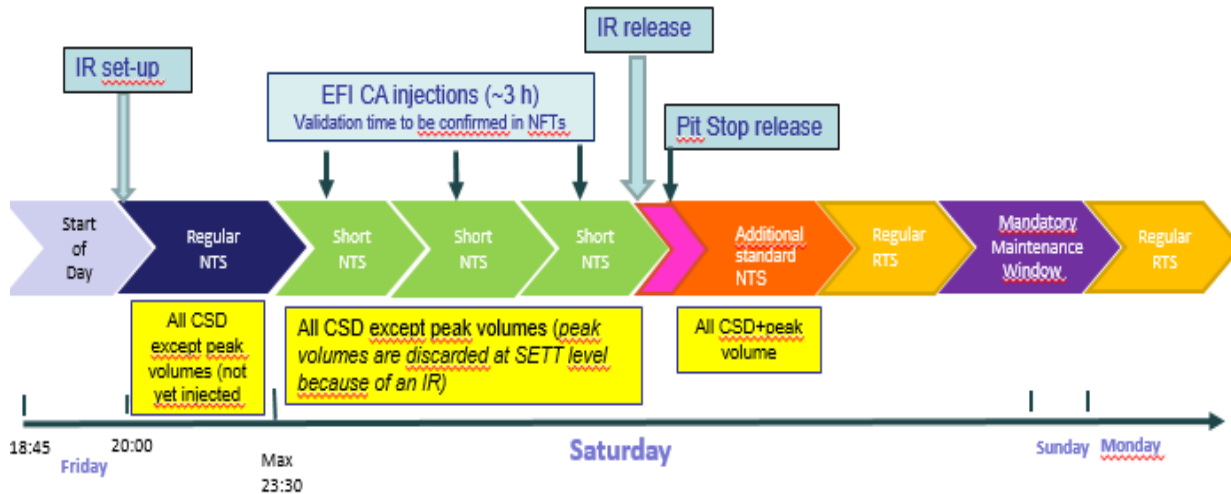
Process description

The new weekend NTS process shall only be used upon request in the frame of an operational procedure defined in the MOP.

The following diagram shows the ad-hoc settlement day period applicable when triggering this procedure:

⁸ Or Thursday if the related Friday is a T2S closing day

⁹ NTS late peak volumes will be identified as such by the CSD willing to trigger the associated procedure. As such they will put these transactions under intraday restriction at CSD level or per ISIN or for corporate actions ISO Transaction Code.

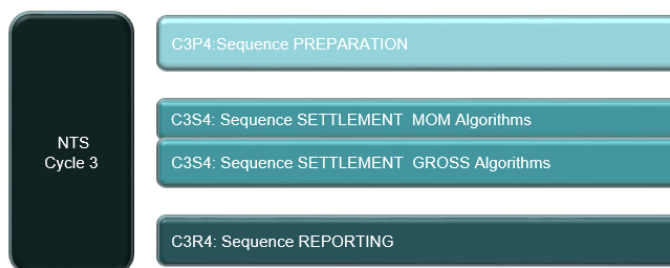


See in Annex for further details the high-level description of the operational procedure.

Features of the new Short NTS cycles

These cycles shall have the following features:

- They will include new repetitive cycles (C3), each composed of the same sequence 4, with (i) the same transaction selection criteria (excluding NLPV transactions under IR) and (ii) the same algorithms as for the regular NTS sequence C2S4.
The number of the NTS short cycles to be run cannot be known in advance and will depend on the time needed for the injection and the business validation of the already matched instructions for the NLPV transactions and, potentially, of the instructions for other CSDs.
- They will include new dedicated events issued from the scheduler module to trigger the cycles and their related processes, mainly the usual phases of sequence, i.e. preparation (C3P4), settlement (C3S4) and reporting (C3R4).
- They will send new camt.019 at the beginning of the first NTS Short cycle. The second and the following cycles will not be announced by an additional camt.019.



