Target2-Securities

User Handbook for Operators

V5.2

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Disclaimer

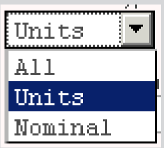
Table of Contents

Terms and Abbreviations

The terms and abbreviations used in the User Handbook, but not included in the T2S glossary are shown in the table below. You find terms with their description and the abbreviations, both in an alphabetical order.

Letter	Description
A	
Alert icon 	An *alert* icon is an icon that is shown on an active T2S screen for those users with appropriate rights to approve a pending action.
A2A	Application-to-application
B	
BIC	Bank identifier code
C	
Check box 	Square box which can be filled with a checkmark by clicking on it with the mouse. In contrast to the radio button, you can select more than one option with a check box.
D	
DD	Day (e.g. used within the timestamp, every letter stands for one digit)
d	Decimal number
E	
e.g.	For example (Latin: ‘exempli gratia’)
G	
GUI	Graphical user interface which is a type of user interface which allows users to interact with electronic devices.
H	
hh	Hour (e.g. used within the timestamp, every letter stands for one digit)
I	
i.e.	That is (Latin: ‘id est’)

Letter	Description
IP port	Internet Protocol address port, is the port which connects a numerical label assigned to each device (e.g., computer, printer) participating in a computer network that uses the Internet Protocol for communication.
Incl.	Including
M	
Mouse-over 	Additional information for some elements of the GUI is only shown when you move the mouse-pointer to these elements.
MM	Month (e.g. used within the timestamp, every letter stands for one digit)
mm	Minute (e.g. used within the timestamp, every letter stands for one digit)
µsµsµsµsµsµs	Microsecond (e.g. used within the timestamp, every 'µs' stands for one digit)
min.	Minimum
max.	Maximum
10m	10 million
N	
NRO	Non-repudiation of origin (NRO) provides the recipient (T2S) with the evidence NRO which ensures that the originator (T2S actor) will not be able to deny having sent the U2A instruction. The evidence of origin is generated by the originator and held by the recipient.
Q	
QQ	Quarter, indicates a time span of three months, e.g. Q2 stands for the second quarter of the year.
R	
Radio button 	A type of GUI element which allows the user to choose only one of a predefined set of options.
S	

Letter	Description
Select box 	A select field in the GUI with an arrow on the right side. By clicking on the arrow, all possible input values are shown and can be selected with a mouse-click.
SS	Semester, indicates a time span of six months, e.g. S1 stands for the first semester.
ss	Second (e.g. used within the timestamp, every letter stands for one digit)
T	
10t	10 thousand
Timestamp	A sequence of characters, denoting the date and the time in T2S.
U	
UHB	User Handbook
U2A	User-to-application
Y	
YYYY	Year (e.g. used within the timestamp, every letter stands for one digit)

Introduction

Overview of the User Handbook

The T2S User Handbook, hereinafter called UHB, aims at facilitating the use of the Graphical User Interface of TARGET2-Securities (T2S GUI) and related common components: Common Reference Data Management (CRDM), Business Day Management (BDM), Billing common component (BILL). It is intended for any T2S user regardless of the focus of activities and describes the full range of functionalities available in user-to-application (U2A) mode. The UHB provides detailed reference information on all GUI screens and step-by-step instructions for typical workflows.

In particular, this T2S User Handbook Versionis dedicated to the T2S operator, called T2S UHB for Operators. This specific UHB is based on the unchanged UHB for external T2S actors and comprises in addition all screens, functions and business scenarios dedicated only to the T2S operator. In the table of contents all screen descriptions and usage instructions only for the T2S operator are highlighted with the addition 'T2S operator only' after the relevant chapter name for easier identification. Screen descriptions which are also available for external T2S actors showing additional features, fields and buttons dedicated only to the T2S operator are highlighted by the addition 'T2S operator only' to the relevant field and button. The wording 'T2S operator only' in the screen title is not used in screens which are also available for external T2S actors.

Target Audience

There is only one handbook but two different editions addressing all T2S actors. Central banks (CBs), central securities depositories (CSDs), CSD participants, external CSD users, payment banks/settlement banks and T2S operators are the target audience of the UHB. There exist two different editions, first the UHB, addressing external users, and second the UHB for Operators, which addresses the T2S operators. By referring to the table of contents as well as to the usage indication list, each reader can easily identify the relevant parts.

Related Documentation

The UHB is part of the functional documentation and complements the general, technical and detailed specifications. Among these related documentation, the UDFS is particularly relevant for UHB readers. Although it is mainly focused on the application-to-application mode (A2A), chapter one of the UDFS contains a detailed description of the business concepts used in T2S, which are also relevant when using the GUI.

In addition to the T2S specifications, the Business Functionality for T2S Graphical User Interface - as the basis for the design and implementation of the GUI - provides helpful information. References to the GUI Business Functionalities are made in the screen descriptions of the UHB.

Both documents are available on the ECB`s T2S webpage.

Updates and Version Management

Updated versions of the UHB will be provided on a regular basis.

UHB Methodology

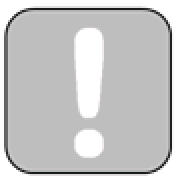
Several symbols and methodological elements are used throughout the T2S UHB to ease orientation and help you to find your desired information quickly.

Page Layout

Every page of the main UHB parts has a similar page layout. You can find four different elements:

- the header, which shows the chapter and sub-chapter title
- the margin column on the left side of each page, which is used for subheadings and information signs
- the text column, which contains the main information, tables and screenshots
- the footer, which shows the name and the release of the document as well as the page number

Information Signs

Name	Icon	Description
Notice sign		Notice signs are used to highlight useful information. Read its content to find out about hints, action alternatives or other details helping you to improve your usage of the T2S GUI.
Example sign		Example signs are used to highlight examples, which illustrate the corresponding text, especially when a verbal description is difficult or too extensive.

Links

Links are illustrated throughout the UHB with a little triangle followed by a page number within squared brackets. These links help you to jump to related sections by clicking on them or turning to the relevant page.

Please find the information on page 6. [▸ 6]

Illustration 1: Link illustration

Tables

Tables are used to present information in a clearly arranged format. They consist of a table head and a table body. The body is divided into a left and a right column. The left column contains keywords, for example field names, which are explained in the right column. Subsections within a table are preceded by a heading. The order of the description follows the appearance on the screen from left to right and from top to bottom.

Type Set

Regular text in the UHB is written in Arial Unicode MS font with a size of 11pt. Screen and button names are written in italic letters, GUI paths use the Courier New font. Field names and field values are put in quotation marks if they appear in a context other than their dedicated description.

Element	Format	Example
Screen name	Italic letters	*Data changes – search/list* screen
Button name	Italic letters	*New* button
GUI path	PC code	`Static Data >> Market-Specific Configuration >> Market-Specific Attributes`
Field name or value quotation	'...'	'Opening Date' ; 'Active'

Action Steps

Business scenarios are divided into single action steps. These action steps are numbered sequentially. Intermediate results are described where appropriate and marked with an indented arrow. Each business scenario ends with a final result, indicated by an arrow.

Example

1. Action step 1
2. Action step 2

    ➡ Intermediate result

3. Action step 3

➡ Result

Screenshots

Screenshots are used to illustrate the corresponding text. Note that there might be minor deviations between the screenshot and your screen appearance, according to your access rights or a specific selection you have made. Also, some functions are mutually exclusive and cannot be represented in a single screenshot. In these cases, the screenshot illustrates the more prevalent use of the screen.

Values shown on a screenshot might also deviate from the default values indicated in the description. In these cases, the description is valid rather than the screenshot.

Wherever relevant, specific parts of a screenshot are highlighted with a red box. If there is more than one box, position numbers point out the relation to the corresponding description.

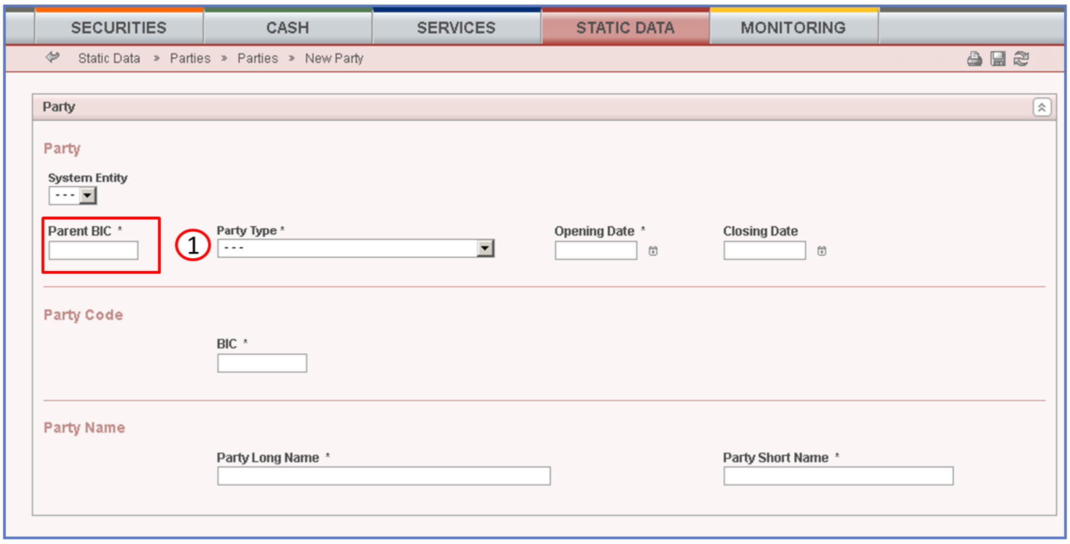


Illustration 2: Screenshot with red box and position number

UHB Structure

The UHB is structured in five parts and is complemented by an annex.

Part 1

The **introduction** explains the aim, the content and the approach of both the UHB and the GUI. While the first section explains how to use the UHB, the second section focuses on the design and common functionalities of the GUI.

The overview of the UHB includes information about:

- The UHB methodology [▸ 48]
- The UHB structure [▸ 50]

The overview of the GUI consists of information about:

- Setup and login procedures [▸ 52]

- GUI structure for T2S GUI [▸ 54], including information about the menu structure [▸ 55], screen structure [▸ 56], screen types [▸ 59], field types and properties [▸ 61], and common buttons and icons [▸ 66]
- GUI structure for CoCo GUI [▸ 54], including information about the menu structure [▸ 55], screen structure [▸ 56], screen types [▸ 59], field types and properties [▸ 61], and common buttons and icons [▸ 66]
- Validation [▸ 73]
- Communication network and services [▸ 79]
- User administration [▸ 79]
- Security and certification services [▸ 79]
- Online help [▸ 80]

Refer to this part if you need information on how to use the UHB or on common functionalities of the GUI.

Part 2

The **screen reference part** starts with a general section serving as a reader's guide for this part. It is followed by the screen descriptions of all screens contained in the GUI. Each description follows an identical structure which comprises detailed information on all screen fields.

The screen reference part is structured along the first and second GUI menu level, followed by the screens in alphabetical order. Within this alphabetical order, all screen types belonging to the same business function are grouped together to follow the business logic (*search/list* screen, *details* screen, *new/edit* screen).

Refer to this part if you need detailed and precise information on a screen, field or button.

Screens available only for the T2S operator are highlighted by the addition 'T2S operator only' in the title.

Screens available for external T2S actors showing in addition features fields and buttons dedicated only to the T2S operator are highlighted by the addition'T2S operator only' after the relevant field and button without the addition 'T2S operator only' in the screen title.

Part 3

The **user instructions part** starts with a general section serving as a reader's guide for this part. It is followed by step-by-step instructions for typical GUI workflows, called business scenarios. Each description follows an identical structure.

Related business scenarios are grouped into comprehensive business packages, which are further grouped into categories.

Refer to this part if you need to know how to carry out an action using the GUI.

Business scenarios dedicated only to the T2S operator are highlighted by the addition 'T2S operator only' in the title.

Part 4 The **trouble management system** (TMS) part offers an overview of the TMS screens that are available in U2A mode. Refer to this part if you need a description and explanation of the usage and functionalities of the TMS external interface to the relevant users.

TMS is a tool and database which is used to track and follow-up on relevant communication between the T2S users and the T2S Service Desk for which a trouble case has been created.

Part 5 **The long term statistical information** (LTSI) part provides historical data and statistics to T2S actors (CBs, payment banks/settlement banks, CSDs, CSD participants, external CSD users, T2S operators) on the business activity of the different T2S components. Data can be used for reporting purposes or statistical analysis for up to 10 years. Refer to this part if you need information on how to retrieve reports or analysis.

Annex The **annex** supplies detailed information complementing the UHB:

- Annex A - Indication of usage [**Error! Bookmark not defined.**]: List of primary users (CSD/CB/T2S operator) for each screen and business scenario
- Annex B - Sitemap [**Error! Bookmark not defined.**]: Hierarchical, structured illustration of all screens and their interrelations
- Annex C - List of privileges [**Error! Bookmark not defined.**]: For each screen (incl. LTSI screens), all privileges and their corresponding description are listed
- Annex D - List of references for error messages [**Error! Bookmark not defined.**]: For each screen (incl. TMS and LTSI screens), all references for error messages, the error text and the corresponding description are listed

Overview of the Graphical User Interface

The GUI is a browser-based application for communication with T2S in U2A mode. It is based on the ISO norm 9241 ‘Ergonomics of human system interaction’.

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.

Hardware Requirements The following PC requirements are needed for a trouble-free working environment:

- Processor: Minimum of one Gigahertz (GHz), supporting streaming SIMD extensions 2 (SSE2)
- RAM: Minimum of one Gigabyte (GB)
- Hard disc space: Minimum of 200 Megabyte (MB)
- Graphics Adapter: Support of Microsoft DirectX 9 graphics device with Windows display driver model (WDDM)
- Screen Settings: Minimum screen resolution of 1024*768 pixels at a colour depth of min. 24-bit true colour. A higher colour depth of 32-bit is supported. Higher resolutions are recommended; using lower screen resolutions can result in an inconvenient display of the GUI.

Software Requirements

No specific operating system (OS) or other important software is required. In general, every OS is possible that supports the designated browsers.

Supported Web-Browsers and Settings

The following web-browsers are supported:

- Mozilla Firefox (latest versions)
- Microsoft Internet Explorer (latest versions)

Hint

Working in multiple windows is not supported.

Java script and java applets are used for validations on the client side therefore ‘JavaScript’ and ‘Cookies’ have to be set to ‘enabled’. No additional plug-in-based internet applications such as flash or silverlight are necessary. The recommended cache size is one to two MB.

Firewall Settings

The following IP ports must be opened to allow a communication between the T2S actor and the T2S system:

- HTTPS Port 443

GUI Access

The following steps are necessary for accessing the GUI successfully:

1. After authentication, on the screen provided by the VANSP, open a standard web-browser supported by T2S.
2. Navigate to the T2S start page (URL will be provided by your network provider).
3. Enter your user name and password in the VANSP pop-up.
4. Choose your T2S system user reference in line with the above-mentioned principles.
5. Click on the *login* button.

Hint

After 30 minutes of inactivity in the test-environment and 10 minutes of inactivity in the live-environment T2S will log you out.

Authentication

Authentication takes place on the login screen provided by the network provider (SWIFT or SIA COLT). On this login screen you are requested to authenticate yourself via the certificate used together with your password. Both pieces of information (choosing a certificate and typing in a password) are only required once at the beginning of every session and the authentication remains active for the entire session.

System User Reference

After successful login, you can choose your T2S system user reference on the welcome screen according to the following principles:

- You can select only the system users related to your certificate
- You cannot choose a T2S system user that is already locked
- You can specify a default system user which is automatically pre-selected

If you want to change the T2S system user during the session, you do not need to logout. You can change the system user on the *welcome* screen at any time by clicking on the *T2S logo* button in the GUI. Due to the white-labelling functionality of the T2S GUI, the respective T2S system user reference logo is shown to you in the upper right corner and displays the appropriate company emblem.

Limitations of the T2S GUI

The T2S GUI is designed as a user interface where a user handles entries into the T2S GUI and views the result of queries, reports etc. on his computer screen. It is recommend to use the T2S GUI in a restrictive way, i.e. using search parameters to limit the resulting data volume and avoid open ended queries.

In case the user does not consider this limitation the T2S GUI would first wait and finally could run into a time-out. Depending on various parameters (bandwidth, concurrent users, customer infrastructure processing, DB query duration, record size, operational day phase, timeout limitation) further effects may be encountered.

GUI Structure

This chapter explains the basic elements of the T2S GUI structure (i.e. structure of the menu and the screens) helping you to navigate through the system and to use it quickly and efficiently.

The first subsection describes the menu structure where screens are grouped hierarchically. Afterwards, the second subsection explains the layout structure common to each screen. The following subsections provide details on the different screen types [59] and on recurring elements, such as common field types [61] or buttons and icons [66].

Menu Structure

The GUI menu is structured into three hierarchical menu levels. The first level is presented as a menu bar containing the five first-level menu items, which are always visible on top of each screen.

Hint

Depending on your access rights, it is possible that not all menu entries are visible for you. Contact your system administrator to verify that you have the necessary privileges to access all screens relevant to you. The privileges are listed in each screen and business scenario description.

The items are colour-coded for ease of referencing:

- Securities (orange)
- Cash (green)
- Services (blue)
- ~~Static Data (red)~~
- Monitoring (yellow)

The second and third menu levels are accessible via mouse-over on the first-level menu items.

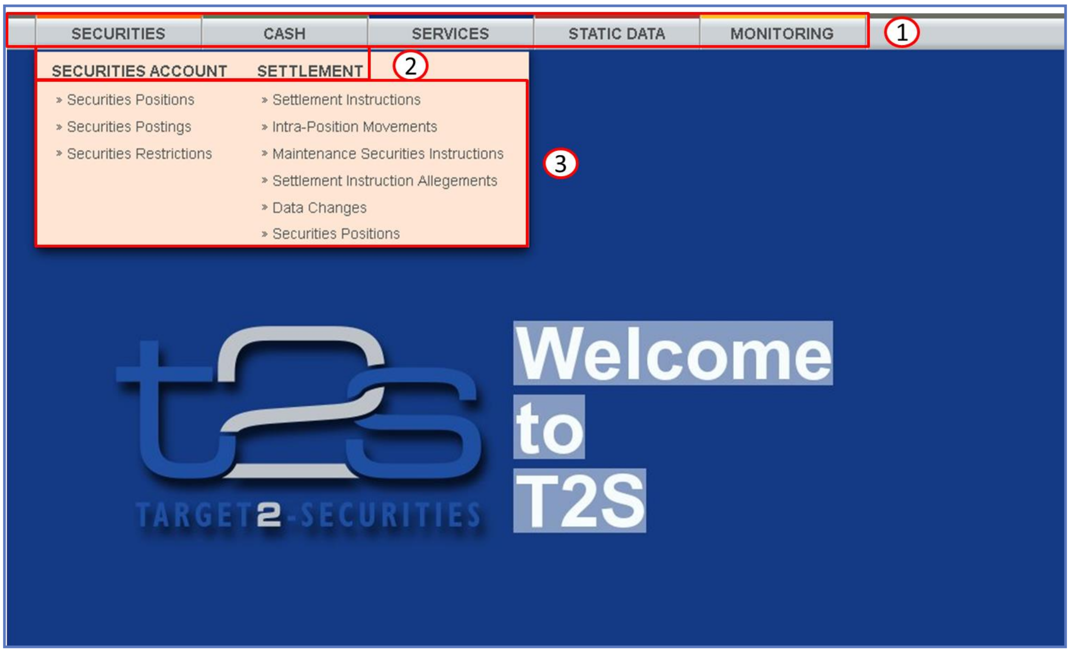


Illustration 3: T2S menu levels

Position No.	Description
1	Menu level 1
2	Menu level 2
3	Menu level 3

All entries on the second menu level are structural subcategories. To access a screen you have to click on the third menu level. For ease of use, some screens are available more than once. All identical menu entries on level three lead to the same screen. You can arbitrarily access them according to your business preferences.

Example

The *securities positions – search/list* screen can be accessed via the following two paths:

- `Securities >> Securities Account >> Securities Positions`
- `Securities >> Settlement >> Securities Positions`

Screen Structure

In general, each screen of the T2S GUI follows the same layout containing a header and a content area.

Header

The header appears at the top of every screen. It contains four main elements providing useful information and helping you to navigate between the different screens as shown in the illustration below.

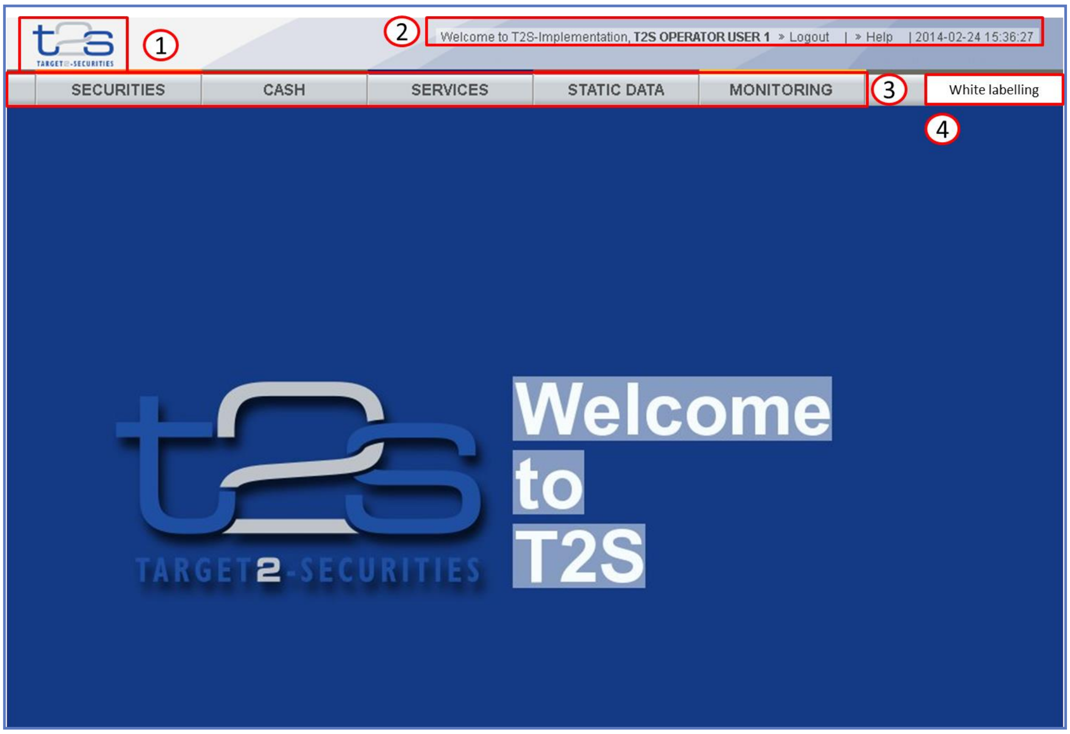


Illustration 4: Header elements

Position No.	Element	Description
1	*T2S logo* button	... links to the welcome screen. While using the *new/edit* screens, the *T2S logo* button is locked in order to ensure a safe and complete submission process.
2	Information panel	... displays your login name, the *logout* and *help* buttons as well as date and time of last data access.
3	Menu bar	... presents the five main menu items and allows you to navigate to the screens.
4	T2S System User Reference logo	... displays the respective logo in accordance with the chosen T2S system user reference in line with the white-labelling approach.

Content Area The content area is the part of the GUI where you can trigger all business actions. It is organised by five main elements which help you to interact properly with the GUI as shown in the illustration below.

To structure large amounts of data, the content area is further separated into frames and sub-frames.

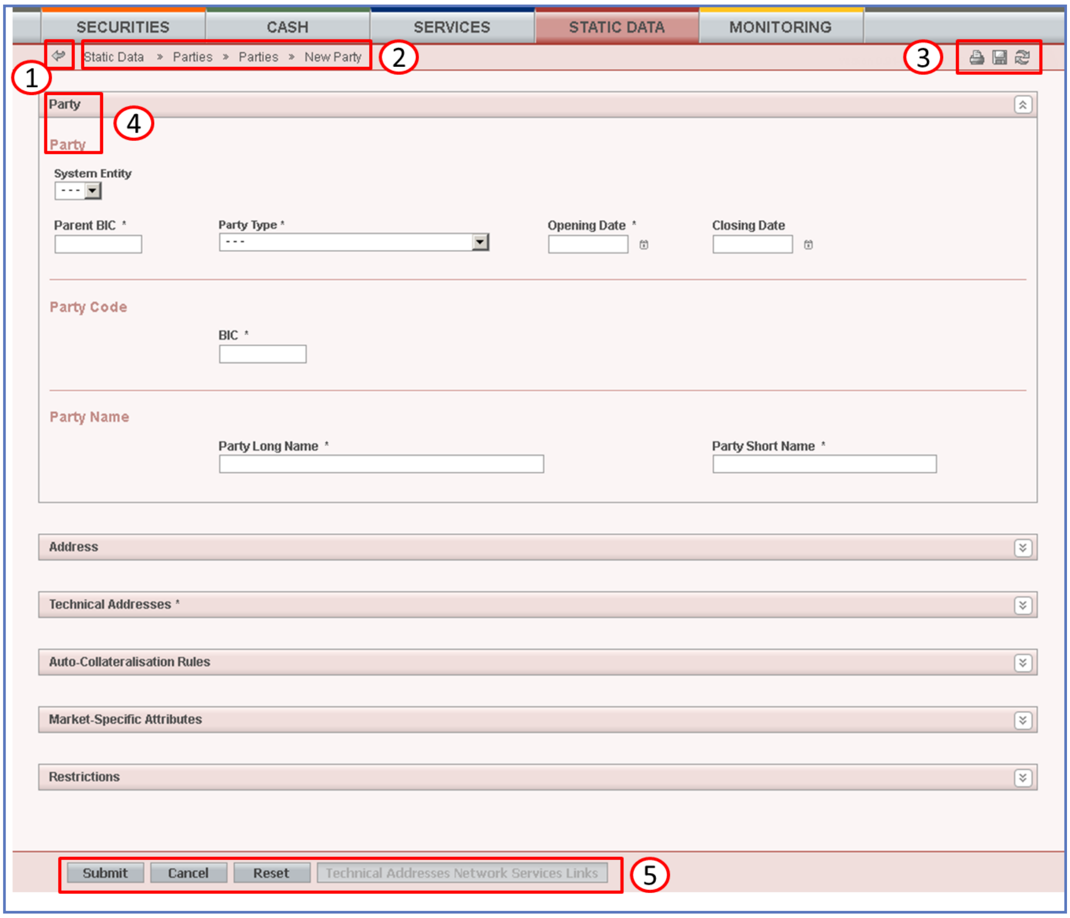


Illustration 5: Content area elements

Position No.	Element	Description
1	*Back* icon	... leads to the previous screen.
2	Breadcrumb	... shows the main path to the current screen.
3	*Print* icon	... prints the screen content.
	Export icon	... exports the content, which can then be saved to your local directory.
	Refresh icon	... reloads the screen.
4	Frame and sub-frame title	... groups related information as a structural function.
5	Button bar	... shows all available buttons for the current screen.

Further information about the icons can be found in the common buttons and icons section [66].

Screen Types

The T2S GUI consists of the following types of screens, each with a different function:

- *Welcome* screen
- *Search/List* screen
- *Details* screen
- *Enter* screen (usually *new* or *edit* screen)

Welcome Screen

The *welcome* screen is the entrance into the T2S GUI and allows you to choose your system user reference. It also contains a ticker line providing you with the latest information. The ticker is managed by the T2S operator.

Search/List Screen

Generally, you can access all *search/list* screens on menu level three~~, except the *itemised billing data – search/list* screen~~. You can find all possible ways of accessing the screen directly in the respective screen description within the screen reference part.

The *search/list* screen allows you to query the T2S database using a predefined set of search criteria. After executing a search, a list of data records matching your search criteria is displayed in a table. To select an entry from a list displayed on a *search/list* or *list* screen, click on the desired entry. The background colour of the table line changes to indicate the selected entry. If the search retrieves only one record, the *details* screen is displayed directly, if you are authorised to access the details screen, else the record is displayed in the table in the list screen. You can browse through the list using the table buttons [▶ 66]. Furthermore, it is possible to arrange your search results in ascending or descending order by the columns shown. This does not trigger a refreshed query.

Hint

If you find underlined static data objects (e.g. like a hyperlink on a webpage) in a list, this is an indication that there is further information available. By clicking on such an entry a new query is started and the corresponding information to this entry is shown in a separate pop-up window.

You can also execute a new search with different search criteria by changing the values in the search fields and clicking on the *search* button, triggering a new query.

The search/list function is usually combined in one screen. Before proceeding further with a screen button, select one of the data records in the table by clicking on it.

Hint

If you submit a query for a business object (e.g. eligible counterparty CSD) in a 'Valid from - Valid to' range, the query retrieves the values of the main business object and the values of the linked business object (e.g. investor BIC, parent BIC).
For the main business object, you receive the valid values of the 'Valid from - Valid to' range.
For the linked business object, you always receive the currently valid values of the date of the search and not the valid values of the 'Valid from - Valid to' range.

Details Screen In contrast to the *search/list* screen, you can only access the *details* screens via other screens. As the only exception, the *T2S calendar* screen is already available on menu level three. You can find all possible ways of accessing the screen via other screens in the respective screen description within the screen reference part.

All *details* screens provide you with in-depth information of a previously selected data record.

Before showing the *details* screen, a new query is forwarded to the system to ensure most up-to-date data.

Enter Screen Similar to the *details* screens, you can only access the *enter* screens through other screens, except for the *resend communication* screen, which is already available on menu level three.

Enter screens allow you to enter data, which can be done in two enter modes:

- New mode, represented by the *new* screens
- Edit mode, represented by the *edit* screens

In general, both modes contain the same fields. In the case of the *new* mode, all fields are blank. In the case of the *edit* mode, existing data are prefilled in the fields. In addition, one past value is reported (if available) which cannot be edited. You can edit the existing currently valid value by changing the content of the field. You can also enter a new future value by clicking on the *pencil* icon [▸ 66]. You can only edit an existing currently valid value if there is no future value stored.

As a general rule, all the 'Instructing Party BIC' and 'Instructing Party Parent BIC' fields are automatically filled in with the respective 'Party BIC' of the current GUI user in case they are not filled in when clicking on the *submit* button.

Field Types and Properties

On *search/list* and *enter* screens, you can enter information via input fields and select fields. Information is displayed in read-only fields.

Field Types

Input Fields

In input fields you can enter text and/or numeric content. Make sure to comply with the format requirements, which are part of each field/screen description.

Input-sensitive fields are input fields with an auto-complete mode that helps you to input data. As soon as you start typing the first characters of the respective data into an input-sensitive field, T2S automatically proposes possible matching entries from which you can select the desired one.

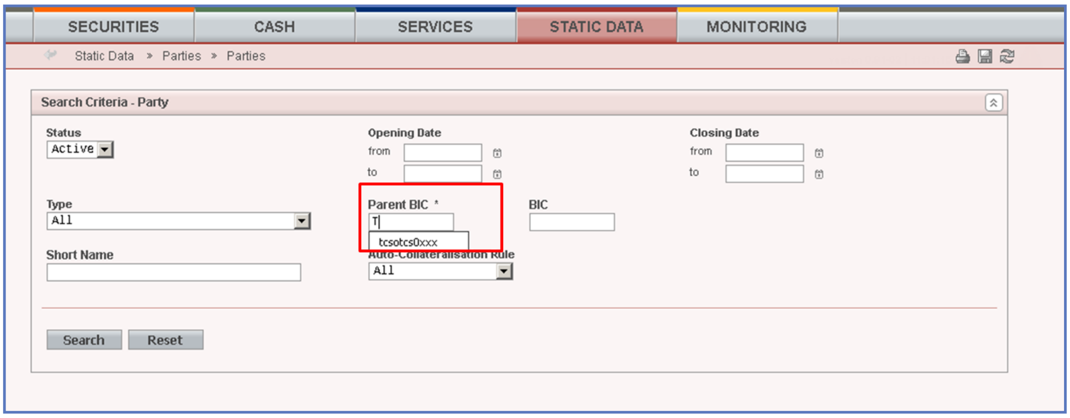


Illustration 6: Input- sensitive field

Hint

You can use the tab key on your keyboard to navigate through the GUI fields.

BIC8 that are entered via GUI are automatically supplemented to BIC11 by adding ‘XXX’ in order to unambiguously identify a party with the exception of the BICs referring to parties on party level 3-5 of the ‘Settlement Instruciton – New Screen’.

Select Fields

Select fields are either select boxes, radio buttons or check boxes.

- **Select boxes**: Functionally a select box is a way to enter data from a limited list of possible values. In T2S you can find different types of select boxes: standard select boxes and auto-complete select boxes.
  - The **standard select box** enables you to choose one entry from a predefined set of values. To select an entry, click on the little box with the arrow to open the menu. Then select the desired value by clicking on it.

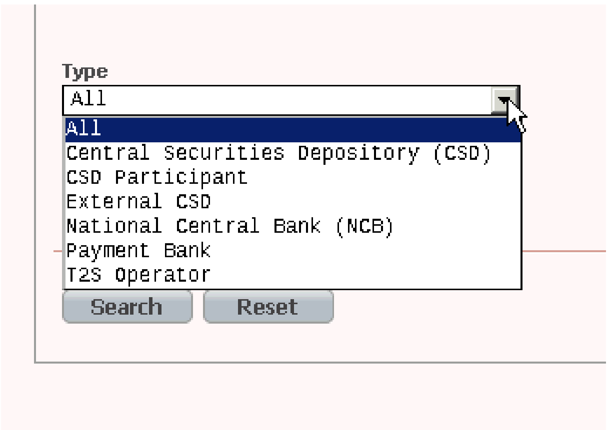


Illustration 7: Standard select box

The **auto-complete select box** enables you to either enter your desired value manually which will be used to reduce the possible set of values in the auto-complete select box to be chosen from or to click on the *auto-complete select box* icon, which provides you with a drop-down menu that shows the 10 first entries of the set of values irrespective of what you might have entered in the text field. In either way (meaning clicking on the icon or start typing an entry with the automatically shown list) up to 10 entries will be shown in the drop-down menu.

Auto-complete select box with manually entered values and auto-complete select box using the *auto-complete select box* icon.

The **google-style select box** enables you, on difference to the auto-complete select box, to make entries and choose values outside the standard set of values to be sent to the back-end for further validation (extended data scope). Due to that possibility of transporting unqualified data the validation of the values is restricted to basic checks and will be carried out mainly in the backend. Apart from that, the google-style select box functions similar to the auto-complete select box.

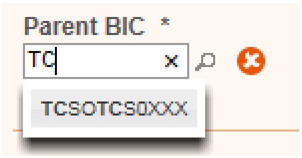


Illustration 8: Google-style select box

- **Radio buttons**: Enable you to make exact selections using one value from a set of options. You can select only one value at the same time. Click on the icon corresponding to the option you would like to select.

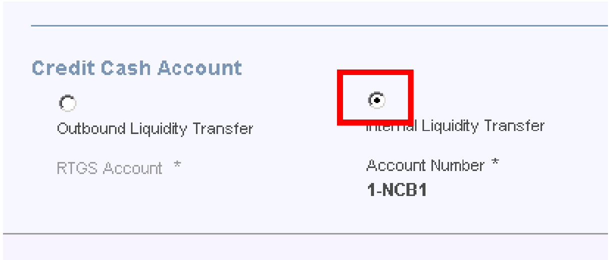


Illustration 9: Radio buttons

- **Check boxes**: Enable you to select more than one value at the same time. Click on the boxes corresponding to the options you would like to select. Selected check boxes contain a check mark.

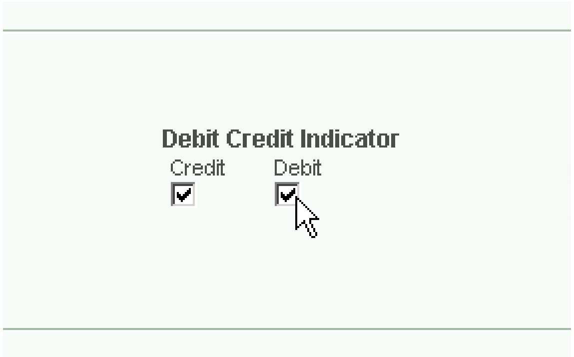


Illustration 10: Check boxes

Read-only Fields In addition to enter and select fields, the T2S GUI has also read-only fields, which are pre-filled and do not allow data changes.

Field Properties

All field types have specific properties with respect to possible character sets, usage of wildcards and mandatory content.

Characters T2S operates in British English and uses the SWIFT-x character set to enter data. After the coexistence, T2S will be using the UTF-8 character set is used with the exception of ‘<’, ‘>’ and ‘&’. Amounts are automatically displayed with decimal points. While negative amounts are displayed in red and marked with a ‘-’, you can only type amounts that are greater than or equal to 0 into input fields, unless specified otherwise in the screen description.

The GUI does not differentiate between upper and lower case in terms of data input for input fields.

Hint

Use the abbreviations 10m to enter the amount of 10 million (10,000,000) and 10t to enter the amount of 10 thousand (10,000).

The SWIFT-x character set is used in the text fields during the period of coexistence and corresponds with the following content:

Character	Description
a - z	26 small characters of the Latin alphabet
A - Z	26 capital characters of the Latin alphabet
0 - 9	10 numeric characters
/	Solidus (slash)
-	Hyphen
?	Question mark
:	Colon
(	Opening parenthesis
)	Closing parenthesis
.	Full stop
,	Comma
´	Apostrophe
+	Plus
	Space (blank)
CR	Carriage return
LF	Line feed

Hint

T2S does not process fields (mandatory or optional), that are only filled with blanks. Blanks appearing at the beginning or at the end of a field entry are deleted automatically without any notification.
Fields in a *list* or *details* screen, where the dataset was saved without an entry, are filled with ‘---’.

Some reference and identification fields need a reduced version of the SWIFT-x character set. For them, the character ’/’ cannot be accepted at the beginning or end of the string. Moreover the combination ‘//’ cannot be present in any part of the string itself.

These fields are identified by the SWIFT-x-red type.

Please note that because blank characters are always deleted from the beginning or end of the input – any sequence like ‘ /’ (for the beginning) or ‘/ ‘ (for the end) must be considered not accepted.

Wildcards

A wildcard is a placeholder for characters. In T2S you can use a wildcard in an input field to search for data. The required number of characters is indicated in the field description. You can use wildcards in two different ways:

- As a placeholder for one or more characters of the input value, use an asterisk (‘*’)
- As a placeholder for exactly one character of the input value, use a question mark (‘?’)

Examples

TARGET2*: The result list contains all data records beginning with ‘TARGET2’.

*Securities: The result list contains all data records ending with ‘securities’.

TARGET2-Securities: The result list contains all data records that have exactly one character before the ‘TARGET2-Securities’.

The combination of several wildcards directly after each other is not possible (e.g. TARGET2?* or TARGET2**), but it is possible to use several wildcards within one entry (e.g. ‘TARGET2-*’).

To properly search with wildcards, you have to insert at least two or four characters depending on the field requirements. If the fields do not allow wildcards, it is mentioned explicitly in the respective field description (under format requirements). Please note that the wildcard functionality is only available for input fields and not for select boxes.

Mandatory Content

In the GUI all mandatory fields are marked with an asterisk in the label. All marked fields have to be filled in before you are allowed to proceed.

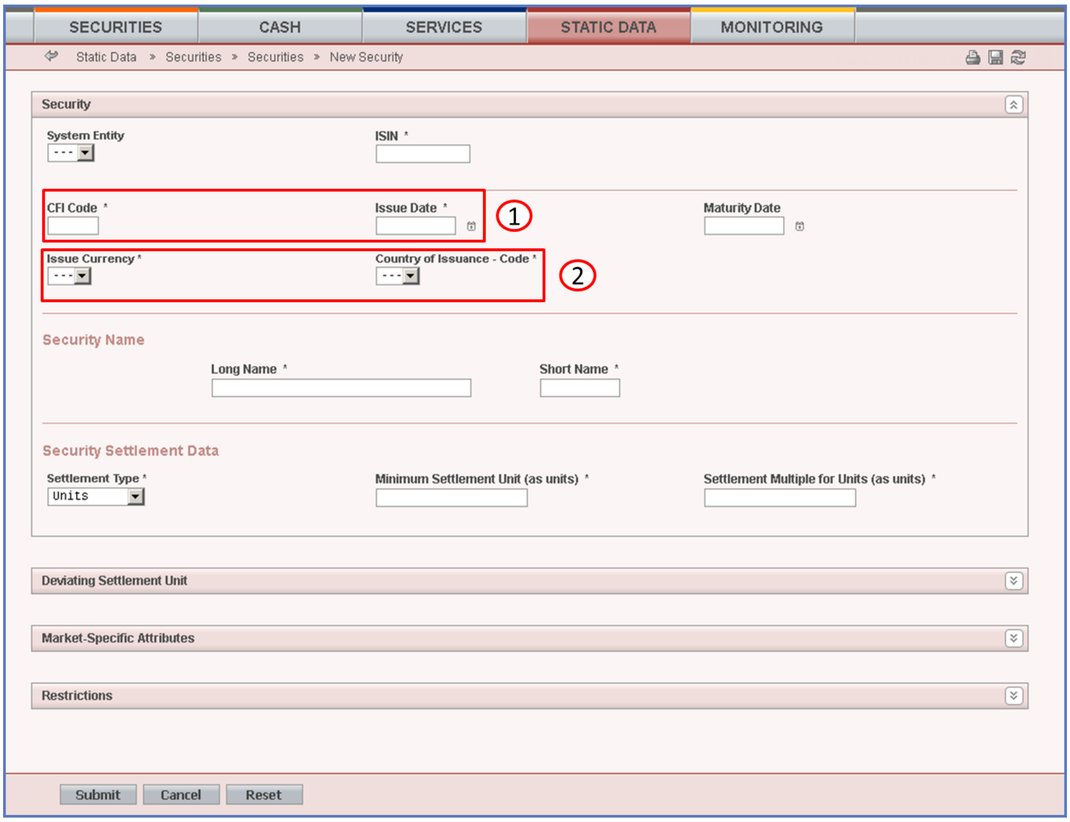


Illustration 11: Mandatory fields

Position No.	Description
1	Mandatory input field
2	Mandatory select field

Common Buttons and Icons

While working with the T2S GUI you will find that some buttons and icons appear regularly. There are three types of common elements:

- Basic icons, which you can find on every screen
- Utility elements, which represent functions within the content area
- Table elements, which you can find below data record lists on *search/list*

The buttons contained in the button bar are variable and therefore explained in the screen descriptions.

Basic Icons

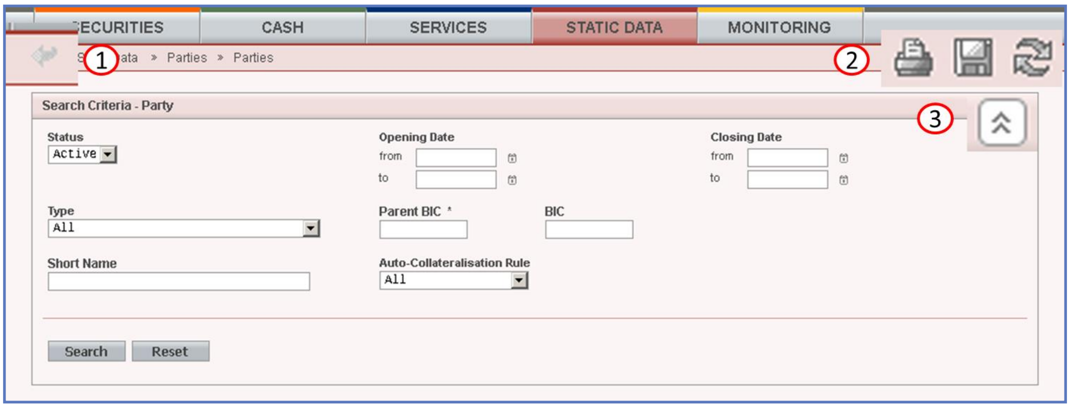


Illustration 12: Basic buttons

Posi-tion No.	Element	Description
1	*Back* icon	... always leads to the previous functional screen. The usage of the *back* icon does not lead to an update or a refresh of the query of the screen. Do not use the *back* button of your web-browser to return to the previous screen, to avoid data loss. The *back* icon is common to all T2S screens except for the *welcome* and *search* screens.
2	*Print* icon	... prints the data of the current screen. The printout includes the name of the printed screen, the date and the time of printing, the data access time, the name of the user who triggered the printing, the classification label 'Restricted' and the data available on the screen. It is strongly recommended to use this button for generating a clearly arranged overview of data on the printout. When printing a *list* screen on your standard printer, the whole list and search criteria are printed instead of only the part of the table visible on the screen. If you print an *edit* screen with data that have already been modified, the printout has the remark 'Changed Data'. If you print a *new* screen with data that have already been entered, the printout has the remark 'Not Stored Yet'. The *print* icon is common to all T2S screens except for the *welcome* screen.

Position No.	Element	Description
	Export icon	... exports the data of the executed query from the current screen into a csv-file. Leading and trailing space-characters adjacent to comma field separators are to be ignored. If exporting a list, the related search criteria are exported as well whereas detailed data are only exported, if the respective *list* and the *details* screen are covered by the same query. Otherwise just the list entry will be exported. The *export* icon is common to all T2S screens except for the *welcome* and the *new* screens. In addition to the exported data from the screen the following information is exported at the start of the file: name of the exported screen (including menu path), current date, name of the user who triggered the exporting, classification label ‘RESTRICTED’, defined search criteria (query parameters, if applicable), ‘CHANGED DATA‘ when exporting an *edit* screen which contains amended data that has not been submitted yet.
	Refresh icon	... reloads the screen. In new and edit modes the screen is locked, so it is not possible to refresh. The refresh function takes into account the search criteria that were chosen the last time the *search* button was clicked. Those search criteria will be displayed again. Changes that have not yet been saved are lost after using the *refresh* icon. The *refresh* icon is common to all T2S screens except for the *welcome* screen.
3	*Collapse* icon	... hides/displays the frame. When first entering a screen, all frames are shown but can be hidden according to your preference by using the *collapse* icon.

