

| General Information (Origin of Request) | | |
|---|---|---------------------------------------|
| <input checked="" type="checkbox"/> User Requirements Document (URD) <input type="checkbox"/> User Detailed Functional Specification (UDFS) <input type="checkbox"/> User Handbook (UHB) <input type="checkbox"/> Other User Functional or Technical Documentation (SYS) | | |
| Request raised by: ECB | Institute: ECB | Date raised: July 2021 |
| Request title: Edge Browser | | Request ref. no: CSLD-0083-SYS |
| Request type: common | | |
| 1. Legal/business importance parameter: | 2. Market implementation efforts parameter – Stakeholder impact: Low | |
| 3. Operational impact: | 4. Financial impact parameter: | |
| 5. Functional/ Technical impact: | 6. Interoperability impact: | |
| Requestor Category: ECB | Status: Approved | |

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 T2 in U2A mode.

The absence of T2 support for MS Edge would force some participants to use Chrome or Firefox to interact with T2 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 participants to design and implement custom setups on user end to access T2.

Description of requested change:

Microsoft Edge must be fully supported as a browser to access and perform actions in the T2 Graphical User Interfaces, including in all Common Components screens that are relevant to T2 users.

Edge support is needed by the time Internet Explorer 11 can no longer be used to interact with the T2S GUI, i.e. T2 Go-Live (November 2022).

Submitted annexes / related documents:

None

Proposed wording for the Change request:

No URD changes

The ESMIG U2A qualified configurations must be added as an annex of the ESMIG UDFS. In the qualified configuration annex, the new browser EDGE must be added.

UDFS

ESMIG UDFS

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2.7 [U2A Qualified configuration](#)

2.7.1.2 [Qualified configurations](#)

As already mentioned, the 4CB has qualified a specific subset of the NSPs compatibility matrix. [These configurations have been extensively tested and support on them is guaranteed.](#)

| Go>Sign DESKTOP CLIENT (version will be regularly updated by the 4CB) | | |
|---|---|----------|
| NSP | SWIFT | SIA-COLT |
| OS | Windows 10 | |
| Browser | Google Chrome 88.0+, Firefox 68.0+ Microsoft Edge (the supported browser version(s) will be provided later. Next to the actual version the previous two major versions will be supported) | |

UHB **CLM UHB**

3.2 Technical Requirements

[..]

Supported Web-browsers and Settings ~~The following web-browsers are suggested:~~

- | ~~Mozilla Firefox~~
- | ~~Google Chrome~~
- | [Please refer to the “ESMIG U2A Qualified Configurations” annex of ESMIG UDFS](#)

RTGS UHB

3.2 Technical Requirements

[..]

Supported Web-browsers and Settings ~~The following web-browsers are suggested:~~

- | ~~Mozilla Firefox~~
- | ~~Google Chrome~~
- | [Please refer to the “ESMIG U2A Qualified Configurations” annex of ESMIG UDFS](#)

DWH UHB (based on v2.0)

1.2.2 Technical Requirements

~~The following web browsers are suggested:~~

- ~~| Mozilla Firefox 78.0+~~
- ~~| Google Chrome 88.0+~~
- | [Please refer to the “ESMIG U2A Qualified Configurations” annex of ESMIG UDFS](#)

BDM, BILL, CRDM, ECONS UHB (based on v2.x)

1.2.1 Setup and Login Procedures

Before entering the GUI, make sure that your workstation complies with the hardware and software requirements and implement all necessary preparations (e.g. firewall settings) described below.

Such requirements/preparations may be subject to periodical review/update to comply with changing technical/regulatory scenario.

[Please refer to the “ESMIG U2A Qualified Configurations” annex of ESMIG UDFS.](#)

Hardware requirements

~~The following hardware requirements are needed:~~

- ~~-| Processor: 1 GHz or faster with support for PAE, NX, and SSE2;~~
- ~~-| RAM: 1 GB (32-bit) or 2 GB (64-bit);~~
- ~~-| Hard disk space: 16 GB (32-bit) or 20 GB (64-bit);~~
- ~~-| Graphics card: Microsoft DirectX 9 graphics device with WDDM driver.~~

[Please refer to the “ESMIG U2A Qualified Configurations” annex of ESMIG UDFS .](#)

Software requirements

~~The following software requirements are suggested:~~

- ~~-| Windows 10 as OS, since running the application can only be guaranteed on Windows 10 OS or newer;~~
- ~~-| JRE Version: 1.8.0_31 or higher (remark: additional constraints coming from NSP to be verified).~~

[Please refer to the “ESMIG U2A Qualified Configurations” annex of ESMIG UDFS .](#)

Supported Web-Browsers and Settings

~~The following web-browsers are suggested:~~

- ~~– Mozilla Firefox;~~
- ~~– Google Chrome~~

~~The complete redefinition of the qualified browsers' set and their related versions and the full replacement of the applet technology will be then defined in the context of the Eurosystem Single Market Infrastructure Gateway, being part of the ongoing T2/T2S consolidation project.~~

~~[Please refer to the "ESMIG U2A Qualified Configurations" annex of ESMIG UDFS.](#)~~

GUI Access

Users are directed to an initial page named ESMIG portal that ensures proper routing to the web applications the user has been granted to enter.