- They will provide the reporting of the settlement results, which include the sending of status advices and confirmations, in a normal NTS bundling communication, but excluding the reporting in the sequence of

status advices for unsettled NLPV instructions whose transaction is under IR¹⁰ (in order to avoid massive reporting)

- They will NOT allow to subscribe at the end of the cycles to normal ISO report generation (semt.002, semt.018...) and to flat file reports
- They will comply with the requirement to have Short NTS cycles scheduled for a maximum of 15 minutes with the following implementation:
 - a Short NTS cycle to start every 15mn, and
 - in case a cycle takes less than the estimated 15 minutes and the scheduled time of the following cycle has not been reached, the next cycle will only start at its scheduled time
 - in case a cycle takes longer than the estimated 15 minutes (i.e. the scheduled time of the following cycle has been reached) the following cycle starts immediately after the end of the previous cycle
 - the ongoing Short NTS cycle process should come smoothly to an end and complete the cycle, before the Additional Standard NTS is launched by the scheduler (to be described in the operational procedure).

Features of the Additional Standard NTS cycle

This cycle replicates the features of the current existing NTS cycles:

- including two cycles (C4 and C5) composed of all standard sequences as in the *Regular NTS* (i.e. same design and features¹¹).
- providing the reporting of the settlement results, which include the sending of status advice and confirmations, in a normal NTS bundling communication
- allowing to subscribe at the end of each sequence to normal ISO report generation (semt.002, semt.018...) subject to the standard ISO report configuration¹²
- allowing to subscribe at the end of each cycle to intraday delta flat file reports (semt.002, semt.018...) subject to the flat file report configuration defined with CR-752 that implements this functionality¹³.
- Sending the camt.019 at the beginning each cycle (C4 and C5), allowing to know which cycle the settlement is following.

The creation of these three new standard cycles (C3, C4, C5) will imply that three new status codes have to be created and reported both by Business Day Management (BDM) and T2S Interface (INTF), as follows:

- In "push" mode: T2S INTF sends a camt.019 "*ReturnBusinessDayInformation*" upon transitioning to the next cycle.
- In "query" mode: BDM sends a camt.019 "*ReturnBusinessDayInformation*" message in response to a camt.018 "*GetBusinessDayInformation*" message to query the status of the settlement day.

Due to the related high-volume transactions scenario of this new enhancement, the corresponding non-functional tests will have to be performed to make sure that all impacts are properly covered by this change requests.

Submitted annexes / related documents:

- CR-752: This change request is needed to allow flat file reporting during the *Additional Standard NTS cycles*. I.e.: This CR can be delivered before CR-752, but in this case no flat file reporting will be available for the *Additional Standard NTS cycles*.

Outcome/Decisions:

*CRG on 16 June 2021: the CRG agreed to recommend CR-762 for T2S Steering Level authorisation following a fast-track approach.

¹⁰ The procedure shall include the creation of a table listing the CSD injecting NLPV transactions and the IR used. This allows to identify the IR to be excluded for this reporting.

¹¹ Settlement Instructions, Settlement Restrictions and Liquidity Transfers will be eligible to the *Additional standard NTS cycles* C4 and C5 as they are in standard NTS cycles C1 and C2

¹² The corresponding ISO report configuration needs to be performed only once e.g. upon implementation of the CR. Once configured, every time the *Additional Standard NTS cycle* is triggered, the reports will be generated if configured for the relevant parties.

¹³ The corresponding flat file report configuration needs to be performed only once e.g. upon implementation of the CR. Once configured, every time the *Additional Standard NTS cycle* is triggered, the intraday delta flat file reports will be generated if configured for the relevant CSDs.

- *AMI-SeCo on 28 June 2021: the AMI-SeCo agreed with the CRG recommendation of CR-762 for T2S Steering Level authorisation.
- *CSG on 28 June 2021: the CSG agreed to authorise CR-762.
- *NECSG on 28 June 2021: the NECSG agreed to authorise CR-762.
- *PMG on 02 July 2021: the PMG agreed to launch the detailed assessment of CR-762 in view of scoping in R7.0.
- *MIB on 14 July 2021: the MIB agreed to authorise CR-762.
- *CRG on 4 March 2022: the CRG agreed to recommend to the PMG the inclusion of CR-762 in the scope of R7.0
- *OMG on 8 March 2022: the OMG identified an operational impact from the inclusion of CR-762 in R7.0
- *PMG on 10 March 2022: the PMG agreed to recommend the inclusion of CR-762 in the scope of R7.0
- *CSG on 18 March 2022: the CSG approved the inclusion of CR-762 in the scope of R7.0
- *NECSG on 18 March 2022: the NECSG approved the inclusion of CR-762 in the scope of R7.0
- *MIB on 21 March 2022: the MIB approved the inclusion of CR-762 in the scope of R7.0
- *CRG on 25 August 2022: the CRG agreed to approve the wording updates on CR-762 covering two new requirements: the BDM camt.019 plus the execution of non-functional tests.
- *PMG on 31 August 2022: the PMG requested the detailed reassessment of CR-762 in view of R7.0
- *CRG on 26 October 2022: the CRG agreed to recommend to the PMG the inclusion of CR-762 in the scope of R7.0.
- *PMG on 26 October 2022: the PMG agreed to recommend the inclusion of CR-762 in the scope of R7.0
- *MIB on 16 November 2022: the MIB approved the inclusion of CR-762 in the scope of R7.0.
- *CSG on 17 November 2022: the CSG approved the inclusion of CR-762 in the scope of R7.0
- *NECSG on 18 November 2022: the NECSG approved the inclusion of CR-762 in the scope of R7.0.

Documentation to be updated:

Impact on message documentation on MyStandards / schema:
[admi.005.001.01:](#)

Update of EventTypeCode_T2S_1

UDFS:

Update of chapter 4.2.2 T2S proprietary codes

CODE	NAME	DEFINITION
BATM	Intraday BATM cut-off	Intraday BATM cut-off
...
SSRC	Intraday securities settlement re- strictions cut-off	Intraday securities settlement restrictions cut-off
...
<u>C4R0</u>	<u>Start of cycle 4 / Settlement reporting of Sequence 0</u>	<u>Start of cycle 4 / Settlement reporting of Sequence 0</u>
<u>C4R1</u>	<u>Start of cycle 4 / Settlement reporting of Sequence 1</u>	<u>Start of cycle 4 / Settlement reporting of Sequence 1</u>
<u>C4R2</u>	<u>Start of cycle 4 / Settlement reporting of Sequence 2</u>	<u>Start of cycle 4 / Settlement reporting of Sequence 2</u>
<u>C4R3</u>	<u>Start of cycle 4 / Settlement reporting of Sequence 3</u>	<u>Start of cycle 4 / Settlement reporting of Sequence 3</u>

<u>C4R4</u>	<u>Start of cycle 4 / Settlement reporting of Sequence 4</u>	<u>Start of cycle 4 / Settlement reporting of Sequence 4</u>
<u>C5R4</u>	<u>Start of cycle 5 / Settlement reporting of Sequence 4</u>	<u>Start of cycle 5 / Settlement reporting of Sequence 4</u>
<u>C5RX</u>	<u>Start of Cycle 5 / Settlement Reporting of Sequence X</u>	<u>Start of Cycle 5 / Settlement Reporting of Sequence X</u>
<u>C5RY</u>	<u>Start of Cycle 5 / Settlement Reporting of Sequence Y</u>	<u>Start of Cycle 5 / Settlement Reporting of Sequence Y</u>
<u>C5RZ</u>	<u>Start of cycle 5 / Settlement reporting of Sequence Z</u>	<u>Start of cycle 5 / Settlement reporting of Sequence Z</u>

camt.019.001.07:

Update of Exact4AlphaNumericText_STAT_T2S

UDFS:

Update of chapter 4.2.2 T2S proprietary codes

CODE	NAME	DEFINITION
EODP	End of Day period	EODP
FNTC	First night-time cycle	FNTC
FNTS	Final message for night-time settlement	FNTS
LNTC	Last night-time cycle	LNTC
MTNW	Maintenance window	MTNW
RTMC	Real-time settlement closure	RTMC
RTMS	Real-time settlement	RTMS
SODP	Start of Day period	SODP
NOMW	No maintenance window	NOMW
<u>3NTC</u>	<u>C3 night-time cycle</u>	<u>3NTC</u>
<u>4NTC</u>	<u>C4 night-time cycle</u>	<u>4NTC</u>
<u>5NTC</u>	<u>C5 night-time cycle</u>	<u>5NTC</u>

Add clarification in UDFS that intraday Flat File reports can't be subscribed for the events related to the new NTS Short Cycles.

