



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: ECB	Institute: ECB	Date raised: 22/05/2024
Request title: Alignment of the T2S GUI screens to the TARGET Services Harmonised GUI Style v1.0		Request No.: T2S 0832 BFD
Request type: Common	Classification: Scope enhancement	Urgency: Normal
1. Legal/business importance parameter ¹ : Low	2. Market implementation efforts parameter ² : Medium	
3. Operational/Technical risk parameter ³ : Medium	4. Financial impact parameter ⁴ : Very high	
Requestor Category: Eurosystem		Status: Authorised at T2S Steering Level

Reason for change and expected benefits/business motivation:

During the T2-T2S Consolidation project, it was agreed to establish a common style guide for the various Graphical User Interfaces (GUIs) across TARGET Services/Common Components to offer a harmonised user experience when interacting with TARGET Services/Common Components in User-to-Application mode.

To achieve this goal, a dedicated ECB-4CB Harmonisation Task Force has been set up to define a Harmonised GUI Style Guide. As a first step, the task force drafted the Harmonised GUI Style Guide, which was then reviewed by the TARGET Services Technical groups including T2-WG, TIPS-WG, T2S-OMG, T2S-PMG and T2S-CRG. In November 2023 the Harmonised GUI Style Guide was approved by the TARGET Services Steering level comprising the CSG, TIPS-NECSG and MIB as version 1.05.

The Harmonised GUI Style Guide defines the set of standards and conventions that business analysts and developers must follow when designing and implementing the user interface for various TARGET services. It covers User Design elements such as branding, typography, data formats, use of colours, standard screen layout and screen types, the definition of control elements (such as fields, lists and buttons), that apply to the GUI.

Following the delivery of the Harmonised Style Guide, relevant changes need to be implemented to the

¹ Legal/business importance parameter was set to “Low” as the change harmonises the GUI style across TARGET Services which is deemed a nice to have enhancement from a business viewpoint.

² Market implementation effort parameter was set to “Medium” as multiple user design elements will be changed for the T2S GUI.

³ Operational/technical risk parameter was set to “Medium” as the T2S GUI is foreseen to change and therefore also the User Experience for the T2S users.

⁴ Low < 100kEUR < Low-Medium < 200 kEUR < Medium < 400kEUR < High < 700kEUR < Very high

⁵ The TARGET Services Harmonised GUI Style Guide v1.0 was approved by the MIB on 3 November 2023.

⁶ Exceptions are allowed but will need agreed and documented (Principle 2 of the Harmonised GUI Style Guide).

TARGET Services GUIs in line with the agreed harmonisation scope and at a pace decided by the relevant governances. Upon completion, the GUIs of T2S, TIPS, CLM, RTGS, CRDM, BILL, BDM, ECONS II and ESMIG portal would be harmonised as much as possible⁶. The GUIs of DWH, ECMS and DMT will be partially harmonised as they are off-the-shelf products. The GUI of LeA is out of scope as this component is not accessible to users.

Description of requested change:

The purpose of this change request is to align the GUI of T2S Components with the Harmonised GUI Style Guide v1.0.

Owing to the low criticality and the complexity of the matter, the assessment timeline of this change request will deviate from the T2S Operational Governance Process Framework (OGPF) both for the Preliminary Assessment (PA) and the Detailed Assessment (DA). The PA will exceed by 1.5 (one month and half) the maximum duration for the T2S PA under the T2S OGPF, while the DA will last 4.5 months (four and half months) longer than the duration of the DA envisaged in the T2S OGPF. This additional time will allow the 4CB to perform the gap analysis i.e. identification of the gaps between the Harmonised GUI Style Guide and TARGET Services GUIs, as part of the assessment phase.

The remaining CR implementation steps will be executed according to the T2S OGPF.

Submitted annexes / related documents:

TARGET Services Harmonised GUI Style Guide v1.0
T2S Gap Analysis template

Outcome/Decisions:

- *CRG on 3 July 2024: the CRG agreed to launch the preliminary assessment of CR-0832.
- *CRG on 23 January 2025: the CRG agreed to recommend CR-0832 for authorisation by the T2S Steering Level.
- *CSG on 31 January 2025: the CSG agreed to authorise CR-0832.
- *NECSG on 31 January 2025: the NECSG agreed to authorise CR-0832.
- *MIB on 25 February 2025: the MIB agreed to authorise CR-0832.

Documentation to be updated:

Preliminary assessment:

- **Impacted Modules:** T2S INTF, SETT, LCMM, LQMG, QUM&REM, CRDM, DWH
- **Financial impact:** Very High
- **Dependencies:** T2 impact reflected in T2 CR-144. No impact on TIPS and ECMS
- **Risks:** No risks identified during preliminary assessment

Findings:**Technical Migration to Angular**

The Alignment of the T2S GUI Screens to the Harmonised GUI Style v1.0 will entail a technological shift and migration to Angular technology, along with the necessary adaptation of the GUI's back-end to this new front-end.

Angular framework, already used by the GUIs of other TARGET Services, ensures a more consistent and uniform user experience. By executing code directly in the browser and incrementally refreshing backend data, Angular can provide a more responsive user experience. Additionally, Angular visual components can deliver a more modern look and feel compared to the current T2S GUI technology. Harmonisation of the T2S GUI with the current JSF implementation is not feasible.

- All gaps identified in the annex "T2S Gap Analysis GUI Harmonisation Template" have to be reflected in all related documentation and the Scope Defining Set of Documents.
- General Adaptations:
 - Addition of Menu Elements (Broadcast Button)
 - Replacement of some text GUI elements with buttons
 - Rework of entire Menu Structure to work from one centralised menu button
 - Colour Scheme needs to be changed to match unified colour scheme
 - Change of Icons for Icon Buttons
 - Improvement of the keyboard navigation
 - Adaptations to all Screens under CASH:
 - o Reduction of Abbreviations;
 - o Rework of Colour scheme to match unified TARGET Service Colour Scheme;
 - o Replace certain terms with harmonised labels.
 - Potentially a more in-depth review of error messages texts displayed upon fields validation (existing and possibly new ones to be implemented) related to error messages upon fields validations will be carried out later during the functional detailed assessment phase.
 - The list of fields that will be subject to a multiple selection of values on the Search/List screens will be provided at the detailed assessment.

Open issues/ questions to be clarified by the originator:

- It is worth highlighting that implementing of front-end validation feature on the Search/List screens might cause a degradation on search queries performance in terms of queries response time. Therefore, it is required to specify and analyse the list of fields that will be subject to front-end validation on the Search/List screens.
- The Harmonised GUI Style Guide does not define the style of radio buttons, which are used in the current GUI. Will the guide be updated, or should the radio buttons be removed?
- Are CUM-EX and OPT -OUT considered commonly used abbreviations and therefore allowed, or should they be changed for more clear/explicit names, and which?
- The deployment & migration strategy has to be carefully evaluated during detailed assessment in view of the very high effort on 4CB side for the delivery of the CR-0832. The related infrastructure impact depends on the selected strategy and needs to be assessed in detail.

- Clarification of open questions related to the Harmonised Style Guide v1.0

Detailed assessment:
