General Information (Origin of Request)			
☐ User Requirements (URD)			
☒ Other User Functional or Technical Documentation (SYS)			

Request raised by: Euroclear	**Institute:** CSD	**Date raised:** 19/01/2016

Request title: Increase the limit of distinct values for the parameters relating to message subscriptions	**Request ref. no:** T2S 0652 SYS

Request type: Common	**Classification**: Maintenance	**Urgency:** Normal

1. Legal/business importance parameter: Medium	**2. Market implementation efforts parameter:** Low
3. Operational/Technical risk parameter: Low	**4. Financial impact parameter:** Low-Medium
Requestor Category: CSD	**Status:** Allocated to a release

Reason for change and expected benefits/business motivation:

T2S platform allows all T2S Actors (CSDs, NCBs, DCPs) to create rules to configure their message subscriptions. This allows such actors to select the messages that they wish to receive from T2S, based on a pre-defined list of parameters. Each parameter can be linked to many distinct values. At system entity level, there is an overall limit of:
- 50 distinct values for each parameter linked to message subscriptions
- 1500 for message subscription configurations

Based on post migration experience, the limit of 50 distinct values for parameters limit is insufficient to manage efficiently the subscriptions.

Examples of current constraints:
- An actor wishes to receive copies of all inbound instructions created by its U2A users and the number of users exceeds 50
- Several DCPs belonging to the same system entity create message subscriptions using the same parameter; once the number of values for the same parameter exceeds the limit of 50, it is not possible to create additional subscriptions with this parameter. In addition, the CSD has no visibility on the number of values for parameters already consumed by its market and is not able to monitor this limit.

Therefore:
- there is a need to increase the limit from 50 to 100 for the distinct values of the same parameter

_____

Description of requested change:

The limit of distinct values that can bear a parameter used in a rule relating to message subscriptions should be increased from 50 to 100.

_____

Submitted annexes / related documents:

_____

Proposed wording for the SYS Change request:

UDFS v3.0 section 1.7.7 Limitations of the System – Rule-based configurations

Each rule can include many parameters. Within each rule, each parameter can be linked to many distinct values. The maximum overall number of distinct values for the active rule sets is:

l 100 for restriction types configurations;

l 50100 for message subscription configurations;

l 50 for conditional securities delivery configurations.

_____

High level description of Impact:

Update of UDFS section reporting the maximum number of distinct parameter values for message subscriptions.
Update of SDMG to align the business validation to the new limit value.

_____

Outcome/Decisions:

* CRG meeting on 24 January 2017: The CRG agreed to put the Change Request on hold.

* CRG meeting on 28 February 2017: The CRG recommended the launch of preliminary assessment on the Change Request.

* OMG on 14 March 2017: During a written procedure from 28 February - 14 March 2017, the Operations Managers Group did not identify any blocking operational impact of the Change Request.

* CRG meeting on 24 April 2017: The CRG took note of the T2S functionalities/modules impacted by the Change Request following the 4CB preliminary assessment.

* CRG meeting on 26 March 2018: The CRG recommended the launch of the detailed assessment in view of the T2S Release 3.0.

* CRG teleconference on 30 May 2018: The CRG agreed to recommend the Change Request to the CSG for approval and inclusion in T2S Release 3.0.

* 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 3.0

* PMG on 6 June 2018: the Project Managers Group (PMG) was in favour of adding the CR to T2S release 3.0 from a planning perspective

* AMI-SeCo written procedure ended 12 June 2018: AMI-SeCo members agreed to the CRG recommendation to approve CR-652 and its inclusion in the T2S release 3.0.

* CSG on 14 June 2018: the CSG adopted a resolution to approve CR-652 and its inclusion in the scope of T2S release 3.0.

_____

Preliminary assessment:

- **Impacted modules:** SDMG, Report and Query Management (tbc)

- **Findings:**

  Complementing the high-level assessment provided, it cannot be excluded without a volume test that the increase in the number of message subscriptions parameters might potentially have a performance impact.

- **Open issues/ questions to be clarified by the originator:**

  T2S should offer to CSDs a report that allows them to identify the current 'consumptions' of
  o   the message subscriptions by parameter
  o   the message subscriptions configurations

  We understand this request for the report on "the message subscriptions by parameter" is for a report on the current consumption of distinct parameter values for each parameter, i.e. the limit that this CR also intends to raise; is that correct? If so, please update the CR wording to clarify this.

  Please also clarify, what is meant by "Report": should it be a report to be configured in Report Configurations to be generated once a day? Or should this information be included in a query response? In case a query response is expected, please also specify whether additional information in the existing queries for Message Subscription Rules and Rule Sets would be sufficient or whether an additional query is expected.

  Our assumption is that this information should only be available in U2A.

  Depending on the feedback, the preliminary assessment might be adjusted.

	EUROSYSTEM ANALYSIS – GENERAL INFORMATION			

		Static data management		**Interface**	
Impact On T2S		Party data management		Communication	
		Securities data management		Outbound processing	
		T2S Dedicated Cash account data management		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	
		Scheduling		**Statistics, queries reports and archive**	
		Billing		Report management	
		Operational monitoring		Query management	
				X	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			
Impacted UDFS chapter	1.7.7 Rule-based configurations		Update the limit for distinct message subscription parameter values to 100.
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			

Main cost drivers:
Update of the business validation with the new limit value related to Business Rule DRCF310 "*When performing a Message Subscription Rule create request, the overall number of distinct Parameter Value defined for the same Parameter Type for the relevant CSD must be compliant with the configuration limit defined in T2S*" in the Message Subscription Rule - New/Edit Screen.

Regression testing of the message subscription functionality and outbound processing. Dedicated test cases on message subscription functionality when exceeding the pre CR value limits.

4CB recommend also the execution of volume tests with user participation as close as possible to PROD conditions.

Summary of project risk
None

Security analysis
No adverse effect has been identified during security assessment

28 May 2018

Cost assessment on Change Request

T2S-652-SYS – Increase the limit of distinct values for the parameters relating to message subscriptions			
One-off	Assessment costs* - Preliminary - Detailed	2,000.00 10,000.00	Euro Euro
One-off	Development costs	108,383.55	Euro
Annual	Operational costs - Maintenance costs - Running costs	 0.00 0.00	 Euro 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).