1.6.4.3 Flat File Report Generation for CSDs

1.6.4.3.2 Overview

(...)

Each of the characteristics of a report is described in the following section, but it is worth highlighting the following:

For Instructions and Holdings related reports, the moment of data extraction is determined by existing business events:

- The business event that triggers the generation of the full reports is the end of the Night time Settlement. In case of processing peak during this time window, the generation of the flat file report will continue till completion.
- The delta reports are always triggered at the EoD with the same timing than the ISO reports in order to ensure the same data scope for both modes. Additionally, CSDs can opt for receiving, at some or at all of additional triggering business events, intraday delta reports i.e. in addition to the delta reports triggered at the End of day. Therefore, the moment of data extraction for the intraday delta reports is determined by the following business events ^{FootnoteXX}:
 - End of Day for Delta reports, and additionally,
 - End of First Night Time Settlement Cycle,
 - End of Second Night Time Settlement Cycle,
 - End of Fourth Night Time Settlement Cycle of the additional standard NTS and
 - End of Fifth Night Time Settlement Cycle of the additional standard NTS.

(...)

FootnoteXX: It is not possible to opt to receive this reports at the end of none of the NTS Short Cycles.

1.4.2 T2S schedule

T2S allows such a change under the following conditions:

I The sequence and order of events (predecessors and/or successors events) in T2S must remain unchanged, i.e. a currency dependent cut-off cannot be delayed beyond a successor scheduling event if this would have an impact on T2S processing (e.g. a CBO cut-off for Danish Krone cannot be extended beyond the EOD cut-off for T2S, which is the successor in the scheduling). This includes no additions or removals of events, no changes in event ordering and no change in event dependencies;

I In the exceptional cases that T2S experiences a general issue across all currencies, it could be necessary that the T2S Operator would need to extend the EOD cut-off (e.g. the T2S revised times would apply). In this case, T2S ensures the sequence of currency independent cut-offs (securities Settlement Re-18 striction cut-off and FOP cut-off) is not changed. The procedures to apply in case of such an event are to be defined in the T2S MOP.

In the exceptional cases that T2S experiences the arrival of late peak volume transactions on Friday evening that are not available for settlement at the regular NTS, the T2S Operator would need to process into additional NTS cycles. The procedure to apply in case of such an event are defined in the T2S MOP.

1.4.4.2 Night-time settlement (NTS)

The NTS period starts after the successful completion of the SOD period and is followed by the maintenance window and the real-time settlement period.

In the exceptional cases that T2S experience the late arrival of late peak volume transactions on Friday evening that are not available for settlement at the regular NTS, the peak volume transactions should be sent after the NTS. In that case, short NTS cycles are triggered by the T2S Operator during the injection of the late peak volume transactions put under Intraday Restriction. At the end of the injection, the T2S Operator triggers an Additional NTS cycle. The exact procedure with the timing to apply in case of such an event are defined in the T2S MOP.

URD.

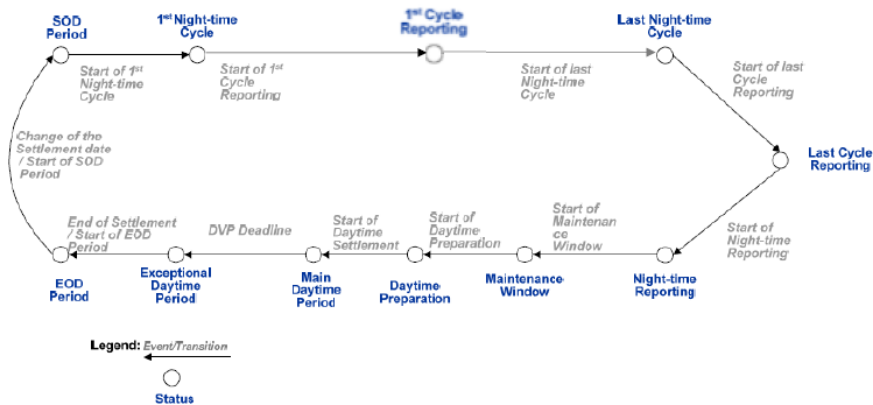
1. Update T2S.03.010 – wording update plus additional graphic.

3.1.2.1 Management of the settlement day

Management of the settlement day periods

Reference ID	T2S.03.010
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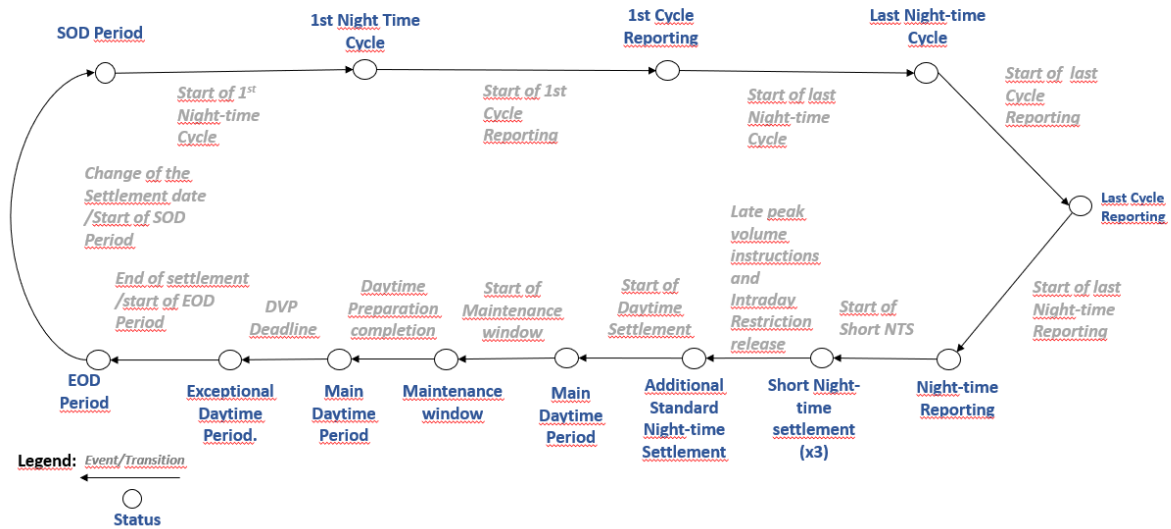
T2S shall assign a status to the schedule of the settlement day. The value of this status corresponds to the ongoing period or main process of the settlement day. The following diagram represents the successive schedule statuses during the settlement day and the events triggering the change of status:



T2S shall assign a status to the schedule of the settlement day. The value of this status corresponds to the ongoing period or main process of the settlement day. The following two diagrams represents the successive schedule statuses during the possible settlement days and the events triggering the change of status. The first one depicts the standard settlement day period and the second one corresponds to the exceptional settlement day period for high volumes (namely “Late peak volume instructions”)

Include an additional graphic:

T2S Exceptional Settlement day period
For late peak volumen instructions.



- Update T2S.03.100 – Wording updates.

Night-time settlement cycles

Reference ID	T2S.03.100
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The night-time settlement shall include two settlement cycles with minimal time gaps between them. The duration of the night-time cycles shall depend on settlement volumes. In this context, 22:20 and 00:00, the times by which T2S shall provide the reports and settlement related messages of the first night-time cycle and the last night-time cycle respectively, are purely indicative.

The night-time settlement shall include...at least... two settlement cycles with minimal time gaps between them.

- Include an additional requirement, T2S.03.136.

Additional Night-time settlement cycles for Late peak volume instructions.

Reference ID	T2S.03.136
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In exceptional cases that T2S foresees the arrival of high volumes that are unable to be ready for settlement at the start of the first night time settlement cycle, T2S shall be able to schedule additional night time settlement cycles so that these instructions can be injected and settled before the maintenance window starts.

- Update T2S.07.070 – wording updates.

26 **7.2.1.3 Additional night-time settlement cycles**

Reference ID	T2S.07.070
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27 T2S shall run at least a second settlement cycle during the night. As for the fourth sequence of the
28 first night-time settlement cycle, the additional settlement cycle(s) shall submit to settlement:

Version: 9.2

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T2S User Requirements – Chapter 7 – Settlement processing requirements

- 1 • all new instructions with the current intended settlement date entered into T2S after the launch
2 of the previous night-time settlement cycle and before the launch of the relevant cycle; these
3 instructions include, for instance, securities instructions providing securities liquidity via lending
4 (securities lending), that are aimed at settling instructions that could not settle in an earlier
5 settlement attempt;
- 6 • all recycled instructions that could not be settled through an earlier settlement attempt; these
7 recycled instructions cover all instructions that could not be settled in the previous night-time
8 cycle(s), including trading-related instructions, corporate action instructions, FOP rebalancing
9 and operations with central banks that could not be settled during the first settlement cycle.
- All late peak volume instructions received on exceptional cases during the last business day before the weekend and that are not available for settlement at the regular night-time settlement.

Preliminary assessment:

Not performed as proposed for fast track

Detailed assessment:

EUROSYSTEM ANALYSIS – GENERAL INFORMATION

T2S Specific Components		Common Components
LCMM		
	Instructions validation	
X	Status management	
	Instruction matching	
	Instructions maintenance	
	Penalty Mechanism	
Settlement		
X	Standardisation and preparation to settlement	
X	Night-time Settlement	
	Daytime Recycling and optimisation	
X	Daytime Validation, provisioning & booking	
	Auto-collateralisation	

Liquidity Management			
	Outbound Information Management		
	NCB Business Procedures		
	Liquidity Operations		
T2S Interface (as of June 2022 without Static Data Management, Communication for SDMG, Scheduler, Billing)		Eurosystem Single Market Infrastructure Gateway (from R6.0 June 2022)	
	Communication		Communication
X	Outbound Processing		Outbound Processing
	Inbound Processing		Inbound Processing
Static Data Management (until June 2022)		Common Reference Data Management (from R6.0 June 2022)	
	Party data management		Party data management
	Securities data management		Securities data management
	Cash account data management		Cash account data management
	Securities account data management		Securities account data management
	Rules and parameters data management		Rules and parameters data management
Statistics and archive		Statistics and archive	
	Statistical information (until June 2022)		Short term statistical information
	Legal archiving (until June 2022)		Legal archiving (from R6.0)
			Data Warehouse (from R6.0)
Information (until June 2022 containing reference data)		CRDM business interface (from R6.0 June 2022)	
X	Report management		Report management
	Query management		Query management
			Communication
			Outbound Processing
			Inbound Processing
Operational Services			
	Data Migration (T2S DMT)		Data Migration (CRDM DMT, from R6.0)
X	Scheduling (until June 2022)		Business Day Management (from R6.0)
			Business Day Management business interface (from R6.0)
	Billing (until June 2022)		Billing (from R6.0)
			Billing business interface (from R6.0)
	Operational Monitoring		Operational and Business Monitoring
	MOP Contingency Templates		

Impact on major documentation		
Document	Chapter	Change
Impacted GFS chapter		
Impacted UDFS chapter	4.2.2 T2S proprietary codes	New events to be added
	1.6.4.3 Flat File Report Generation for CSDs	Include a note clarifying that it is not possible to subscribe to intraday flat file reports at the end of none of the NTS Short Cycles
	1.4.2 T2S schedule	Add that the T2S scheduler can be modified to add additional NTS settlement cycles in the week-end to manage late peak volume transactions.

	1.4.4.2 Night-time settlement (NTS)	Add the description of the extraordinary week-end NTS settlement cycles and sequences for late peak volume transactions.
Additional deliveries for Message Specification (UDFS, MyStandards, MOP contingency templates)	Update of adm.005 on My Standards Update of camt.019 customisation for T2S on My Standards (already scope of 1 st CR DA) Update of camt.019 customisation for BDM on My Standards (previously in CSLD CR-0105)	New events to be added Introduction of three new status codes. Introduction of three new status codes.
UHB		
Impacted GDPR message/ screen fields		No impact
External training materials		
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>Three new NTS cycles are created with this Change Request to be run during the week-end in case T2S receives high volumes (related to Corporate Actions or not) unable to be ready for settlement at the start of the regular NTS at 20:00. A procedure is needed to describe the activation of these new week-end cycles and the related sequence of events.</p> <p>In addition, further adaptations are necessary, as three new NTS cycles will be created with this Change Request.</p> <p>At the beginning of the new cycles (C3, C4 and C5), a Camt.019 "System Status Notification" informs about the current system status of T2S. For this, three unique new status codes are defined.</p> <p>With the Change Request, two new camt.019 final NTS (FNTS) messages will be implemented. In case of activation of the additional NTS phases the following camt.019 FNTS will be sent:</p> <ol style="list-style-type: none"> 1) First camt.019 FNTS will be sent after regular NTS has finished and will report the number of generated NTS files of C1+C2 2) Second camt.019 FNTS will be send after C3 short cycles are finished and will report number of generated NTS files of C3 3) Third camt.019 FNTS will be send after the additional NTS has finished and will report the number of generated NTS files of C4+C5 <p>The procedure for the normal T2S days without additional NTS phases will not change. Only one camt.019 FNTS reporting the number of NTS files for regular NTS (C1+C2) will be provided to the customer as it is currently done.</p> <p>Detailed reassessment October 2022 to align T2S-0762-URD with CSLD-0105-URD</p> <p>Following items have been added to the detailed assessment:</p> <p>Update of the T2S camt.019 Usage Guidelines in MyStandards in the T2S repository in order to introduce three new status codes (3NTC, 4NTC and 5NTC) for the field /Document/RtrBizDayInf/RptOrErr/BizRpt/BizDayOrErr/BizDayInf/SysSts/Sts/Prtry/Id to be used in the T2S camt.019 business case System Status Notification, to represents the new cycles C3, C4 and C5 - already scope of 1st CR-0762 DA.</p> <p>Update of the BDM camt.019 Usage Guidelines in MyStandards in the T2S and in the T2-CoCo in order to introduce three new status codes (3NTC, 4NTC and 5NTC) for the field /Document/RtrBizDayInf/RptOrErr/BizRpt/BizDayOrErr/BizDayInf/SysSts/Sts/Prtry/Id to be used in the BDM camt.019 as answer to the Status of the Settlement day Query, to represents the new cycles C3, C4 and C5 - previously included in CSLD CR-0105.</p> <p>To validate the performance for T2S also T2 teams have to participate in the NFT campaign - previously</p>		

included in CSLD CR-0105.

Main cost drivers:

Implementation costs:

- Implementation of new cycles and FNTS messages
- Description of new cycles to be added in the documentation
- Cutting the reporting of the NLPV transactions under Intraday restriction during short cycles (cycles 3): Information to identify NLPV concerned CSDs will be retrieved by implementing a new attribute domain, in order to not report on the related NLPV transactions under Intraday Restriction.
- A2A NTS framework update
- Reorganisation and management of Common Yearly Calendar activities
- Assess and restructure dependencies for technical maintenance window
- Optimisation of processes in order to ensure a smooth operation also in case of shortened or skipped weekly maintenance windows
- Parallelisation of processes in order to handle higher amounts of data, also on the next business days.

Running costs:

The running costs are based on the assumption that the described procedure will be activated once a year. This assumption will be re-evaluated on a regular basis, i.e. every three years. In case a more frequent activation of the procedure is required by the T2S community, it would be provided by 4CB at no additional cost.

- Fluid management of Common Yearly Calendar
- Re-planning of shifted activities per invocation of CA
- Support tasks

Impact on other TARGET Services and projects

No impact on TIPS, TARGET2 and ECMS.

Impact on T2 will be managed by T2 ICN , which will be included in editorial CR.

Summary of project risk

n/a

Security analysis

No adverse impact has been identified during security assessment.



17 October 2022

Cost assessment on Change Requests

T2S-762-SYS – New option for opening T2S during the week-end			
One-off	Assessment costs*		
	- Preliminary	2,000.00	Euro
	- Detailed	10,000.00	Euro
One-off	Development costs	1,055,614.26	Euro
Annual	Operational costs		
	- Maintenance costs	88,219.70	Euro
	- Running costs	374,896.86	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).