Utility Elements

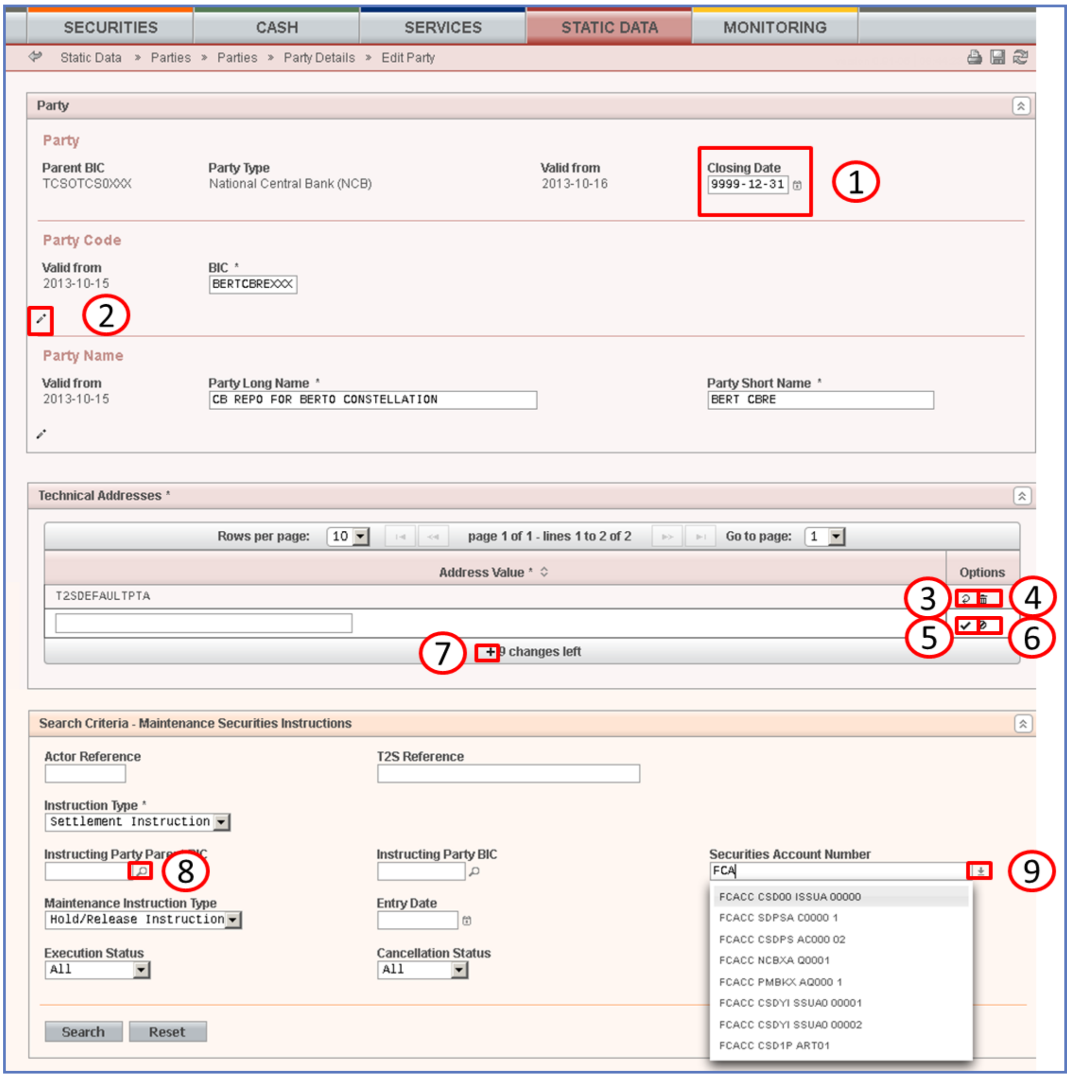


Illustration 13: Utility elements

Position No.	Element	Description
1	*Calendar* icon	... opens a calendar where you can select a day. If applicable, you can also select the time via the *calendar* icon.
2	*Pencil* icon	... enables you to enter a new future value into an input field. In edit mode, you can either change an existing data record or enter a new future one. If you have changed the existing current value before entering a future one, the data are restored. The *pencil* icon is only available on *edit* screens.

Posi-tion No.	Element	Description
3	*Copy row* icon	... adds a row to the corresponding list using the values in-serted in the related fields. The *add row* icon is only available on *new* and *edit* screens. It is possible to clone a previously edited row by selecting the respective row and clicking on the *copy row* icon. The *copy row* icon is only available on *new* and *edit* screens. You can insert a maximum of 10 rows at a time.
4	*Delete row* icon	... removes the selected row in the corresponding list as well as fields or sub-frames. The *delete row* icon is only available on *new* and *edit* screens.
5	*Submit changes* icon	... updates the selected row in the corresponding list using the values inserted in the related fields. The *submit changes* icon is only available on *new* and *edit* screens.
6	*Cancel changes* icon	... enables you to leave the selected and edited row with-out causing any changes. The *cancel changes* icon is only available on *new* and *edit* screens.

Position No.	Element	Description
7	*Add row* icon	... adds an empty row to the corresponding list. The *add row* icon is only available on *new* and *edit* screens. You can insert a maximum of 10 rows at a time.
8	*Magnifier* icon	... provides the possibility to search for data on other screens. If you are not aware of the exact/correct value, but you know other related data, click on the *magnifier* icon to enter the *search* screen. There you can enter all information known to you and execute a search. By clicking on the *select* button, you are redirected to the initial screen with the desired data entered in the respective fields. The attribute equipped with magnifier icon works otherwise like an auto-complete select box.
9	*Auto-complete select box* icon	...provides you the possibility to use the auto-complete functionality, while the drop-down menu opens when clicking on it. You can select one of the provided entries, when clicking on an entry in the list.

Table Elements

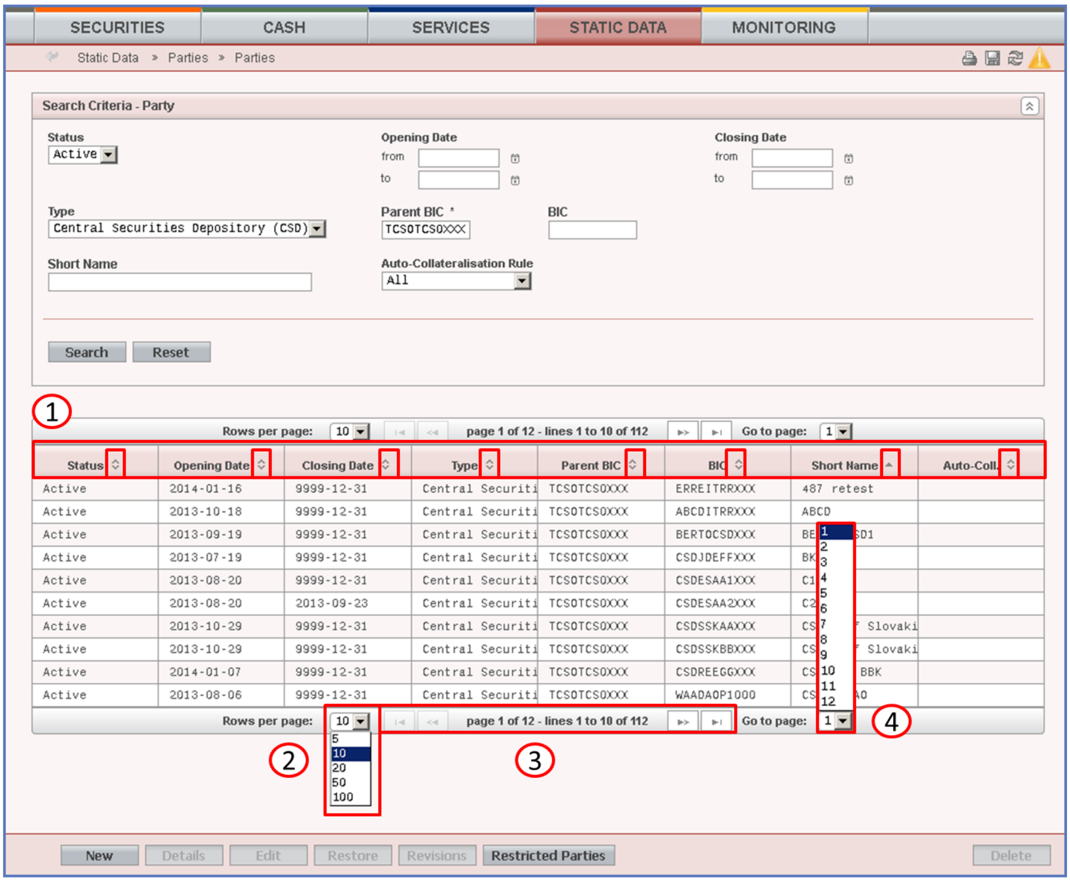


Illustration 14: Table elements

Posi-tion No.	Element	Description
1	*Sort* icon	... sorts the list in ascending or descending order by click-ing on the up or down arrow.
2	Number of data rec-ords	... allows you to select the number of records displayed in the list. You can choose between 5, 10, 20, 50 or 100 data records to be displayed. The default number of data rec-ords to be displayed is 100.
3	*First* icon	... displays the first page of the list.
	Previous icon	... allows you to navigate through the displayed list and takes you to the previous page.
	Next icon	... allows you to navigate through the displayed list and takes you to the following page.
	Last icon	... displays the last page of the list.

Position No.	Element	Description
4	Number of table pages	... allows you to select the table page number you would like to go to.

Validation

In T2S, all submission processes undergo various validations, which take place in the front-end and/or in the back-end. Only correct entries, fulfilling all predefined criteria, can be further processed. To indicate the status of the recently performed action, T2S uses two different types of messages to indicate a successful or failed validation as described below.

In addition to the automatic validation carried out by T2S, human validation can be imposed by using the 4-eyes mode.

Furthermore, non-repudiation of origin (NRO) is implemented for a specified number of screens.

Front-End Validation

As first part of the validation process, the front-end validation takes place without communication to the back-end. The front-end validation includes both the field validation and the cross-field validation. It is carried out after clicking on a button.

The field validation verifies that all entries comply with the required format.

The cross-field validation checks the data consistency between two or more fields/buttons in relation to each other.

Confirmation Prompt

In the case of business actions in 2-eyes mode, a confirmation prompt is shown after successful front-end validation to give you the opportunity to submit or reject the business action. This confirmation prompt does not appear in 4-eyes mode.

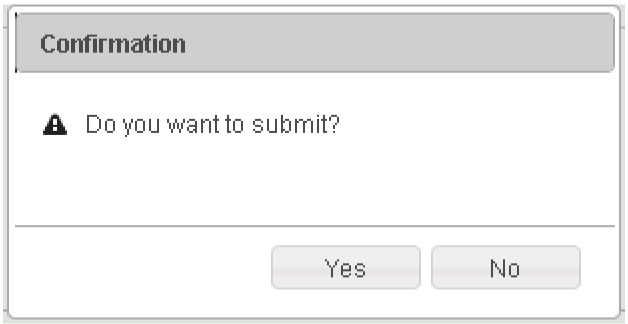


Illustration 15: Confirmation prompt

The back-end validation is the second part of the validation process. After successful front-end validation, your request is submitted to the back-end and checked for compliance with the business validation rules. In case of failure an error message is displayed. You can find a detailed list of all error messages and

Back-End Validation Result

their description in the annex of the UHB (list of references for error messages [**Error! Bookmark not defined.**]).

After each validation, the T2S GUI informs you about the result. There are two different message types available, the **error message** and the **success message.**

Error Message

Each error message is marked with a circle symbol and appears at the top of the content area and next to the field containing the error. In the case of a failed front-end or back-end validation, it indicates the source of the failure, the type of error and a short hint. This message is also shown as mouse-over text when you move the mouse curser over the circle symbol next to the respective input field.

In case a Settlement Instruction or Settlement Restriction fulfils a rejection restriction type one positive rule, the error message provided in the GUI will also contain the relevant rule id fulfilled in addition to the relevant error message applicable as described in the error messages annex of the UHB (list of references for error messages).

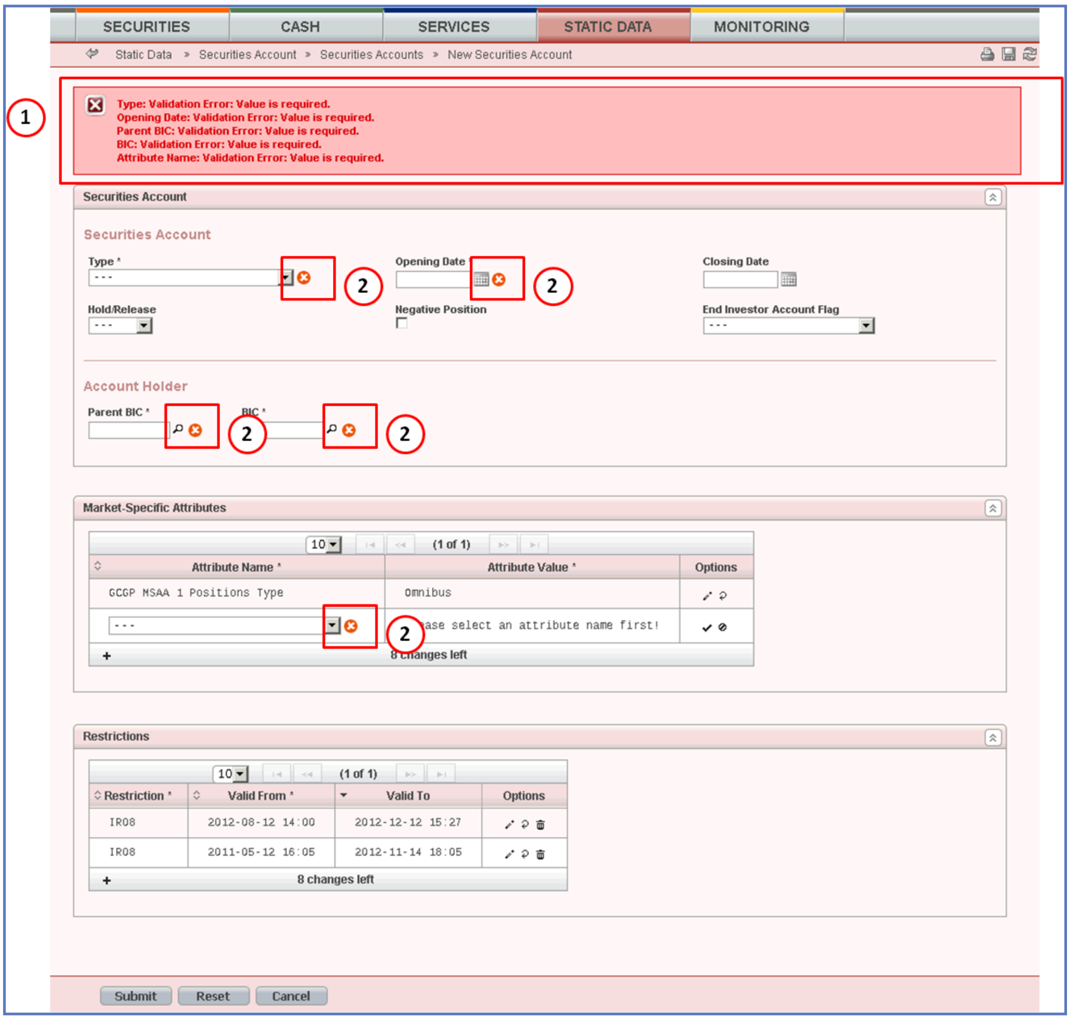


Illustration 16: Error message

Position No.	Description
1	Type of error and short hint
2	Source of the failure

Success Message

The success message appears in a green frame at the top of the content area. It confirms that your data have been submitted successfully.

In case a Settlement Instruction fulfils a CSD validation hold restriction type one positive rule, the success message provided in the GUI will also contain the relevant rule id fulfilled in addition to the relevant error message applicable as described in the error messages annex of the UHB (list of references for error messages).

If the Settlement Instruction fulfils a rejection and/or CSD validation hold restriction type one negative rule, the success message provided in the GUI will also contain the relevant rule id fulfilled. The same applies in case a Settlement Restriction fulfils a rejection restriction type one negative rule.

If you are working in 4-eyes mode, the success message also provides you with the 4-eyes principle ID. This identification number helps you to search for the respective transaction via the *data changes – search/list* screen [**Error! Bookmark not defined.**].

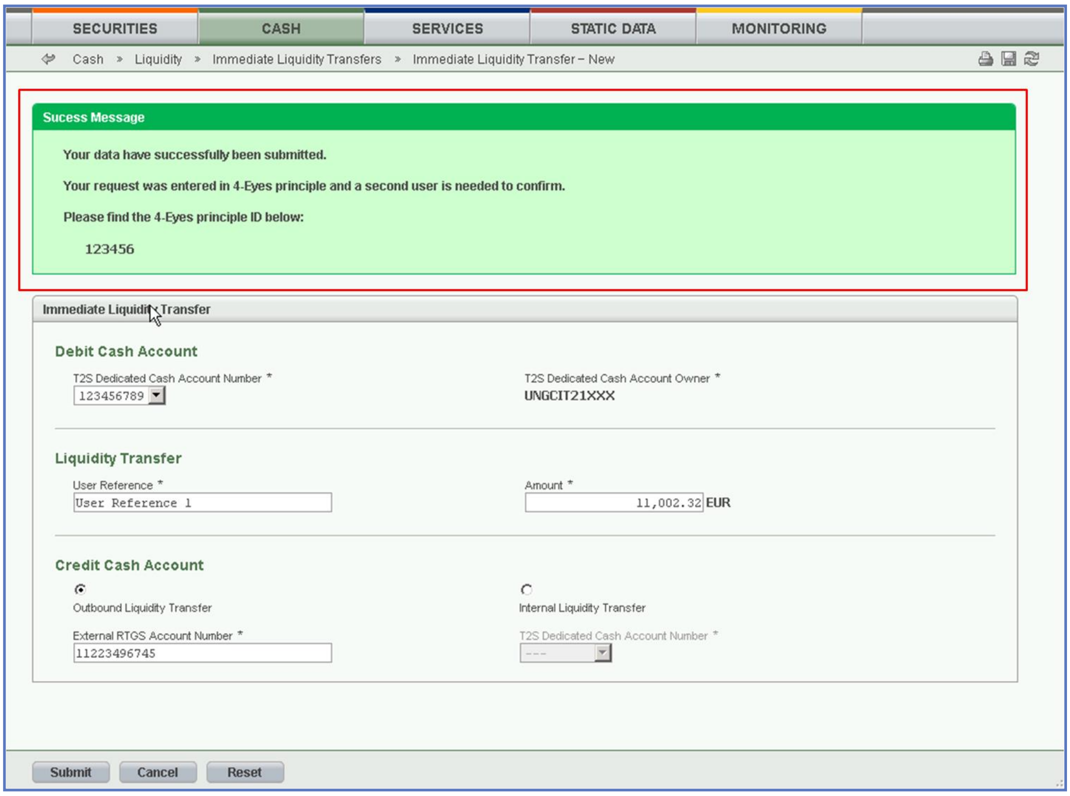


Illustration 17: Success message

Queued Message

If you are submitting a static data request outside real-time settlement, your request could be queued. In this case, instead of the above mentioned success message the following message is shown: ‘Your request has been queued successfully and will be resumed after the end of the current night-time settlement sequence’.

4-Eyes Mode

Depending on the access rights setup, you can use T2S in 2-eyes or in 4-eyes mode. The 2-eyes mode and the 4-eyes mode apply for *enter* screens (new and edit mode) and for any kind of deletion processes. If you are a 4-eyes mode user, your actions have to be confirmed by a second user in order to be processed.

First User

In 4-eyes mode the first user enters, changes or deletes the data on a screen and afterwards submits the action by clicking on the *submit* button in the button bar. The success message appearing after successful validation includes a 4-eyes principle ID. For the final execution a second user is needed to confirm the action.

Second User

After the first user has entered, changed or deleted the data, a second user (with the required privilege) has to approve or revoke this action via the *data changes* screen [▸ **Error! Bookmark not defined.**] either using the 4-eyes principle ID or the search functionality.

An *alert* icon is shown on the active T2S screen for those users with appropriate privileges to approve a pending action via the *data changes* screen. By clicking on the *alert* icon you are directed to the *data changes - search/list* screen [**Error! Bookmark not defined.**] where you can first search and then approve/revoke the pending changes.

Hint

Ask the first user for the 4-eyes principle ID and use it to limit the number of search results on the *data changes – search/list* screen.

As soon as the data changes are positively approved, T2S marks these data as approved and they are forwarded to further processing.

Digital Signature – NRO

In order to ensure non-repudiation of origin (NRO) for critical transactions, the use of a digital signature has been implemented for specified screens. This means that the user will be asked to enter a PIN code for signature purposes whenever an instruction is initiated. With the entry of the PIN, T2S attaches a digital signature to the instruction entered by the T2S actor.

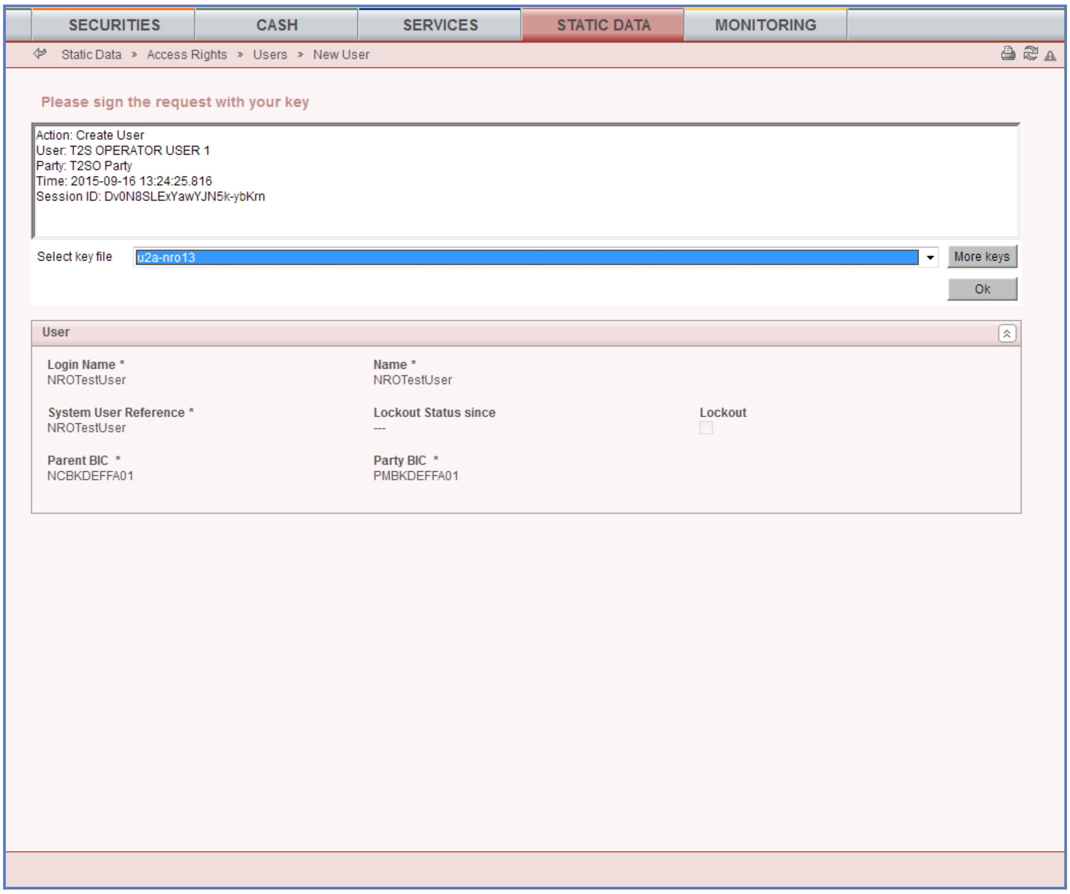


Illustration 18: Digital signature

The following (exhaustive) list provides an overview of screens for which the NRO feature is implemented:

- *Amendment cash instruction - new* screen [▸ **Error! Bookmark not defined.**]
- *Amendment securities instruction - new* screen [▸ **Error! Bookmark not defined.**]
- *Attribute domains - search/list* screen [▸ **Error! Bookmark not defined.**]
- *Attribute domain - details* screen [▸ **Error! Bookmark not defined.**]
- *Attribute domain - new/edit* screen [▸ **Error! Bookmark not defined.**]
- *Attribute domain references - list* screen [▸ **Error! Bookmark not defined.**]
- *Attribute domain reference - details* screen [▸ **Error! Bookmark not defined.**]
- *Attribute domain reference - new/edit* screen [▸ **Error! Bookmark not defined.**]
- *Broadcast - new* screen [▸ **Error! Bookmark not defined.**]
- *Cancellation cash instruction - new* screen [▸ **Error! Bookmark not defined.**]
- *Cancellation securities instruction - new* screen [▸ **Error! Bookmark not defined.**]
- *CoSD rules - search/list* screen [▸ **Error! Bookmark not defined.**]
- *CoSD rule - new/edit* screen [▸ **Error! Bookmark not defined.**]
- *CoSD rule sets - search/list* screen [▸ **Error! Bookmark not defined.**]
- *CoSD rule set - new/edit* screen [▸ **Error! Bookmark not defined.**]
- *CSD account links – search/list* screen [▸ **Error! Bookmark not defined.**]
- *CSD account link - new/edit* screen [▸ **Error! Bookmark not defined.**]
- *Data change – details* screen [▸ **Error! Bookmark not defined.**]
- *Eligible counterpart CSDs – search/list* screen [▸ **Error! Bookmark not defined.**]
- *Eligible counterpart CSD – details* screen [▸ **Error! Bookmark not defined.**]
- *Eligible counterpart CSD - new/edit* screen [▸ **Error! Bookmark not defined.**]
- *Grant/revoke cross-system entity object privilege - new/edit* screen [▸ **Error! Bookmark not defined.**]
- *Grant/revoke object privilege - new/edit* screen [▸ **Error! Bookmark not defined.**]
- *Grant/revoke role - new/edit* screen [▸ **Error! Bookmark not defined.**]
- *Grant/revoke system privilege - new/edit* screen [▸ **Error! Bookmark not defined.**]
- *Hold/release instruction - new* screen [▸ **Error! Bookmark not defined.**]
- *Immediate liquidity transfer order - new* screen [▸ **Error! Bookmark not defined.**]

- *Intra-balance movement - new* screen [**Error! Bookmark not defined.**]
- *Intra-position movement - new* screen [**Error! Bookmark not defined.**]
- *Market-specific attributes - search/list* screen [**Error! Bookmark not defined.**]
- *Market-specific attribute - details* screen [**Error! Bookmark not defined.**]
- *Market-specific attribute - new/edit* screen [**Error! Bookmark not defined.**]
- *Restriction types - search/list* screen [**Error! Bookmark not defined.**]
- *Restriction type - new/edit* screen [**Error! Bookmark not defined.**]
- *Restriction type rule sets - list* screen [**Error! Bookmark not defined.**]
- *Restriction type rule - details* screen [**Error! Bookmark not defined.**]
- *Restriction type rule – new/edit* screen [**Error! Bookmark not defined.**]
- *Roles – search/list* screen [**Error! Bookmark not defined.**]
- *Role - new/edit* screen [**Error! Bookmark not defined.**]
- *Secured groups - search/list* screen [**Error! Bookmark not defined.**]
- *Secured group – details* screen [**Error! Bookmark not defined.**]
- *Secured group - new/edit* screen [**Error! Bookmark not defined.**]
- *Securities accounts - search/list* screen [**Error! Bookmark not defined.**]
- *Securities account - details* screen [**Error! Bookmark not defined.**]
- *Securities account - new/edit* screen [**Error! Bookmark not defined.**]
- *Securities account transfer management - edit* screen [**Error! Bookmark not defined.**]
- *Security CSD links – search/list* screen [**Error! Bookmark not defined.**]
- *Security CSD link – details* screen [**Error! Bookmark not defined.**]
- *Security CSD link – new/edit* screen [**Error! Bookmark not defined.**]
- *Settlement instruction - new* screen [**Error! Bookmark not defined.**]
- *Standing/predefined liquidity transfer orders - search/list* screen [**Error! Bookmark not defined.**]
- *Standing/predefined liquidity transfer order - details* screen [**Error! Bookmark not defined.**]
- *Standing/predefined liquidity transfer order - new/edit* screen [**Error! Bookmark not defined.**]
- *Standing/predefined liquidity transfer order link sets - search/list* screen [**Error! Bookmark not defined.**]
- *Standing/predefined liquidity transfer order link set - details* screen [**Error! Bookmark not defined.**]

- *Standing/predefined liquidity transfer order link set - new/edit* screen [**Error! Bookmark not defined.**]
- *Users - search/list* screen [**Error! Bookmark not defined.**]
- *User - details* screen [**Error! Bookmark not defined.**]
- *User - new/edit* screen [**Error! Bookmark not defined.**]
- *User certificate distinguished name links - search/list* screen [**Error! Bookmark not defined.**]
- *User certificate distinguished name links - new* screen [**Error! Bookmark not defined.**]

Communication Network and Services

Refer to the T2S Connectivity Guide document for details on the communication network and services.

User Administration

Registration

Only registered users have access to the T2S GUI, therefore registration in T2S reference data and to the network is necessary prior to the first GUI access. The Registration Guide for User Testing provides information on how to fill in T2S Registration Forms properly, e.g. access rights or white labelling.

After registration the system administrator is given the possibility to grant and revoke privileges to its users within the T2S GUI as described in both the screen reference part and the user instructions part.

Security and Certification Service

In order to guarantee a secure and safe handling of the information and to protect customer data provided via the GUI, various security elements have been put into place:

- Each action requires system or human validation as described in the validation [73]
- The scope of available data and functions is controlled via the management of access rights
- The security features provided by the network providers and described in their respective user documentation prevent unauthorised access

Online Help

The content of the UHB can be accessed from the T2S GUI by clicking on the *help* button. The online help is context sensitive, which means that the screen description corresponding to the current screen is displayed. Other parts of the online help can be reached using the table of contents on the left side of the help window.

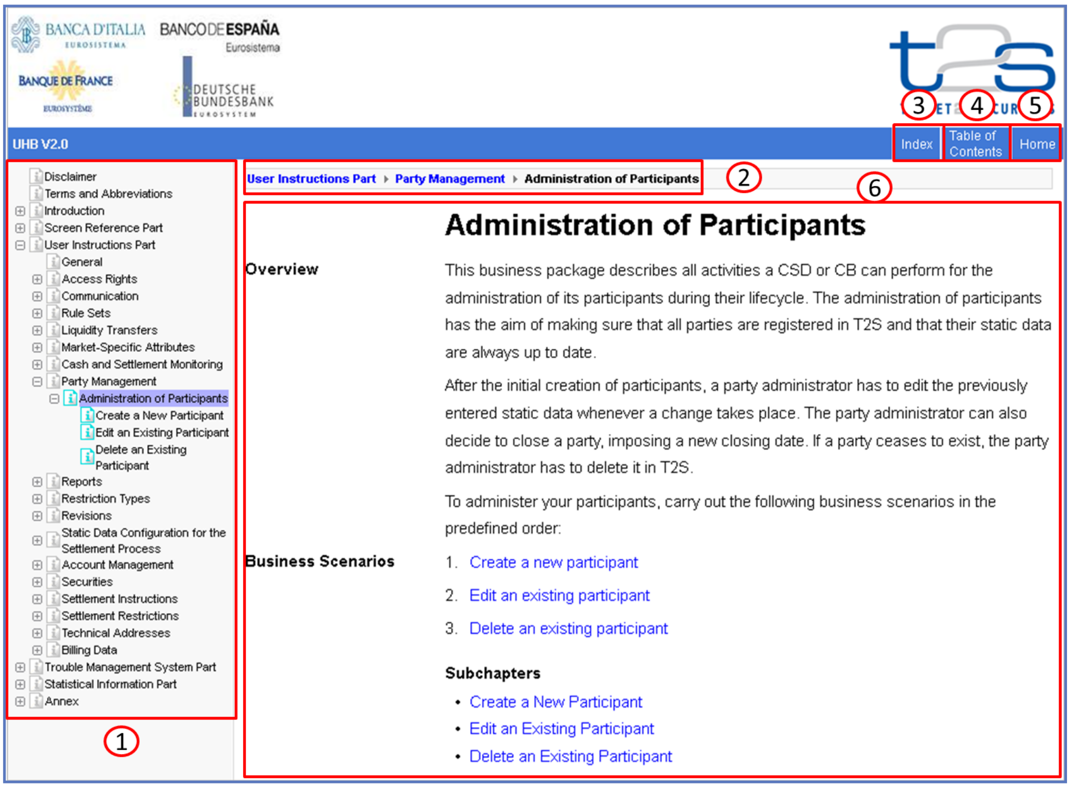


Illustration 19: Online help screen for ‘Administration of Participants’ business package.

Position No.	Description
1	Structure tree showing the table of contents, providing access to all handbook sections
2	Clickable breadcrumb
3	*Index* button leading to the online help index
4	*Table of contents* button leading to the online help table of contents
5	*Home* button leading to online help welcome screen
6	*Help* screen content

1.3 Overview of the Graphical User Interface for CoCo GUI

The GUI is a browser-based application for communication with CRDM in U2A mode. It is based on the ISO norm 9241 'Ergonomics of human system interaction'.

1.3.1 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.

Common components are accessed entering the ESMIG Portal and selecting the proper common components under the service T2S.

Hardware requirements Please refer to ESMIG qualified configurations document.

Software requirements Please refer to ESMIG qualified configurations document.

Supported Web-Browsers and Settings Please refer to ESMIG qualified configurations document.

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 Please refer to ESMIG qualified configurations document.

1.3.2 GUI Structure

This chapter explains the basic elements of the CRDM GUI structure (i.e. structure of the menu and the screens) helping you to navigate through the system and to use it quickly and efficiently.

The first subsection describes the menu structure where screens are grouped hierarchically. Afterwards, the second subsection explains the layout structure common to each screen. The following subsections provide details on the different screen types [⏵] and on recurring elements, such as common field types [⏵] or buttons and icons [⏵].

1.3.2.1 Menu Structure

The GUI menu is structured into four hierarchical menu levels. The hamburger menu appears when the proper icon is selected. After the first level is presented, it is possible to choose the functionalities that are common to the shared services and those that are specific for T2 or TIPS. Then the menu can be further navigated - the second, third and fourth menu levels are accessible via mouse-over on the first-level menu item - in order to select the desired functionality.

Hint

Depending on your access rights, it is possible that not all menu entries are visible for you. Contact your system administrator to verify that you have the necessary privileges to access all screens relevant to you. The privileges are listed in each screen and business scenario description.

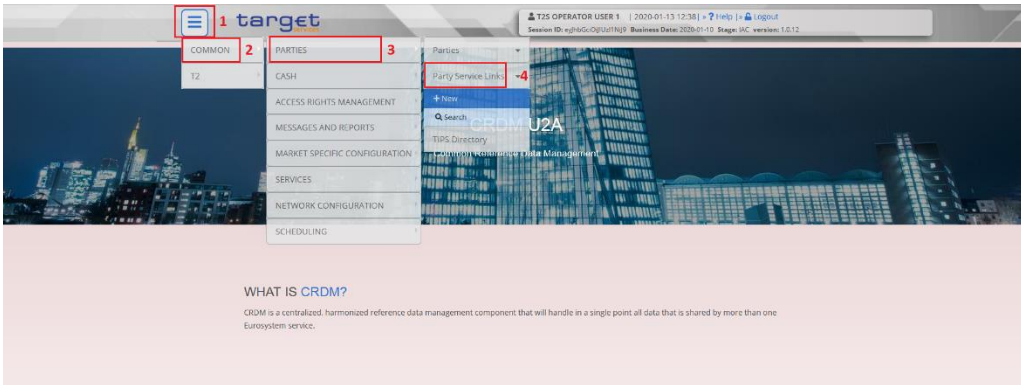


Illustration 20: CRDM menu levels

Position No.	Description
1	Menu level 1
2	Menu level 2
3	Menu level 3
4	Menu level 4

All entries on the third menu level are structural subcategories. To access a screen you have to click on the fourth menu level.

1.3.2.2 Screen Structure

In general, each screen of the CRDM GUI follows the same layout containing a header and a content area.

The header appears at the top of every screen. It contains three main elements providing useful information and helping you to navigate between the different screens as shown in the illustration below.

Header

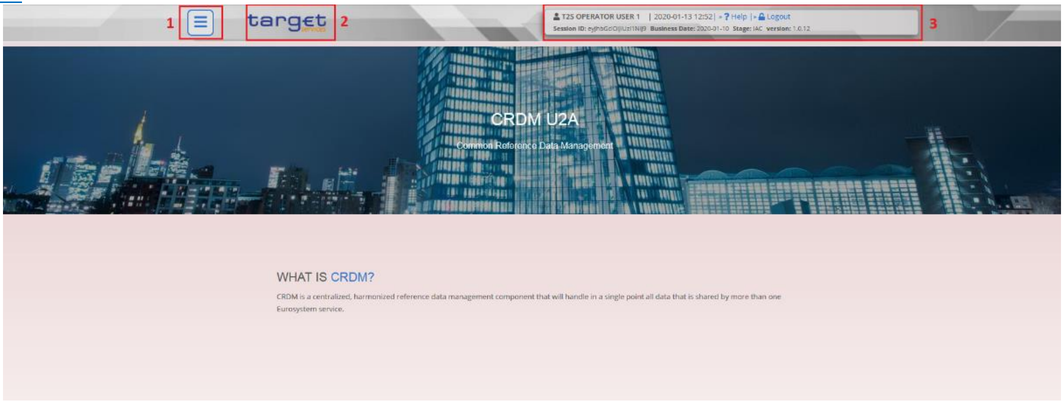


Illustration 21: Header elements

Position No.	Element	Description
1	Menu bar	... presents the main menu item and allows you to navigate to the screens.
2	*CRDM logo* button	... links to the welcome screen.
3	Information panel	... displays your login name, the *logout* and *help* buttons as well as date and time of last data access.

Content Area

The content area is the part of the GUI where you can trigger all business actions. It is organised by five main elements which help you to interact properly with the GUI as shown in the illustration below.

To structure large amounts of data, the content area is further separated into frames and subframes.

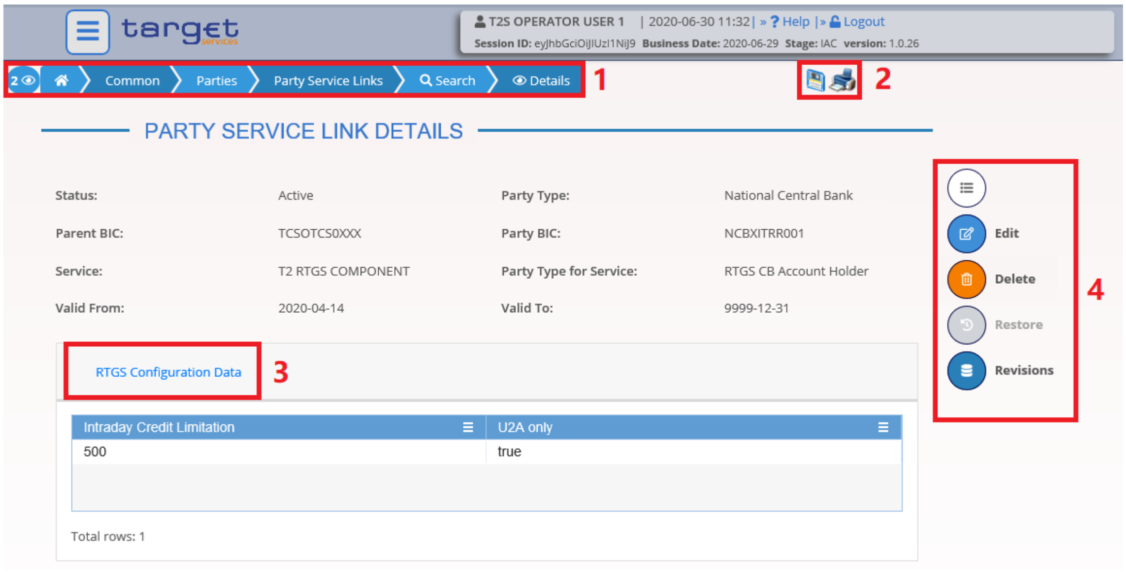


Illustration 22: Content area elements

Position No.	Element	Description
1	Breadcrumb	... shows the main path to the current screen.
2	Basic icons	... exports or prints the screen content.
3	Frame and sub-frame title	... groups related information as a structural function.
4	Button bar	... shows all available buttons for the current screen.

Further information about the icons can be found in the common buttons and icons section.

1.3.2.3 Screen Types

The CRDM GUI consists of the following types of screens, each with a different function:

- *Welcome* screen
- *Search/List* screen
- *Details* screen
- *Enter* screen (usually *new* or *edit* screen)

Welcome Screen

Business scenarios are divided into single action steps. These action steps are numbered sequentially. Intermediate results are described where appropriate and marked with an indented arrow. Each business scenario ends with a final result, indicated by an arrow.

Search/List Screen

You can access all search/list screens on menu level four.

The *search/list* screen allows you to query the CRDM database using a predefined set of search criteria. After executing a search, a list of data records matching your search criteria is displayed in a table. To select an entry from a list displayed on a *search/list* or *list* screen, click on the desired entry. The background colour of the table line changes to indicate the selected entry. If the search retrieves only one record, the *details* screen is displayed directly, if you are authorised to access the *details* screen, else the record is displayed in the table in the *list* screen. You can browse through the list using the table buttons. Furthermore, it is possible to arrange your search results in ascending or descending order by the columns shown. This does not trigger a refreshed query.

Details Screen

In contrast to the *search/list* screen, you can only access the *details* screens via other screens.

All *details* screens provide you with in-depth information of a previously selected data record.

Before showing the *details* screen, a new query is forwarded to the system to ensure most up-to-date data.

Enter Screen

Similar to the *details* screens, you can only access the *enter* screens through other screens.

Enter screens allow you to enter data, which can be done in two enter modes:

- New mode, represented by the *new* screens
- Edit mode, represented by the *edit* screens

In general, both modes contain the same fields. In the case of the *new* mode, all fields are blank. In the case of the *edit* mode, existing data are prefilled in the fields. In addition, one past value is reported (if available) which cannot be edited. You can edit the existing currently valid value by changing the content of the field. You can only edit an existing currently valid value provided that there is no future value. Otherwise, you need to delete the existing future value beforehand. You can also enter a new future value by clicking on the *pencil* icon.

1.3.2.4 Field Types and Properties

Field Types

The description of the common field types with the proper descriptions follow.

Input Fields

In input fields you can enter text and/or numeric content. Make sure to comply with the format requirements, which are part of each field/screen description.

Input-sensitive fields are input fields with an auto-complete mode that helps you to input data. As soon as you start typing the first characters of the respective data into an input-sensitive field, CRDM automatically proposes possible matching entries from which you can select the desired one.

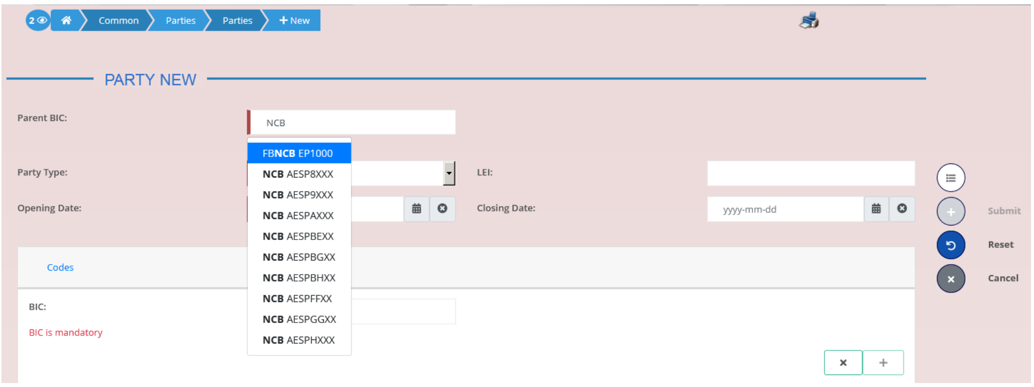


Illustration 23: Input-sensitive field

Hint

You can use the tab key on your keyboard to navigate through the GUI fields.

BIC8 that are entered via GUI are automatically supplemented to BIC11 by adding 'XXX' in order to unambiguously identify a party.

Select Fields

Select fields are either select boxes, radio buttons or check boxes.

- **Select boxes**: Functionally a select box is a way to enter data from a limited list of possible values. In CRDM you can find different types of select boxes, standard select box, input-sensitive select box and auto-complete select box.
- **The standard select box** enables the user to choose one entry from a predefined set of values. To select an entry, click on the little box with the arrow to open the menu. Then select the desired value by clicking on it.

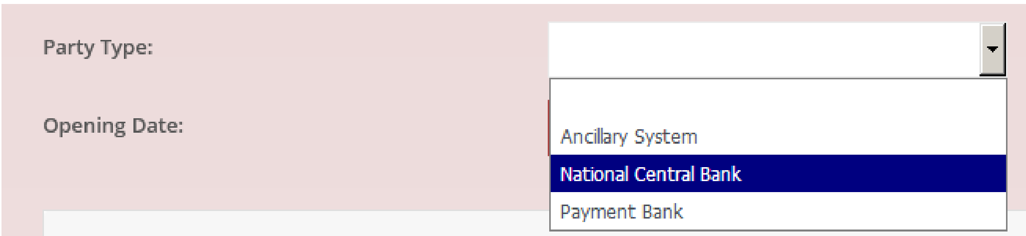


Illustration 24: Standard select box

- **The input-sensitive select box** enables the user to enter the desired value manually, which will be used to reduce the possible set of values in the input-sensitive select box list, which provides you with a drop-down menu that shows the 10 first entries of the set of values irrespective of what you might have entered in the text field.

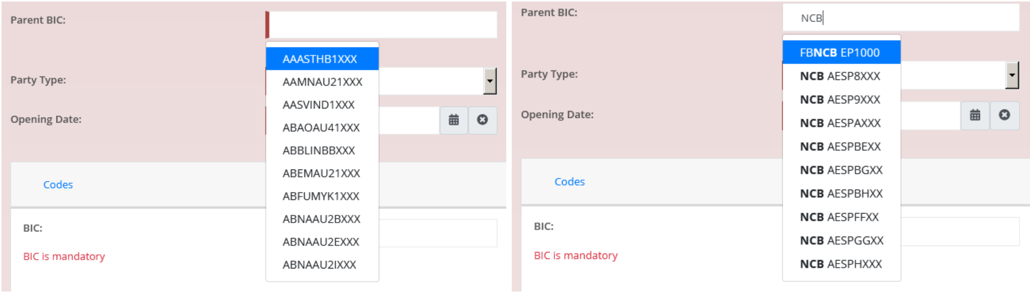


Illustration 25: Input-sensitive select box using the *input-sensitive select box* icon and *input-sensitive* select box with manually entered values.

- **The auto-complete select box** enables the user, differently from the input-sensitive select box, to make entries and choose values outside the standard set of values to be sent to the back-end for further validation (extended data scope). Due to that possibility of transporting unqualified data the validation of the values is restricted to basic checks and will be carried out mainly in the backend. Apart from that, the auto-complete select box functions similar to the input-sensitive select box.

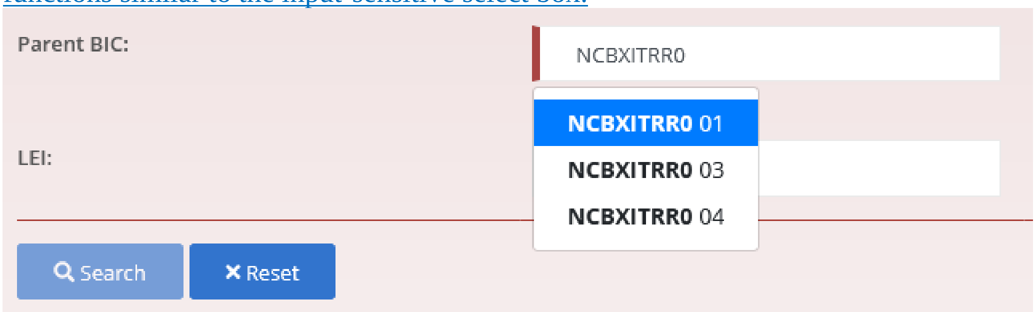


Illustration 26: Auto-complete select box

- **Radio buttons**: Enable the user to make exact selections using one value from a set of options. You can select only one value at the same time. Click on the icon corresponding to the option you would like to select.

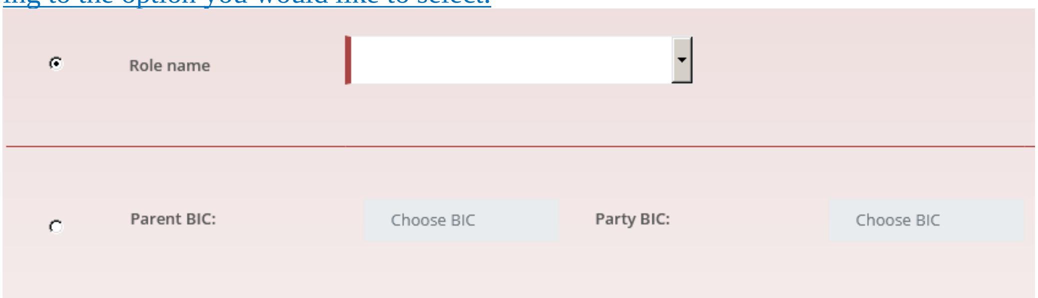


Illustration 27: Radio buttons

- **Check boxes**: Enable you to select more than one value at the same time. Click on the boxes corresponding to the options you would like to select. Selected check boxes contain a check mark.

