



EUROPEAN CENTRAL BANK

EUROSYSTEM

T2S CHANGE REQUEST FORM		
<b>General Information (Origin of Request)</b>		
<input type="checkbox"/> User Requirements (URD) or GUI Business Functionality Document (BFD) <input checked="" type="checkbox"/> Other User Functional or Technical Documentation (SYS)		
<b>Request raised by:</b> T2S PMG	<b>Request raised by:</b> T2S PMG	<b>Date raised:</b> 03/07/2021
<b>Request title:</b> Add MS Edge to the list of supported browsers for U2A interaction		<b>Request title:</b> T2S-0769-SYS
<b>Request type:</b> Common	<b>Request type:</b> Common	<b>Urgency:</b> Fast-track
<b>1. Legal/business importance parameter:</b> High	<b>2. Market implementation efforts parameter:</b> Low	
<b>3. Operational/Technical risk parameter:</b> Low	<b>4. Financial impact parameter:</b> Medium-low	
<b>Requestor Category:</b> CSD / NCB		<b>Status:</b> Implemented

**Reason for change and expected benefits/business motivation:**

Microsoft Edge is a browser used in numerous organisations and can be seen as the successor of Internet Explorer 11 when IE11 is discontinued (same vendor). However, Edge is not included in the list of supported browsers for Directly Connected Actors to interact with T2S in U2A mode.

The absence of T2S support for MS Edge would force some DiCoAs to use Chrome or Firefox to interact with T2S in U2A mode, and thus potentially deviate from the general IT policy of their organisation. The expected benefit of this CR is to avoid such situations and thus minimise the need and costs for DiCoAs to design and implement custom setups on user end to access T2S.

**Description of requested change:**

Microsoft Edge (Chromium-based, first released on 15 January 2020) must be fully supported as a browser to access and perform actions in the T2S Graphical User Interfaces, including in all Common Components screens that are relevant to T2S users. For the specific aspect of U2A non-repudiation of origin, it is worth noting that the solution to be used for digital signature (Ascertia Go-Sign Desktop) supports MS Edge.

Edge support for the entire scope of the T2S GUI and the relevant common components screens is needed by the time Internet Explorer 11 can no longer be used to interact with the T2S GUI, i.e. T2S R6.0 (June 2022).

This CR assumes that CR-722 will have been implemented beforehand. As a result, after the implementation of CR-769, the following browsers should be supported by the T2S GUI: Firefox, Chrome and MS Edge (Chromium-based). T2S shall not support MS Edge Legacy, i.e. the HTML-based browser launched with Windows 10 in July 2015, which used to be the default browser on Windows 10 PCs.

**Submitted annexes / related documents:**

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**Proposed wording for the Change request:**

ESMIG U2S Qualified Configurations Document

- 2. Ascertia GSD Single User Client (SU)
- 2.1 Qualified configuration

NSP	SWIFT	SIA-COLT
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Browser	Google Chrome 88+ Firefox 78.9+ <u>Microsoft Edge 103.0.1264.77+</u>
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## 2.2.3 Go&gt;Sign Desktop Client Requirements and post-installation remarks

## 2.2.4 Additional requirements

## 3. Ascertia GSD Multi User Client (MU)

## 3.1 Qualified configuration

NSP	SWIFT	SIA-COLT
Browser	Google Chrome 88+ Firefox 78.9+ <u>Microsoft Edge 103.0.1264.77+</u>	

**Documentation to be updated:**


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 ESMIG U2A qualified configurations
**High level description of Impact:**


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**Outcome/Decisions:**


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 \*CRG on 07 July 2021: the CRG agreed to recommend CR-769 for authorization by the T2S Steering Level, following a fast-tracked approach.

\*AMI-SeCo on 15 July 2021: the AMI-SeCo agreed with the CRG recommendation of CR-769 for T2S Steering Level authorisation

\*CSG on 15 July 2021: the CSG agreed to authorise CR-769

\*NECSG on 15 July 2021: the NECSG agreed to authorise CR-769

\*PMG on 10 August 2021: the PMG agreed to launch the detailed assessment of CR-769 in view of R6.0

\*MIB on 11 August 2021: the MIB agreed to authorise CR-769

\*PMG on 13 September 2021: the PMG agreed to follow 4CB proposal to launch a preliminary assessment without performing a cross-service impact assessment. T2S (and CoCos) will be able to provide MS Edge as a supported browser with R7.0 – the other TARGET Services will follow at later point in time.

\*OMG on 24 April 2022: the OMG identified no operational impact from the inclusion of CR-769 in the scope of Release R2023.JUN

\*CRG on 25 April 2022: the CRG agreed to recommend to the PMG the inclusion of CR-769 in the scope of Release R2023.JUN subject that, in case of changes in the costs, they will have to be reviewed again.