NRO specific requirements

~~To be defined in a next stage.~~

~~[Please refer to the "ESMIG U2A Qualified Configurations" annex of ESMIG UDFS.](#)~~

High level description of Impact:

Impacts on other projects and products:

Equivalent change requests have been raised in the T2S, TIPS and ECMS governances: T2S 0769 BFD, TIPS-CR043-SYS and CR ECMS-0045-UDFS

Outcome/Decisions:

| | | | Process | User Interaction | Business Data Definition | Non-functional Requirements | |
|--|-----------------------------------|------------------------------|--------------------|------------------|--------------------------|-----------------------------|--|
| CENTRAL LIQUIDITY MANAGEMENT (CLM) | GENERAL | CLM Payment Order | | | | | |
| | | CLM Liquidity Transfer Order | | | | | |
| | | CLM Liquidity Reservation | | | | | |
| | CENTRAL BANK SERVICES | Modify Credit Line | | | | | |
| | | Connected Payments | X | | | | |
| | | Overnight Deposit | | | | | |
| | | Marginal Lending | | | | | |
| | | Minimum Reserve Management | | | | | |
| | | EoD General Ledger Files | | | | | |
| | REAL-TIME GROSS SETTLEMENT (RTGS) | GENERAL | RTGS Payment Order | X | | | |
| | | | Queue Management | | | | |
| RTGS Liquidity Transfer Order | | | | | | | |
| RTGS Liquidity Reservation | | | | | | | |
| RTGS Services for Ancillary Systems (AS) | | | | | | | |
| CB SERVICES | | | | | | | |
| COMMON | GENERAL | ESMIG | | | | | |
| | | CRDM | | | | | |
| | | Business Day | | | | | |

| | | | | | | |
|--------------------------------|--------------------------------|---------------------------|--|--|--|--|
| | | User Roles and Access | | | | |
| | | Information and Reporting | | | | |
| | | Data Warehouse Services | | | | |
| | CENTRAL BANK OPERATIONS | Billing | | | | |
| | | Legal Archiving | | | | |
| | | Contingency Settlement | | | | |
| 4CB internal categories | Operational Tools | | | | | |
| | Automation | | | | | |

| Impact on major documentation | | | |
|---|---|----------------------|-------------------------|
| Document | Chapter | | Change |
| Impacted UDFS chapter | ESMIG: Annex 2.7 U2A Qualified configuration | | |
| Additional deliveries for Message Specification/ MyStandards | | | |
| UHB | CLM: 3.2 Technical requirements RTGS: 3.2 Technical requirements DWH: 1.2.2 Technical requirements | | |
| External training materials | CSLD-external training - GUI | | |
| Other documentations | | | |
| Links with other requests | | | |
| Links | Reference | | Title |
| OVERVIEW OF THE IMPACT OF THE REQUEST ON THE T2SYSTEM AND ON THE PROJECT | | | |
| Summary of functional, technical, operational, stakeholder, financial and interoperability impacts | | | |
| CLM and RTGS GUI support Microsoft Edge as a browser to access and perform actions in the T2 Graphical User Interfaces. For Cognos Analytics (DWH GUI) full compatibility with Microsoft Edge is confirmed by IBM. | | | |
| Testing of selected subset of screens by 4CB: | | | |
| RTGS & CLM | | CRDM | BILL |
| RTGS Cash Account Liquidity – Query Screen | Limits – search/list screen | Invoice data details | main menu |
| RTGS Cash Account Liquidity – Display Screen | Limit – new/edit screen | PDF invoice list | display of report SCT01 |

| | | | |
|---|--|--|--|
| RTGS Sub-Account Liquidity – Display Screen | Cash Account – new/edit screen | | |
| Bilateral Limits – Query Screen | Cash Account – new/edit screen | | |
| LT – New Screen | Standing LT order search/list | | |
| AS Batches – Query Screen | Data changes details | | |
| AS Batches – List Screen | Message subscription rule set details | | |
| AS Batch Processing Log Display – Pop-up | Securities account details | | |
| Liquidity Transfer to Technical Account Procedure D – New Screen | Securities account details | | |
| Liquidity Transfer to Technical Account Procedure D – New Screen | Grant/revoke privileges | | |
| CCT – New Screen – BAH | Message Subscription Rule Set – search/list screen | | |
| CCT – New Screen – Debtor ID | Message Subscription Rule Set – search/list screen | | |
| CCT – New Screen – Debtor ID – Organisation ID | | | |
| CCT – New Screen – Payment ID | | | |
| CCT – New Screen – Instruction for Creditor Agent | | | |
| CCT – New Screen – Instruction for Creditor Agent | | | |
| CCT – New Screen – Instruction for Creditor Agent | | | |
| Dashboard Liquidity Overview AMG Sel. grouped by Countries – Display Screen | | | |

Cost drivers

- Comprehensive functional testing campaign on the screens selected by TSWG/MTRSG will be performed to test compatibility of the RTGS and CLM GUI with the new browser Microsoft edge. This means screens are comprehensively tested for both functions to ensure that GUI action and functionalities are compliant and correctly working with Microsoft Edge accordingly with ECB/TSWG reduced scope. The testing approach will also include a thorough non-regression testing campaign for future releases, this includes updates of the pertinent Tool.

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- Regression testing related to CoCos GUIs screens used under the umbrella of the T2 service and accordingly with ECB/TSWG reduced scope.
 - Technical rework and testing activities on CLM/RTGS backend side related to EDGE introduction, this includes updates of the pertinent Tool..

Impact on other TARGET Services and projects

T2S: no impact (counterpart T2S-CR: T2S-CR0769-BFD)

TIPS: no impact (counterpart TIPS-CR: TIPS-CR043-SYS)

ECMS: no impact (counterpart ECMS-CR: CR ECMS-0045-UDFS)

TARGET2: no impact

Summary of project risk

None

Security analysis

No potentially adverse effect was identified during the security assessment.