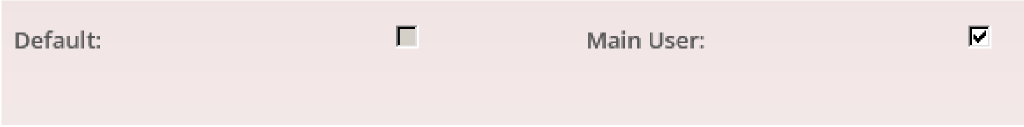


Illustration 28: Check boxes

Wildcards

A wildcard is a placeholder for characters and it represents any acceptable character or a set of them in a string. In CRDM you can use a wildcard in input fields or google-style fields in all the search screens to search for data widening the result to all the strings matching the pattern. The required number of characters is indicated in the field description. CRDM accepts two possible values:

- '*' that is a placeholder for one or more characters of the input value;
- '?' that is a placeholder for exactly one character of the input value.

Examples

CRDM*: The result list contains all data records beginning with 'CRDM'.

*Account: The result list contains all data records ending with 'Account'.

CRD?: The result list contains all data records that have any acceptable character at the end of 'CRD', e.g. 'CRDM', 'CRDX', etc.

The combination of the wildcard '*' is not possible, e.g 'CRD?*' or 'CR**'

The wildcards are always usable in the fields reported before with the following restrictions:

- It is possible that to properly search with wildcards you have to insert at least two or four characters. In this case, the minimum number of characters to be entered is reported in the field remarks;
- It is possible that a field does not allow wildcards; in this case, this is explicitly mentioned in the Remarks field.

Read-only Fields

In addition to enter and select fields, the CRDM GUI has also read-only fields, which are pre-filled and do not allow data changes.

Field Properties

All field types have specific properties with respect to possible character sets, and mandatory content.

Date

A Date type field has the following format: YYYY-MM-DD. There are four digits representing the year, two digits representing the month and two digits representing the day.

The default value of Date fields, unless differently specified, is BLANK.

Generally, if a closing date value is not specified, the system will automatically set the date "9999-12-31".

The field Date is always linked to a calendar icon that opens a calendar where you can select a day. It is possible to insert a date writing in the field or using the calendar.

Time[1]

The Time type field has the following format: HH:MM. There are two digits representing the hour and two digits representing the minute.

DateTime[1]

A DateTime type field has the following format: YYYY-MM-DD HH:MM. There are four digits representing the year, two digits representing the month, two digits representing the day, two digits representing the hour and two digits representing the minute. The field DateTime is always linked to a calendar icon that opens a calendar where you can select a day. It is possible to insert a date writing in the field or using the calendar.

Amount

The GUI will show the amounts with all decimal points, English Format (the decimal separator will be a "." and the thousand separator is ",") and right alignment.

Amounts can be entered up to 18 figures, that is maximum 19 characters if the decimal separator is present.

When the amount field is in read-only mode or the amount field is not selected for typing, the amount shows the thousand separator.

When the user is typing the numbers, the amount is shown without the thousand separators.

The amount fields should allow shortcuts:

- enter "Xm" and the system will transfer this automatically into X,000,000.00[.00]
- enter "Yt" and automatically translated into Y,000[.00].

The number of decimals is defined by the currency.

Negative amounts (shown by the system but not entered by the user) are written in red and marked with a "-" (This rule applies for all negative values).

According to the character set, only numerical characters (decimal – abbreviation "d") can be used for amounts plus the negative symbol.

[1] The Time in the system refers to the CET/CEST zone.

Field	Description	Validation	Error Code
Amounts	Contains an Amount.	The Amount must be greater than or equal to 0.	The amount must be greater than or equal to 0.
Amounts	Number of Decimals of an amount	The Amount must have <number of decimals stored for the currency> decimals.	Wrong format in field <field name>. The correct format has to be xxx.xxx,<number of decimals stored for the currency>.
Amounts	Character set to be used	It is only possible to use a numerical character set.	Only numerical characters are allowed

Numeric

There are different type of numeric field. In general these fields, in edit mode, can contain only numbers and “-“ symbol.

Field	Description	Edit mode	New mode
Numeric	Can contain only natural numbers (positive integer).	Only numbers are allowed.	The thousand separator is shown.
Integer	Can contain positive and negative integer values.	Numbers and char "-" are allowed.	The thousand separator is shown. When negative, the char "-" is shown and the string is in red.
Positive Real	Can contain positive values with decimals. When using this type, the number of decimal must be specified.	Numbers and decimal separator are allowed.	The thousand and decimal separators are shown.
Real	Can contain positive and negative values with decimals. When using this type, the number of decimal must be specified.	Numbers, decimal separator and char "-" are allowed.	The thousand and decimal separators are shown. When negative, the char "-" is shown and the string is in red.
Percentage	Can contain positive values with decimals. When using this type, a maximum of 5 digit(s) including decimal point (thereof max. 2 decimal places and decimal point) are allowed.	Numbers and decimal separator are allowed.	The thousand and decimal separators are shown plus "%" symbol.
Percentage + negative	Can contain positive and negative values with decimals. When using this type, the number of decimal must be specified.	Numbers, decimal separator and char "-" are allowed.	The thousand and decimal separators are shown plus "%" symbol. When negative, the char "-" is shown and the string is in red.

Characters

CRDM operates in British English and uses the SWIFT-x character set to enter data: if not described differently, the fields are intended to be based on the SWIFT-x character set. CRDM can accept the UTF-8 character set with the exception of '<', '>' and '&' in specific fields; when this happens, this is explicitly reported.

The GUI does not differentiate between upper and lower case in terms of data input for input fields.

The SWIFT-x character set corresponds with the following content:

Character	Description
a - z	26 small characters of the Latin alphabet
A - Z	26 capital characters of the Latin alphabet
0 - 9	10 numeric characters
/	Solidus (slash)
-	Hyphen
?	Question mark
:	Colon
(	Opening parenthesis
)	Closing parenthesis
.	Full stop
,	Comma
´	Apostrophe
+	Plus
	Space (blank)
CR	Carriage return
LF	Line feed

Hint

CRDM does not process fields (mandatory or optional), that are only filled with blanks. Blanks appearing at the beginning or at the end of a field entry are deleted automatically without any notification.

Fields in a *list* or *details* screen, where the dataset was saved without an entry, are filled with '---'.

Mandatory Content

In the GUI all mandatory fields are marked with a red line in the label. All marked fields have to be filled in before you are allowed to proceed. The red line is turned into green when the field contains a value or is selected.

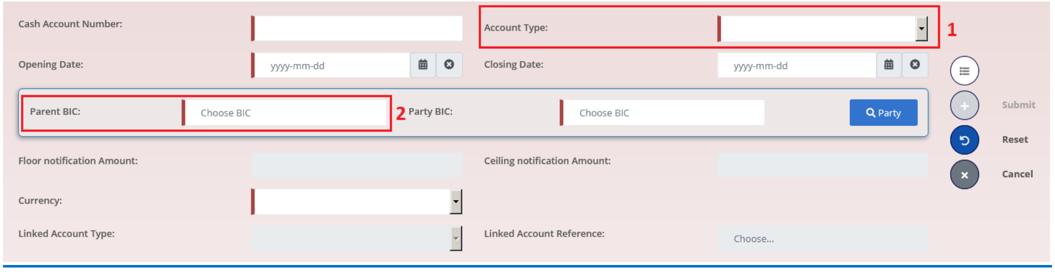


Illustration 29: Mandatory fields

Position No.	Description
1	Mandatory select field
2	Mandatory input field

1.3.2.5 Common Buttons and Icons

While working with the CRDM GUI you will find that some buttons and icons appear regularly. There are three types of common elements:

- Basic icons, which you can find on every screen
- Utility elements, which represent functions within the content area
- Table elements, which you can find below data record lists on *search/list*

The buttons contained in the button bar are variable and therefore explained in the screen descriptions.

Basic Icons

Illustration 30: Basic icons

Position No.	Element	Description
1	Export icon	... exports the data of the executed query from the current screen into a csv-file. If exporting a list, the related search criteria are exported as well whereas detailed data are only exported, if the respective list and the details screen are covered by the same query. Otherwise just the list entry will be exported. The export icon is common to all CRDM screens except for the welcome and the new screens. In addition to the exported data from the screen the following information is exported at the start of the file: name of the exported screen (including menu path), current date, name of the user who triggered the exporting, classification label 'RESTRICTED', timestamp of the export, defined search criteria (query parameters, if applicable), 'CHANGED DATA' when exporting an edit screen which contains amended data that has not been submitted yet.
2	Print icon	... prints the data of the current screen. It is strongly recommended to use this button for generating a clearly arranged overview of data on the printout. The print icon is common to all CRDM screens except for the welcome screen.

Utility Elements

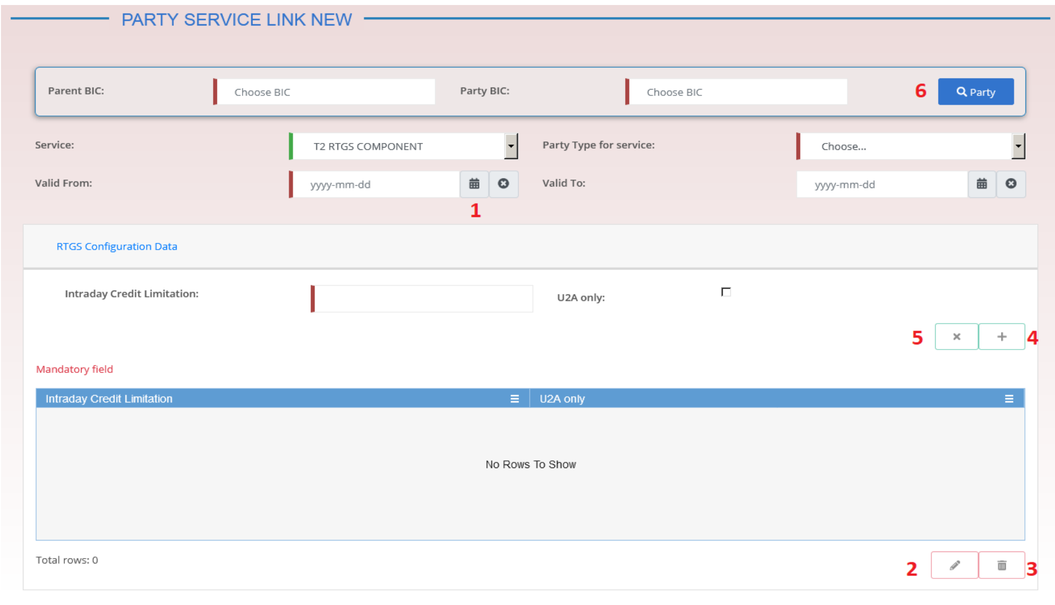


Illustration 31: Utility Elements

Position No.	**Element**	**Description**
1	*Calendar* icon	... opens a calendar where you can select a day. If applicable, you can also select the time via the *calendar* icon.
2	*Pencil* icon	... enables you to enter a new future value into an input field. In edit mode, you can either change an existing data record or enter a new future one. If you have changed the existing current value before entering a future one, the data are restored. The *pencil* icon is only available on *edit* screens.
3	*Delete row* icon	... removes the selected row in the corresponding list as well as fields or sub-frames. The *delete row* icon is only available on *new* and *edit* screens.
4	*Submit changes* icon	... updates the selected row in the corresponding list using the values inserted in the related fields. The *submit changes* icon is only available on *new* and *edit* screens.
5	*Cancel changes* icon	... enables you to leave the selected and edited row without causing any changes. The *cancel changes* icon is only available on *new* and *edit* screens.
6	*Magnifier* icon	... provides the possibility to search for data on other screens. If you are not aware of the exact/correct value, but you know other related data, click on the *magnifier* icon to enter the *search* screen. There you can enter all information known to you and execute a search. By clicking on the *select* button, you are redirected to the initial screen with the desired data entered in the respective fields. The attribute equipped with magnifier icon works otherwise like an auto-complete select box.

Table Elements

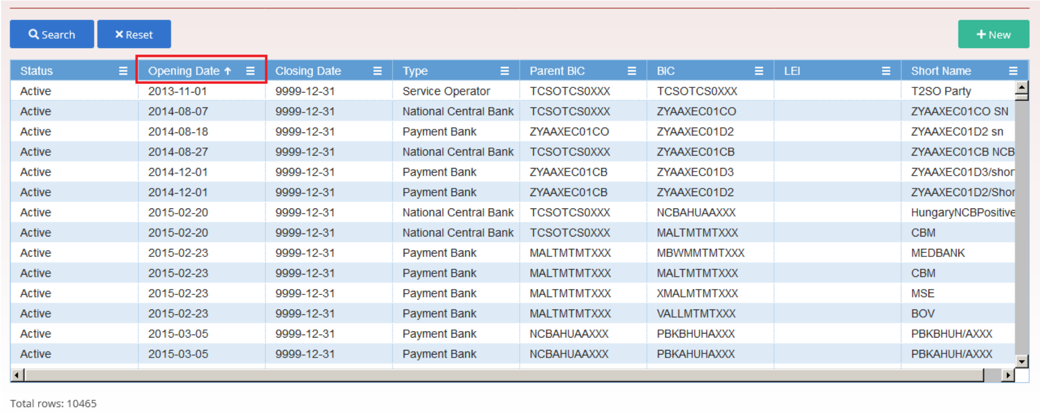


Illustration 15a: Table Elements – Sort icon

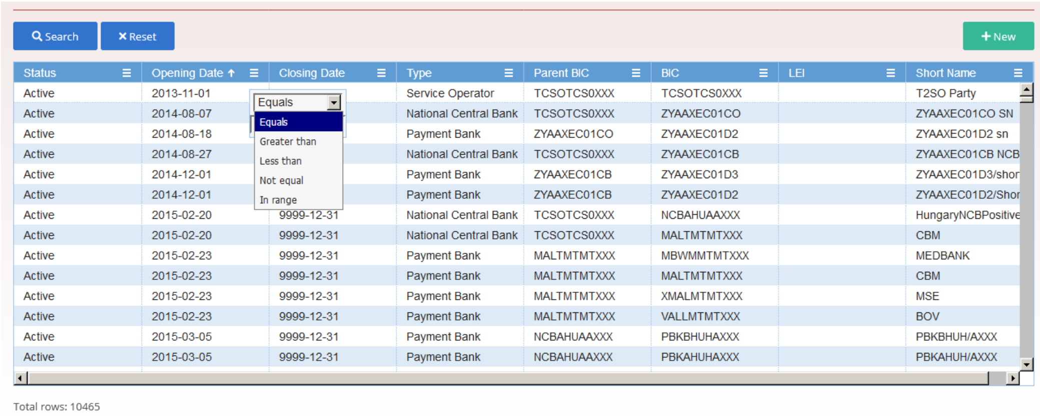
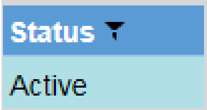


Illustration 32b: Table Elements - Supplementary filters in list objects

Position No.	Element	Description
1	*Sort* icon	... sorts the list in ascending or descending order by clicking on the up or down arrow.

2	*Supple-mentary filter*	… allows in-memory filtering, depending on the type of fields, of the displayed list of items according to additional criteria as shown below. Data fields supplementary filter criteria: ❚ Equals ❚ Greater than ❚ Less than ❚ Not equal ❚ In range Text fields supplementary filter criteria: ❚ Equals ❚ Not equal ❚ Starts with ❚ Ends with ❚ Contains ❚ Not contains Predefined supplementary filter criteria: It contains an adaptive list of values which is consistent with the related search criterion. E.g. for any Status field, the predefined supplementary filter contains the following values: ‘All’, ‘Active’, ‘Deleted’. When a supplementary filter criterion is used, the list is automatically filtered in memory without submitting the query to the back-end. When applied, any supplementary filter can be removed by individually resetting the corresponding filter. If a supplementary filter is applied, a small icon near the column header is displayed, as shown in the following image. 

1.3.3 Validation

In CRDM, all submission processes undergo various validations, which take place in the front-end and/or in the back-end. Only correct entries, fulfilling all predefined criteria, can be further processed. To indicate the status of the recently performed action, CRDM uses two different types of messages to indicate a successful or failed validation as described below.

In addition to the automatic validation carried out by CRDM, human validation can be imposed by using the 4-eyes mode.

Furthermore, non-repudiation of origin (NRO) is implemented for a specified number of screens.

Front-End Validation

As first part of the validation process, the front-end validation takes place without communication to the back-end. The front-end validation includes both the field validation and the cross-field validation. It is carried out after clicking on a button.

The field validation verifies that all entries comply with the required format.

The cross-field validation checks the data consistency between two or more fields/buttons in relation to each other.

Back-End Validation

The back-end validation is the second part of the validation process. After successful front-end validation, your request is submitted to the back-end and checked for compliance with the business validation rules. In case of failure an error message is displayed. You can find a detailed list of all error messages and their description in the annex of the UHB (list of references for error messages [▶]).

Result

After each validation, the CRDM GUI informs you about the result. There are two different message types available, the **error message** and the **success message.**

Error Message

Each error message appears as a pop-up on the upper right corner of the screen. In the case of a failed front-end or back-end validation, it indicates the source of the failure, the type of error and a short hint.

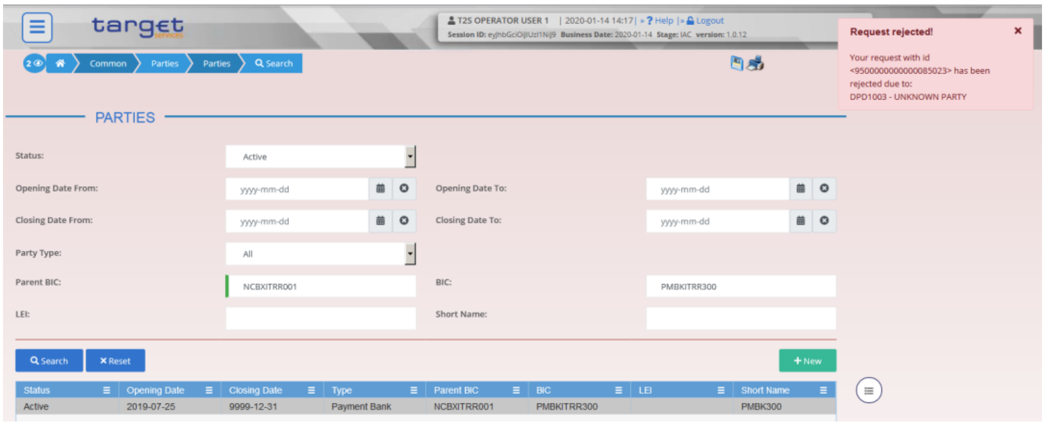


Illustration 33: Error message

Success Message

The success message appears as a pop-up on the upper right corner of the screen. It confirms that your data have been submitted successfully.

If you are working in 4-eyes mode, the success message also provides you with the 4-eyes principle ID.

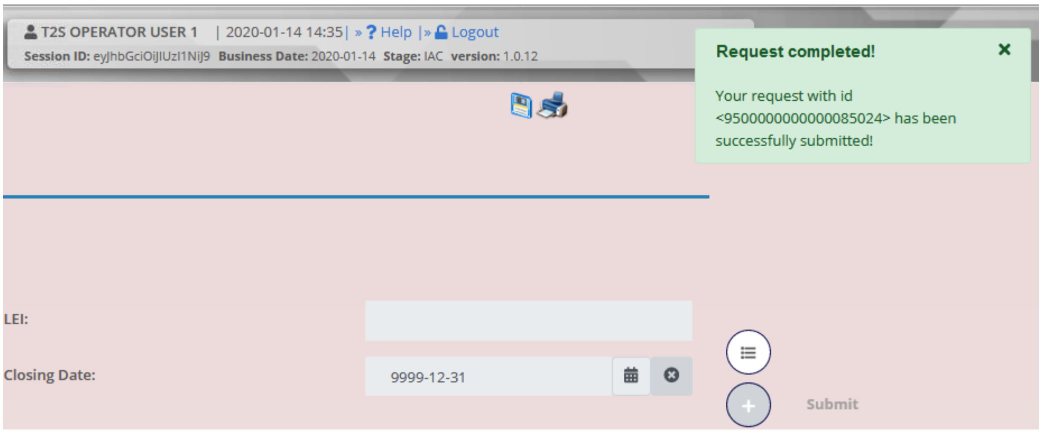


Illustration 34: Success message

4-Eyes Mode

Depending on the access rights setup, you can use CRDM in 2-eyes or in 4-eyes mode. The 2-eyes mode and the 4-eyes mode apply for *enter* screens (new and edit mode) and for any kind of deletion processes. If you are a 4-eyes mode user, your actions have to be confirmed by a second user in order to be processed.

First User

In 4-eyes mode the first user enters, changes or deletes the data on a screen and afterwards submits the action by clicking on the *submit* button in the button bar. The success message appearing after successful validation includes a 4-eyes principle ID. For the final execution a second user is needed to confirm the action.

Second User

After the first user has entered, changed or deleted the data, a second user (with the required privilege) has to approve or revoke this action via the *data changes* screen [▶] either using the 4-eyes mode ID or the search functionality.

As soon as the data changes are positively approved, CRDM marks these data as approved and they are forwarded to further processing.

Digital Signature NRO To be defined in a next stage.

1.3.4 Communication Network and Services

Refer to the ESMIG UDFS document for details on the communication network and services.

1.3.5 User Administration

Registration Only registered users have access to the CRDM GUI, therefore registration in CRDM reference data and to the network is necessary prior to the first GUI access. The Registration Guide provides information on how to fill in Registration Forms properly.

After registration the system administrator is given the possibility to grant and revoke privileges to its users within the CRDM GUI as described in both the screen reference part and the user instructions part.

1.3.6 Security and Certification Services

In order to guarantee a secure and safe handling of the information and to protect customer data provided via the GUI, various security elements have been put into place:

- Each action requires System or human validation as described in the validation [▶]
- The scope of available data and functions is controlled via the management of access rights
- The security features provided by the network providers and described in their respective user documentation prevent unauthorised access

1.3.7 Online Help

The content of the UHB can be accessed from the CRDM GUI by clicking on the *help* button.

Screen Reference Part

General

The screen reference part offers a complete overview of all T2S GUI screens that are available in U2A mode. Each screen description focuses on a single screen and explains all fields contained therein. An exception is made for the *new* and *edit* screens, which are largely similar and therefore included in a single screen description. The description is always based on and contains only the screenshot of the *edit* screen, but describes deviations for the *new* screen in a separate row for each field or button description.

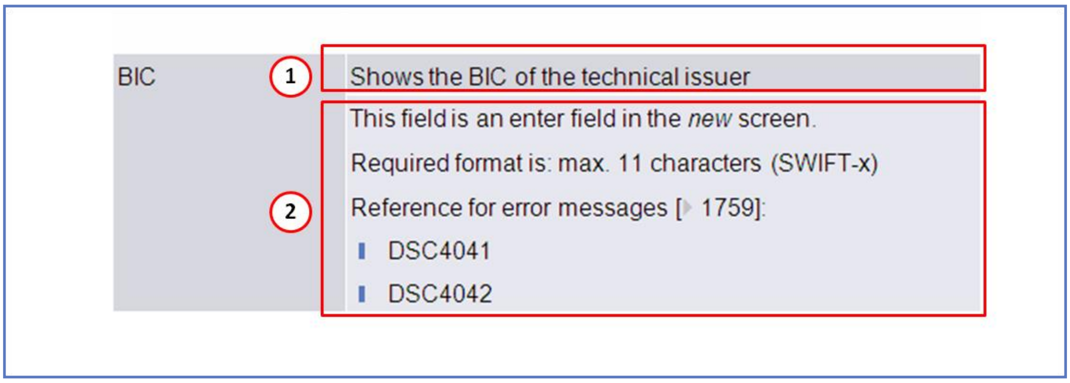


Illustration 35: Example of a *new* and *edit* screen description

Position No.	Element
1	Description relevant for *edit* mode.
2	Description relevant for *new* mode.

In detail, every screen description has the same structure and contains the following elements.

Context of Usage

The context of usage explains what a screen displays, what you can do with the screen and which special features are available for the screen, for example the need for confirmation in 4-eyes mode or usage restrictions. If the export functionality produces more data than shown on the screen (if a *list* screen is based on a detailed query), this is also indicated in the context of usage.

Screen Access

The screen access lists all possible ways to access the screen. This includes navigation via the menu and navigation via other screens.

Examples

Navigation via the menu:

`Static Data` >> `T2S Dedicated Cash Accounts` >> `DCAs` >> *T2S dedicated cash accounts – search/list* screen

Navigation via other screens:
`Static Data >> Parties >> Eligible Counterpart CSDs` >> *Eligible counterpart CSDs – search/list* screen >> Click on the *new* or *edit* button

When navigating via a *search/list* or *list* screens, a data record has to be selected by clicking on a table row. Afterwards, you can click on specific buttons in the button bar, e.g. the *edit* or *details* button.

Privileges The privileges segment lists all necessary privileges to access the screens and to use its functions. First, the privileges to access a screen are mentioned, followed by the privileges that are necessary to use all functions on the screen.
For further information, refer to the list of privileges [**Error! Bookmark not defined.**].

References The first reference lists all business scenarios containing the respective screen (reference to the user instructions part). The second reference indicates the business functions related to the respective screen (reference to GUI Business Functionalities Document).

Screenshot You can use the screenshot as orientation for your work with the UHB. All screenshots are based on the maximum of access rights, so deviations are possible if you do not own all privileges which are necessary to use the screen in its full extent. In addition, deviations between the screenshot and the field/button description are possible in the case of mutually exclusive functions and based on a specific selection you have made. Values shown on the screenshot might also deviate from the default values indicated in the description.

In the case of the *new/edit* screen description, the screenshot of the *edit* screen is used. Differences appearing in the *new* screen are explained in the field description.

Field Description The field description provides all the relevant information related to the respective field name. It is structured in table format with a separate table for each frame. Subframes are indicated by subsection headings in the table. The following illustration explains the structure of a field description.

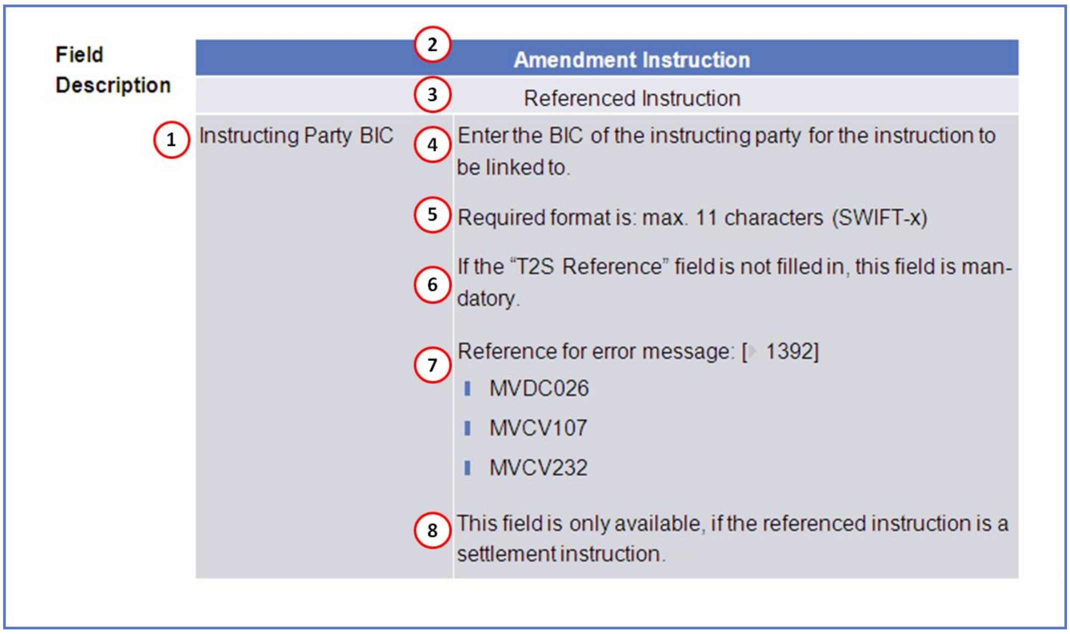


Illustration 36: Example of a screen description

Position No.	Element	Description
1	Field name	... indicates the respective name of each screen field. Mandatory fields are marked with an asterisk after the field name. In the case of the *new/edit* screen description, the mandatory field is marked with an asterisk in brackets, which indicates that the respective field is either mandatory in the edit or in the new mode. Input and select fields without an asterisk are always optional.
2	Frame name	... indicates the respective name of each screen frame.
3	Sub-frame name	... indicates the respective name of each screen sub-frame.
4	Field description	... indicates the field type and required content. Each field description starts with a keyword, which illustrates your required activity: - 'Shows...' indicates a read-only field [61] - 'Select...' indicates a select field [61] - 'Enter...' indicates an input field [61]

Position No.	Element	Description
		If there is an exhaustive list of possible values, these are listed.
5	Required/Displayed format	... indicates all field format requirements related to the fields. If there is more than 1 format requirement, they are separated with a comma. In read-only fields the displayed format is only mentioned, if the field content is ambiguous. This applies especially to date fields. The following keywords are used for the format requirements: - 'Digit' indicates numbers - 'Character' indicates a character from the SWIFT-x character set [61] - 'Letter' indicates upper and lower case letters of the Latin alphabet
6	Cross-field validations	... indicate interdependencies between fields relevant for the validation of your input. For further details on the validation process, refer to validation [73].
7	Reference for error message	... indicates the code of all possible errors applying to the field during the back-end validation. The corresponding error text and error description is listed in the annex (list of references for error messages [**Error! Bookmark not defined.**]). For further details on the validation process, refer to validation [73].
8	Additional information	... section indicates the useful information that is for filling in the field.

Buttons All buttons specific to the screen are listed and described in a table at the end of the screen description. The following illustration explains the structure of a button description.

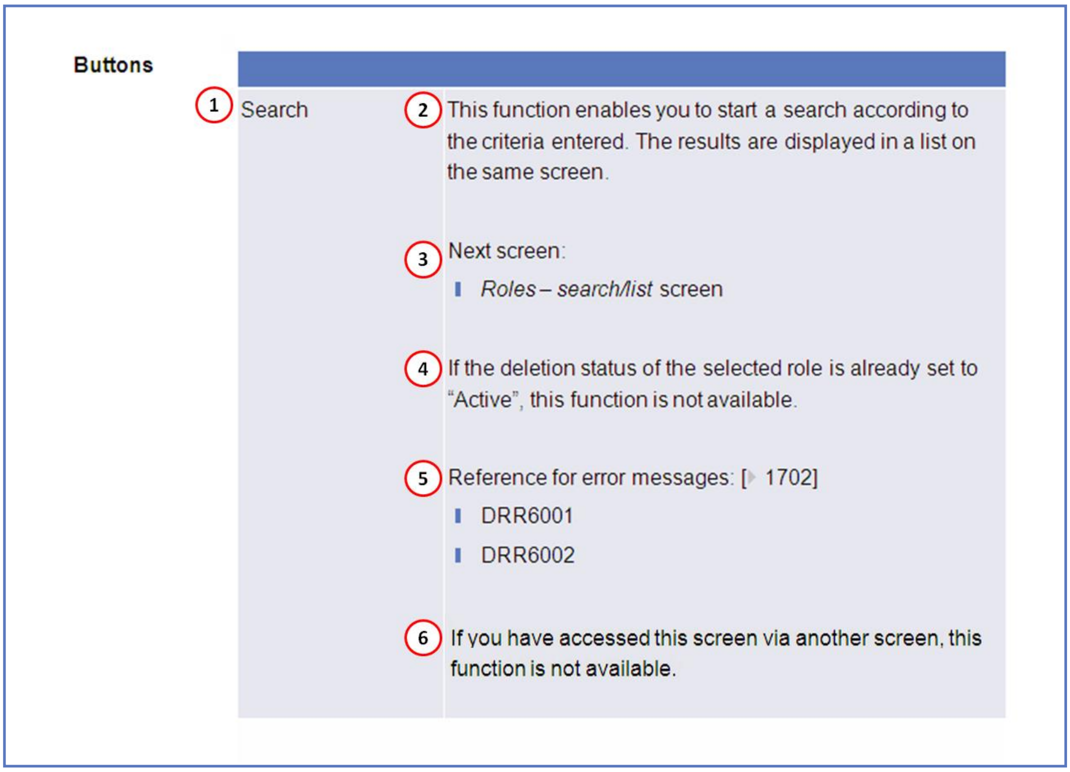


Illustration 37: Example of a button description

Position No.	Element	Description
1	Button name	... indicates the respective name of each button.
2	Button description	... indicates the action that is triggered when clicking on the button. Each button description starts with 'This function enables you...'
3	Next screen	... element lists the screen which is displayed after clicking on a button. If there are various possible next screens depending on your previous actions, all of them are listed.

Position No.	Element	Description
4	Cross-field validations	... indicate interdependencies between a field and the button relevant for the validation of your input. For further details on the validation process, refer to validation [73].
5	Reference for error messages	... indicates the code of all possible errors applying to the button during the back-end validation. The corresponding error text and error description is listed in the annex (list of references for error messages [**Error! Bookmark not defined.**]). For further details on the validation process, refer to validation [73].
6	Additional information	... section indicates useful information regarding the button and/or its function.

For further information on common buttons, refer to Common Buttons and Icons [66].

Securities

1.1 Cash

1.2 Services

1.2.1 Additional Services

1.2.1.1 Available Reports - Search/List Screen

1.2.1.2 Available Reports - Search/List Screen

1.2.1.3 Available Report - Details Screen

1.2.1.4 Available Report - Current Settlement Day Cash Information (Following Settlement Day Cash Forecast) Report - Details Screen

1.2.1.5 Available Report - Statement of Accounts - Details Screen

1.2.1.6 Available Report - Statement of Executed Amendment Instructions for Intra-Balance Movements - Details Screen

1.2.1.7 Available Report - Statement of Executed Amendment Instructions for Intra-Position Movements and Settlement Instructions - Details Screen

1.2.1.8 Available Report - Statement of Executed Cancellation Instructions for Intra-Balance Movements - Details Screen

1.2.1.9 Available Report - Statement of Executed Cancellation Instructions for Intra-Position Movements and Settlement Instructions - Details Screen

1.2.1.10 Available Report - Statement of Holdings - Details Screen

1.2.1.11 Available Report - Statement of Pending Amendment Instructions for Intra-Balance Movements - Details Screen

1.2.1.12 Available Report - Statement of Pending Amendment Instructions for Intra-Position Movements and Settlement Instructions - Details Screen

1.2.1.13 Available Report - Statement of Pending Cancellation Instructions for Intra-Balance Movements - Details Screen

1.2.1.14 Available Report - Statement of Pending Cancellation Instructions for Intra-Position Movements and Settlement Instructions - Details Screen

1.2.1.15 Available Report - Statement of Pending Instructions - Details Screen

1.2.1.16 Available Report - Statement of Pending Intra-Balance Movements - Details Screen

1.2.1.17 Available Report - Statement of Pending Intra-Position Movements - Details Screen

1.2.1.18 Available Report - Statement of Settled Intra-Balance Movements - Details Screen

1.2.1.19 Available Report - Statement of Settled Intra-Position Movements - Details Screen

1.2.1.20 Available Report - Statement of Settlement Allegements - Details Screen

1.2.1.21 Available Report - Statement of Static Data - Details Screen

1.2.1.22 Available Report - Statement of Transactions - Details Screen

1.2.1.23 Available Report – Daily Penalty List – Details Screen

1.2.1.24 Available Report – List of Modified Penalties - Details Screen

1.2.1.25 Available Report – Monthly Aggregated Amounts – Details Screen

~~1.2.1.26 Cumulative Billing Data - Search/List Screen~~

~~1.2.1.27 Cumulative Billing Data - Details Screen~~

1.2.1.28 Daily Schedules - Search/List Screen

1.2.1.29 Data Changes - Search/List Screen

1.2.1.30 Data Change - Details Screen

~~1.2.1.31 Itemised Billing Data - Search/List Screen~~

~~1.2.1.32 Itemised Billing Data - Details Screen~~

1.2.1.33 Queued Static Data Changes - Search/List Screen

1.2.1.34 Queued Static Data Change - Details Screen

1.2.1.35 T2S Calendar Screen

1.2.1.36 User Access Rights - Search Screen

1.2.1.37 User Access Rights - List Screen

1.2.2 Communication

1.3 Static Data

1.4 Monitoring

1.4.1 Monitoring

1.4.1.1 Securities Positions - Search/List Screen

See *Securities Positions – Search/List* Screen [**Error! Bookmark not defined.**].

1.4.1.2 Securities Position - Details Screen

See *Securities Positions – Details* Screen [**Error! Bookmark not defined.**].

1.4.1.3 T2S Calendar Screen

1.4.1.4 T2S DCA Balances - Search/List Screen

See *T2S DCA Balances – Search/List* Screen [**Error! Bookmark not defined.**].

1.4.1.5 T2S DCA Balance - Details Screen

See *T2S DCA Balance – Details* Screen [**Error! Bookmark not defined.**].

1.5 Billing

1.5.1 Consumption Data (Service Operator only)

1.5.1.1 Consumption Data – Search/List Screen (Service Operator only)

Context of Usage	This screen enables the Service Operator to display the list of System Entities and billing periods for which the aggregated consumption data have been created. The result is returned on the basis of the entered criteria in a list, which is sorted by the values of the Party BIC, Period Start date, Period End date columns in ascending order (default setting). This screen gives also the possibility: - to start the process of generation of aggregated consumption data for a specific Service, System Entity and billing period; - to start the process of generation of Invoice Data for a specified set of Consumption Data; - to request the deletion of a set of invoice data (for a System Entity or for the entire Service).
Screen Access	*Billing >> Consumption Data >> Search*
Privileges	To use this screen, the following Privileges are needed [ ]: Manage Billing Data

Screenshot

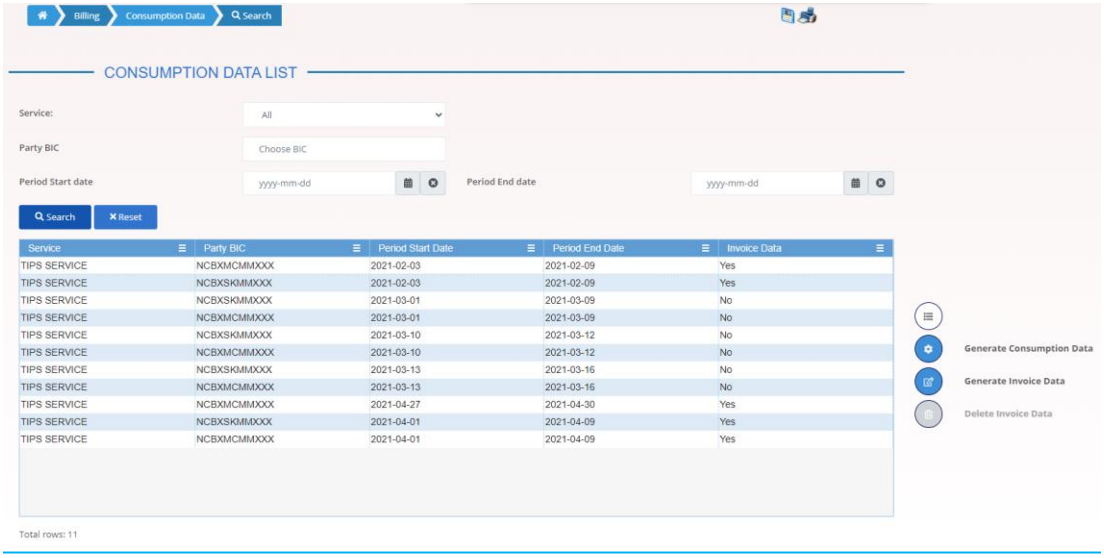


Illustration 38: Consumption Data – search/list screen

Fields Descrip- tion

Consumption Data - Search Criteria	
Service	Select the Service from the possible values: ❙ All (default value) ❙ TIPS ❙ T2 RTGS COMPONENT ❙ ECMS ❙ T2S The Service “T2 RTGS COMPONENT” it is meant as T2 Service.
Party BIC	Enter or select the BIC of a CSD or CB for which the consumption data have been created. Required format is: max. 11x characters.
Period Start date	Enter the date that defined the Start date of the interesting Billing Period for which the consumption data must be searched. Required format is: Date.
Period End date	Enter the date that defined the End date of the interesting Billing Period for which the consumption data must be searched. It must be greater than the Period Start date but within the same month. Required format is: Date.

Consumption Data – List	
Service	Shows the Service of the returned aggregated consumption data.
Party BIC	Shows the System Entity for which the aggregated consumption data have been created in the specified Billing Period.
Period Start Date	Shows the start date of the Billing Period.
Period End Date	Shows the end date of the Billing Period.
Invoice Data	This field contains YES in case the Invoice Data for the related aggregated consumption data (for the Service, Party BIC and Billing Period) are present. It contains NO otherwise.

Buttons

Search	This function enables you to start a search according to the criteria entered. The results are displayed in a list on the same screen.
Reset	This function enables you to set default search criteria and blanks out all optional criteria.
Generate Consumption data	This button allows to enter the Consumption Data – New screen.
Generate Invoice Data	This button allows to enter the Invoice Data – New screen.
Delete Invoice Data	This button is enabled when an item in the list is selected and the “Invoice Data” flag is set to “Yes”. When activated, the system shows a pop-up where the user can specify if deleting the specified set (Service; System Entity) or if the whole set for the Service must be deleted. When activated, the system starts the process that can last some minutes; the Operator must re-enter the screen in order to check that the deletion is completed. Invoice data for which an Invoice has been created and not cancelled cannot be deleted.

1.5.1.2 Consumption Data – New Screen (Service Operator only)

Context of Usage

The screen “Consumption Data – New” enables the Service Operator to start the process of generation of Aggregated Consumption Data for a Billing Period. It is possible to start the process for a Service or for a specific System Entity under a Service.

The process can last some minutes, then the result of the process must be checked entering the search screen after some minutes.

When creating the aggregated consumption data, the process automatically produces also the Invoice Data for the same Service, Party, Billing Period.

The Service “T2 RTGS COMPONENT” it is meant as T2 Service.

Screen Access

- *Billing >> Consumption Data >> search/list screen >>* Click on *the Generate Consumption data button*

Privileges

To use this screen, the following Privileges are needed [▶]:

- Manage Billing Data

Screenshot

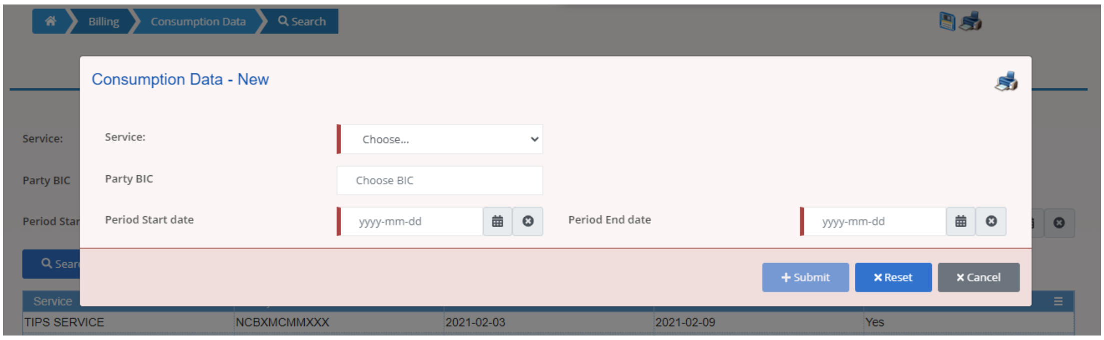


Illustration 39: Consumption Data – New screen

Fields Description

Consumption Data	
Service	Select the Service from the possible values: - TIPS - T2 RTGS COMPONENT - T2S The default value of the fields is blank. The Service “T2 RTGS COMPONENT” it is meant as T2 Service. The field is mandatory.

Party BIC	Enter or select the BIC of the CSD or CB for which the billing data must be created in the Billing Period. Required format is: max. 11x characters.
Period Start Date	Enter or pick the start date of the Billing Period. The field is mandatory. Required format is: Date.
Period End Date	Enter or pick the end date of the Billing Period. It must be greater than the Period Start date but within the same month. The field is mandatory. Required format is: Date.

Buttons

Submit	This function enables you to start the process of generation of billing data.
Cancel	This function enables you to cancel the process and return to the previous screen.
Reset	This function enables you to set all fields to default value and blanks out all optional fields.

1.5.1.3 Invoice Data – New Screen (Service Operator only)

Context of Usage

The screen “Invoice Data – New” enables the Service Operator to start the process of generation of Invoice Data for a Billing Period. It is possible to start the process related to an existing set of aggregated Consumption data for an entire Service or only for a specified System Entity of that Service. When activated, the process creates Invoice Data for any possible set of aggregated Consumption Data under the selected Service or Service and System Entity related to the reported Billing Period.

The process can last some minutes, then the result of the process must be checked entering the search screen after some minutes.

This screen is meant to be used only in case, under specific circumstances, the Service Operator has been forced to delete a set of already created Invoice data (e.g. because the applied prices are wrongly configured and must be amended)

The Service “T2 RTGS COMPONENT” it is meant as T2 Service.

Screen Access

- *Billing >> Consumption Data >> search/list screen >>* Click on *the Generate Invoice Data button*

Privileges

To use this screen, the following Privileges are needed [▶]:

- Manage Billing Data

Screenshot

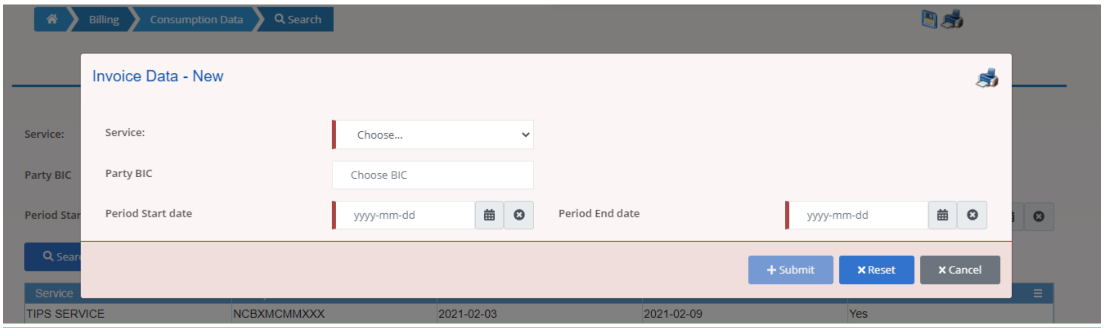


Illustration 40: Invoice Data – New screen

Fields Description

Invoice Data	
Service	Select the Service from the possible values: - TIPS - T2 RTGS COMPONENT - ECMS - T2S The default value of the fields is blank. The Service "T2 RTGS COMPONENT" it is meant as T2 Service. The field is mandatory.
Party BIC	Enter or select the BIC of the CSD or CB for which the invoice data must be created in the Billing Period. Required format is: max. 11x characters.
Period Start Date	Enter or pick Start date of the Billing Period. The field is mandatory. Required format is: Date.
Period End Date	Enter or pick End date of the Billing Period. The field is mandatory. Required format is: Date.