\*The CRG on 13 July 2022: Following a reassessment of the CR based on a reduced 4CB testing scope, the CRG agreed to recommend to the PMG the inclusion of CR-769 in the scope of Release R2023.JUN

\*OMG on 15 July 2022: Following a reassessment of the CR based on a reduced 4CB testing scope, the OMG recommended to the PMG the inclusion of CR-769 in the scope of Release R2023.JUN.

\*PMG on 29 July 2022: the PMG agreed to recommend the inclusion of CR-0769 in the scope of R2023.JUN

\*CSG on 9 August 2022: the CSG approved the inclusion of CR-0769 in the scope of R2023.JUN.

\*NECSG on 9 August 2022: the NECSG approved the inclusion of CR-0769 in the scope of R2023.JUN.

\*MIB on 8 August 2022: the MIB approved the inclusion of CR-0769 in the scope of R2023.JUN.

\*CRG on 28 November 2022: the CRG agreed to approve the wording updates on CR-769.



**Preliminary assessment:**

- Financial impact: medium
- Impacted modules: T2S INTF GUI, ESMIG U2A Portal, all CoCo GUIs Impact on other Eurosystem Services or Projects: Due to the to the CR freeze for BBk on CSLD side no cross service impact assessment (CSIA) was performed. There will be impact on CSLD (corresponding CSLD-CR has been drafted)
- Risk Analysis: No risks has been identified during the preliminary assessment

**Detailed assessment:**

EUROSYSTEM ANALYSIS – GENERAL INFORMATION			
T2S Specific Components		Common Components	
<b>LCMM</b>			
	Instructions validation		
	Status management		
	Instruction matching		
	Instructions maintenance		
	Penalty Mechanism		
<b>Settlement</b>			
	Standardisation and preparation to settlement		
	Night-time Settlement		
	Daytime Recycling and optimisation		
	Daytime Validation, provisioning & booking		
	Auto-collateralisation		
<b>Liquidity Management</b>			
	Outbound Information Management		
	NCB Business Procedures		
	Liquidity Operations		
<b>T2S Interface (as of June 2022 without Static Data Management, Communication for SDMG, Scheduler, Billing)</b>		<b>Eurosystem Single Market Infrastructure Gateway (from R6.0 June 2022)</b>	
	Communication		Communication
	Outbound Processing		Outbound Processing
	Inbound Processing		Inbound Processing
<b>Static Data Management (until June 2022)</b>		<b>Common Reference Data Management (from R6.0 June 2022)</b>	
	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
<b>Statistics and archive</b>		<b>Statistics and archive</b>	
	Statistical information (until June 2022)		Short term statistical information
	Legal archiving (until June 2022)		Legal archiving (from R6.0)
			Data Warehouse (from R6.0)
<b>Information (until June 2022 containing reference data)</b>		<b>CRDM business interface (from R6.0 June 2022)</b>	
	Report management		Report management
	Query management		Query management
			Communication
			Outbound Processing

		Inbound Processing
<b>Operational Services</b>		
	Data Migration (T2S DMT)	Data Migration (CRDM DMT, from R6.0)
	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			
Additional deliveries for Message Specification (UDFS, MyStandards, MOP contingency templates)			
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			
The onboarding of CR-0769 for R7.0 is feasible. Testing of selected subset of screens by 4CB:			
T2S	CRDM	BILL	DWH
T2S>Welcome screen	CRDM>New standing LT order	BILL>Invoice data details	DWH>main menu
T2S>New immediate LT	CRDM>Standing LT order search/list	BILL> PDF invoice list	DWH>display of report SCT01
T2S>Immediate LT Search/List	CRDM>grant/revoke privileges		
T2S> New SI	CRDM > Data changes details		
T2S>New hold/release instruction	CRDM > message subscription rule set details		
T2S>Cash forecast details	CRDM>securities account details		
T2S> Data changes	CRDM> securities		

details	account new		
T2S> Outbound File – Detailes Screen	CRDM > Outbound File – Details screen		
T2S > Outbound Message – Details Screen	CRDM > Outbound Message – Details screen.		
T2S > Securities Search			
T2S > Securities CSD Link - Search			

**CR main cost drivers**

- Testing of the selected subset of T2S screens.

**Update (January 2023):**

Currently supported MS Edge version is 103.0.1264.77 official build (64-bit) and higher. This information will be included in the ESMIG Qualified Configuration Document version as of R.2023.JUN.

**Impact on other TARGET Services and projects**

No impact on other TARGET Services has been identified during detailed assessment.

**Summary of project risk**

No risk has been identified during detailed assessment.

**Security analysis**

No adverse effect has been identified during security assessment.



07 July 2022

## Cost assessment on Change Requests

<b>T2S-769-SYS – Add MS Edge to the list of supported browsers for U2A interaction</b>			
One-off	Assessment costs*		
	- Preliminary	2,000.00	Euro
	- Detailed	10,000.00	Euro
One-off	Development costs	150,407.82	Euro
Annual	Operational costs		
	- Maintenance costs	8,426.67	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).