Buttons

Submit	This function enables you to start the process of generation of invoice data.
Cancel	This function enables you to cancel the process and return to the previous screen.
Reset	This function enables you to set all fields to default value and blanks out all optional fields.

1.5.2 Invoice Data

1.5.2.1 Invoice Data – Search/List screen

1.3.7.1 Invoice Data – Search/List Screen

Context of Usage

This screen enables the authorised users to display the list of created Invoice Data and related status. The result is returned on the basis of the entered criteria in a list and it is sorted by the values of the Service, Parent BIC, Party BIC, Period Start date, Period End date columns in ascending order (default setting).

This screen gives also the possibility to access the details of the Invoice Data, i.e. how the total amount is divided by Service category and Service Items, and to manage the Template Corrections and Manual Corrections related to the Invoice Data.

This screen is not relevant for payment banks and ancillary systems.

The content of the list depends on the authorised user that is performing the query: ECB users can see all Invoice Data related to a System Entity; Central Bank users can see the Invoice Data for their System Entity and the ones related to their community; CSD users can see the Invoice Data for their System Entity.

Screen Access

- *Billing >> Invoice Data >>Search*
- *Billing >> Manual Correction >> Search >>* Click on *Invoice Data* button

Privileges

To use this screen, the following Privileges are needed [▶]:

- Invoice Data List Query

Screen-shot

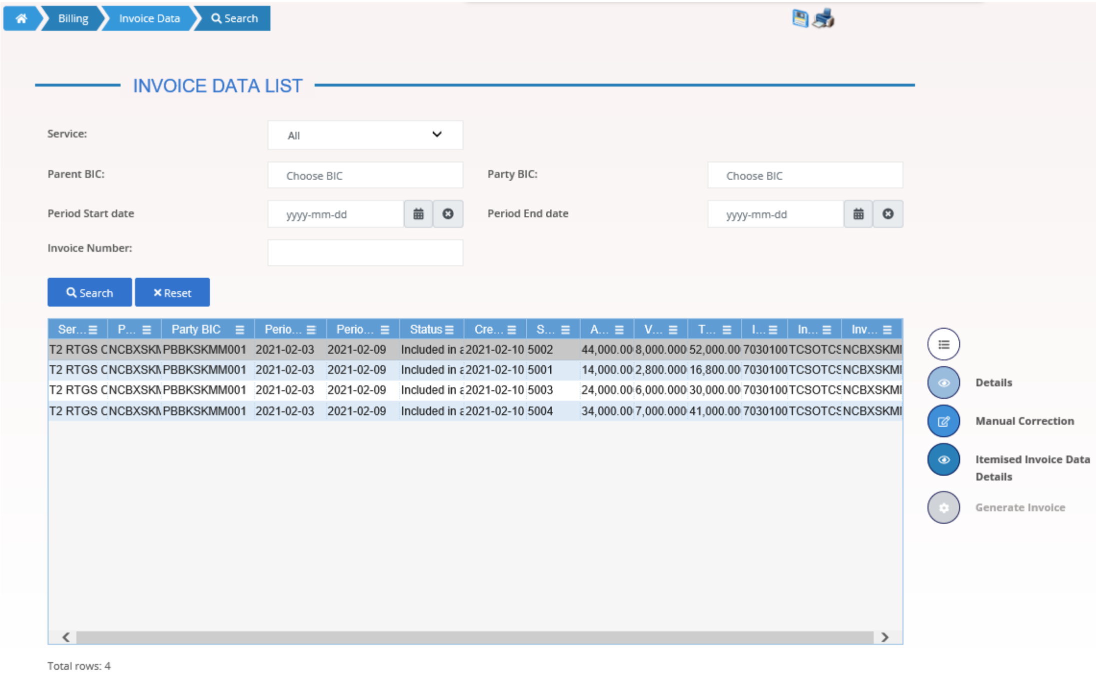


Illustration 18: Invoice Data – search/list screen

Fields Description

Invoice data - Search Criteria	
Service	Select the Service from the possible values: ▪ All (default value) ▪ TIPS ▪ T2 RTGS COMPONENT ▪ ECMS ▪ T2S The Service "T2 RTGS COMPONENT" is meant as T2 Service.
Parent BIC	Enter or select the Parent BIC of the Party to be charged. If the user is an ECB or CSD user, the field contains the BIC of the Operator and is read-only. Required format is: max. 11x characters.
Party BIC	Enter or select the Party BIC of the Party to be charged. If the user is a CSD user, this field contains the Party BIC of the CSD the user belongs to and it is read-only. Required format is: max. 11x characters.
Period Start date	Enter the date that defined the Start date of the relevant Billing Period for which the Invoice Data is searched. Required format is: Date.
Period End date	Enter the date that defined the End date of the relevant Billing Period for which the Invoice Data is searched. This field must be greater than the Period Start date but within the same month. Required format is: Date.
Invoice Number	Enter the invoice number to be searched. This field is meaningful only for Invoice Data already used for the creation of an Invoice and if the latter is not cancelled. Required format is: max. 35x characters.

Invoice Data - List	
Service	Shows the Service of the returned Invoice Data.
Parent BIC	Shows the Parent BIC of the Party to be charged.

Party BIC	Shows the Party BIC of the Party to be charged.
Period Start Date	Shows the start date of the Billing Period the Invoice Data refers to.
Period End Date	Shows the end date of the Billing Period the Invoice Data refers to.
Status	Shows the status of the Invoice Data (generated, corrected, cancelled, included in an invoice).
Creation date	Shows the date in which the Invoice Data has been generated.
Service Item	Shows the Service Item of the Invoice data.
Amount without VAT	Shows the amount in EURO of the Invoice Data without VAT. The amount format foresees four decimals.
VAT amount	Shows the VAT amount in EURO of the Invoice Data. The amount format foresees four decimals. This field is shown only for Invoice Data related to Participants.
Total amount	Shows the total amount in EURO of the Invoice Data (VAT included). The amount format foresees four decimals.
Invoice Number	Shows the Invoice Number, when the invoice exists and its status is different from 'Cancelled'.
Invoicee Parent BIC	Shows the Parent BIC of the party receiving the invoice.
Invoicee Party BIC	Shows the Party BIC of the party receiving the invoice.

Buttons

Search	This function enables the user to start a search according to the entered criteria.
Reset	This function enables the user to set default search criteria and blanks out all optional criteria.
Details	This function enables the user to display the details of the selected Invoice Data.
Manual Correction	This function enables the user to enter the Manual Correction list screen of the selected Invoice Data.

Itemised Invoice Data Details	This function enables the user to display the Itemised Invoice Data of the selected Invoice Data.

1.5.2.2 Invoice Data – Details screen

Context of Usage

This screen enables the authorised user to see a breakdown of the Total Amount and Amount without VAT into the specific Service Categories and Service Items. An aggregation for Service Items and applied price is shown under each service category.

Screen Access

❙ *Billing >> Invoice Data >> Invoice Data – Search/List screen* >> Click on the *Details* button

Privileges

To use this screen, the following Privileges are needed [▸]:

❙ Invoice Data Details Query

Screenshot

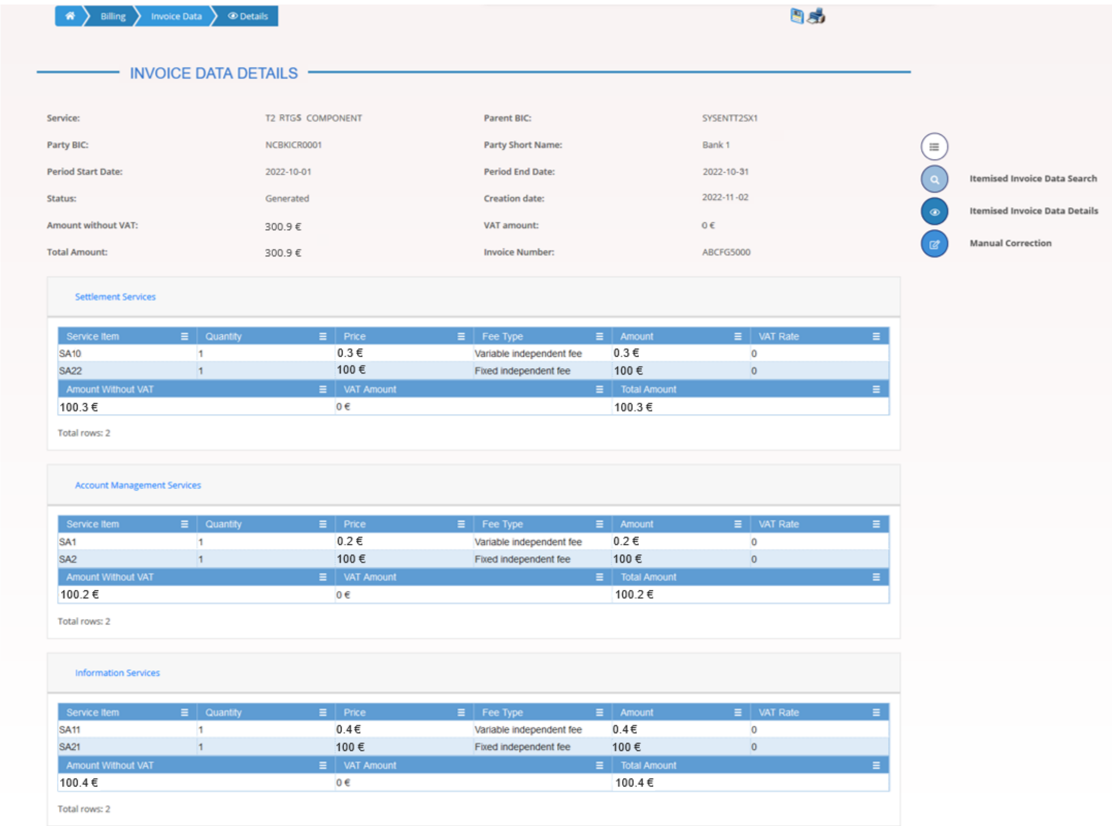


Illustration 19: Invoice Data – details screen

Fields Description

Invoice Data	
Service	Shows the Service of the returned Invoice Data.
Parent BIC	Shows the Parent BIC of the Party to be charged.
Party BIC	Shows the Party BIC of the Party to be charged.
Party Short Name	Shows the Party Short Name of the Party to be charged.
Period Start Date	Shows the start date of the Billing Period the Invoice Data refers to.
Period End Date	Shows the end date of the Billing Period the Invoice Data refers to.
Status	Shows the status of the Invoice Data (generated, corrected, cancelled, included in an invoice).
Creation date	Shows the date in which the Invoice Data has been generated.
Amount without VAT	Shows the amount in EURO of the Invoice Data without VAT. The amount format foresees four decimals.
VAT amount	Shows the VAT amount in EURO of the Invoice Data. The amount format foresees four decimals. This field is shown only for Invoice data related to Participants.
Total amount	Shows the total amount in EURO of the Invoice Data (VAT included). The amount format foresees four decimals.
Invoice Number	Shows the Invoice Number, when the invoice exists and its status is different from 'Cancelled'.

Total number of Units and Total Amount per Service Item and unit price	
Settlement Services	
Service Item	Shows the code and the Service Item name.
Quantity	Shows the sum of the quantities of all the Invoice Data for the same Service Item.
Price	Shows the price applied. In case of bands or tariff, each band and tariff of the Service Items is reported in one row.
Fee Type	Shows the type of the fee applied.

Amount	Shows the sum of the Amount in EURO calculated for all the Invoice Data in the set for the same Service Item. The amount format foresees four decimals.
VAT Rate	Shows the VAT rate considered in the computation, based on VAT defined by the System Entity for the applied Service Item. This field is shown only for Invoice Data related to Participants.
Settlement Services sub-total	
Amount without VAT	Shows the sum of all the Amounts in the category. The amount format, in EURO, foresees four decimals.
VAT amount	Shows the sum of the VAT amount in EURO of the Invoice Data. The amount format foresees four decimals. This field is shown only for Invoice data related to Participants.
Total amount	Shows the sum of all the Amounts and VAT Amounts in the category. The amount format, in EURO, foresees four decimals.
Account Management Services	
Service Item	Shows the code and the Service Item name.
Quantity	Shows the sum of the quantities of all the Invoice Data for the same Service Item.
Price	Shows the price applied. In case of bands or tariff, each band and tariff of the Service Items is reported in one row.
Fee Type	Shows the type of the fee applied.
Amount	Shows the sum of the Amount in EURO calculated for all the Invoice Data in the set for the same Service Item. The amount format foresees four decimals.
VAT Rate	Shows the VAT rate applied, basing on VAT defined by the System Entity for the applied Service Item. The amount format foresees four decimals. This field is shown only for Invoice data related to Participants.
Account Management Services sub-totals	
Amount without VAT	Shows the sum of all the Amounts in the category. The amount format, in EURO, foresees four decimals.

VAT amount	Shows the sum of the VAT amount in EURO of the Invoice Data. The amount format foresees four decimals. This field is shown only for Invoice data related to Participants.
Total amount	Shows the sum of all the Amounts and VAT Amounts in the category. The amount format, in EURO, foresees four decimals
Information Services	
Service Item	Shows the code and the Service Item name.
Quantity	Shows the sum of the quantities of all the Invoice Data for the same Service Item.
Price	Shows the price applied. In case of bands or tariff, each band and tariff of the Service Items is reported in one row.
Fee Type	Shows the type of the fee applied.
Amount	Shows the sum of the Amount in EURO calculated for all the Invoice Data in the set for the same Service Item. The amount format foresees four decimals.
VAT Rate	Shows the VAT rate applied, basing on VAT defined by the System Entity for the applied Service Item. The amount format foresees four decimals. This field is shown only for Invoice data related to Participants.
Information Services sub-totals	
Amount without VAT	Shows the sum of all the Amounts in the category. The amount format, in EURO, foresees four decimals.
VAT amount	Shows the sum of the VAT amount in EURO of the Invoice Data. The amount format foresees four decimals. This field is shown only for Invoice Data related to Participants.
Total amount	Shows the sum of all the Amounts and VAT Amounts in the category. The amount format, in EURO, foresees four decimals.

Buttons

Itemised Invoice Data Search	This function enables the user to search for itemised Invoice Data.

Itemised Invoice Data Details	This function enables the user to display the itemised Invoice Data of the selected Invoice Data.
Manual Correction	This function enables the user to enter the Manual Correction list screen of the selected Invoice Data.

1.5.2.3 Itemised Invoice Data – Search/List screen

Context of Usage

This screen enables the authorised user to display the list of Itemised Invoice Data that compose the Invoice Data selected in the previous screen. The information of the selected Invoice Data is shown in the header of the screen. Data shown in the screen are aggregated by the object the fee is charged to – a party or an account.

As default, when executing the search, this screen shows the list of all the objects involved in the Invoice Data, i.e. the Accounts and Parties. This screen gives the additional possibility to filter by a specific object in order to obtain the subset of invoice data referred to the searched element.

The search fields are shown depending on the type of search the user wants to perform. Moreover, some search fields are visible only for the Invoice Data related to a System Entity invoice.

Screen Access

- *Billing >> Invoice Data – search/list screen* >> Click on the *Details* button >> click on the *Itemised Invoice Data Search* button
- *Billing >> Invoice Data – search/list screen* >> Click on the *Details* button >> click on the *Itemised Invoice Data Details* button >> click on the *Itemised Invoice Data Search* button

Privileges

To use this screen, the following Privileges are needed [▶]:

- Itemised Invoice Data List Query
- Itemised Invoice Data Details Query

Screenshot

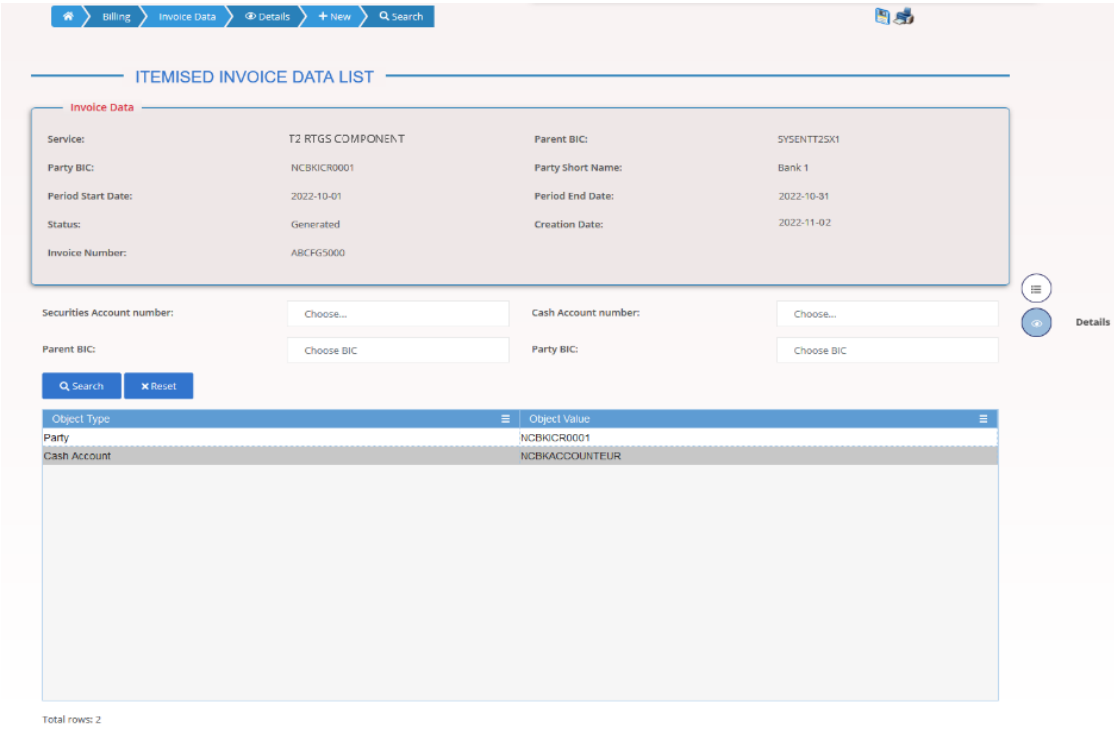


Illustration 20: Itemised Invoice Data – search/list screen

Fields Description

Invoice Data	
Service	Shows the Service of the returned Invoice Data.
Parent BIC	Shows the Parent BIC of the Party to be charged.
Party BIC	Shows the Party BIC of the Party to be charged.
Party Short Name	Shows the Party Short Name of the Party to be charged.
Period Start Date	Shows the start date of the Billing Period the Invoice Data refers to.
Period End Date	Shows the end date of the Billing Period the Invoice Data refers to.
Status	Shows the status of the Invoice Data (generated, corrected, cancelled, included in an invoice).
Creation date	Shows the date in which the Invoice Data has been generated.
Invoice Number	Shows the Invoice Number, when the invoice exists and its status is different from ‘Cancelled’.

Itemised Invoice data - Search Criteria	
Securities Account number	Enter or select a Securities Account which is relevant for the Party to be charged reported in the header. This field is visible only when the Party to be charged is a CSD. Required format is: max. 35 characters.
Cash Account number	Enter or select a Cash Account which is relevant for the Party to be charged reported in the header. This field is visible only when the Party to be charged is a CB, Payment Bank or Ancillary System. Required format is: max. 34x characters.
Parent BIC	Enter or select a Parent BIC which is relevant for the Party to be charged reported in the header. This field is visible only when the Party to be charged is a CSD or CB. Required format is: max. 11x characters.
Party BIC	Enter or select a Party BIC which is relevant for the Party to be charged reported in the header. This field is visible only when the Party to be charged is a CSD or CB. Required format is: max. 11x characters.

Itemised Invoice Data - List	
Object Type	Shows the object type the Itemised Invoice Data refers to.
Object Value	Shows the account number or party BIC according to the object value.

Buttons

Search	This function enables the user to start a search according to the entered criteria.
Reset	This function enables the user to set default search criteria and blanks out all optional criteria.

Details	This function enables the user to display the details of the selected itemised Invoice Data object.

1.5.2.4 Itemised Invoice Data – Details screen

Context of Usage

This screen shows in details the data calculated for an Invoice in a specific billing period. The content depends on the access point and the type of search: if it is accessed from the Invoice Data screens, it contains all the possible details; if it is accessed from the Itemised Invoice Data search screens, it contains the details depending on the type of item selected in the list.

Screen Access

- *Billing >> Invoice Data – search/list screen* >> Click on the *Details* button >> click on the *Itemised Invoice Data Search* button >> Select an item and click on the *Details* button
- *Billing >> Invoice Data – search/list screen* >> Select an item and click on the *Itemised Invoice Data Details* button

Privileges

To use this screen, the following Privileges are needed [▶]:

- Itemised Invoice Data Details Query

Screen-shot

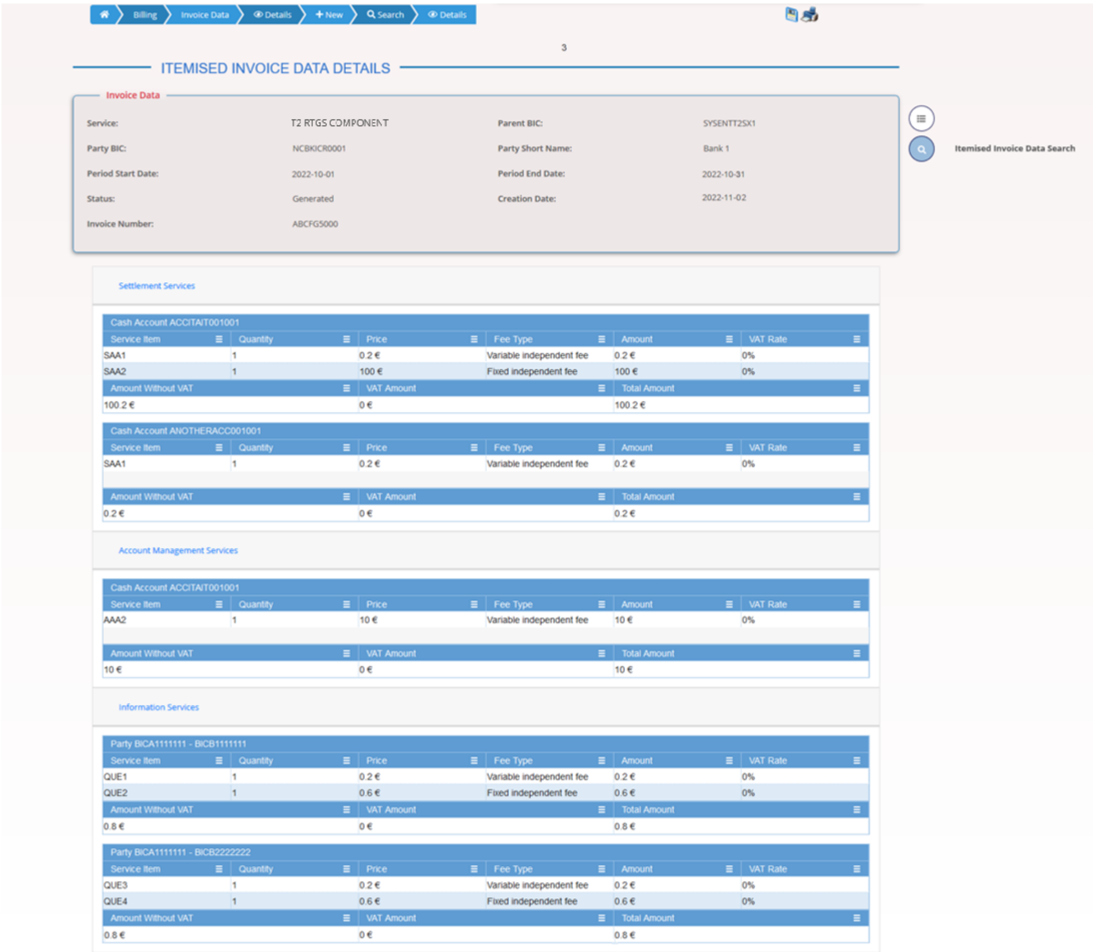


Illustration 21: Itemised Invoice Data – details screen

Fields Description

Invoice Data	
Service	Shows the Service of the returned Invoice Data.
Parent BIC	Shows the Parent BIC of the Party to be charged.
Party BIC	Shows the Party BIC of the Party to be charged.
Party Short Name	Shows the Party Short Name of the Party to be charged.
Period Start Date	Shows the start date of the Billing Period the Invoice Data refers to.
Period End Date	Shows the end date of the Billing Period the Invoice Data refers to.
Status	Shows the status of the Invoice Data (generated, corrected, cancelled, included in an invoice).
Creation date	Shows the date in which the Invoice Data has been generated.
Invoice Number	Shows the Invoice Number, when the invoice exists and its status is different from 'Cancelled'.

Itemised Invoice Data	
Settlement Services **Repetitive block for each Securities Account or Cash Account**	
Service Item	Shows the code and the Service Item name.
Quantity	Shows the number of billable events to be billed on the account for the specific Service Items.
Price	Shows the price applied.
Fee Type	Shows the type of the fee applied.
Amount	Shows the sum of the Amount in EURO calculated for the same Service Item and account. The amount format foresees four decimals.
VAT Rate	Shows the VAT rate considered in the computation, based on VAT defined by the System Entity for the applied Service Item. This field is shown only for Invoice data related to Participants.
Settlement Services sub-total	

Amount without VAT	Shows the sum of all the Amounts in the category. The amount format, in EURO, foresees four decimals.
VAT amount	Shows the sum of the VAT amount in EURO in the category. The amount format foresees four decimals. This field is shown only for Invoice data related to Participants.
Total amount	Shows the sum of all the Amounts and VAT Amounts in the category. The amount format, in EURO, foresees four decimals.
Account Management Services **Repetitive block for each Securities Account or Cash Account**	
Service Item	Shows the code and the Service Item name.
Quantity	Shows the number of billable events to be billed on the account for the specific Service Items.
Price	Shows the price applied. In case of bands or tariff, each band and tariff of the Service Items is reported in one row.
Fee Type	Shows the type of the fee applied.
Amount	Shows the sum of the Amount in EURO calculated for the same Service Item and account. The amount format foresees four decimals.
VAT Rate	Shows the VAT rate considered in the computation, based on VAT defined by the System Entity for the applied Service Item. This field is shown only for Invoice data related to Participants.
Account Management Services sub-totals	
Amount without VAT	Shows the sum of all the Amounts in the category. The amount format, in EURO, foresees four decimals.
VAT amount	Shows the sum of the VAT Amount in EURO in the category. The amount format foresees four decimals. This field is shown only for Invoice Data related to Participants.
Total amount	Shows the sum of all the Amounts and VAT Amounts in the category. The amount format, in EURO, foresees four decimals.
Information Services **Repetitive block for each party**	
Service Item	Shows the code and the Service Item name.

Quantity	Shows the number of billable events to be billed to the Party for the specific Service Items.
Price	Shows the price applied. In case of bands or tariff, each band and tariff of the Service Items is reported in one row.
Fee Type	Shows the type of the fee applied.
Amount	Shows the sum of the Amount in EURO calculated for the same Service Item and Party. The amount format foresees four decimals.
VAT Rate	Shows the VAT rate applied, basing on VAT defined by the System Entity for the applied Service Item. The amount format foresees four decimals. This field is shown only for Invoice data related to Participants.
Information Services sub-totals	
Amount without VAT	Shows the sum of all the Amounts in the category. The amount format, in EURO, foresees four decimals.
VAT amount	Shows the sum of the VAT amount in EURO of the Invoice Data. The amount format foresees four decimals. This field is shown only for Invoice data related to Participants.
Total amount	Shows the sum of all the Amounts and VAT Amounts in the category. The amount format, in EURO, foresees four decimals.

Buttons

Itemised Invoice Data Search	This function enables the user to search for Itemised Invoice Data.

1.5.3 Manual Corrections

1.5.3.1 Manual Corrections – Search/List screen

Context of Usage

This screen enables the authorised user to display the list of Manual Corrections or Template Corrections. The result is returned on the basis of the entered criteria in a list and it is sorted by the values of the Service, Status, Parent BIC, Party BIC, Period

Start date, Period End, Correction Type date columns in ascending order (default setting).

This screen gives also the possibility to access the Invoice Data Search/List Screen.

The content of the list depends on the authorised user that is performing the query:

- Operators can see all Manual Corrections and Template Corrections performed in the selected period;
- ECB users can see all Manual Corrections and Template Corrections performed to a System Entity Invoice Data;
- CB users can see the Manual Corrections and Template Corrections for their System Entity and the ones related to their community.

Screen Access

❙ *Billing >> Manual Correction >> Search*

Privileges

To use this screen, the following Privileges are needed [▶]:

❙ Manual Correction List Query

❙ Invoice Data List Query

Screenshot

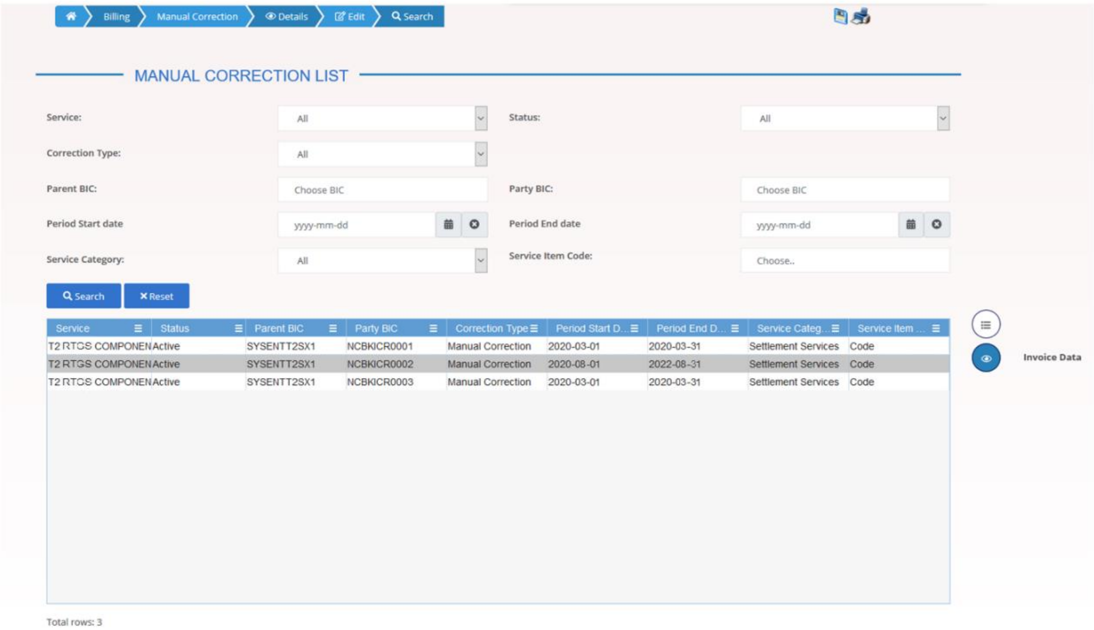


Illustration 22: Manual Correction – search/list screen

Fields Description

Manual Correction - Search Criteria	
Service	Select the Service from the possible values: - All (default value) - TIPS - T2 RTGS COMPONENT - ECMS - T2S The Service "T2 RTGS COMPONENT" is meant as T2 Service.
Status	Select the status of the Correction from the possible values: - All - Active (default value) - Deleted
Correction Type	Select the Correction Type from the possible values: - All (default value) - Template Correction - Manual Correction
Parent BIC	Enter or select the Parent BIC of the Party the Correction refers to. Required format is: max. 11 characters.
Party BIC	Enter or select the Party BIC the Correction is applied to. Required format is: max. 11 characters.
Period Start date	Enter or pick the date that defined the Start date of the relevant Billing Period for which the Correction must be searched. Required format is: Date.
Period End date	Enter or pick the date that defined the End date of the relevant Billing Period for which the Correction must be searched. It must be greater than the Period Start date but within the same month. Required format is: Date.
Service Category	Select the Service Category from the possible values: - All (default value) - Settlement Services - Account management Services

	▌Information Services This field is not selectable if Correction Type is Template Correction.
Service Item Code	Enter or select the code of the Service Item. This field is not selectable if Correction Type is Template Correction.

Manual Correction – List	
Service	Shows the Service of the returned Correction.
Status	Shows the Status of the Correction.
Parent BIC	Shows the Parent BIC of the Party the Correction is applied to.
Party BIC	Shows the Party BIC of the Party the Correction is applied to.
Correction Type	Shows the Correction Type.
Period Start Date	Shows the start date of the Billing Period the Correction refers to.
Period End Date	Shows the end date of the Billing Period the Correction refers to
Service Category	Shows the Service Item Category. This field is not filled in if Correction Type is Manual Correction.
Service Item Code	Shows the code of the Service Item. This field is not filled in if Correction Type is Manual Correction.

Buttons

Search	This function enables the user to start a search according to the criteria entered. The results are displayed in a list on the same screen.
Reset	This function enables the user to set default search criteria and blanks out all optional criteria.
Invoice Data	This function enables the user to access the *Invoice Data – search/list screen.*

1.3.7.2 Manual Correction – Details screen

Context of Usage

This screen enables the authorised user to display the details and status of the Manual Corrections and the Template Corrections applied to a previously selected Invoice Data. The details of the selected Invoice Data and Template Correction are shown on top of the page. The Manual Corrections are displayed in a list sorted by the values of the Status, Name, Service Category, Service Item Code columns in ascending order (default setting).

This screen gives also the possibility to create, edit or delete Manual Corrections and Template Correction for the selected Invoice Data.

Screen Access

- *Billing* >> *Invoice Data* >> *Search/List screen* >> Click on *Manual Corrections* button
- *Billing* >> *Invoice Data* >> *Details screen* >> Click on *Manual Corrections* button

Privileges

To use this screen, the following Privileges are needed [▶]:

- Manual Correction Details Query
- Manage Manual Correction

Screenshot

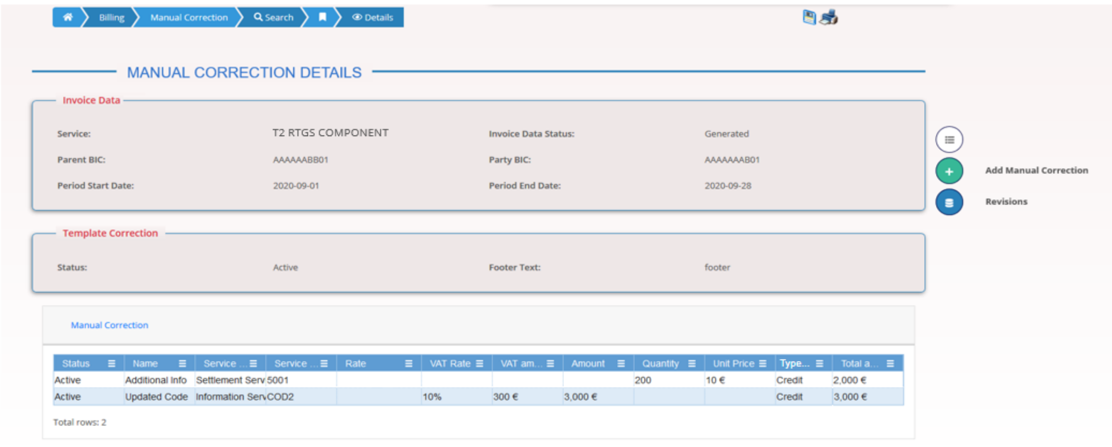


Illustration 23: Manual Correction – Details screen

Fields Description

Invoice Data	
Service	Shows the Service of the Invoice Data the Manual Correction is applied to.
Invoice Data Status	Shows the Status of the Invoice Data the Manual Correction is applied to.
Parent BIC	Shows the Parent BIC of the Party related to the Invoice Data the Manual Correction is applied to.

Party BIC	Shows the Party BIC of the Party related to the Invoice Data the Manual Correction is applied to.
Period Start Date	Shows the start date of the Billing Period the Invoice Data refers to.
Period End Date	Shows the end date of the Billing Period the Invoice Data refers to.

Template Correction	
Status	Shows the Status of the Template Correction.
Footer Text	Shows the Footer text included in the PDF invoice.

Manual Correction	
Status	Shows the Status of the Manual Correction.
Name	Shows the description of the Manual Correction.
Service Category	Shows the Service Item Category.
Service Item Code	Shows the code of the Service Item
Rate	Shows the percentage of correction applicable to the Amount.
VAT Rate	Shows the applied percentage of VAT.
VAT Amount	Shows the VAT Amount computed for the Manual Correction.
Amount	Shows the Amount of the correction applied on the Service Item.
Quantity	Shows the consumption related to the selected Service item.
Unit Price	Shows the Unit Price applied to the selected Quantity.
Type of correction (Credit/Debit)	Shows whether the performed Manual Correction has to be debited or to be credited to the participant.
Total Amount	Shows the total amount of the Manual Correction.

Buttons

Add Manual Correction	This function enables the user to create or edit a Manual Correction for the selected Invoice Data.

	If the status of the selected Invoice Data is set to “Included in Invoice” this function is not available.
Revisions	This function enables the user to display the revisions list of the selected Manual Correction.

1.3.7.3 Manual Correction – New/Edit screen

Context of Usage

The screen “Manual Correction – New/Edit” enables the authorised user to perform Manual Correction on Invoice Data.

Manual and Template Correction are allowed only if the relevant invoice has not been created yet, or if it has been already cancelled.

This screen is relevant for ECB, CB users and Service Operator. The user can enter new data or edit existing data. Afterwards, the user can proceed further by clicking on the buttons below.

ECB users can insert Invoice manual corrections only for System Entity Invoices (which could be propagated to Participant invoices), while the CB users can manually correct only the Invoice Data of their Participants.

Screen Access

- *Billing >> Manual Correction >> Manual Correction Details screen >>* Click on *Add Manual Correction* button

Privileges

To use this screen, the following Privileges are needed [▶]:

- Manage Manual Correction

Screen-shot

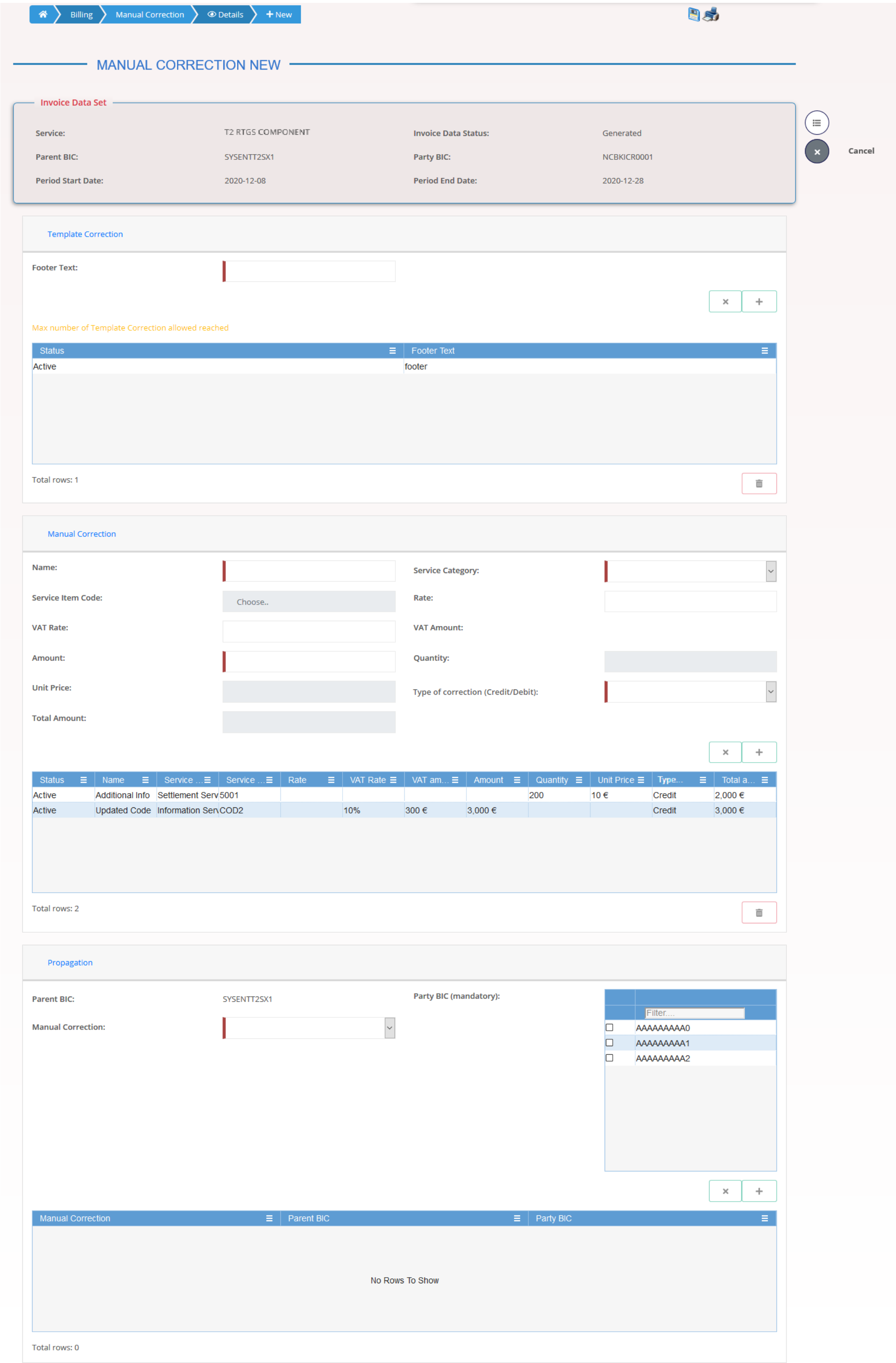


Illustration 24: Manual Correction – New/Edit screen

Fields Description

Invoice Data	
Service	Shows the Service of the Invoice Data the Manual Correction is applied to. The field is read-only.
Invoice Data Status	Shows the Status of the Invoice Data the Manual Correction is applied to. The field is read-only.
Parent BIC	Shows the Parent BIC of the Party related to the Invoice Data the Manual Correction is applied to. The field is read-only.
Party BIC	Shows the Party BIC of the Party related to the Invoice Data the Manual Correction is applied to. The field is read-only.
Period Start Date	Shows the start date of the Billing Period the Invoice Data refers to. The field is read-only.
Period End Date	Shows the end date of the Billing Period the Invoice Data refers to. The field is read-only.

Template Correction	
Status	Shows the status of the corresponding Template Correction if present.
Footer Text	Shows the Footer text of the corresponding Template Correction if present.
Add/Delete Template Correction	
Footer Text	Enter the Footer text to be included in the PDF invoice, in substitution to the one configured in CRDM. Required format is: max 1000x characters.

Manual Correction	
Status	Shows the status of the corresponding Manual Correction if present.
Name	Shows the description of the Manual Correction.
Service Category	Shows the Service Item Category.
Service Item Code	Shows the code of the Service Item
Rate	Shows the percentage of correction applicable to the Amount.
VAT Rate	Shows the applied percentage of VAT.
VAT Amount	Shows the new Computed VAT Amount.
Amount	Shows the Amount of the correction applied on the Service Item.
Quantity	Shows the consumption related to the selected Service item.
Unit Price	Shows the Unit Price applicable to the selected Quantity.
Type of correction (Credit/Debit)	Shows whether the performed Manual Correction has to be debited or to be credited to the participant.
Total Amount	Shows the total amount of the Manual Correction.
Add/Delete Manual Correction	
Name	Enter the description of the Manual Correction. This field is mandatory in create mode. Required format is: max. 35x characters. Reference for error message [▶]: ❙ DBC5003
Service Category	Select the Service Category from the possible values: ❙ Settlement Services ❙ Account management Services ❙ Information Services This field is mandatory in create mode.
Service Item Code	Enter a new Code or select the code of the Service Item from the list of the already existing Service Item Codes. This field is mandatory in create mode.

	Required format is: max. 4x characters. Reference for error message [▶]: ❙ DBC5001 ❙ DBC5003
Rate	Enter the percentage of correction applicable to the Amount. This field is not allowed if an already existing Service Item Code is selected. Required format is: Percentage.
VAT Rate	Enter the percentage of VAT rate to be applied. This field is not allowed if an already existing Service Item Code is selected. Required format is: Percentage.
VAT Amount	Shows the Computed VAT Amount. This field is read only. It is equal to Amount times the VAT Rate defined for the selected Service Item if an already existing Service Item Code is selected. It is equal to Amount times the VAT Rate if a new Service Item Code is entered. Displayed format is: amount with four decimals.
Amount	Enter the Amount of the correction to be applied on the Service Item. Only one among Amount and Quantity fields must be defined. Required format is: amount with four decimals.
Quantity	Enter the consumption related to the selected Service item. Only one among Amount and Quantity fields must be defined. Required format is: Integer. Reference for error message [▶]: ❙ DBC5001
Unit Price	Enter the Unit Price applicable to the selected Quantity. This field is allowed only if Quantity is filled in. Required format is: amount with four decimals. Reference for error message [▶]:

	❙ DBC5001
Type of correction (Credit/Debit)	Select whether the performed Manual Correction has to be debited or to be credited to the participant. Possible values: ❙ Credit ❙ Debit This field is mandatory in create mode.
Total Amount	Shows the total amount of the Manual Correction. It is equal to Amount if Rate is not filled in. It is equal to the Rate percentage of Amount if both are filled in. It is blank if only Quantity is filled in. It is equal to Quantity times Unit Price if both are filled in. The field is read-only. Displayed format is: amount with two decimals.
Propagation	
Filter BIC	Enter the BIC of the party to filter the 'Parties' to be selected for Manual Correction Propagation. Required format is: max. 11x characters. This field is available only for ECB users.
Parent BIC	Shows the Parent BIC of the party (i.e. the Party BIC of the Party related to the Invoice Data). This field is available only for ECB users.
Party BIC	Shows the Party BIC of the party. Select one or more BIC to link the Manual Correction to the Invoice Data of the selected Participant. The list contains the Party BIC of the Participants belonging to the datascope of the party to be charged related to the Invoice Data. This field is available only for ECB users. Reference for error message [▶]: ❙ DBC5005 ❙ DBC5006 ❙ DBC5007

Manual Correction	Select the couple Manual Correction Name, Service Item Code from the existing Manual Corrections defined for the selected Invoice Data. This field is mandatory. This field is available only for ECB users. Reference for error message [▶]: ▌DBC5005 ▌DBC5006 ▌DBC5007

Buttons

Submit Row	This function enables the user to add or update an item in the related list using the values inserted in the related fields. Reference for error message [▶]: ▌DBC5001 ▌DBC5002 ▌DBC5003 ▌DBC5004 ▌DBC5005 ▌DBC5006 ▌DBC5007
Delete Row	This function enables the user to remove the selected item from the related list. If the status of the selected Manual Correction is already set to 'Deleted', this function is not available.
Reset	This function enables the user to set all fields to default value and blanks out all optional fields.
Cancel	This function enables the user to cancel the process and return to the previous screen.

1.5.4 PDF Invoice

1.5.4.1 PDF Invoice – Search/List screen

Context of Usage

This screen enables the authorised user to display the list of Invoices that have been created for each billing period. The result is returned on the basis of the entered criteria in a list, which is sorted by the values of the Service, Parent BIC, Party BIC, Invoice Number, Due Date columns in ascending order (default setting).

The content of the list depends on the authorised user that is performing the query:

- Operators can see all Invoices;
- ECB users can see all the System Entity Invoices (identified by a CB or CSD Party BIC);
- CB users can see their own Invoice of the System Entity (identified by a CB Party BIC) and all the Participant Invoices (identified by Participants Party BICs) related to their community;
- CSD users can see their own Invoice of the System Entity (identified by a CSD Party BIC);
- Participants users can see their own Participant Invoices (identified by Participants Party BICs).

This screen gives also the possibility to view and download more than one PDF Invoice at the same time by means of a compressed file containing all the desired Invoices.

Screen Access

❙ *Billing >> PDF Invoice >> Search*

Privileges

To use this screen, the following Privileges are needed [▶]:

❙ Manage Billing Data

Screenshot

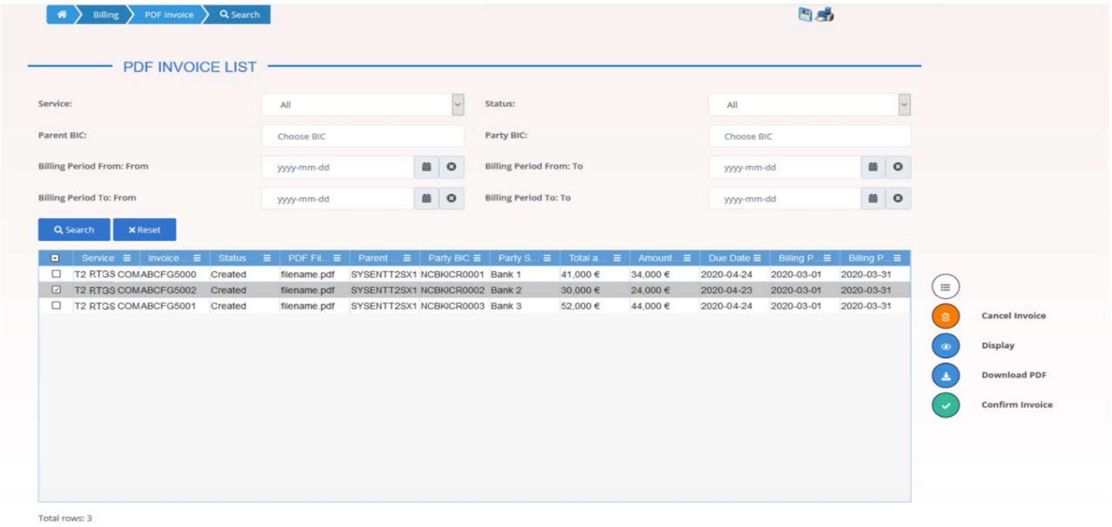


Illustration 25: PDF Invoice– search/list screen

Fields Description

PDF Invoice - Search Criteria	
Service	Select the Service from the possible values: - All (default value) - TIPS - T2 RTGS COMPONENT - ECMS - T2S The Service “T2 RTGS COMPONENT” is meant as T2 Service.
Status	Select the Status of the Invoice from the possible values: - All (default value) - Sent - Cancelled - Payment sent
Parent BIC	Enter or select the Parent BIC of the Party to be charged. Required format is: max. 11 characters (SWIFT-x).
Party BIC	Enter or select the Party BIC of the Party to be charged. Required format is: max. 11 characters (SWIFT-x).
Billing Period From: From	Enter or pick the lower bound of the Start date of the relevant Billing Period for which the Invoice must be searched. Required format is: Date.
Billing Period From: To	Enter or pick the upper bound of the Start date of the relevant Billing Period for which the Invoice must be searched. It must be greater than the “Billing Period From: From”. Required format is: Date.
Billing Period To: From	Enter or pick the lower bound of the End date of the relevant Billing Period for which the Invoice must be searched. Required format is: Date.
Billing Period To: To	Enter or pick the upper bound of the End date of the relevant Billing Period for which the Invoice must be searched. It must be greater than the “Billing Period To: From”. Required format is: Date.

PDF Invoice - List	
Service	Shows the Service of the returned Invoice.
Invoice Number	Shows the identification of the Invoice.
Status	Shows the Status of the returned Invoice.
PDF File Name	Shows the File Name of the PDF containing the returned Invoice.
Parent BIC	Shows the Parent BIC of the Party to be charged in the specified Billing Period.
Party BIC	Shows the Party BIC of the Party to be charged in the specified Billing Period.
Party Short Name	Shows the Short name of the Party to be charged.
Total Amount	Shows the Total Amount (VAT included) of the returned Invoice.
Amount without Vat	Shows the Total Amount (no VAT included) of the returned Invoice.
Due Date	Shows the Due Date of the returned Invoice.
Billing Period From	Shows the start date of the Billing Period.
Billing Period To	Shows the end date of the Billing Period.

Buttons

Search	This function enables the user to start a search according to the criteria entered. The results are displayed in a list on the same screen.
Reset	This function enables the user to set default search criteria and blanks out all optional criteria.
Display	This button allows to display the selected Invoice in PDF format.
Download PDF	This button allows to download one or more than one PDF Invoices, after selecting them.
Confirm Invoice	This button allows to change the status of the selected Invoice from “Created” to “Sent”.

	If the status of the selected Invoice is already set to "Cancelled", "Sent" or "Payment sent", this function is not available. Only the Service Operator can Confirm an Invoice.
Cancel Invoice	This button allows to change the status of the selected Invoice from "Created" or "Sent" to "Cancelled". If the status of the selected Invoice is already set to "Cancelled" or "Payment sent", this function is not available. Only the Service Operator can Cancel an Invoice.

1.5.5 Revisions

1.5.5.1 Revision/Audit trail – List screen (Service Operator only)

Context of Usage

This screen is used to receive an overview of the Revisions and the Audit Trail for the Manual Corrections performed by the users. The search results will be displayed in a list. After selecting an entry, you can proceed further by clicking on the Details button. The Revisions/Audit Trail (List Screen) can be reached via Manual Correction Details Screen, where the user pushes the Revisions Button.

Screen Access

- *Billing >> Manual Correction Details >> Click on Revision button*

Privileges

To use this screen, the following Privileges are needed [▶]:

- Manual Correction List Query

Screenshot

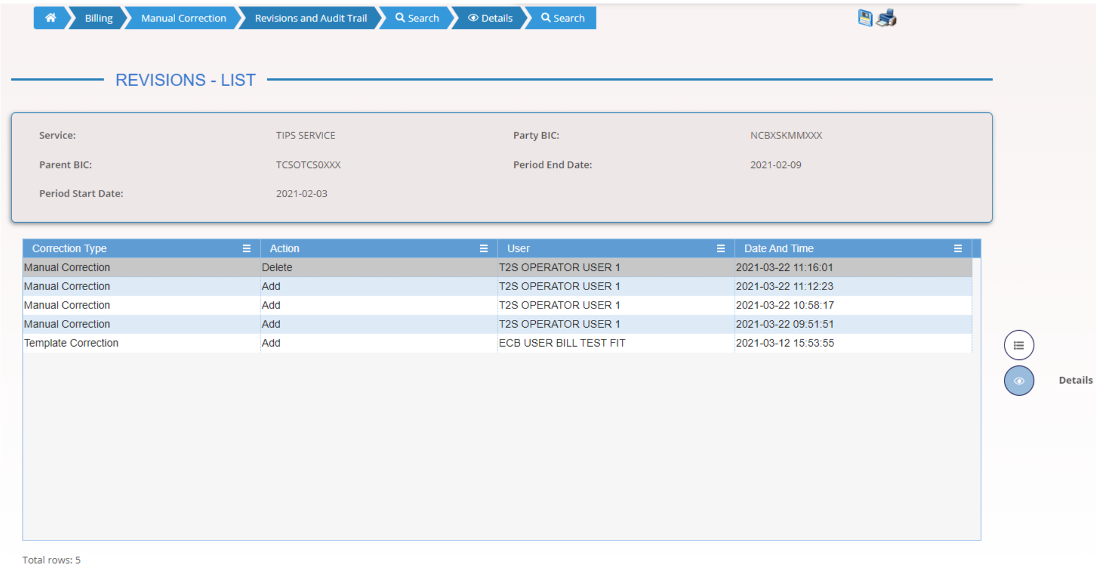


Illustration 41: Revisions/Audit Trail – list screen

Fields Description

Revisions/Audit Trail – List	
Service	Shows the Service of the Invoice Data Set the Manual Correction is applied to.
Parent BIC	Shows the Parent BIC of the Party related to the Invoice Data Set the Manual Correction is applied to.
Party BIC	Shows the Party BIC of the Party related to the Invoice Data Set the Manual Correction is applied to.
Period Start Date	Shows the start date of the Billing Period the Invoice Data Set refers to.
Period End Date	Shows the end date of the Billing Period the Invoice Data Set refers to.
Revisions/Audit Trail entry	
Correction Type	Shows the Correction Type from the possible values: ❙ Template Correction ❙ Manual Correction
Action	Shows the action performed by the user. Possible values are: ❙ Add ❙ Delete
User	Shows the identification of the user who changed the data.
Date and Time	Shows the date and time at which the user changed the data. Displayed format is timestamp.

Buttons

Details	This function enables you to display the details of the selected revisions.

1.5.5.2 Revision/Audit trail – Details screen (Service Operator only)

Context of Usage

This screen displays detailed information on a specific revision of a selected Manual Correction, including the data of this revision as well as the data of the previous revision from the details screen of the object.

Screen Access

- *Manual Correction Details >> Click on the revisions button >> Revisions/audit trail – list screen >> Click on the details button*

Privileges

To use this screen, the following Privileges are needed [▶]:

- Manual Correction List Query

Screenshot

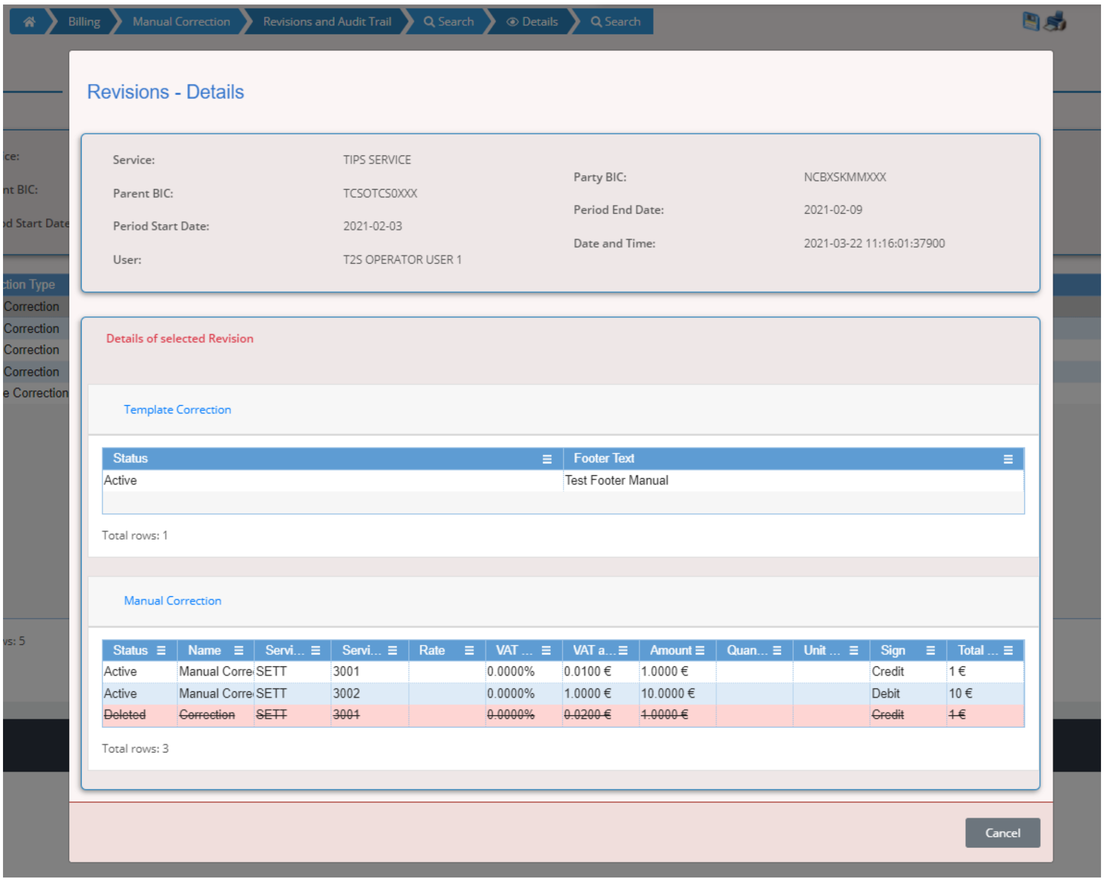


Illustration 42: Revisions/Audit Trail – Details screen

Fields Description

Revisions – Details	
Audit Trail	
Service	Shows the Service of the Invoice Data Set the Manual Correction is applied to.
Parent BIC	Shows the Parent BIC of the Party related to the Invoice Data Set the Manual Correction is applied to.
Party BIC	Shows the Party BIC of the Party related to the Invoice Data Set the Manual Correction is applied to.
Period Start Date	Shows the start date of the Billing Period the Invoice Data Set refers to.
Period End Date	Shows the end date of the Billing Period the Invoice Data Set refers to.
User	Shows the identification of the user who changed the data.
Date and Time	Shows the date and time at which the User changed the data. Displayed format is Timestamp.
Details of selected Revisions	
Values	Shows all elements which are part of the respective details screen. All changed data compared to the previous values are highlighted: ❙ In red for deleted items. ❙ In green for added items.

Buttons

Cancel	This function enables you to return to the previous screen.

2
3 User Instructions Part

3.1 Billing Data

3.1.1 Invoice Data Query

3.1.1.1 Querying Invoice Data

Context of Usage

This business package describes all activities the authorised user can perform for displaying the list of created Invoice Data and their related status.

Privileges

To carry out this business scenario, the user needs the following privilege:

- Invoice Data List Query

Reference

Further information on screens involved can be found in the screen reference part:

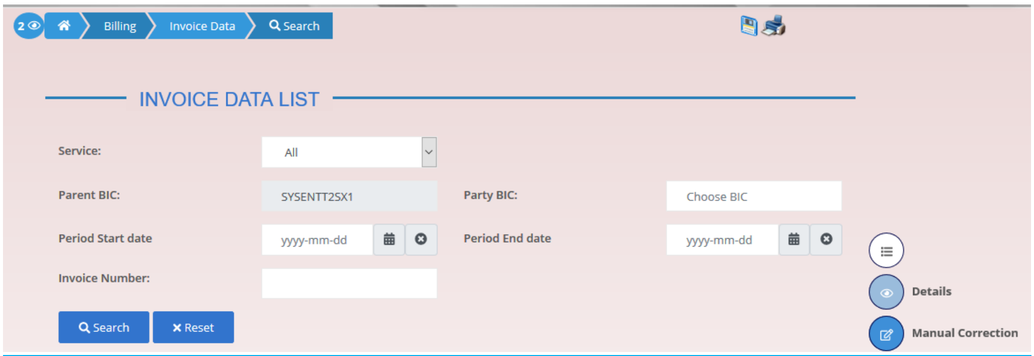
- *Invoice Data – search/list* screen [▶]
- *Invoice Data – details* screen [▶]

Instructions

1. Go to the *Invoice Data – search/list* screen:
   Billing >> Invoice Data >> Search
   Billing >> Manual Correction >> Search >> Click on Invoice Data button

⇨ The *Invoice Data – search/list* is displayed.

2. Enter all the information of interest, choosing whether to specify the 'Service', the 'Party BIC', the Start/End date of the relevant Billing period, or the Invoice Number (only if already used for the creation of an Invoice which is not cancelled).



3. Click on the *Search* button.

➡ The Invoice Data List is displayed.

3.1.2 Querying Itemised Invoice Data

Context of Usage

This business package describes all activities the authorised user can perform for displaying the list of Itemised Invoice Data that compose the Invoice Data that could be selected from the previous screen.

Privileges

To carry out this business scenario, the user needs the following privilege:

- Itemised Invoice Data List Query
- Itemised Invoice Data Details Query

Reference

Further information on screens involved can be found in the screen reference part:

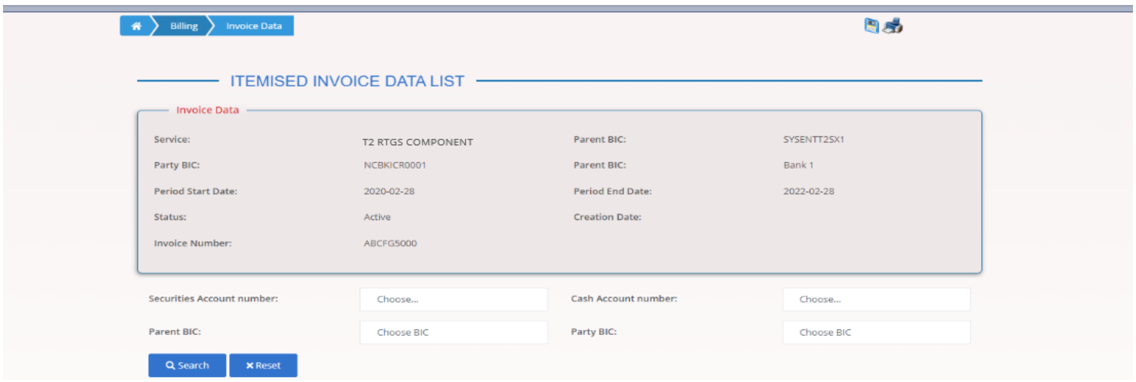
- *Itemised Invoice Data – search/list* screen [▶]
- *Itemised Invoice Data – details* screen [▶]

Instructions

1. Go to the *Itemised Invoice Data – search/list* screen:
   Billing >> Invoice Data – search/list screen >> Click on the Details button >> click on the Itemised Invoice Data Search button

⇨ The *Itemised Invoice Data – search/list* is displayed.

2. Enter all the information of interest, choosing whether to specify the ‘Securities Account number’, the ‘Cash Account number’, the ‘Parent BIC’ or the ‘Party BIC’.



3. Click on the *Search* button.

➡ The Itemised Invoice Data List is displayed.

3.1.3 Querying PDF Invoice

Context of Usage

This business package describes all activities the authorised user can perform for displaying the list of PDF Invoices and their related status.

Privileges

To carry out this business scenario, the user needs the following privilege:

- Manage Billing Data

Reference

Further information on screens involved can be found in the screen reference part:

- *PDF Invoice – search/list* screen [▶]

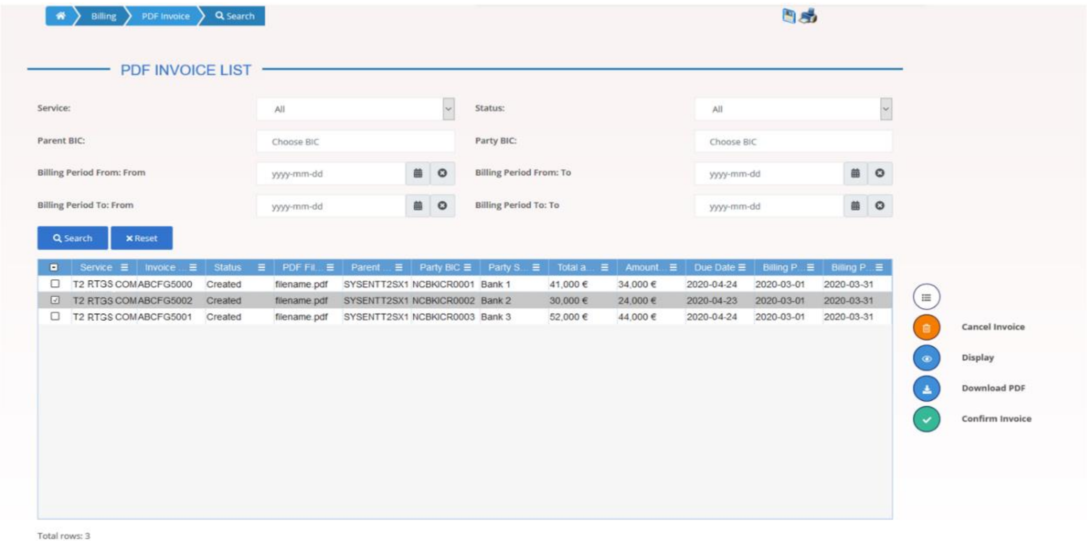
Instructions

1. Go to the *PDF Invoice – search/list* screen:
   Billing >> PDF Invoice >> Search

⇨ The *PDF Invoice – search/list* screen is displayed.

2. Enter all the information of interest, choosing whether to specify the 'Service', the 'Status', the 'Parent BIC', the 'Party BIC' and the Start/End date of the relevant Billing period.
3. Click on the *Search* button.

⇨ The list of PDF Invoices is displayed.



4. Select one or more than one PDF Invoices and then click on the *Download PDF* button.

➡ The PDF Invoice or the list of PDF Invoices is downloaded.

3.2 Configuring of a Manual Correction

3.2.1 Create a New Manual Correction

Context of Usage

This business package describes how to create a new Manual Correction starting from a pre-defined group of Invoice Data.

In the example below the user performs:

- A Template Correction that leads to the substitution of the previously configured Invoice Footer;

- A Manual Correction with the introduction of an additional service item containing an Amount and a VAT rate.

Privileges

To carry out this business scenario, the user needs the following privilege:

- Invoice Data List Query
- Manual Correction Details Query
- Manage Manual Correction

Reference

Further information on screens involved can be found in the screen reference part:

- *Invoice Data – search/list* screen [▶]
- *Manual Correction – details* screen [▶]
- *Manual Correction – new/edit* screen [▶]

Instructions

1. Go to the *Invoice Data – search/list* screen:
   Billing >> Invoice Data >> Search
   Billing >> Manual Correction >> Search >> Click on *Invoice Data* button

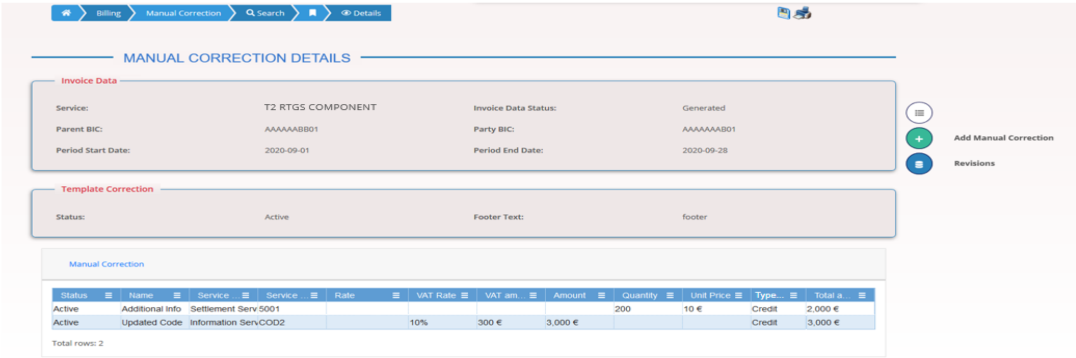
⇨ The *Invoice Data – search/list screen* is displayed.

2. Enter all the information of interest, choosing whether to specify the 'Service', the 'Party BIC', the Start/End date of the relevant Billing period.
3. Click on the *Search* button.

⇨ The Invoice Data List is displayed.

4. Select an Invoice Data and click on *Manual Correction* button.

⇨ The *Manual Correction – details screen* is displayed



5. Click on *Add Manual Correction* button.

⇨ The *Manual Correction – new/edit screen* is displayed

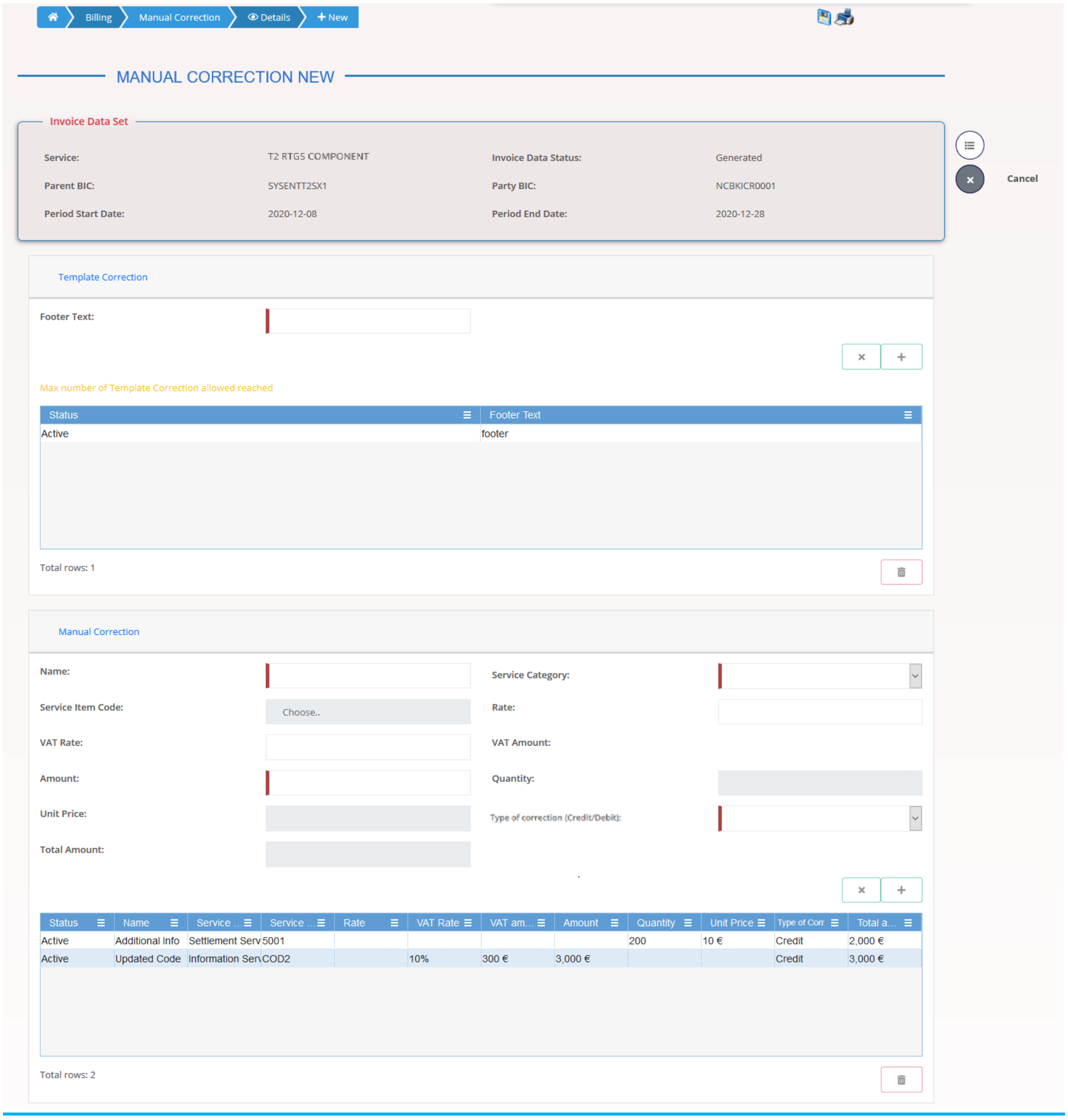
6. Enter the ‘Footer Text’.

7. Click the *Submit Row* button in the Template Correction section.

8. Enter the ‘Name’, select the ‘Service Item Category’, enter the ‘Service Item Code’; then enter the ‘Amount’, the ‘VAT Rate’ and select the ‘Type of correction (Credit/Debit)’.

9. Click the *Submit Row* button in the Manual Correction section.

➡ The new Manual Correction has been created and is shown in the list.



3.2.2 Create a New Template Correction (CB)

Context of Usage

This business package describes how to create a new Template Correction starting from a predefined group of Invoice Data.

In the example below the CB user performs a Template Correction that leads to the substitution of the previously configured Invoice Footer in a Participant Invoice.

Privileges

To carry out this business scenario, the user needs the following privilege:

- Invoice Data List Query
- Manual Correction Details Query
- Manage Manual Correction

Reference

Further information on screens involved can be found in the screen reference part:

- *Invoice Data – search/list* screen [▶]

▌ *Manual Correction – details* screen [▶]

▌ *Manual Correction – new/edit* screen [▶]

Instructions

1. Go to the *Invoice Data – search/list* screen:
   Billing >> Invoice Data >> Search
   Billing >> Manual Correction >> Search >> Click on *Invoice Data* button

⇨ The *Invoice Data – search/list screen* is displayed.

2. Enter all the information of interest, choosing whether to specify the 'Service', the 'Parent BIC', the 'Party BIC', the Start/End date of the relevant Billing period.
3. Click on the *Search* button.

⇨ The Invoice Data List is displayed.

4. Select an Invoice Data and click on *Manual Correction* button.

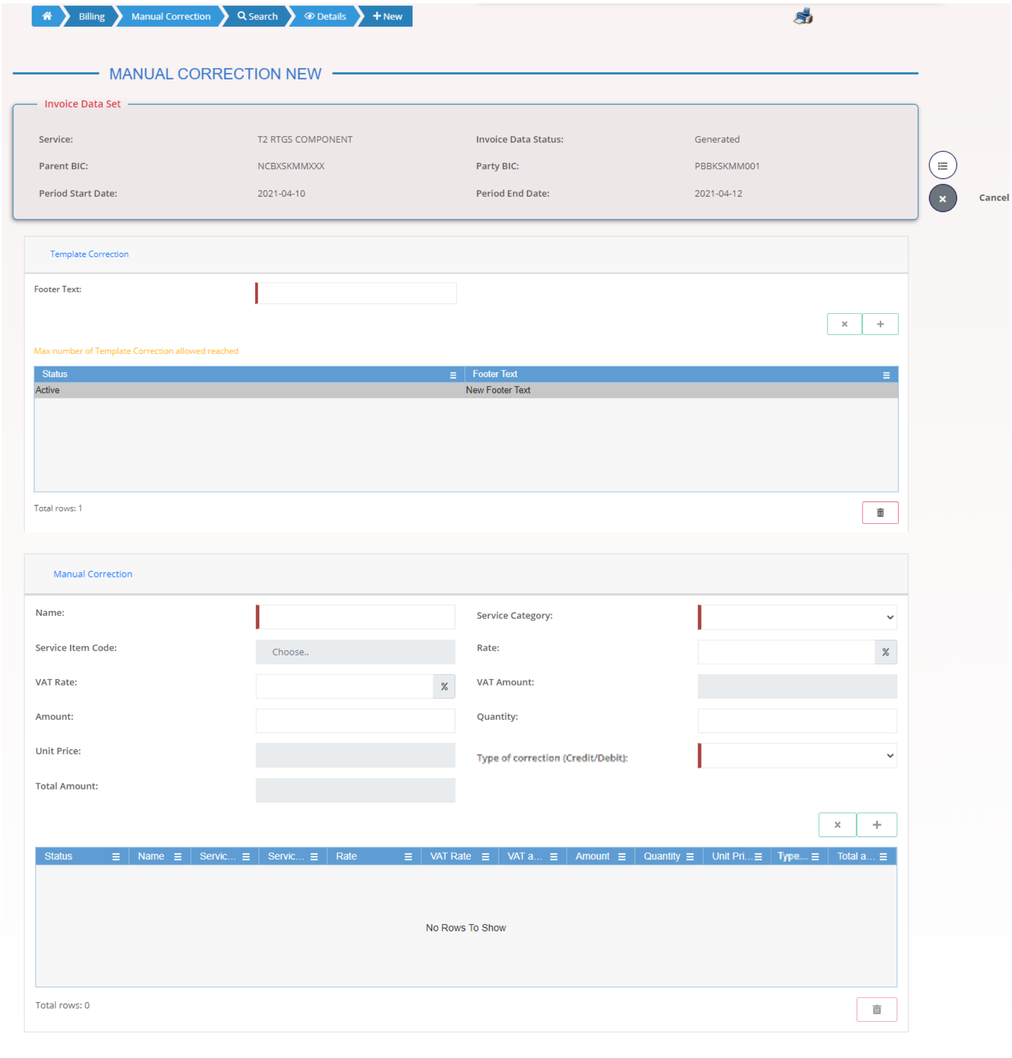
⇨ The *Manual Correction – details screen* is displayed

5. Click on *Add Manual Correction* button.

⇨ The *Manual Correction – new/edit screen* is displayed

6. Enter the 'Footer Text'.
7. Click the *Submit Row* button in the Template Correction section.

➡ The new Template Correction has been created and is shown in the list.



3.2.3 Create a New Manual Correction (CB)

Context of Usage

This business package describes how to create a new Manual Correction starting from a pre-defined group of Invoice Data.

In the example below the CB user performs a Manual Correction that inserts quantity and unit price of a new Service Item for a Participant Invoice.

Privileges

To carry out this business scenario, the user needs the following privilege:

- Invoice Data List Query
- Manual Correction Details Query
- Manage Manual Correction

Reference

Further information on screens involved can be found in the screen reference part:

- *Invoice Data – search/list* screen [▶]

❚ *Manual Correction – details* screen [⏵]

❚ *Manual Correction – new/edit* screen [⏵]

Instructions

1. Go to the *Invoice Data – search/list* screen:
   Billing >> Invoice Data >> Search
   Billing >> Manual Correction >> Search >> Click on *Invoice Data* button

⇨ The *Invoice Data – search/list screen* is displayed.

2. Enter all the information of interest, choosing whether to specify the 'Service', the 'Parent BIC', the 'Party BIC', the Start/End date of the relevant Billing period.
3. Click on the *Search* button.

⇨ The Invoice Data List is displayed.

4. Select an Invoice Data and click on *Manual Correction* button.

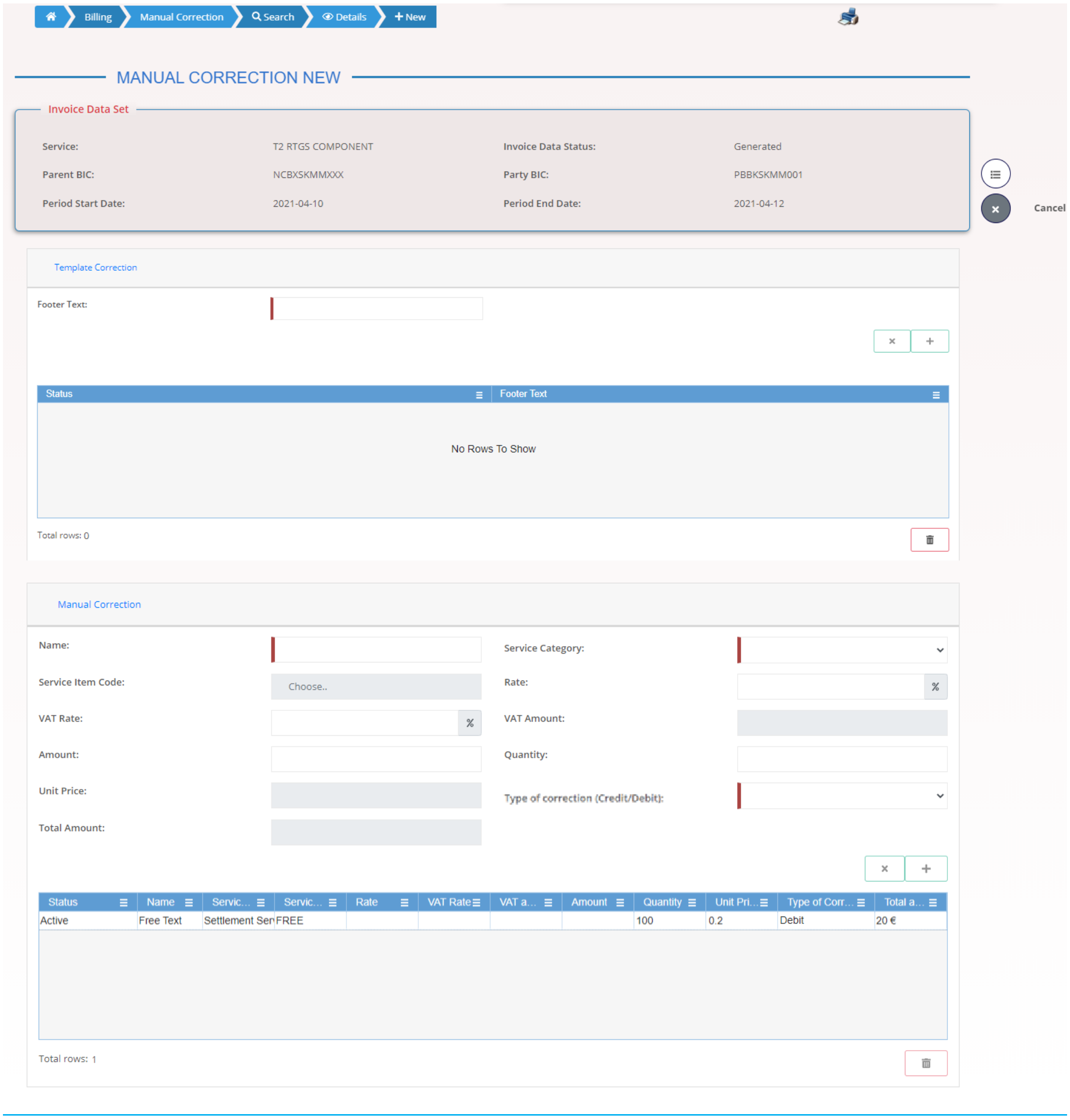
⇨ The *Manual Correction – details screen* is displayed

5. Click on *Add Manual Correction* button.

⇨ The *Manual Correction – new/edit screen* is displayed

6. Enter the 'Name', select the 'Service Item Category', enter a new 'Service Item Code'; then enter the 'Quantity', 'Unit Price' and select the 'Type of Correction (Credit/Debit)'.
7. Click the *Submit Row* button in the Manual Correction section.

➡ The new Manual Correction has been created and is shown in the list.



3.2.4 Create a New Manual Correction without propagation (ECB)

Context of Usage

This business package describes how to create a new Manual Correction starting from a pre-defined group of Invoice Data.

In the example below the ECB user performs a Manual Correction that amends the quantity of an existing Service Item in a System Entity Invoice. No propagation to Participant Invoices is performed.

Privileges

To carry out this business scenario, the user needs the following privilege:

- Invoice Data List Query
- Manual Correction Details Query
- Manage Manual Correction

Reference

Further information on screens involved can be found in the screen reference part:

- *Invoice Data – search/list* screen [▶]
- *Manual Correction – details* screen [▶]
- *Manual Correction – new/edit* screen [▶]

Instructions

1. Go to the *Invoice Data – search/list* screen:
   Billing >> Invoice Data >> Search
   Billing >> Manual Correction >> Search >> Click on *Invoice Data* button

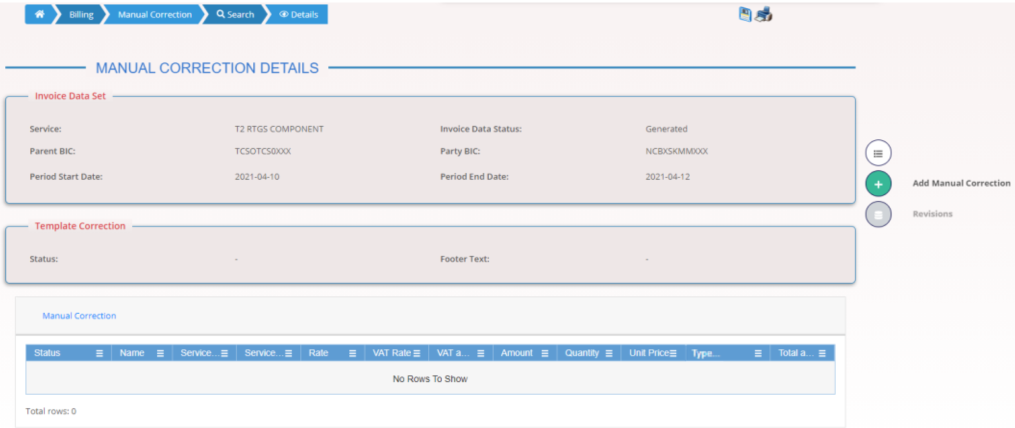
⇨ The *Invoice Data – search/list screen* is displayed.

2. Enter all the information of interest, choosing whether to specify the 'Service', the 'Party BIC', the Start/End date of the relevant Billing period.
3. Click on the *Search* button.

⇨ The Invoice Data List is displayed.

4. Select an Invoice Data and click on *Manual Correction* button.

⇨ The *Manual Correction – details screen* is displayed

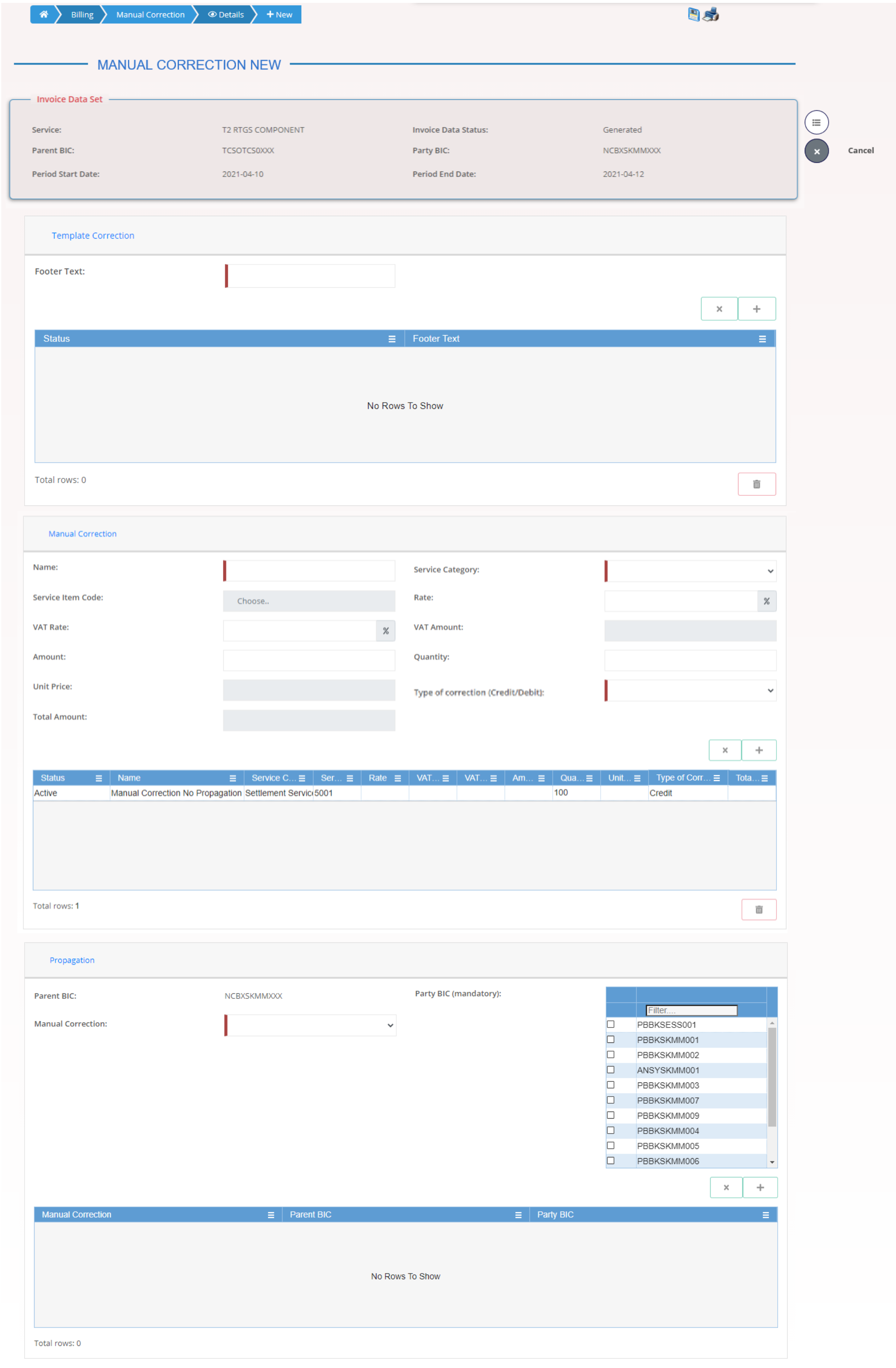


5. Click on *Add Manual Correction* button.

⇨ The *Manual Correction – new/edit screen* is displayed

6. Enter the 'Name', select the 'Service Item Category', enter or select the 'Service Item Code'; then enter the 'Quantity' and select the 'Type of Correction (Credit/Debit)'.
7. Click the *Submit Row* button in the Manual Correction section.

➡ The new Manual Correction has been created and is shown in the list.


Billing
Manual Correction
Details
New
MANUAL CORRECTION NEW
Invoice Data Set
Service: T2 RTGS COMPONENT
Invoice Data Status: Generated
Parent BIC: TCSOTCS0XXX
Party BIC: NCBXSKMMXXX
Period Start Date: 2021-04-10
Period End Date: 2021-04-12
Cancel
Template Correction
Footer Text:
Status
Footer Text
No Rows To Show
Total rows: 0
Manual Correction
Name:
Service Category:
Service Item Code:
Choose..
Rate:
VAT Rate:
VAT Amount:
Amount:
Quantity:
Unit Price:
Type of correction (Credit/Debit):
Total Amount:
Status
Name
Service C...
Ser...
Rate
VAT...
VAT...
Am...
Qua...
Unit...
Type of Corr...
Tota...
Active
Manual Correction No Propagation
Settlement Servic
5001
100
Credit
Total rows: 1
Propagation
Parent BIC: NCBXSKMMXXX
Party BIC (mandatory):
Manual Correction:
Filter...
PBBKSESS001
PBBKSKMM001
PBBKSKMM002
ANSYSKMM001
PBBKSKMM003
PBBKSKMM007
PBBKSKMM009
PBBKSKMM004
PBBKSKMM005
PBBKSKMM006
Manual Correction
Parent BIC
Party BIC
No Rows To Show
Total rows: 0

3.2.5 Propagation of a Manual Correction to one Participant (ECB)

Context of Usage

This business package describes how to propagate a Manual Correction starting from an existing and active Manual Correction on an Invoice Data.

In the example below the ECB user propagates a Manual Correction that amends the quantity of an existing Service Item to a Participant Invoice.

Privileges

To carry out this business scenario, the user needs the following privilege:

- Invoice Data List Query
- Manual Correction Details Query
- Manage Manual Correction

Reference

Further information on screens involved can be found in the screen reference part:

- *Invoice Data – search/list* screen [▶]
- *Manual Correction – details* screen [▶]
- *Manual Correction – new/edit* screen [▶]

Instructions

1. Go to the *Invoice Data – search/list* screen:
   Billing >> Invoice Data >> Search
   Billing >> Manual Correction >> Search >> Click on *Invoice Data* button

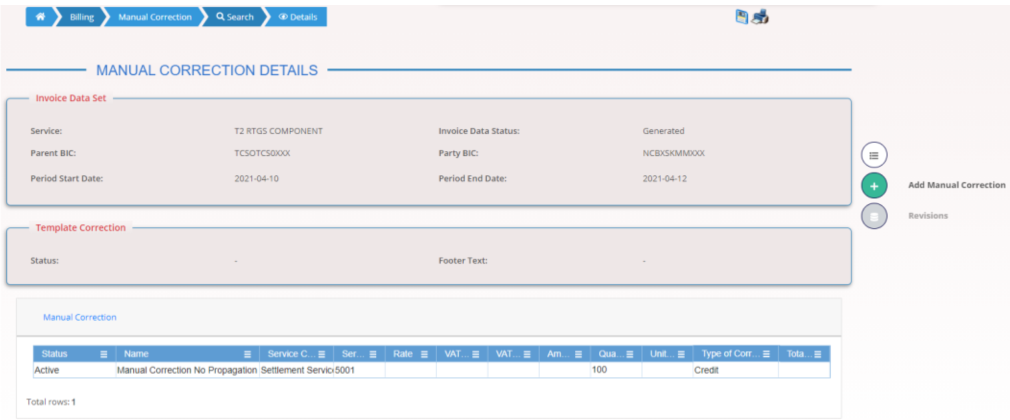
⇨ The *Invoice Data – search/list screen* is displayed.

2. Enter all the information of interest, choosing whether to specify the 'Service', the 'Party BIC', the Start/End date of the relevant Billing period.
3. Click on the *Search* button.

⇨ The Invoice Data List is displayed.

4. Select an Invoice Data and click on *Manual Correction* button.

⇨ The *Manual Correction – details screen* is displayed

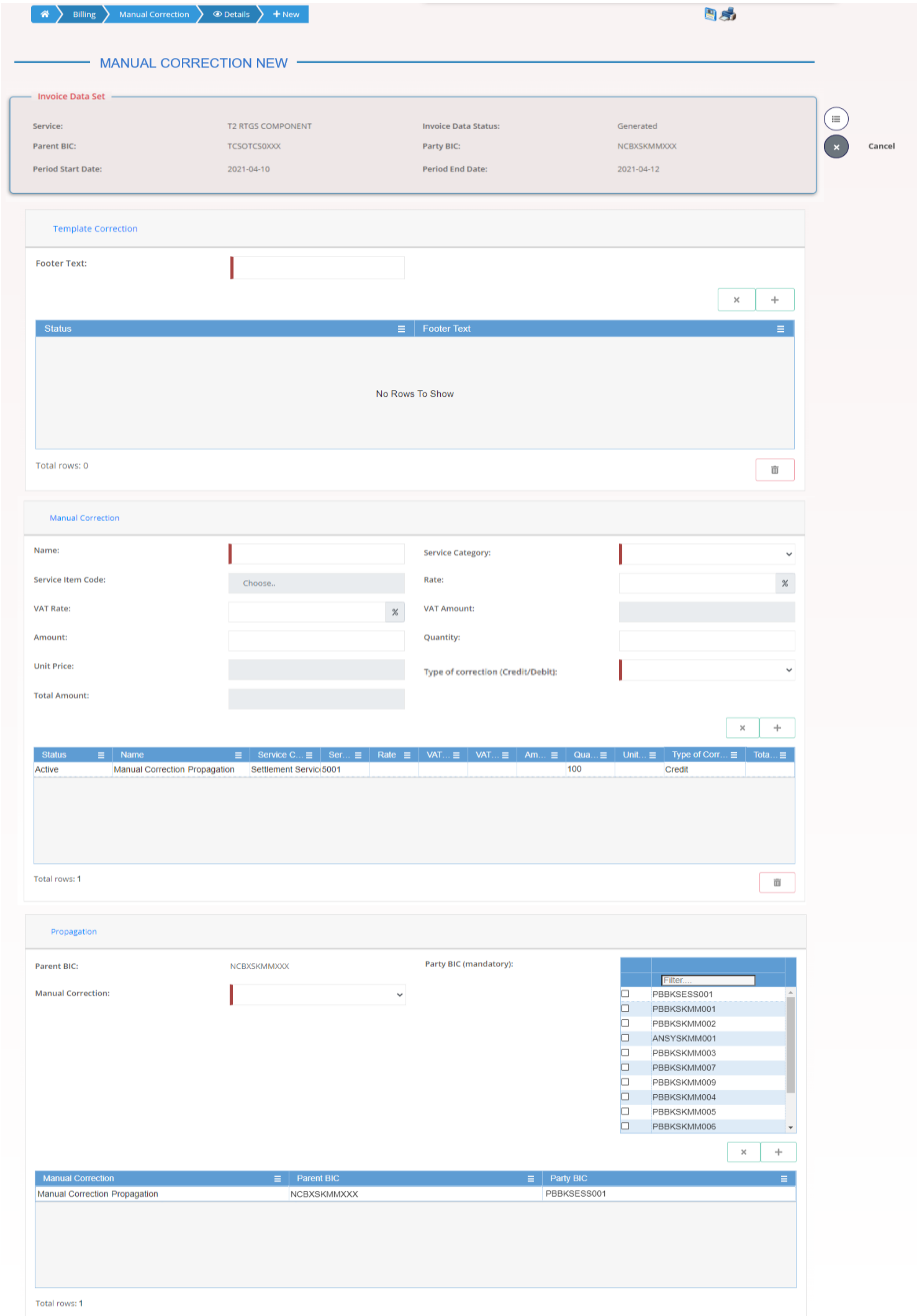


5. Click on *Add Manual Correction* button.

⇨ The *Manual Correction – new/edit screen* is displayed

6. Select the 'Manual Correction', select the 'Party BIC' of the Participant.
7. Click the *Submit Row* button in the Propagation section.

➡ The Manual Correction has been propagated and is shown in the list.



Propagation of a Manual Correction to all Participants (ECB)

Context of Usage

This business package describes how to propagate a Manual Correction starting from an existing and active Manual Correction on a new Service Item already inserted in a System Entity Invoice Data.

In the example below the ECB user propagates the Manual Correction to all the Participants under the Central Bank scope.

Privileges

To carry out this business scenario, the user needs the following privilege:

- Invoice Data List Query
- Manual Correction Details Query
- Manage Manual Correction

Reference

Further information on screens involved can be found in the screen reference part:

- *Invoice Data – search/list* screen [▶]
- *Manual Correction – details* screen [▶]
- *Manual Correction – new/edit* screen [▶]

Instructions

1. Go to the *Invoice Data – search/list* screen:
   Billing >> Invoice Data >> Search
   Billing >> Manual Correction >> Search >> Click on *Invoice Data* button

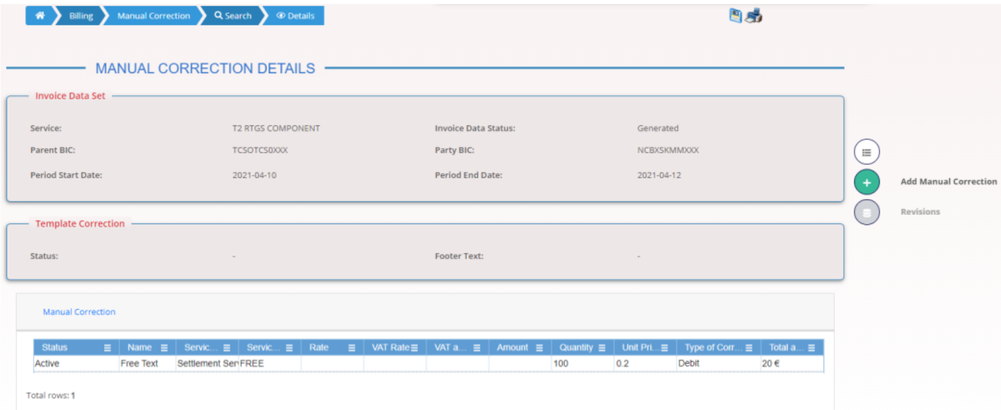
⇨ The *Invoice Data – search/list screen* is displayed.

2. Enter all the information of interest, choosing whether to specify the ‘Service’, the ‘Party BIC’, the Start/End date of the relevant Billing period.
3. Click on the *Search* button.

⇨ The Invoice Data List is displayed.

4. Select an Invoice Data and click on *Manual Correction* button.

⇨ The *Manual Correction – details screen* is displayed

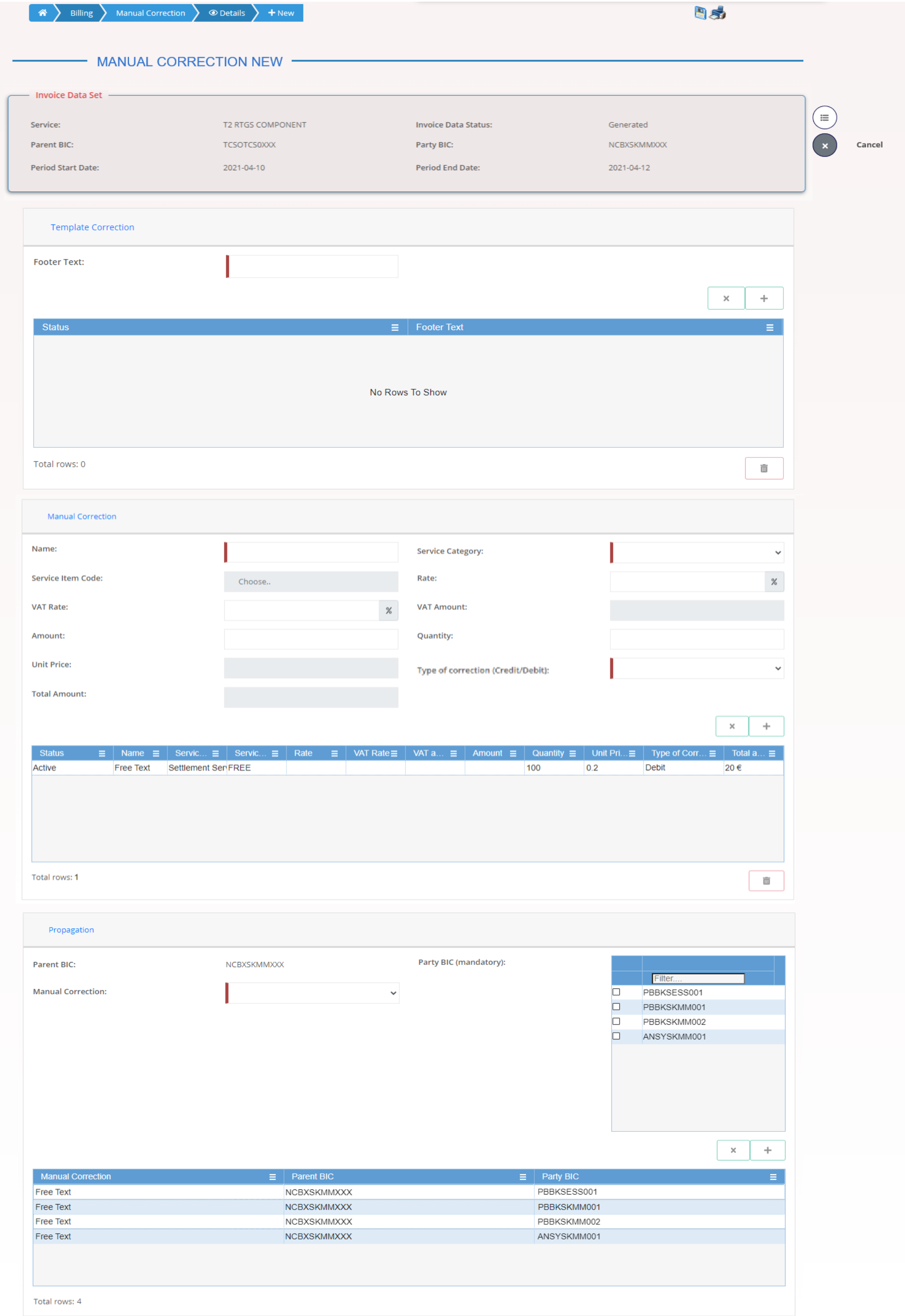


5. Click on *Add Manual Correction* button.

⇨ The *Manual Correction – new/edit screen* is displayed

6. Select the ‘Manual Correction’, select the ‘Party BIC’ of all the Participants.
7. Click the *Submit Row* button in the Propagation section.

➡ The Manual Corrections have been propagated and are shown in the list.



4 Trouble Management System Part

5 Statistical Information Part

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6 Annex

6.1 Indication of Usage

6.1.1 Reader's Guide

Reader`s Guide

This part of the annex is divided into screens and business scenarios, both in alphabetical order. For each screen description and business scenario, you can find an indication of the primary user (CB / CSD). This indication is not binding.

6.1.2 Usage Indication

Screens

Screen	Usage Indication (CSD/CB)
Allegement Instruction - Details Screen [**Error! Bookmark not defined.**]	CSD
Allegement Instructions - Search/List Screen [**Error! Bookmark not defined.**]	CSD
Amendment Cash Instruction - Details Screen [**Error! Bookmark not defined.**]	CB
Amendment Cash Instruction - New Screen [**Error! Bookmark not defined.**]	CB
Amendment Securities Instruction - Details Screen [**Error! Bookmark not defined.**]	CSD
Amendment Securities Instruction - New Screen [**Error! Bookmark not defined.**]	CSD
Attribute Domain - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Attribute Domain - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Attribute Domain Reference - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Attribute Domain Reference - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Attribute Domain References - List Screen [**Error! Bookmark not defined.**]	CSD/CB

Screen	Usage Indication (CSD/CB)
Attribute Domains - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Auto-Collateralisation Eligibility Link - New Screen [**Error! Bookmark not defined.**]	CB
Auto-Collateralisation Eligibility Links - Search/List Screen [**Error! Bookmark not defined.**]	CB
Available Report - Current Settlement Day Cash Information (Following Settlement Day Cash Forecast) Report - Details Screen [**Error! Bookmark not defined.**]	CB
Available Report - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Available Report - Statement of Accounts - Details Screen [**Error! Bookmark not defined.**]	CB
Available Report - Statement of Executed Amendment Instructions for Intra-Balance Movements - Details Screen [**Error! Bookmark not defined.**]	CB
Available Report - Statement of Executed Amendment Instructions for Intra-Position Movements and Settlement Instructions - Details Screen [**Error! Bookmark not defined.**]	CSD
Available Report - Statement of Executed Cancellation Instructions for Intra-Balance Movements - Details Screen [**Error! Bookmark not defined.**]	CB
Available Report - Statement of Executed Cancellation Instructions for Intra-Position Movements and Settlement Instructions - Details Screen [**Error! Bookmark not defined.**]	CSD
Available Report - Statement of Holdings - Details Screen [**Error! Bookmark not defined.**]	CSD
Available Report - Statement of Pending Amendment Instructions for Intra-Balance Movements - Details Screen [**Error! Bookmark not defined.**]	CB

Screen	Usage Indication (CSD/CB)
Available Report - Statement of Pending Amendment Instructions for Intra-Position Movements and Settlement Instructions - Details Screen [**Error! Bookmark not defined.**]	CSD
Available Report - Statement of Pending Cancellation Instructions for Intra-Balance Movements - Details Screen [**Error! Bookmark not defined.**]	CB
Available Report - Statement of Pending Cancellation Instructions for Intra-Position Movements and Settlement Instructions - Details Screen [**Error! Bookmark not defined.**]	CSD
Available Report - Statement of Pending Instructions - Details Screen [**Error! Bookmark not defined.**]	CSD
Available Report - Statement of Pending Intra-Balance Movements - Details Screen [**Error! Bookmark not defined.**]	CB
Available Report - Statement of Pending Intra-Position Movements - Details Screen [**Error! Bookmark not defined.**]	CSD
Available Report - Statement of Settled Intra-Balance Movements - Details Screen [**Error! Bookmark not defined.**]	CB
Available Report - Statement of Settled Intra-Position Movements - Details Screen [**Error! Bookmark not defined.**]	CSD
Available Report - Statement of Settlement Allegements - Details Screen [**Error! Bookmark not defined.**]	CSD
Available Report - Statement of Static Data - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Available Report - Statement of Transactions - Details Screen [**Error! Bookmark not defined.**]	CSD
Available Reports - Search/List Screen [107]	CSD/CB

Screen	Usage Indication (CSD/CB)
Broadcast - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Broadcast - New Screen [**Error! Bookmark not defined.**]	CSD/CB
Broadcasts - Search/List Screen [110]	CSD/CB
Calendar – Details Screen [XXX]	CSD/CB
Cancellation Cash Instruction - Details Screen [**Error! Bookmark not defined.**]	CB
Cancellation Cash Instruction - New Screen [**Error! Bookmark not defined.**]	CB
Cancellation Securities Instruction - Details Screen [**Error! Bookmark not defined.**]	CSD
Cancellation Securities Instruction - New Screen [**Error! Bookmark not defined.**]	CSD
Cash Forecast - Details Screen [**Error! Bookmark not defined.**]	CB
Cash Forecasts - Search/List Screen [**Error! Bookmark not defined.**]	CB
Cash Restriction Details - Search/List Screen [**Error! Bookmark not defined.**]	CB
Certificate Distinguished Name - New Screen [**Error! Bookmark not defined.**]	CSD/CB
Certificate Distinguished Names - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Close Link - New Screen [**Error! Bookmark not defined.**]	CB
Close Links - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Collateral Value of a Security - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB

Screen	Usage Indication (CSD/CB)
Collateral Value per T2S Dedicated Cash Account and Security - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
CoSD Rule - New/Edit Screen [**Error! Bookmark not defined.**]	CSD
CoSD Rule Set – New/Edit Screen [**Error! Bookmark not defined.**]	CSD
CoSD Rule Sets - Search/List Screen [**Error! Bookmark not defined.**]	CSD
CoSD Rules – Search/List Screen [**Error! Bookmark not defined.**]	CSD
Countries - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
CMB - Details Screen [**Error! Bookmark not defined.**]	CB
CMB - New/Edit Screen [**Error! Bookmark not defined.**]	CB
CMBs - Search/List Screen [**Error! Bookmark not defined.**]	CB
CSD Account Link - New/Edit Screen [**Error! Bookmark not defined.**]	CSD
CSD Account Links - Search/List Screen [**Error! Bookmark not defined.**]	CSD
Cumulative Billing Data - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Cumulative Billing Data - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Currencies - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Daily Schedules - Search/List Screen [110]	CSD/CB
Data Change - Details Screen [110]	CSD/CB
Data Changes - Search/List Screen [110]	CSD/CB

Screen	Usage Indication (CSD/CB)
Eligible Counterpart CSD - Details Screen [**Error! Bookmark not defined.**]	CSD
Eligible Counterpart CSD - New/Edit Screen [**Error! Bookmark not defined.**]	CSD
Eligible Counterpart CSDs - Search/List Screen [**Error! Bookmark not defined.**]	CSD
Event Type - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Event Types - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
External RTGS Account - Details Screen [**Error! Bookmark not defined.**]	CB
External RTGS Account - New/Edit Screen [**Error! Bookmark not defined.**]	CB
External RTGS Accounts - Search/List Screen [**Error! Bookmark not defined.**]	CB
Grant/Revoke Cross-System Entity Object Privilege – Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Grant/Revoke Cross-System Entity Object Privilege – New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Grant/Revoke Object Privilege - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Grant/Revoke Object Privilege - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Grant/Revoke Privileges - Search Screen [**Error! Bookmark not defined.**]	CSD/CB
Grant/Revoke Role - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Grant/Revoke Role - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB

Screen	Usage Indication (CSD/CB)
Grant/Revoke System Privilege - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Grant/Revoke System Privilege - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Granted Roles - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Hold/Release Instruction - Details Screen [**Error! Bookmark not defined.**]	CSD
Hold/Release Instruction - New Screen [**Error! Bookmark not defined.**]	CSD
Immediate Liquidity Transfer - Details Screen [**Error! Bookmark not defined.**]	CB
Immediate Liquidity Transfer - New Screen [**Error! Bookmark not defined.**]	CB
Immediate Liquidity Transfer - Search/List Screen [**Error! Bookmark not defined.**]	CB
Inbound File - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Inbound Files - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Inbound Message - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Inbound Messages - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Insolvency procedure Settlement Instructions – Search/List Screen [**Error! Bookmark not defined.**]	CSD
Intra-Balance Movement - Details Screen [**Error! Bookmark not defined.**]	CB
Intra-Balance Movement - New Screen [**Error! Bookmark not defined.**]	CB

Screen	Usage Indication (CSD/CB)
Intra-Balance Movements - Search/List Screen [**Error! Bookmark not defined.**]	CB
Intra-Position Movement - Details Screen [**Error! Bookmark not defined.**]	CSD
Intra-Position Movement - New Screen [**Error! Bookmark not defined.**]	CSD
Intra-Position Movements - Search/List Screen [**Error! Bookmark not defined.**]	CSD
~~Itemised Billing Data - Details Screen [110]~~	~~CSD/CB~~
~~Itemised Billing Data - Search/List Screen [110]~~	~~CSD/CB~~
Limit - New/Edit Screen [**Error! Bookmark not defined.**]	CB
Limit Utilisation - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Limit Utilisation Journal - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Limits - Search/List Screen [**Error! Bookmark not defined.**]	CB
Maintenance Cash Instructions - Search/List Screen [**Error! Bookmark not defined.**]	CB
Maintenance Securities Instructions - Search/List Screen [**Error! Bookmark not defined.**]	CSD
Market-Specific Attribute - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Market-Specific Attribute - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Market-Specific Attributes - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Message Subscription Rule - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Message Subscription Rule Set - Details Screen [**Error! Bookmark not defined.**]	CSD/CB

Screen	Usage Indication (CSD/CB)
Message Subscription Rule Set - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Message Subscription Rule Sets - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Message Subscription Rules - List Screen [**Error! Bookmark not defined.**]	CSD/CB
Network Services - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Outbound File - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Outbound Files - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Outbound Message - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Outbound Messages - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Outstanding Auto-Collateralisation Credits - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Overall Liquidity - Search/List Screen [**Error! Bookmark not defined.**]	CB
Partial Settlement Thresholds - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Parties - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Party - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Party - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Privileges - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB

Screen	Usage Indication (CSD/CB)
Queued Static Data Changes – Search/List Screen [110]	CSD/CD
Queued Static Data Change – Details Screen [110]	CSD/CD
Report Configuration - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Report Configuration - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Report Configurations - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Resend Communication Screen [**Error! Bookmark not defined.**]	CSD/CB
Restricted Parties - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Restriction Type - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Restriction Type Rule - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Restriction Type Rule - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Restriction Type Rule Sets - List Screen [**Error! Bookmark not defined.**]	CSD/CB
Restriction Types - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Revisions/Audit Trail - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Revisions/Audit Trail - List Screen [**Error! Bookmark not defined.**]	CSD/CB
Role - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Roles - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB

Screen	Usage Indication (CSD/CB)
Routing - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Routings - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Secured Group - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Secured Group - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Secured Groups - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Securities - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Securities Account - Details Screen [**Error! Bookmark not defined.**]	CSD
Securities Account - New/Edit Screen [**Error! Bookmark not defined.**]	CSD
Securities Account Transfer Management - Edit Screen [**Error! Bookmark not defined.**]	CSD
Securities Accounts - Search/List Screen [**Error! Bookmark not defined.**]	CSD
Securities Accounts Link - New/Edit Screen [**Error! Bookmark not defined.**]	CSD
Securities Accounts Links - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Securities Position - Details Screen [**Error! Bookmark not defined.**]	CSD
Securities Positions - Search/List Screen [**Error! Bookmark not defined.**]	CSD
Securities Postings - Search/List Screen [**Error! Bookmark not defined.**]	CSD
Securities Restriction Details - Search/List Screen [**Error! Bookmark not defined.**]	CSD

Screen	Usage Indication (CSD/CB)
Securities Valuation - New Screen [**Error! Bookmark not defined.**]	CB
Securities Valuations - Search/List Screen [**Error! Bookmark not defined.**]	CB
Security – Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Security – New/Edit Screen [**Error! Bookmark not defined.**]	CSD
Security CSD Link – Details Screen [**Error! Bookmark not defined.**]	CSD
Security CSD Link – New/Edit Screen [**Error! Bookmark not defined.**]	CSD
Security CSD Links – Search/List Screen [**Error! Bookmark not defined.**]	CSD
Service Item – Details Screen [**Error! Bookmark not defined.**]	CSD/CB
Service Items – Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Settlement Days – Search/List screen [XXX]	CSD/CB
Settlement Instruction – Details Screen [**Error! Bookmark not defined.**]	CSD
Settlement Instruction – New Screen [**Error! Bookmark not defined.**]	CSD
Settlement Instructions – Search/List Screen [**Error! Bookmark not defined.**]	CSD
Standing/Predefined Liquidity Transfer Order – Details Screen [**Error! Bookmark not defined.**]	CB
Standing/Predefined Liquidity Transfer Order – New/Edit Screen [**Error! Bookmark not defined.**]	CB
Standing/Predefined Liquidity Transfer Order Link Set – Details Screen [**Error! Bookmark not defined.**]	CB

Screen	Usage Indication (CSD/CB)
Standing/Predefined Liquidity Transfer Order Link Set – New/Edit Screen [**Error! Bookmark not defined.**]	CB
Standing/Predefined Liquidity Transfer Order Link Sets – Search/List Screen [**Error! Bookmark not defined.**]	CB
Standing/Predefined Liquidity Transfer Orders – Search/List Screen [**Error! Bookmark not defined.**]	CB
Static Data Revisions – Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Status History – Details Screen [**Error! Bookmark not defined.**]	CSD/CB
System Entities – Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
T2S BIC Directory Items - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
~~T2S Calendar Screen [110]~~	~~CSD/CB~~
T2S DCA Balance - Details Screen [**Error! Bookmark not defined.**]	CB
T2S DCA Balances - Search/List Screen [**Error! Bookmark not defined.**]	CB
T2S DCA Postings - Search/List Screen [**Error! Bookmark not defined.**]	CB
T2S Dedicated Cash Account - Details Screen [**Error! Bookmark not defined.**]	CB
T2S Dedicated Cash Account - New/Edit Screen [**Error! Bookmark not defined.**]	CB
T2S Dedicated Cash Accounts - Search/List Screen [**Error! Bookmark not defined.**]	CB
Technical Addresses Network Services Link - Details Screen [**Error! Bookmark not defined.**]	CSD/CB

Screen	Usage Indication (CSD/CB)
Technical Addresses Network Services Link - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
Tolerance Amounts - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Total Amount of Standing/Predefined Liquidity Transfer Orders - Search/List Screen [**Error! Bookmark not defined.**]	CB
Total collateral value per T2S dedicated cash account - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
User - Details Screen [**Error! Bookmark not defined.**]	CSD/CB
User - New/Edit Screen [**Error! Bookmark not defined.**]	CSD/CB
User Access Rights – List Screen [110]	CSD/CB
User Access Rights – Search Screen [110]	CSD/CB
User Certificate Distinguished Name Link - New Screen [**Error! Bookmark not defined.**]	CSD/CB
User Certificate Distinguished Name Links - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Users - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB
Working/Closing Days - Search/List Screen [**Error! Bookmark not defined.**]	CSD/CB

Business Scenarios

Business Scenario	Usage Indication (CSD/CB)
Add a Link for a Settlement Instruction [**Error! Bookmark not defined.**]	CSD
Add a Link for a Settlement Restriction on Cash [**Error! Bookmark not defined.**]	CB

Business Scenario	Usage Indication (CSD/CB)
Add a Link for a Settlement Restriction on Securities [**Error! Bookmark not defined.**]	CSD
Add a new Technical Address to a Party [**Error! Bookmark not defined.**]	CSD/CB
Amend the Partial Settlement Indicator for a Settlement Instruction [**Error! Bookmark not defined.**]	CSD
Amend the Priority for a Settlement Instruction [**Error! Bookmark not defined.**]	CSD
Amend the Priority for a Settlement Restriction on Cash [**Error! Bookmark not defined.**]	CB
Amend the Priority for a Settlement Restriction on Securities [**Error! Bookmark not defined.**]	CSD
Approve an Action in 4-Eyes Mode [**Error! Bookmark not defined.**]	CSD/CB
Assign a Market-Specific Attribute Value to a Party [**Error! Bookmark not defined.**]	CSD/CB
Assign a Market-Specific Attribute Value to a Securities Account [**Error! Bookmark not defined.**]	CSD
Assign a Market-Specific Attribute Value to a Security [**Error! Bookmark not defined.**]	CSD
Assign a Restriction Type to a Party [**Error! Bookmark not defined.**]	CSD/CB
Assign a Restriction Type to a Securities Account [**Error! Bookmark not defined.**]	CSD
Assign a Restriction Type to a Security [**Error! Bookmark not defined.**]	CSD
Assign a Restriction Type to a T2S Dedicated Cash Account [**Error! Bookmark not defined.**]	CB
Assign a Restriction Type to an external RTGS Account [**Error! Bookmark not defined.**]	CB
Assign a Role to a Party [**Error! Bookmark not defined.**]	CSD/CB

Business Scenario	Usage Indication (CSD/CB)
Assign a Role to a User [**Error! Bookmark not defined.**]	CSD/CB
Assign a Secured Object to a Secured Group [**Error! Bookmark not defined.**]	CSD/CB
Cancel a Settlement Instruction [**Error! Bookmark not defined.**]	CSD
Cancel a Settlement Restriction on Cash [**Error! Bookmark not defined.**]	CB
Cancel a Settlement Restriction on Securities [**Error! Bookmark not defined.**]	CSD
Change the Limit of a Payment Bank [**Error! Bookmark not defined.**]	CB
Configure a Restriction Type Rule Set [**Error! Bookmark not defined.**]	CSD/CB
Configure CSD Account Links [**Error! Bookmark not defined.**]	CSD
Configure Eligible Counterparty CSD [**Error! Bookmark not defined.**]	CSD
Configure Security CSD Links [**Error! Bookmark not defined.**]	CSD
Copy a Settlement Instruction [**Error! Bookmark not defined.**]	CSD
Copy a Settlement Restriction on Cash [**Error! Bookmark not defined.**]	CB
Copy a Settlement Restriction on Securities [**Error! Bookmark not defined.**]	CSD
Copy an Immediate Liquidity Transfer [**Error! Bookmark not defined.**]	CSD/CB
Create a new Attribute Domain [**Error! Bookmark not defined.**]	CSD/CB
Create a new Broadcast [**Error! Bookmark not defined.**]	CSD/CB

Business Scenario	Usage Indication (CSD/CB)
Create a new CoSD Rule Set [**Error! Bookmark not defined.**]	CSD
Create a new Credit Memorandum Balance [**Error! Bookmark not defined.**]	CB
Create a new external RTGS Account [**Error! Bookmark not defined.**]	CB
Create a new Immediate Liquidity Transfer [**Error! Bookmark not defined.**]	CSD/CB
Create a new Liquidity Transfer Order Link Set [**Error! Bookmark not defined.**]	CB
Create a new Market-Specific Attribute [**Error! Bookmark not defined.**]	CSD/CB
Create a new Message Subscription Rule Set [**Error! Bookmark not defined.**]	CSD/CB
Create a new Participant [**Error! Bookmark not defined.**]	CSD/CB
Create a new Report Configuration [**Error! Bookmark not defined.**]	CSD/CB
Create a new Restriction Type [**Error! Bookmark not defined.**]	CSD/CB
Create a new Role [**Error! Bookmark not defined.**]	CSD/CB
Create a new Secured Group [**Error! Bookmark not defined.**]	CSD/CB
Create a new Securities Account [**Error! Bookmark not defined.**]	CSD
Create a new Securities Valuation [**Error! Bookmark not defined.**]	CB
Create a new Security [**Error! Bookmark not defined.**]	CSD
Create a new Standing/Predefined Liquidity Transfer Order [**Error! Bookmark not defined.**]	CB

Business Scenario	Usage Indication (CSD/CB)
Create a new T2S Dedicated Cash Account [**Error! Bookmark not defined.**]	CB
Create a new Technical Address Service Link [**Error! Bookmark not defined.**]	CSD/CB
Create a new User [**Error! Bookmark not defined.**]	CSD/CB
Create a new User Certificate Distinguished Name [**Error! Bookmark not defined.**]	CSD/CB
Create a new User Certificate Distinguished Name Link [**Error! Bookmark not defined.**]	CSD/CB
Delete an existing Participant [**Error! Bookmark not defined.**]	CSD/CB
Delete an existing Securities Account [**Error! Bookmark not defined.**]	CSD
Delete an existing T2S Dedicated Cash Account [**Error! Bookmark not defined.**]	CB
Edit an existing Participant	CSD/CB
Edit an existing Securities Account [**Error! Bookmark not defined.**]	CSD
Edit an existing T2S Dedicated Cash Account [**Error! Bookmark not defined.**]	CB
Enter a Settlement Instruction [**Error! Bookmark not defined.**]	CSD
Enter a Settlement Restriction on Cash [**Error! Bookmark not defined.**]	CB
Enter a Settlement Restriction on Securities [**Error! Bookmark not defined.**]	CSD
Grant a Privilege to a Party [**Error! Bookmark not defined.**]	CSD/CB
Grant a Privilege to a User [**Error! Bookmark not defined.**]	CSD/CB

Business Scenario	Usage Indication (CSD/CB)
Grant System and Object Privileges to a Role [**Error! Bookmark not defined.**]	CSD/CB
Initiate an Action in 4-Eyes Mode [**Error! Bookmark not defined.**]	CSD/CB
Link a Securities Account to a T2S Dedicated Cash Account for Cash Settlement Purpose [**Error! Bookmark not defined.**]	CSD
Put a Settlement Instruction on CSD Hold [**Error! Bookmark not defined.**]	CSD
Put a Settlement Instruction on Party Hold [**Error! Bookmark not defined.**]	CSD
Reimburse an Outstanding Intraday Credit [**Error! Bookmark not defined.**]	CSD
Release a Settlement Instruction from CoSD Hold [**Error! Bookmark not defined.**]	CSD
Release a Settlement Instruction from CSD Hold [**Error! Bookmark not defined.**]	CSD
Release a Settlement Instruction from CSD Validation Hold [**Error! Bookmark not defined.**]	CSD
Release a Settlement Instruction from Party Hold [**Error! Bookmark not defined.**]	CSD
Remove a Link for a Settlement Instruction [**Error! Bookmark not defined.**]	CSD
Remove a Link for a Settlement Restriction on Cash [**Error! Bookmark not defined.**]	CB
Remove a Link for a Settlement Restriction on Securities [**Error! Bookmark not defined.**]	CSD
Resend Communication [**Error! Bookmark not defined.**]	CSD/CB
Respond to an Allegement Instruction [**Error! Bookmark not defined.**]	CSD

Business Scenario	Usage Indication (CSD/CB)
Set up an Auto-Collateralisation Limit [**Error! Bookmark not defined.**]	CB
View a Broadcast [**Error! Bookmark not defined.**]	CSD/CB
View Alleged Cancellation Instructions [**Error! Bookmark not defined.**]	CSD
View Allegement Settlement Instruction Details [**Error! Bookmark not defined.**]	CSD
View Amendment Instruction for a Settlement Instruction Details [**Error! Bookmark not defined.**]	CSD
View Amendment Instruction for a Settlement Restriction on Cash Details [**Error! Bookmark not defined.**]	CB
View Amendment Instruction for a Settlement Restriction on Securities Details [**Error! Bookmark not defined.**]	CSD
View Available Reports [**Error! Bookmark not defined.**]	CSD/CB
View Cancellation Instruction for a Settlement Instruction Details [**Error! Bookmark not defined.**]	CSD
View Cancellation Instruction for a Settlement Restriction on Cash Details [**Error! Bookmark not defined.**]	CB
View Cancellation Instruction for a Settlement Restriction on Securities Details [**Error! Bookmark not defined.**]	CSD
View Cash Balances Details and Related Postings [**Error! Bookmark not defined.**]	CB
View Cash Balances Details and Related Restrictions [**Error! Bookmark not defined.**]	CB
View Current Securities Positions and Related Postings [**Error! Bookmark not defined.**]	CSD

Business Scenario	Usage Indication (CSD/CB)
View Current Securities Positions and Related Restrictions [**Error! Bookmark not defined.**]	CSD
View Historic Securities Positions for a Specific Date [**Error! Bookmark not defined.**]	CSD
View Historic Securities Positions for a Specific Period [**Error! Bookmark not defined.**]	CSD
View Hold/Release Instruction Details [**Error! Bookmark not defined.**]	CSD
View Immediate Liquidity Transfer Details [**Error! Bookmark not defined.**]	CSD/CB
View Inbound Communication [**Error! Bookmark not defined.**]	CSD/CB
View Outbound Communication [**Error! Bookmark not defined.**]	CSD/CB
View Overall Liquidity [**Error! Bookmark not defined.**]	CSD/CB
View Privilege Details [**Error! Bookmark not defined.**]	CSD/CB
View Revisions [**Error! Bookmark not defined.**]	CSD/CB
View Settlement Instruction Details [**Error! Bookmark not defined.**]	CSD
View Settlement Instruction Status History [**Error! Bookmark not defined.**]	CSD
View Settlement Restriction on Cash Details [**Error! Bookmark not defined.**]	CB
View Settlement Restriction on Securities Details [**Error! Bookmark not defined.**]	CSD
View SF1/SF2 timestamps of Settlement Instructions in case of Insolvency situation [**Error! Bookmark not defined.**]	CB
View Standing/Predefined Liquidity Transfer Order Details [**Error! Bookmark not defined.**]	CSD/CB

6.2 Sitemap for T2S GUI

6.2.1 Reader's Guide

The sitemap annex is structured along the first and the second GUI menu level. It provides you with a formalised illustration of all screens (pictured as rectangles) and their related buttons (pictured as arrows). The illustration helps you to get an overview of all GUI screens and their interrelation, indicated by the arrows.

General layout of a sitemap

In general, each sitemap has the same layout. The header of the sitemap always indicates the GUI menu item pictured by the sitemap. The first 3 lines represent the 3 main menu levels.

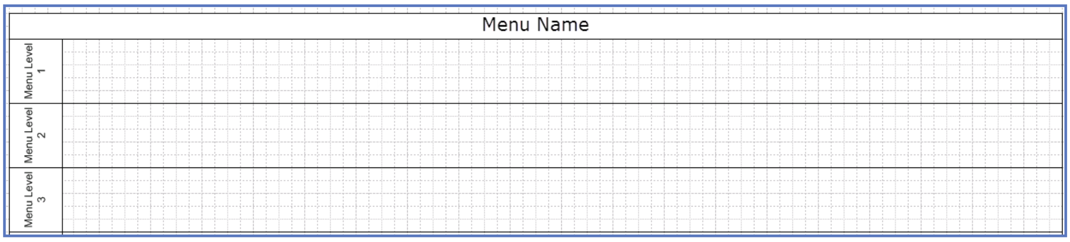


Illustration 43: Sitemap menu levels – GUI path

In lines 4 to 6, the single GUI screens are pictured following their business logic, i.e. starting with *search/list* screens in line 4, *details* or *enter* screens in line 5 and finishing with *revisions/audit trail – list* screens in line 6.

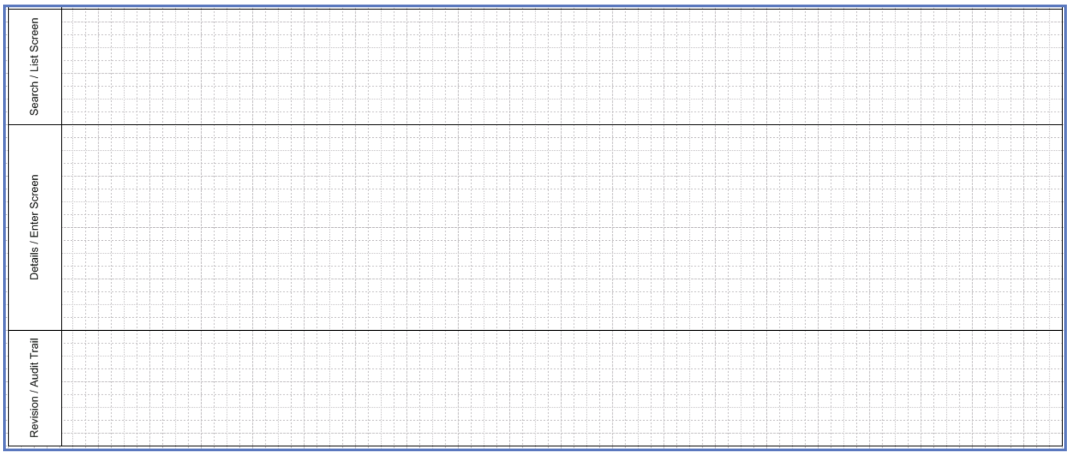


Illustration 44: Sitemap menu levels - screens

Within these lines, regular rectangles represent a menu item, rounded rectangles represent a screen.

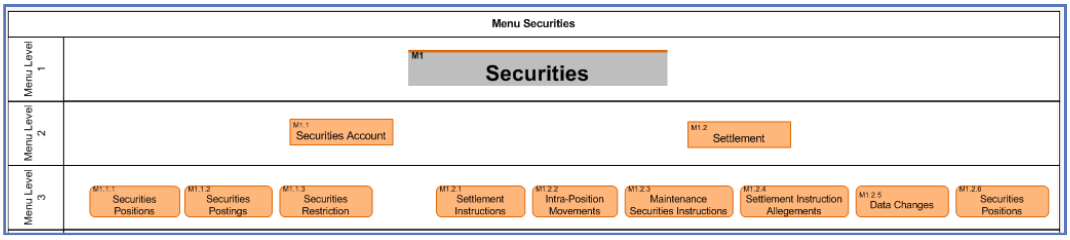


Illustration 45: Menu item and sitemap screen illustration

Interrelation between screens

Arrows between the rectangles represent an interrelation, while the button that has to be clicked on to jump from one screen to another is written across the corresponding arrow.

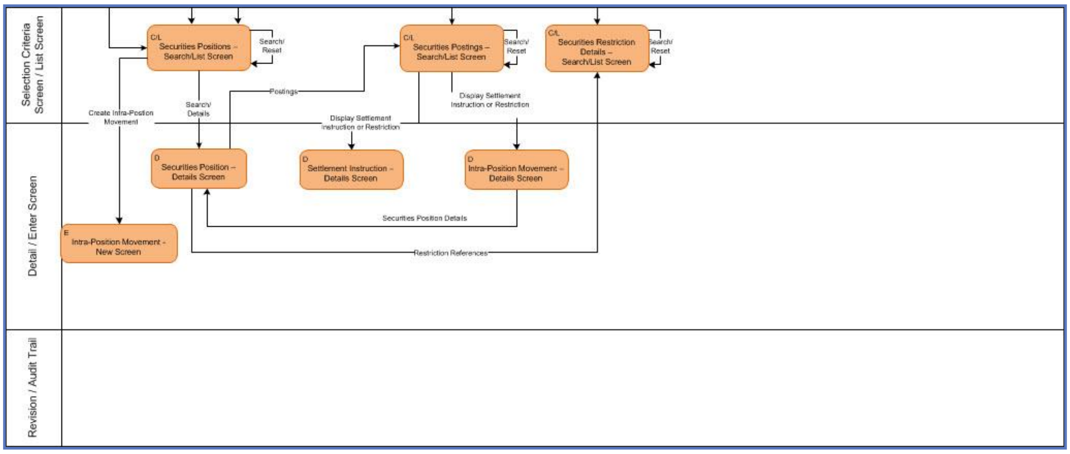


Illustration 46: Screen interrelation

Menu item and screen rectangles

The screen rectangles follow the same colour-coding as the GUI (see menu structure [**Error! Bookmark not defined.**]). The classification found in the top left corner of each rectangle provides the following detailed information:

- Capital M for menu followed by max. 3 digits indicating the main menu item (1 for securities, 2 for cash, 3 for services, 4 for static data, 5 for monitoring) and following menu levels.
- Screen classification (C/L for *search/list* screen, C for *search* screen, L for *list* screen, D for *details* screen, E for *enter* screen).

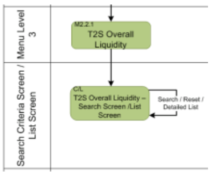


Illustration 47: Sitemap screen with classification and with button

Screens with a different colour

On some sitemaps you will also find screens illustrated in a different colour than it is foreseen for the respective T2S menu. These particular screens represent an alternative navigation to the same respective screen. These specific screens appear on the same menu level than the regular screens.

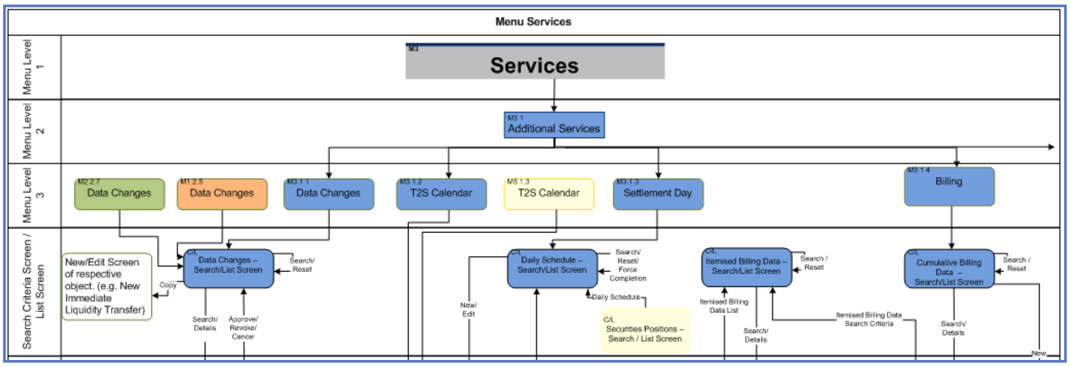


Illustration 48: Screens with a different colour

Interrelation between sitemap parts

Because of the size of the sitemap it has been split into several parts. You can recognise the use of several sitemap parts by an arrow leading to the next sitemap part.

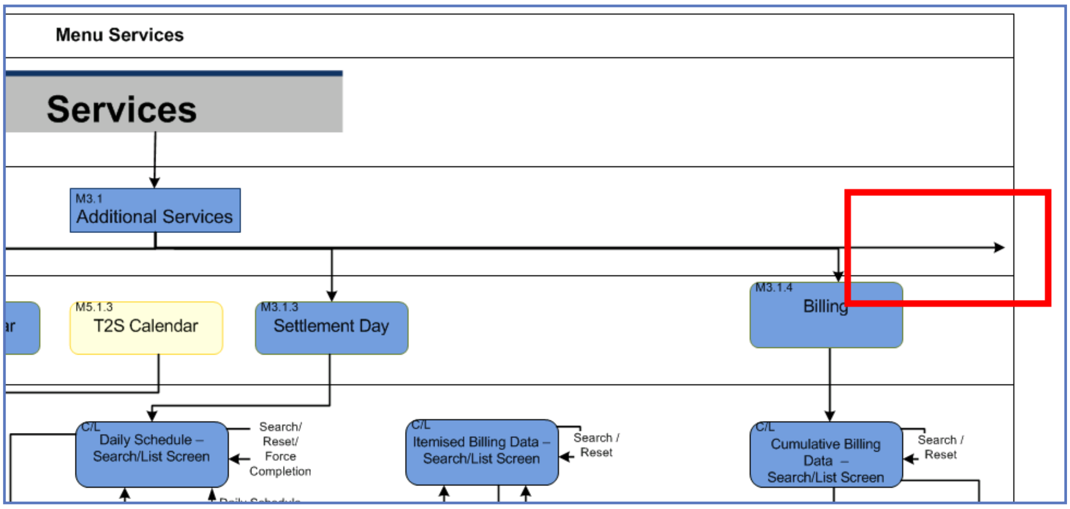


Illustration 49: Sitemap part interrelation

The static data sitemap for example is divided into 14 different sitemaps because of the wealth of information. Therefore it is recommended to read the sitemap from the top to the bottom and then from the left hand-side to the right hand-side.

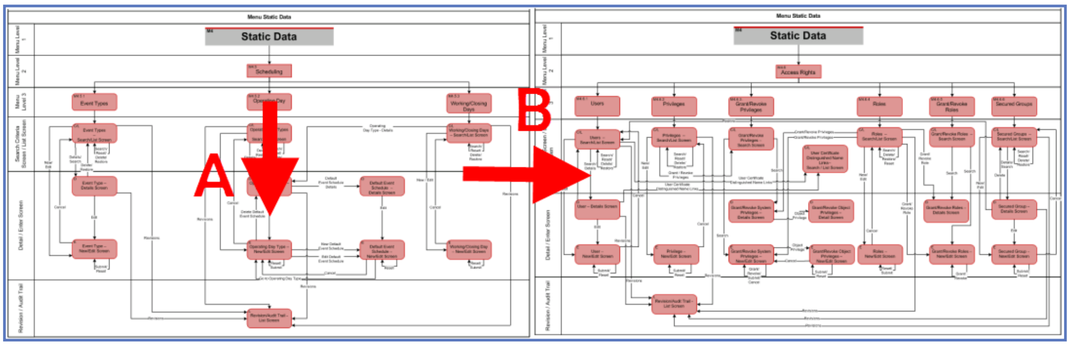


Illustration 50: How to read a sitemap

6.3 Sitemap for CoCo GUI

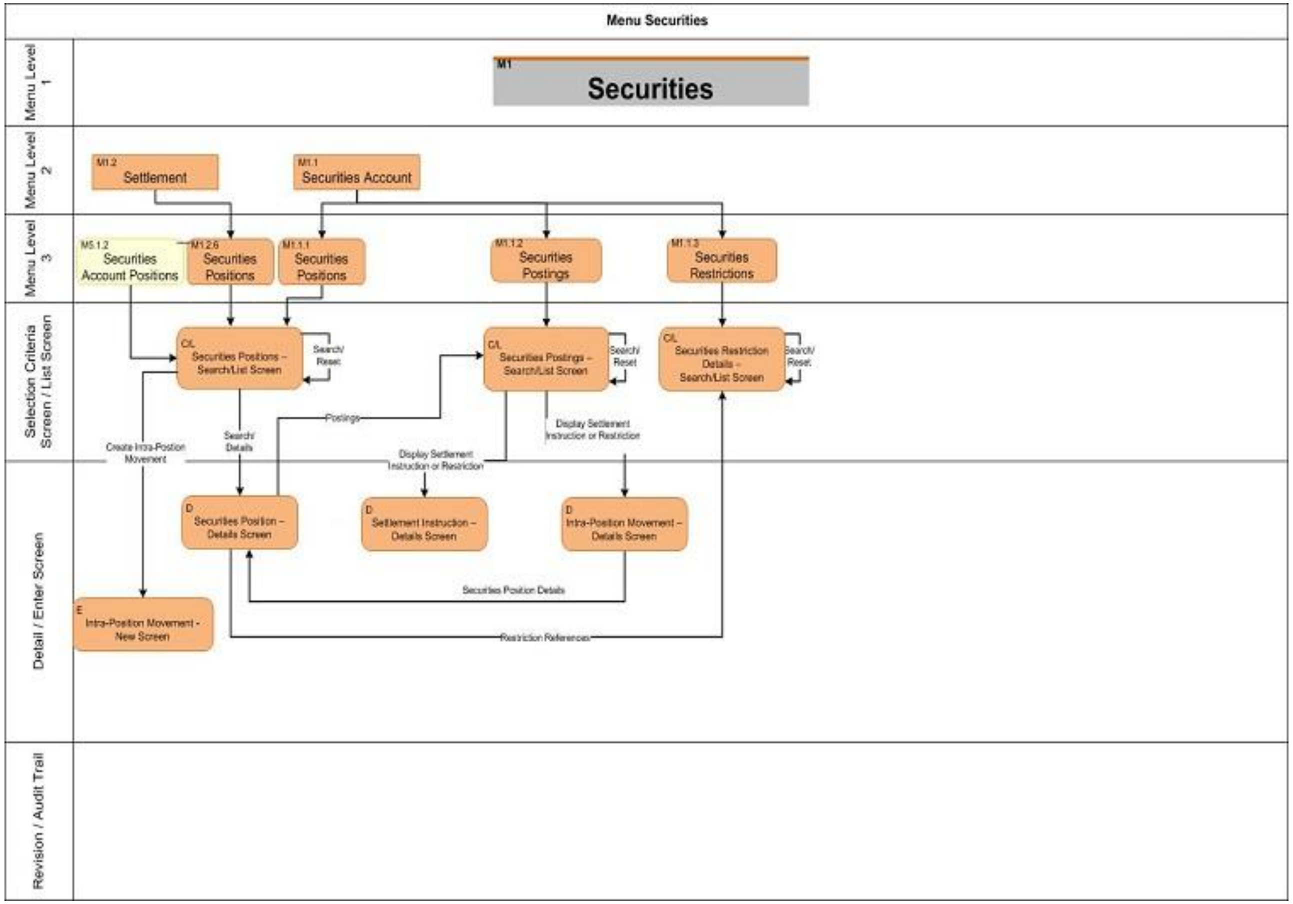
In the following sub-sections the reader may find the hierarchical, structured illustration of all the CoCo screens and their interrelations.

You can find below the legend which explains the meaning of each object, i.e. screen, button, dotted (blue) arrow, solid (red) arrow illustrated in the following diagrams.

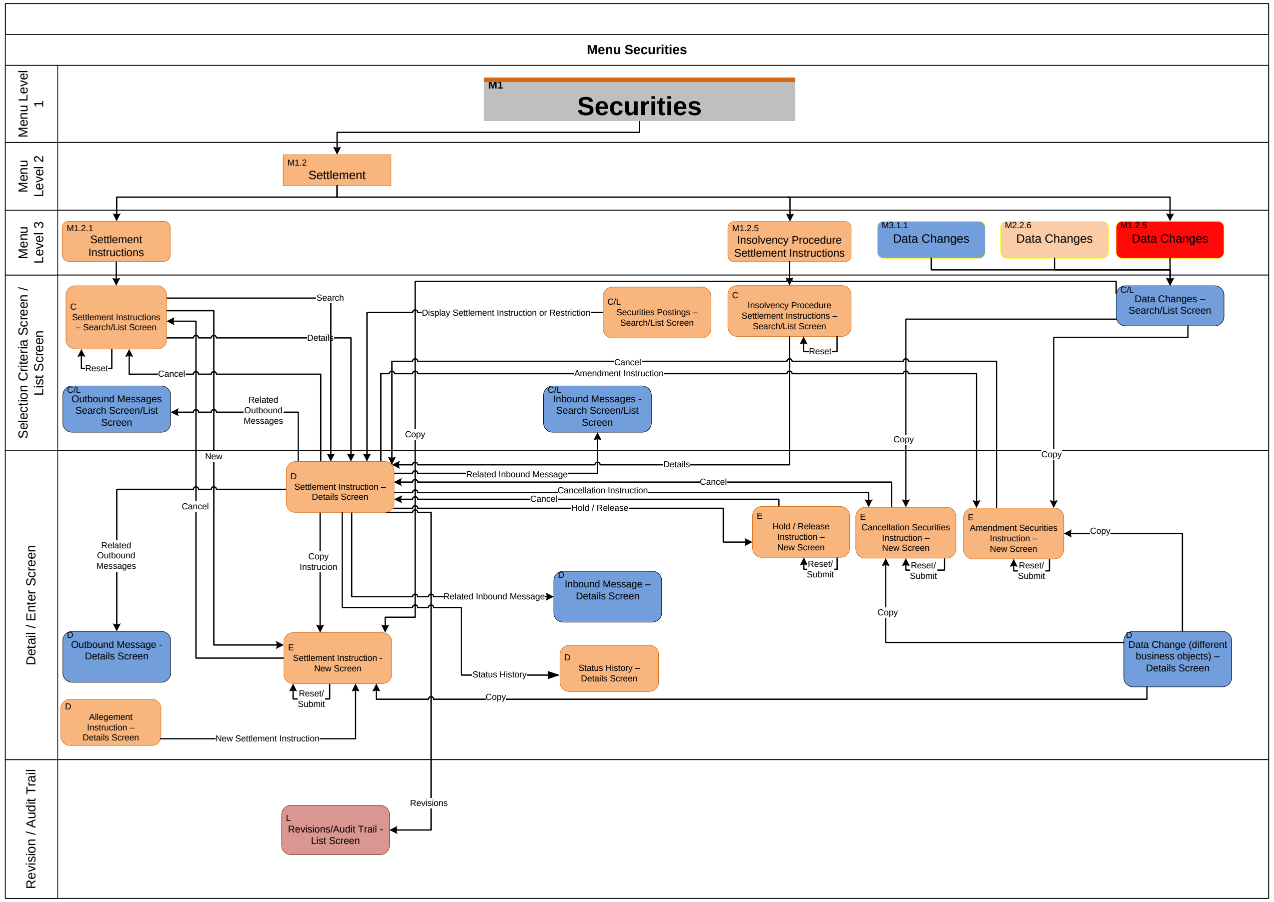
Object in the diagram	**Description**
Data Changes Search/List screen	The object represents a screen.
	When a button is displayed on the screen, a dotted blue arrow is shown as a link between the screen and the corresponding button.
Search	The object represents a button which is shown in the relevant screen.
	After a button is pressed, the result can be displayed either on the same screen or in a different screen (e.g. the details screen).

6.3.1 Securities

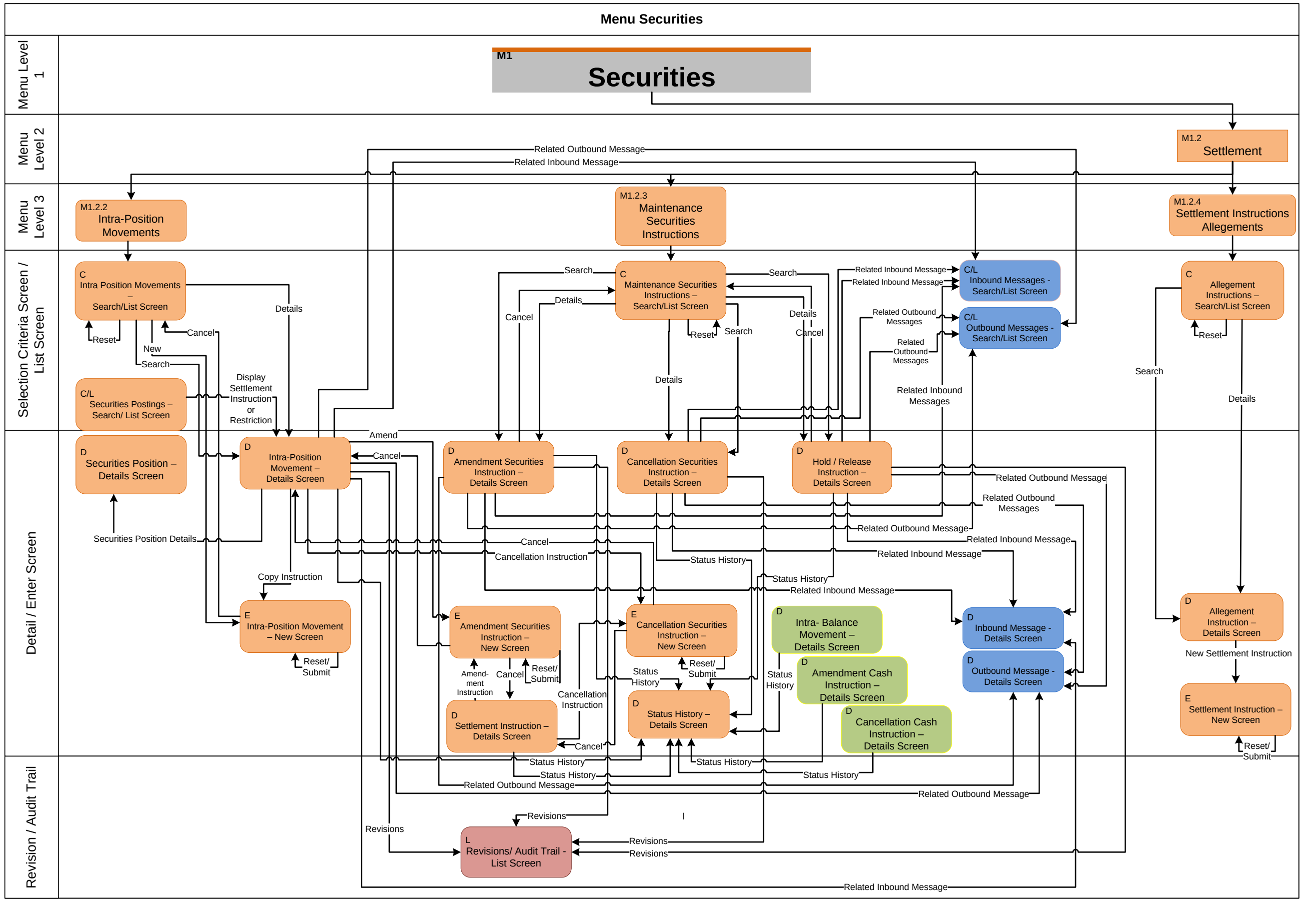
6.3.1.1 Securities Account



6.3.1.2 Settlement

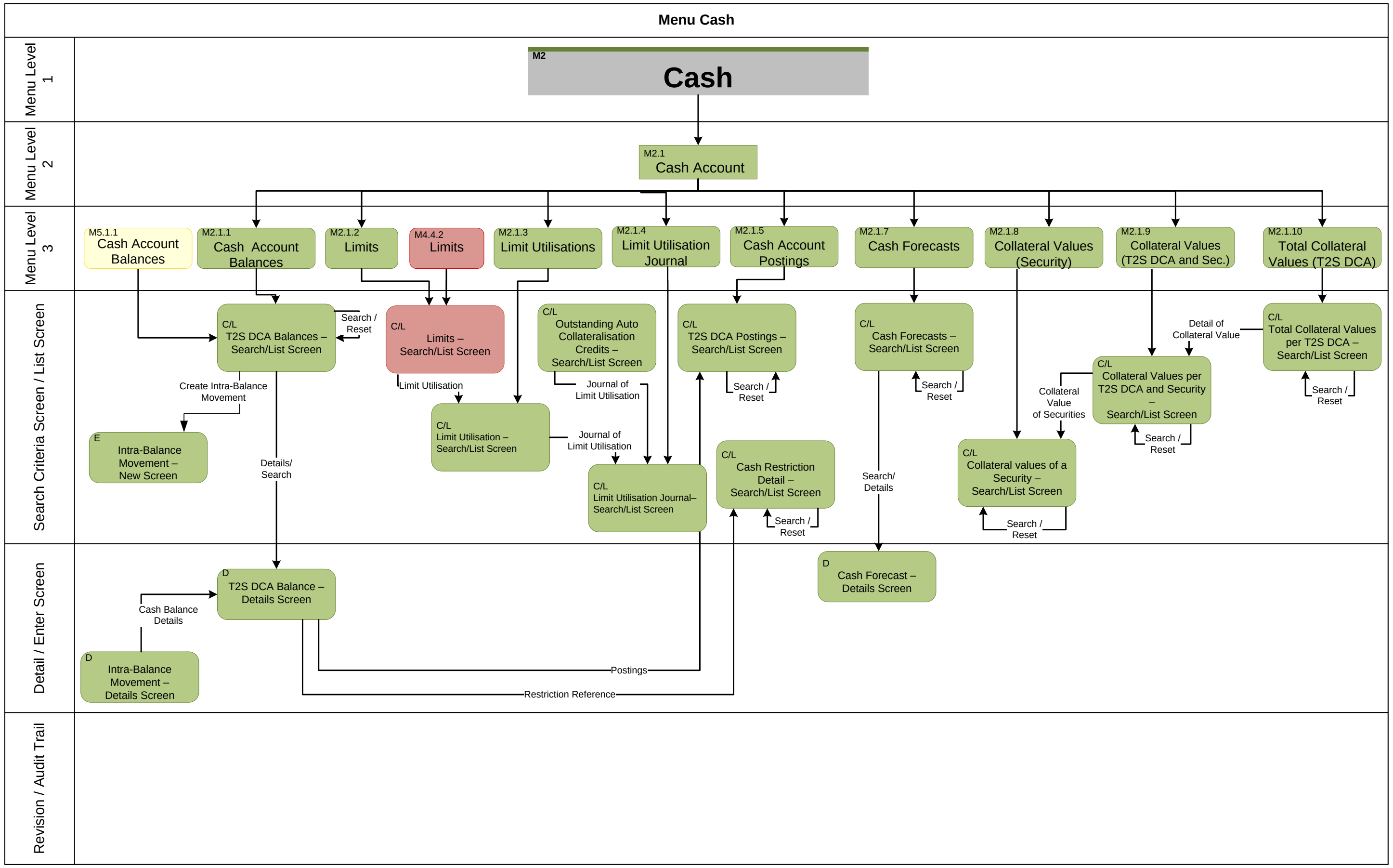


6.3.1.3 Settlement II

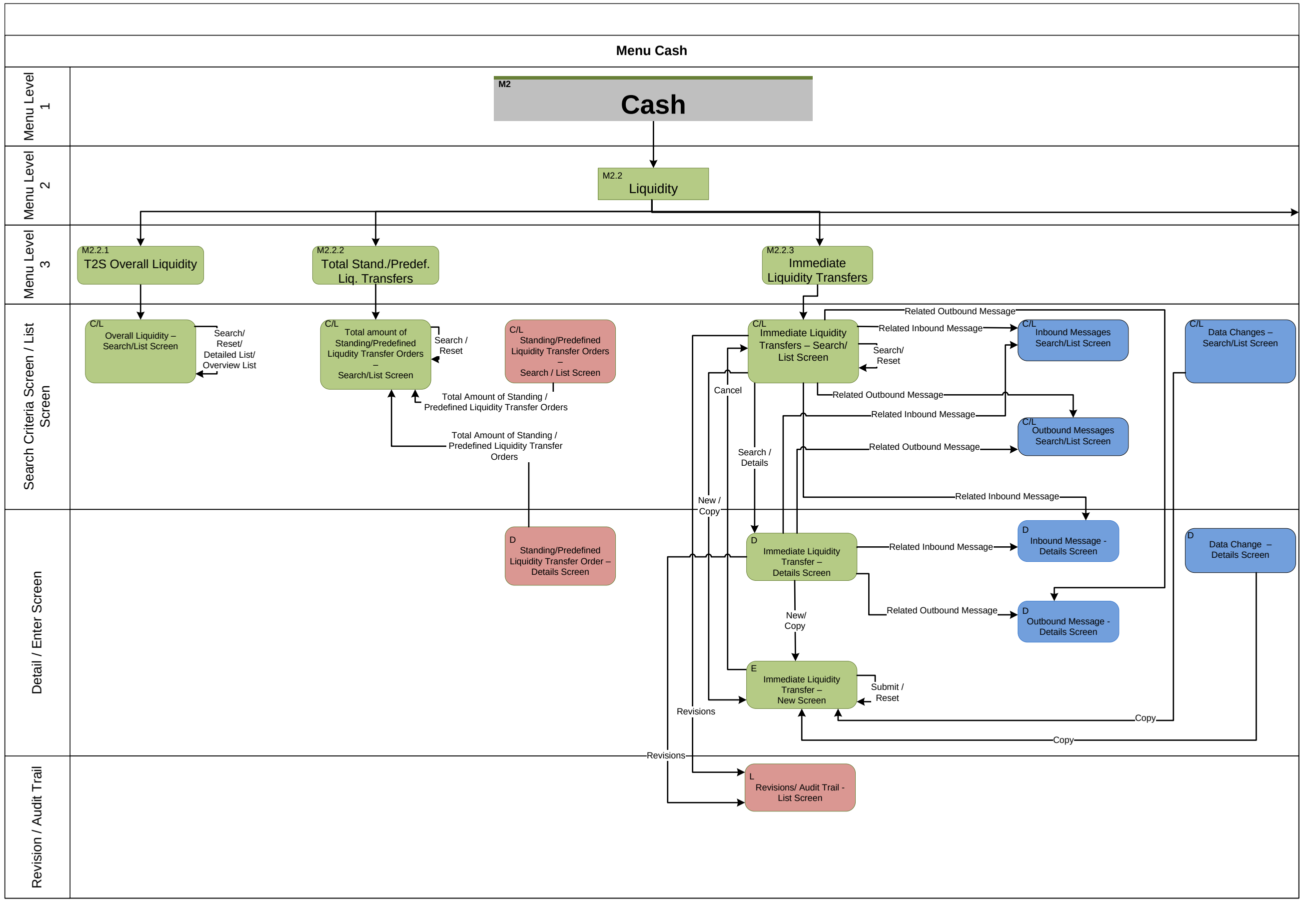


6.3.2 Cash

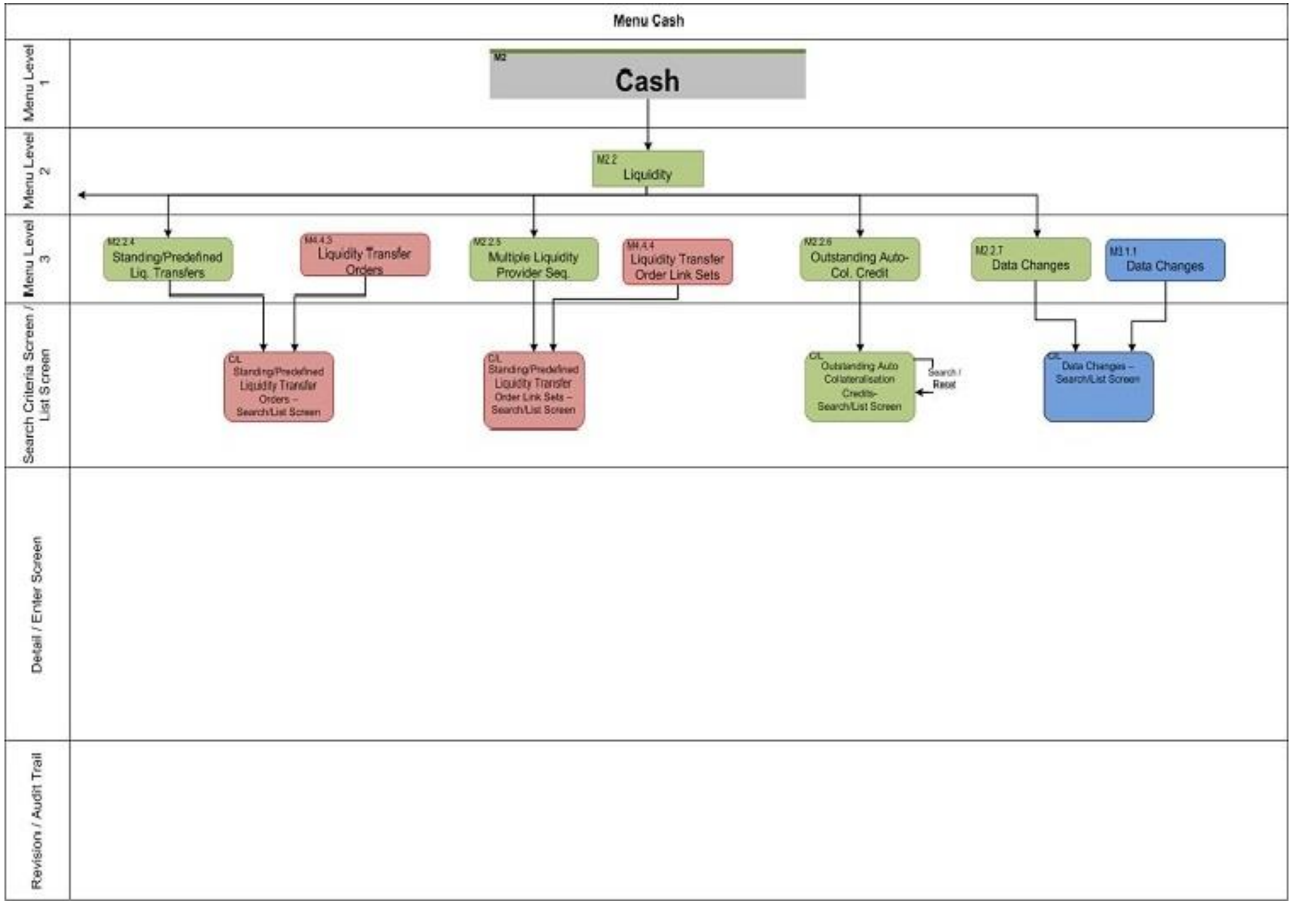
6.3.2.1 Cash Account



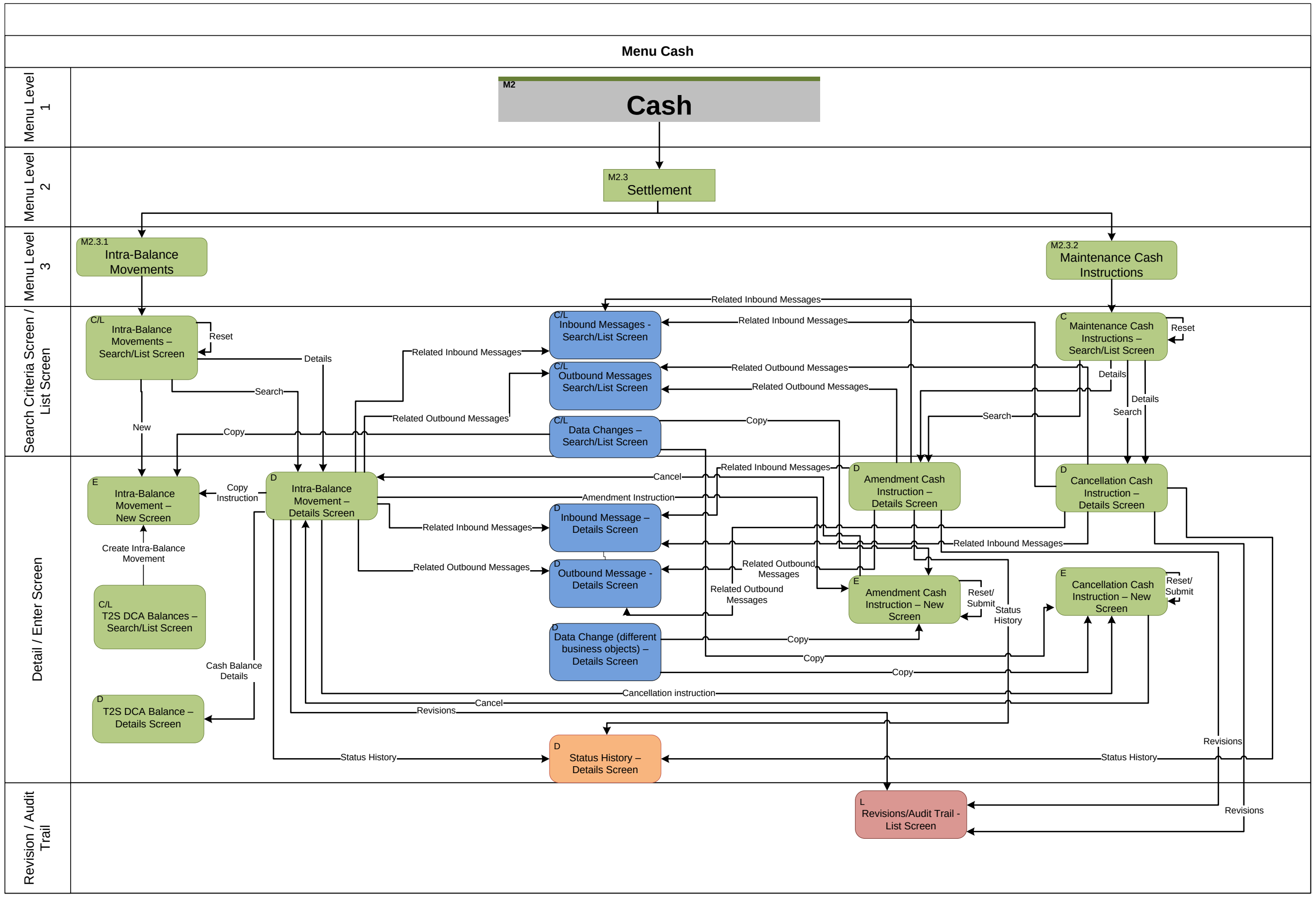
6.3.2.2 Liquidity



6.3.2.3 Liquidity II

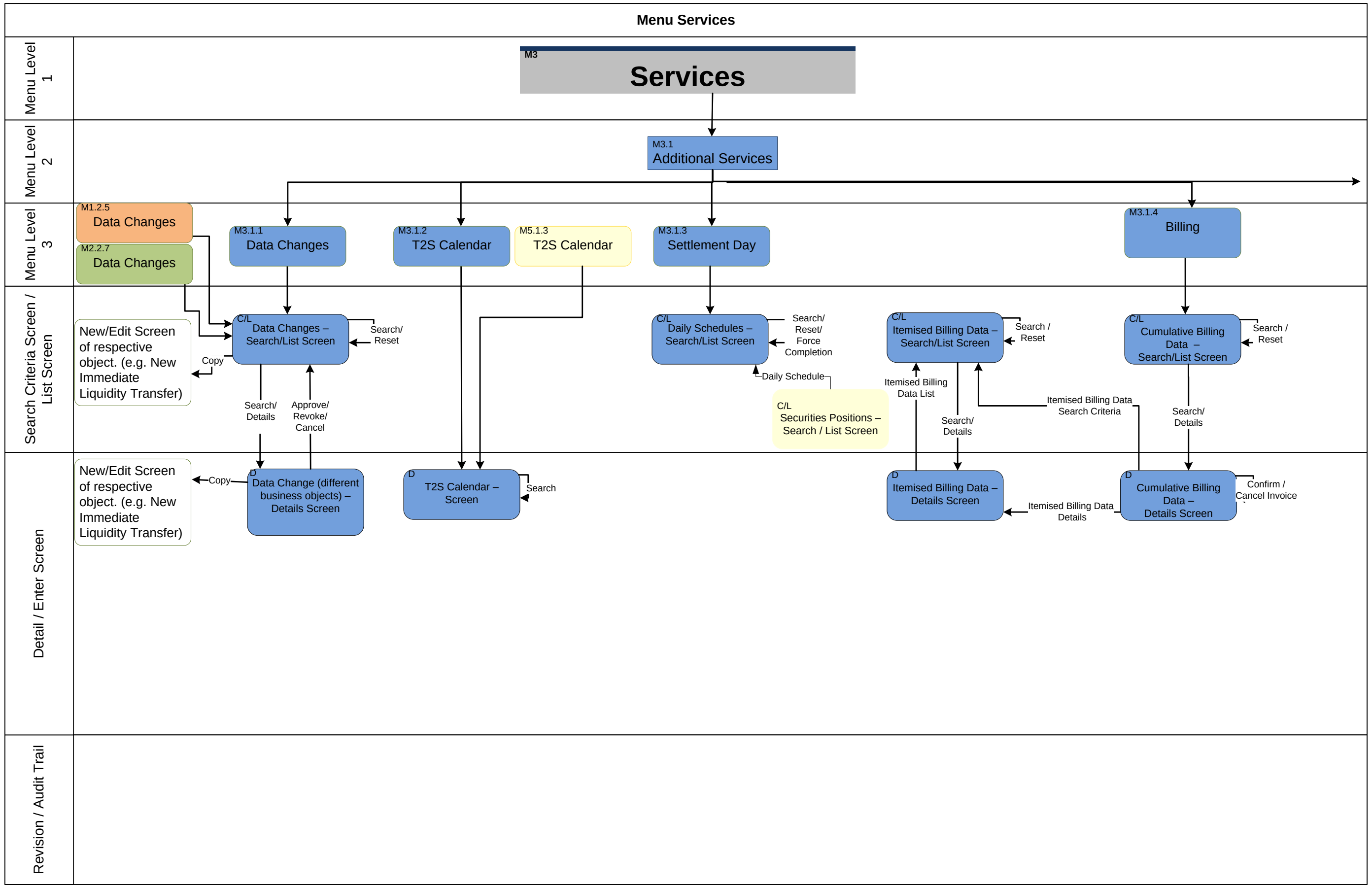


6.3.2.4 Settlement

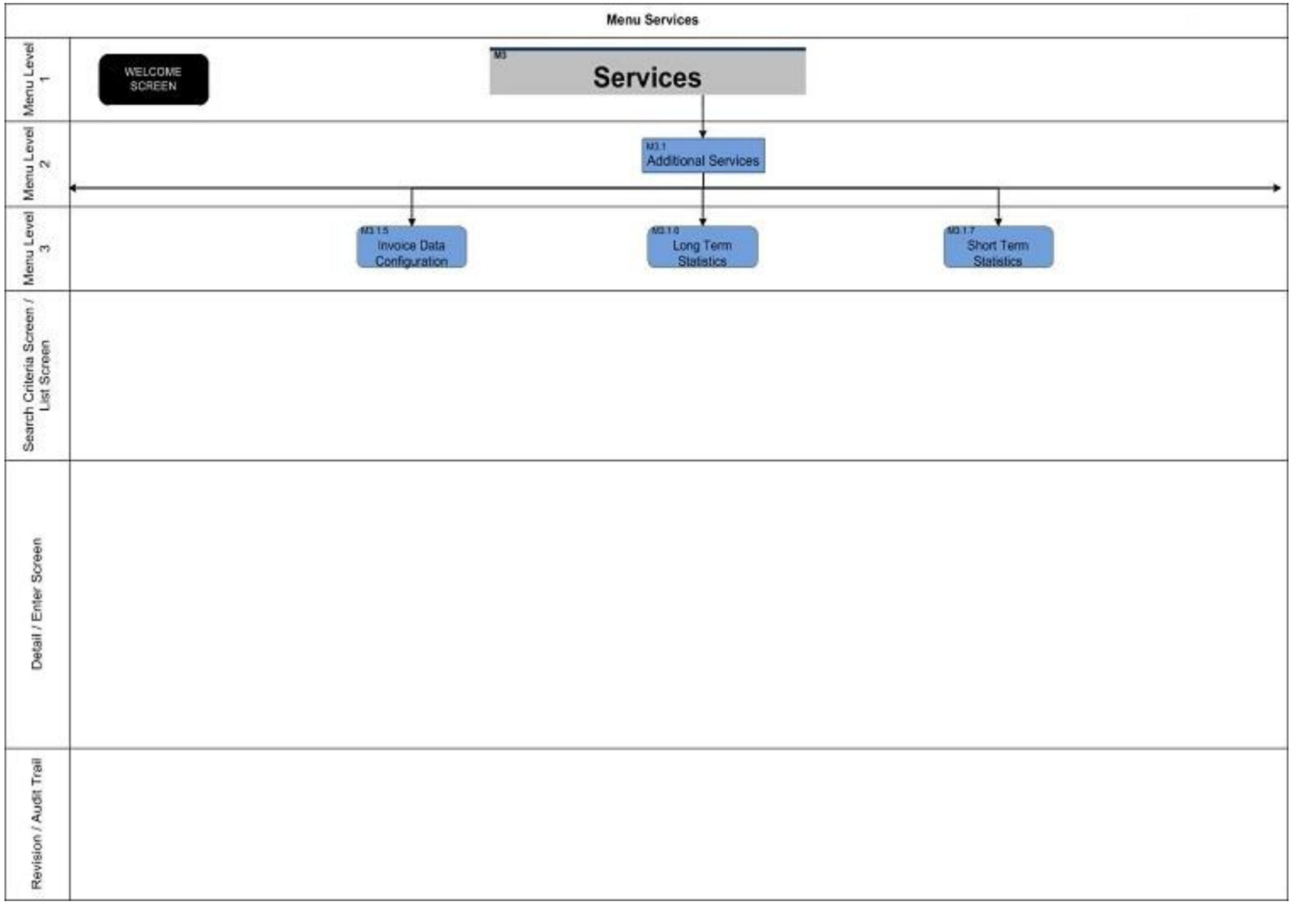


6.3.3 Services

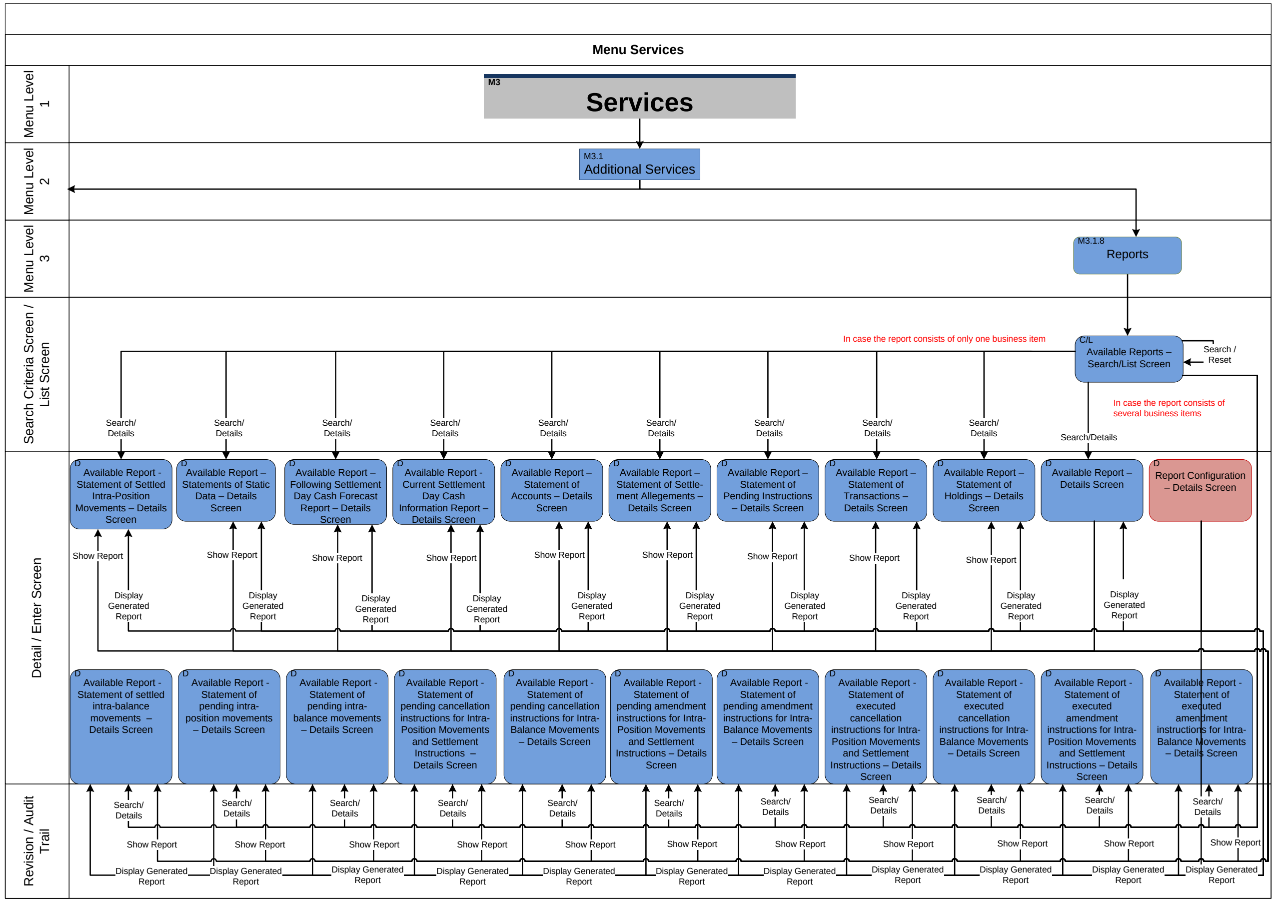
6.3.3.1 Additional Services



6.3.3.2 Additional Services II

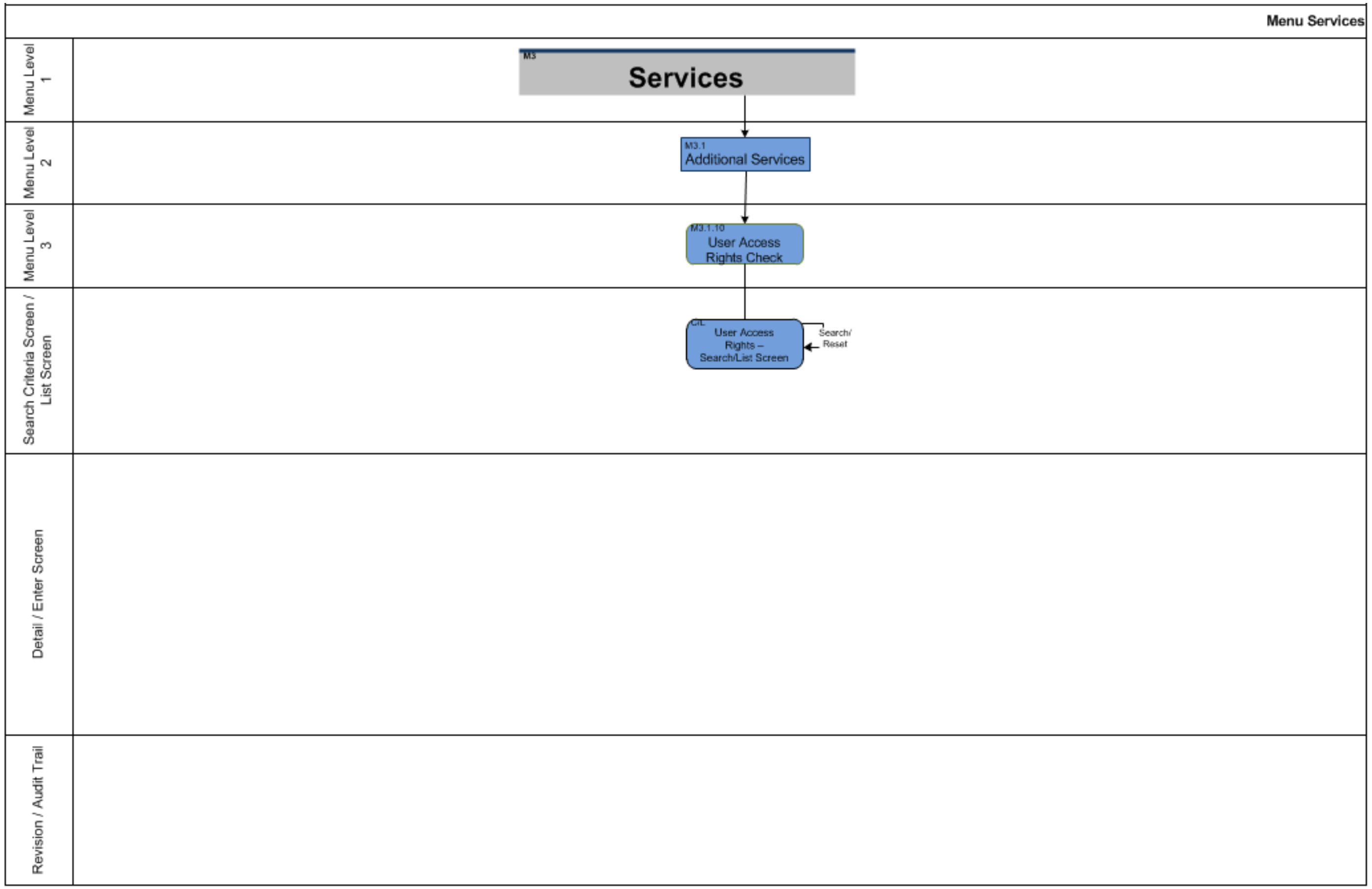


6.3.3.3 Additional Services III

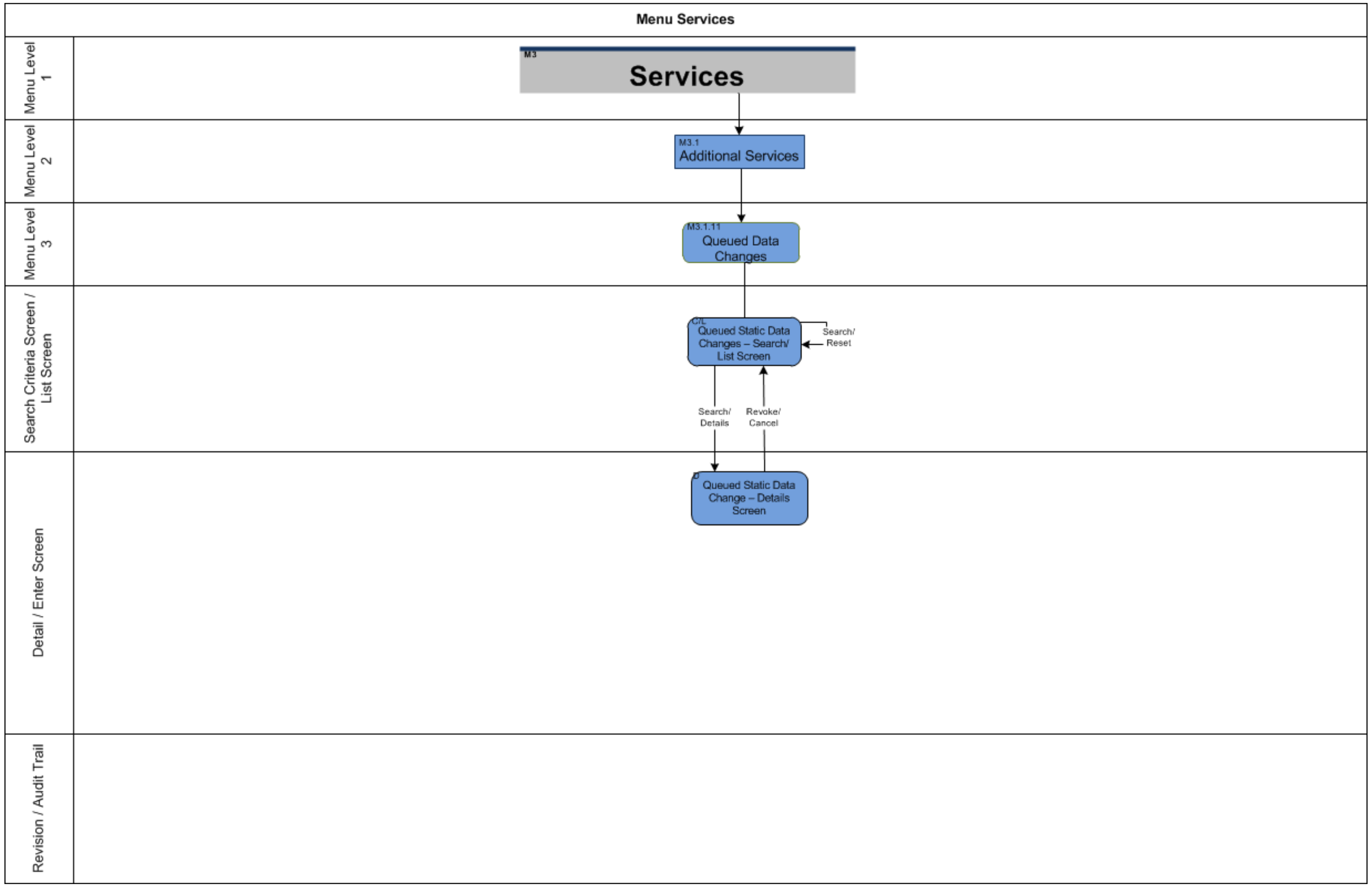


6.3.3.4 Additional Services IV

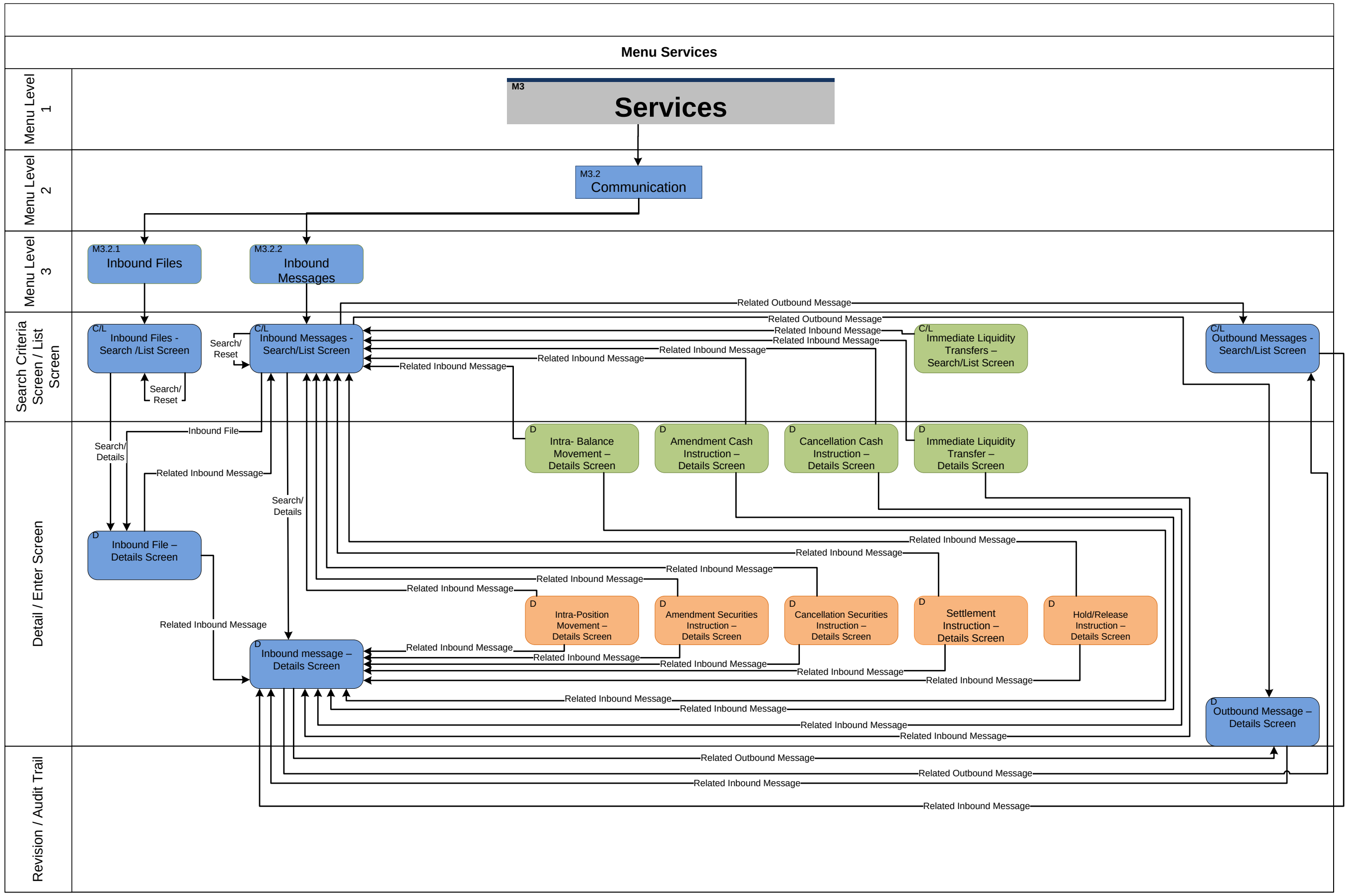
6.3.3.5 Additional Services V



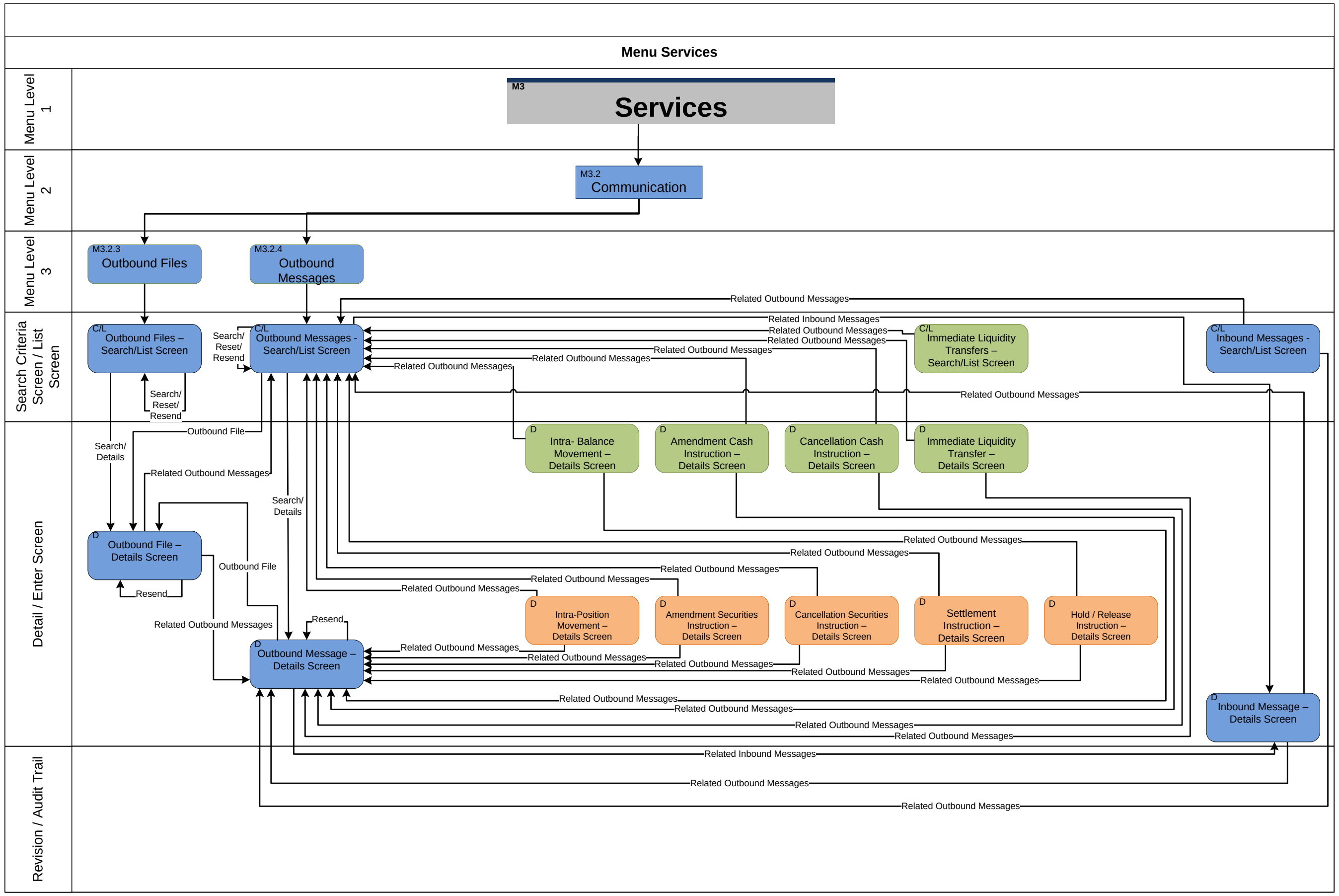
6.3.3.6 Additional Services VI



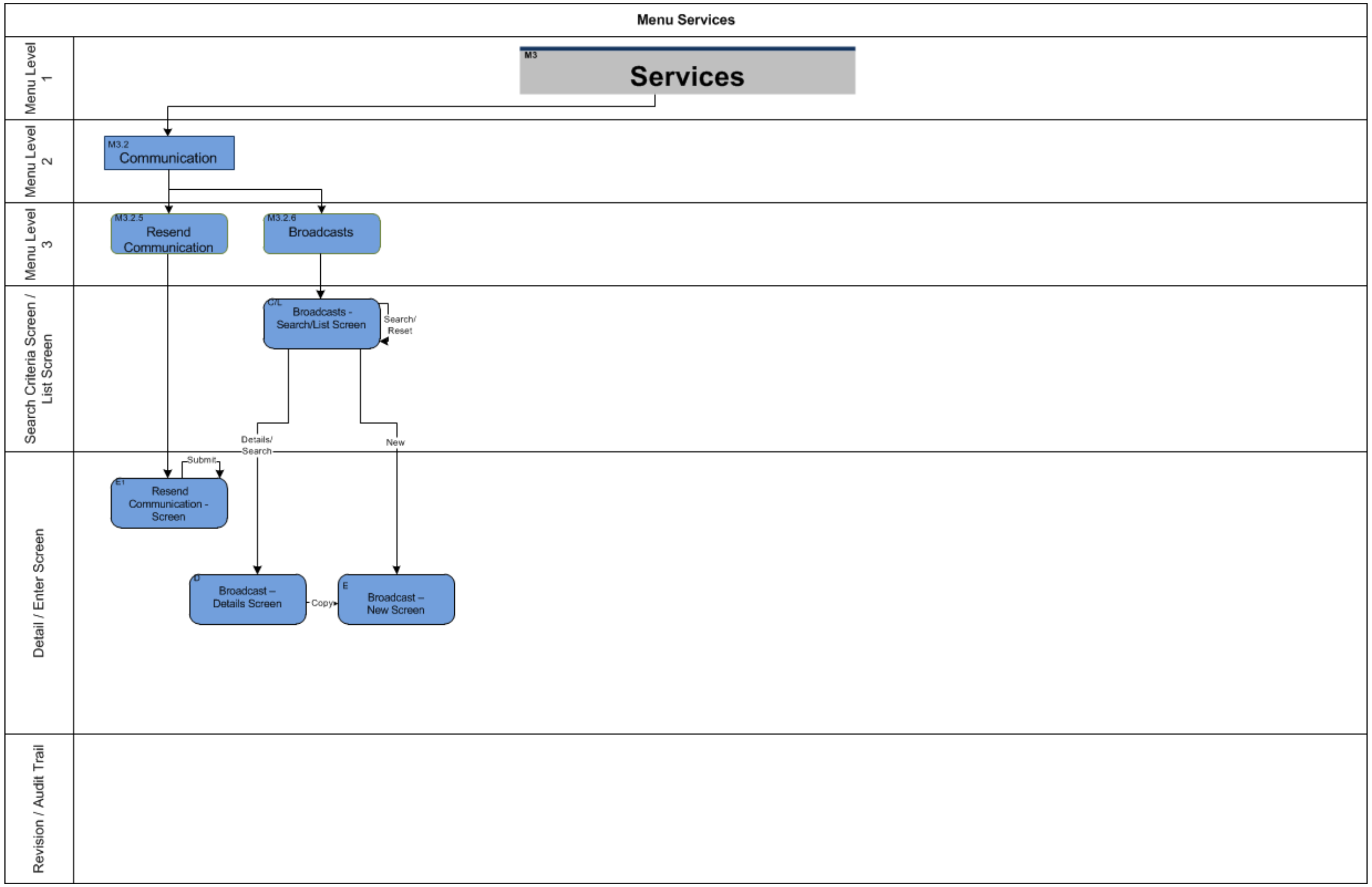
6.3.3.7 Communication



6.3.3.8 Communication II

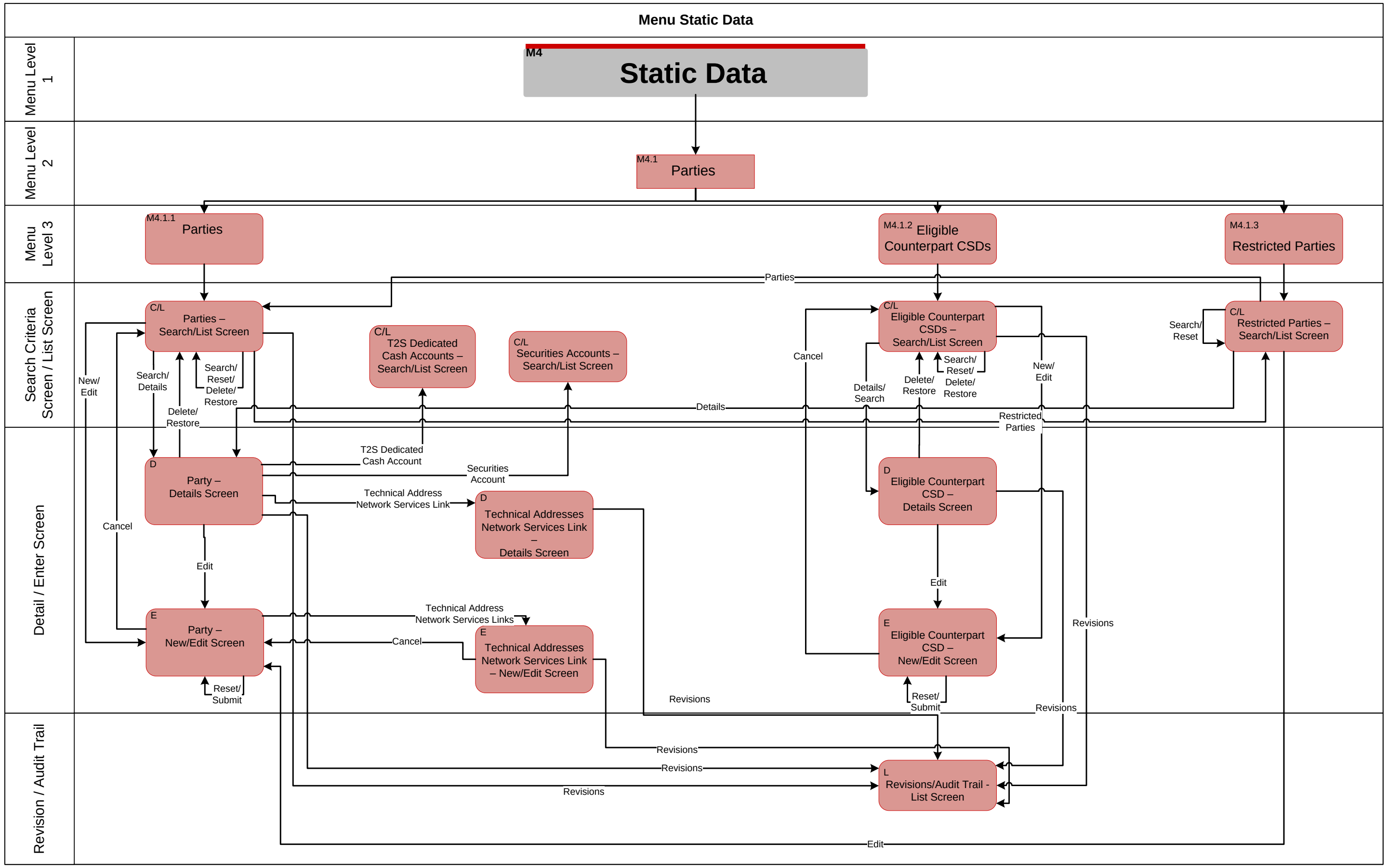


6.3.3.9 Communication III

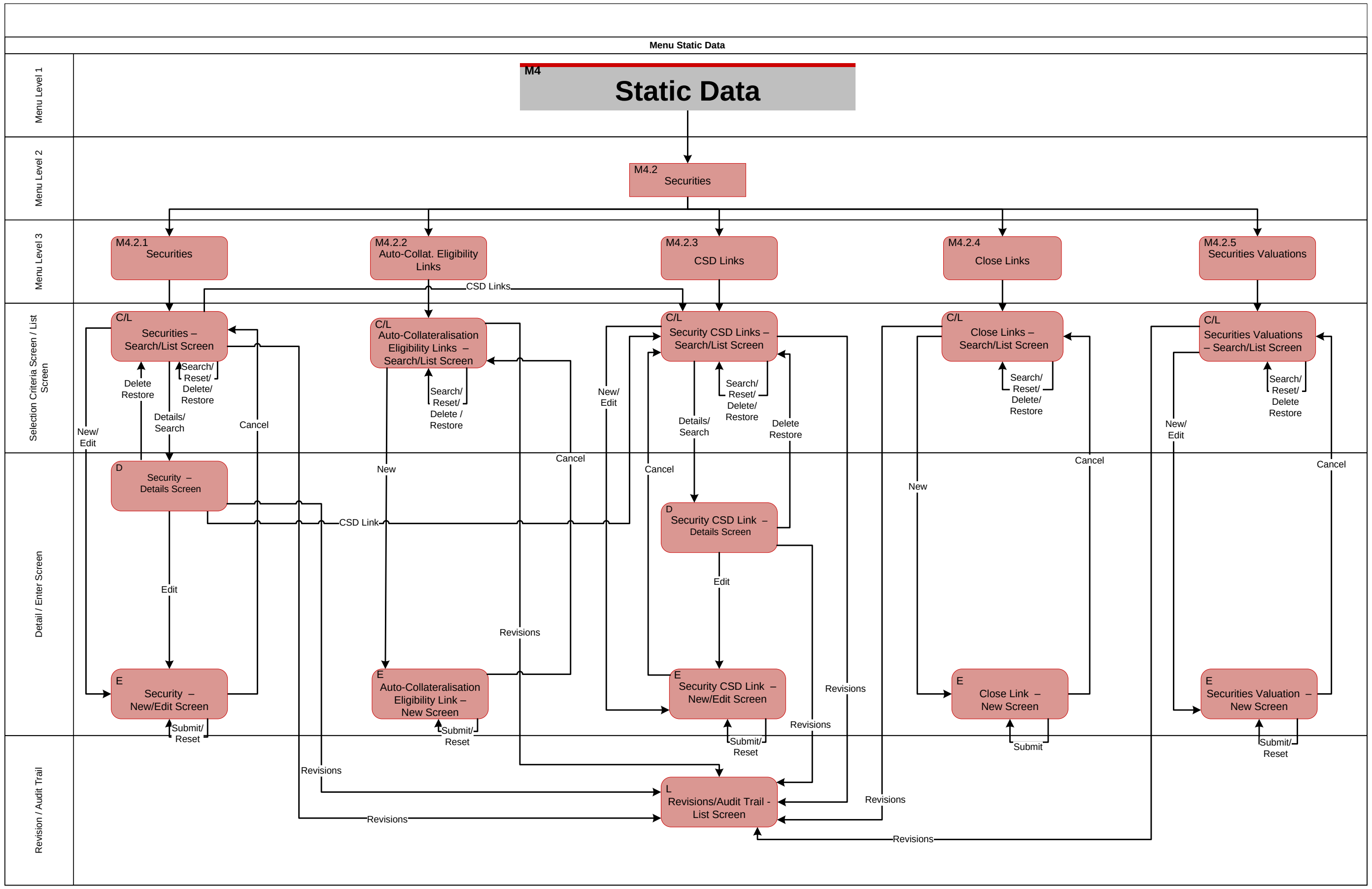


6.3.4 Static Data

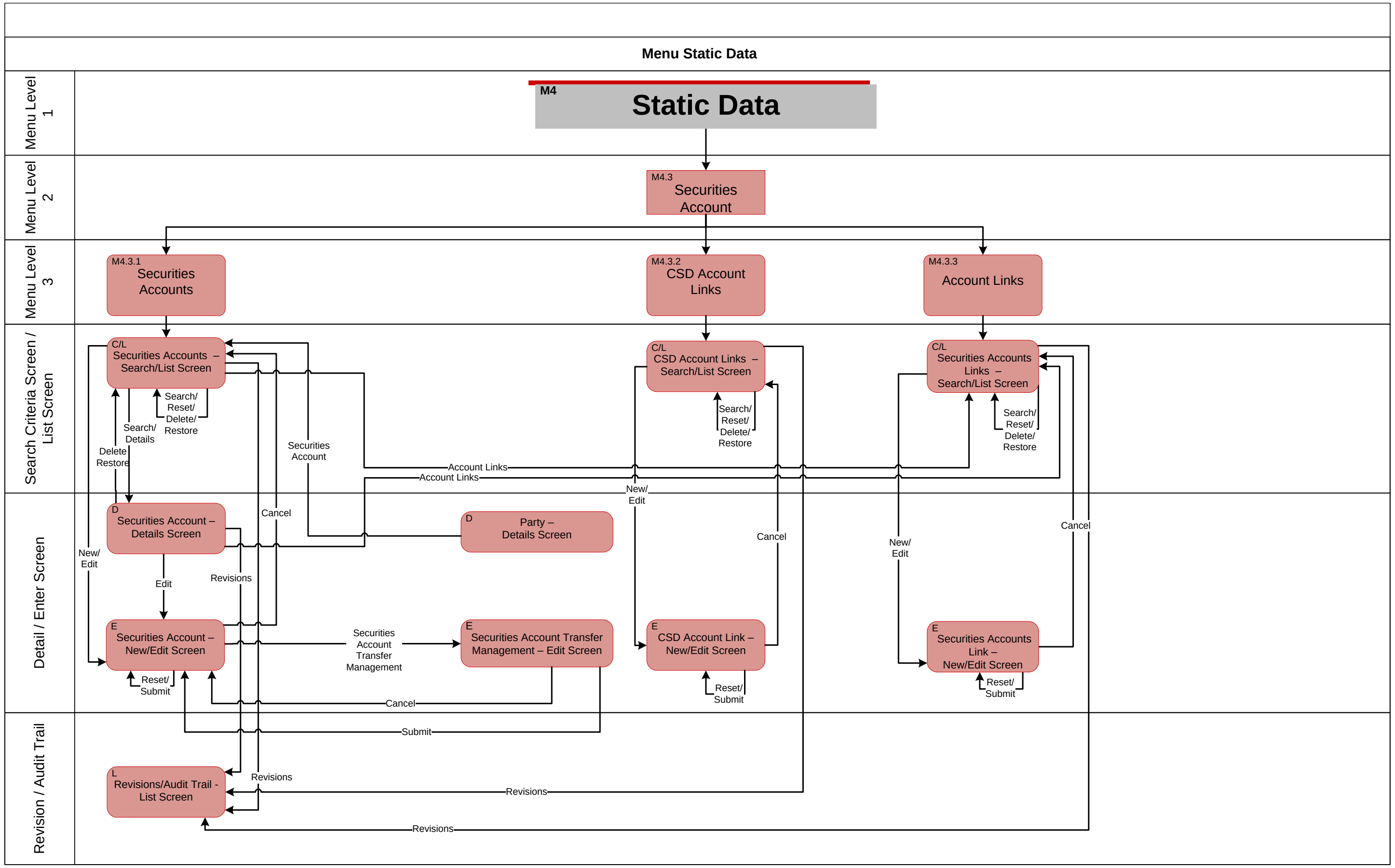
6.3.4.1 Parties



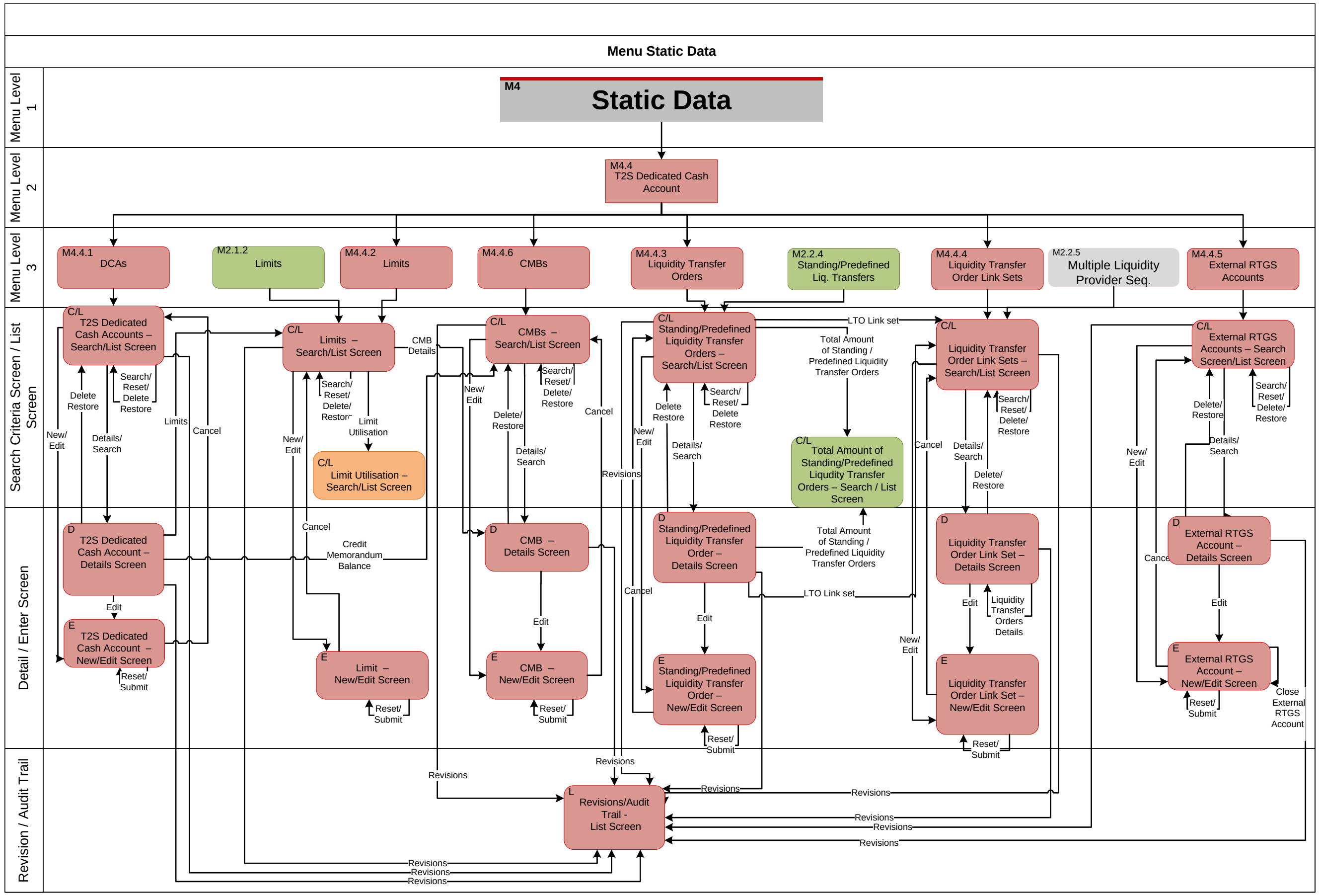
6.3.4.2 Securities



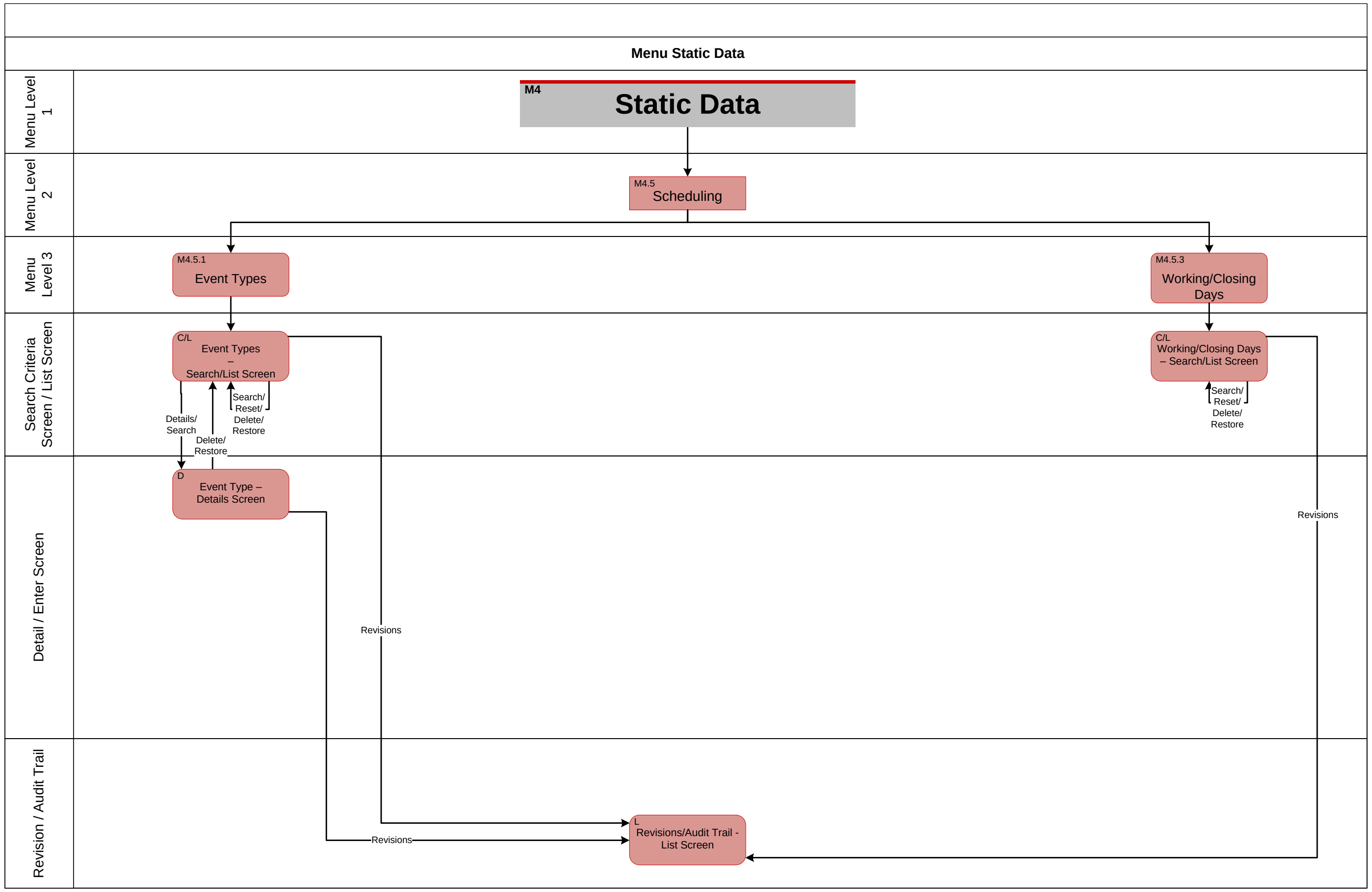
6.3.4.3 Securities Account



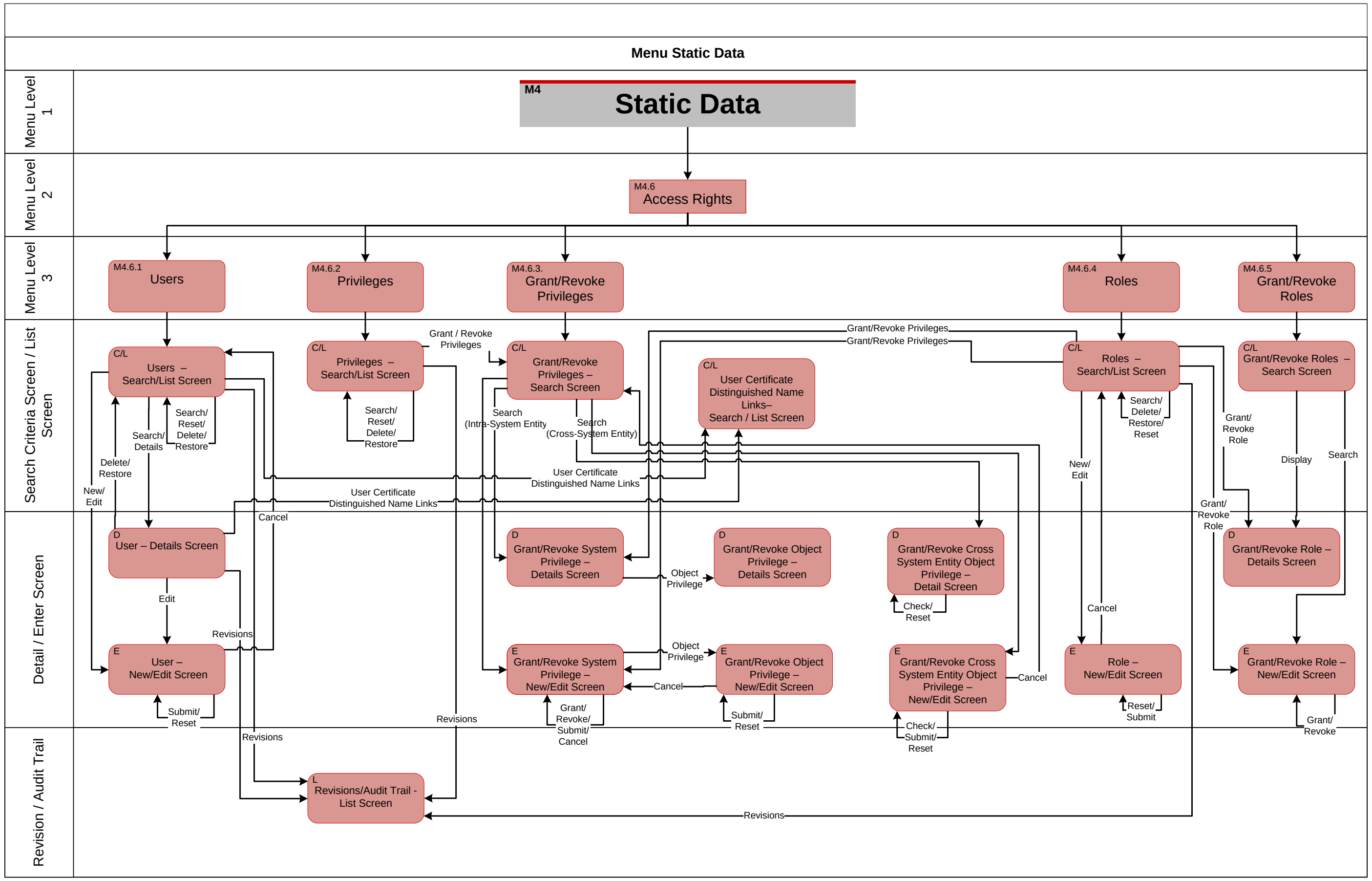
6.3.4.4 T2S Dedicated Cash Account



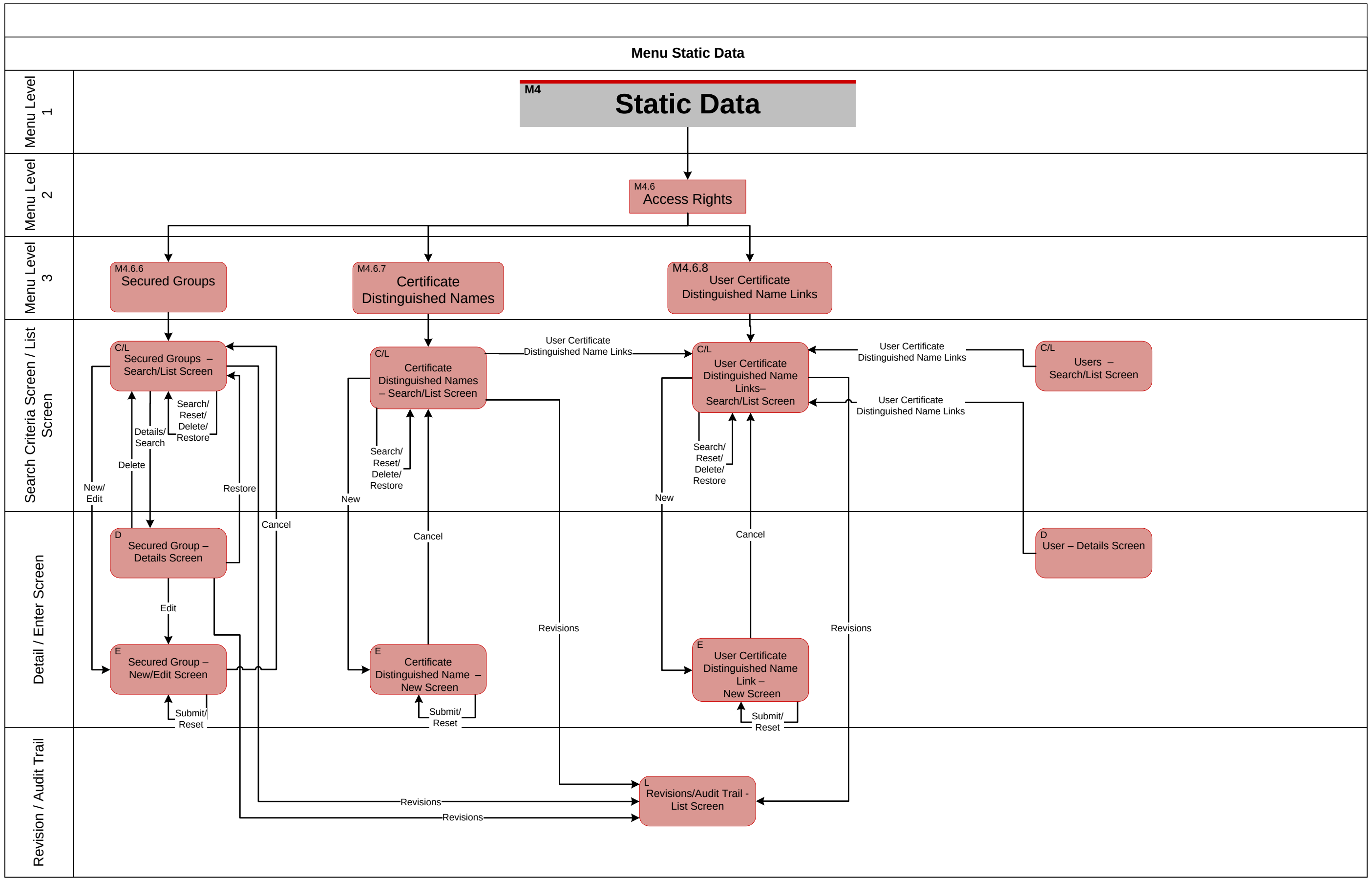
6.3.4.5 Scheduling



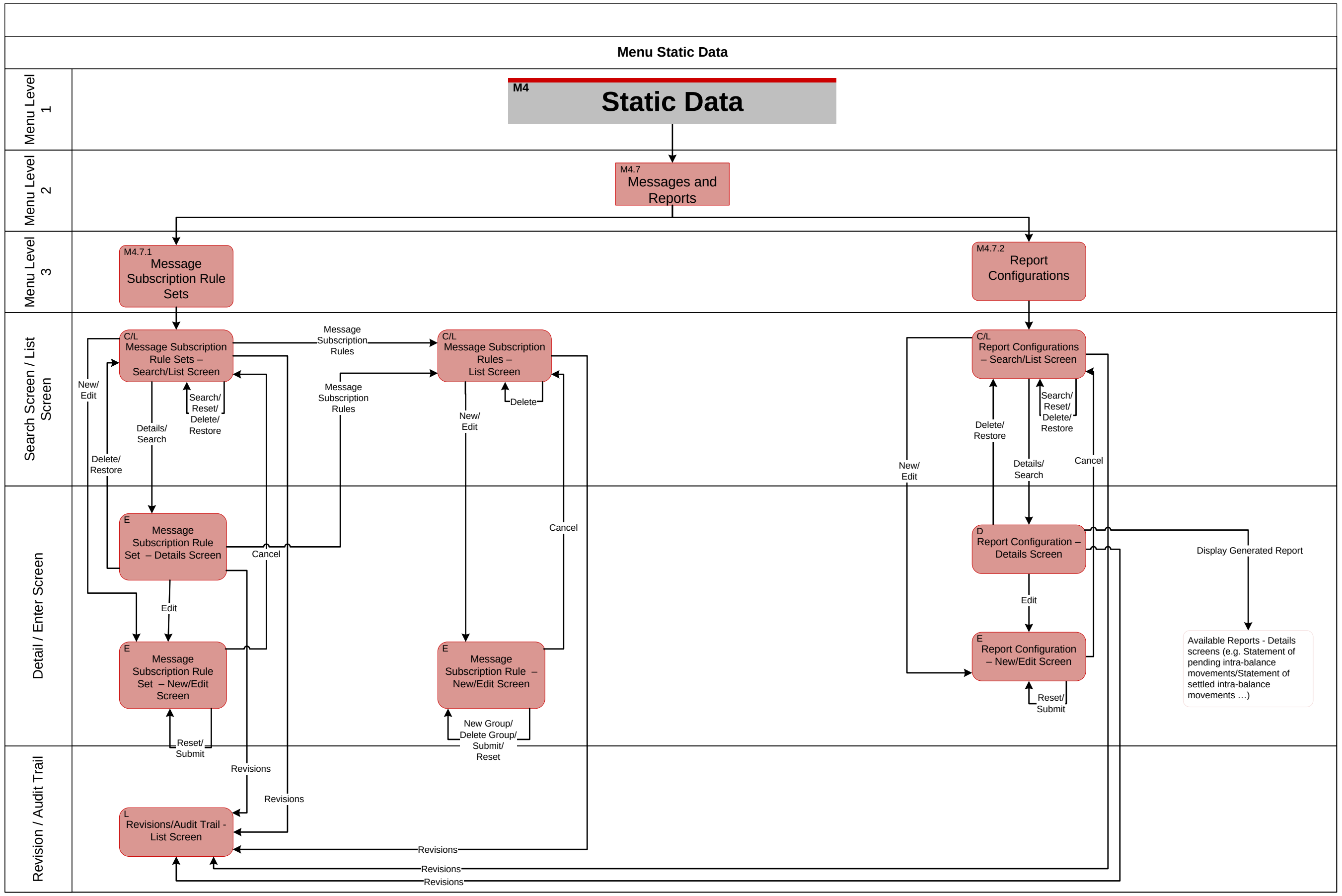
6.3.4.6 Access Rights



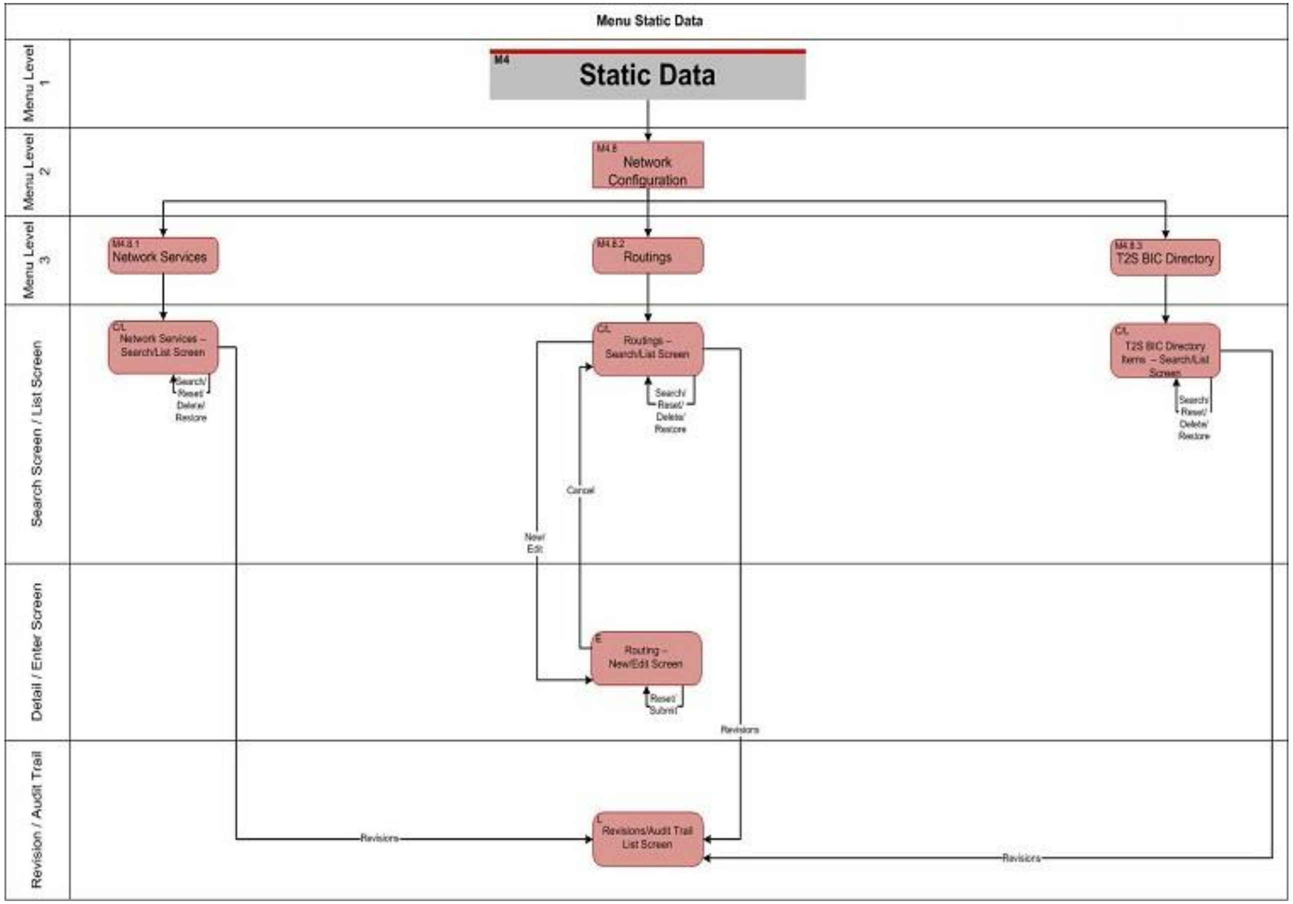
6.3.4.7 Access Rights II



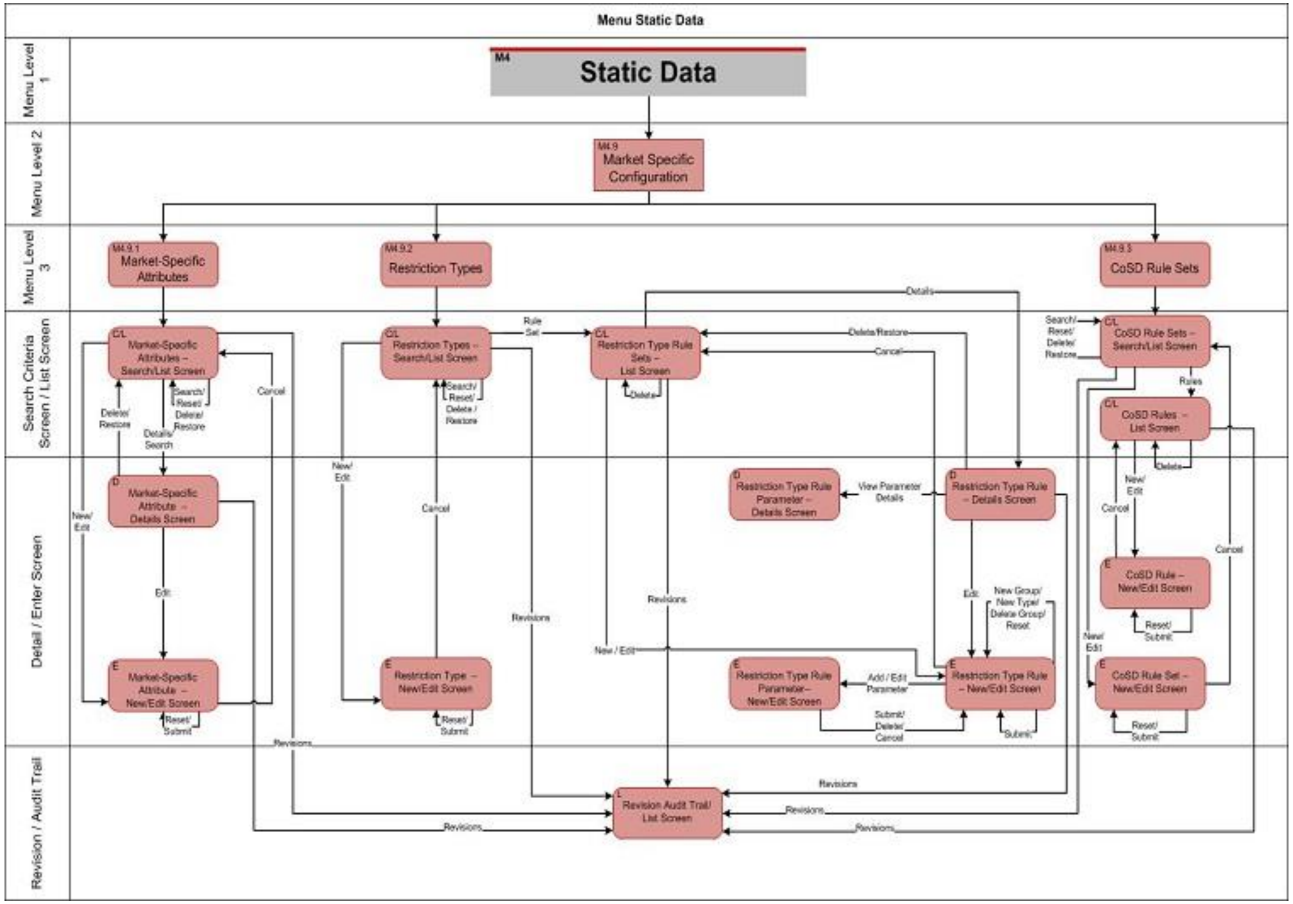
6.3.4.8 Messages and Reports



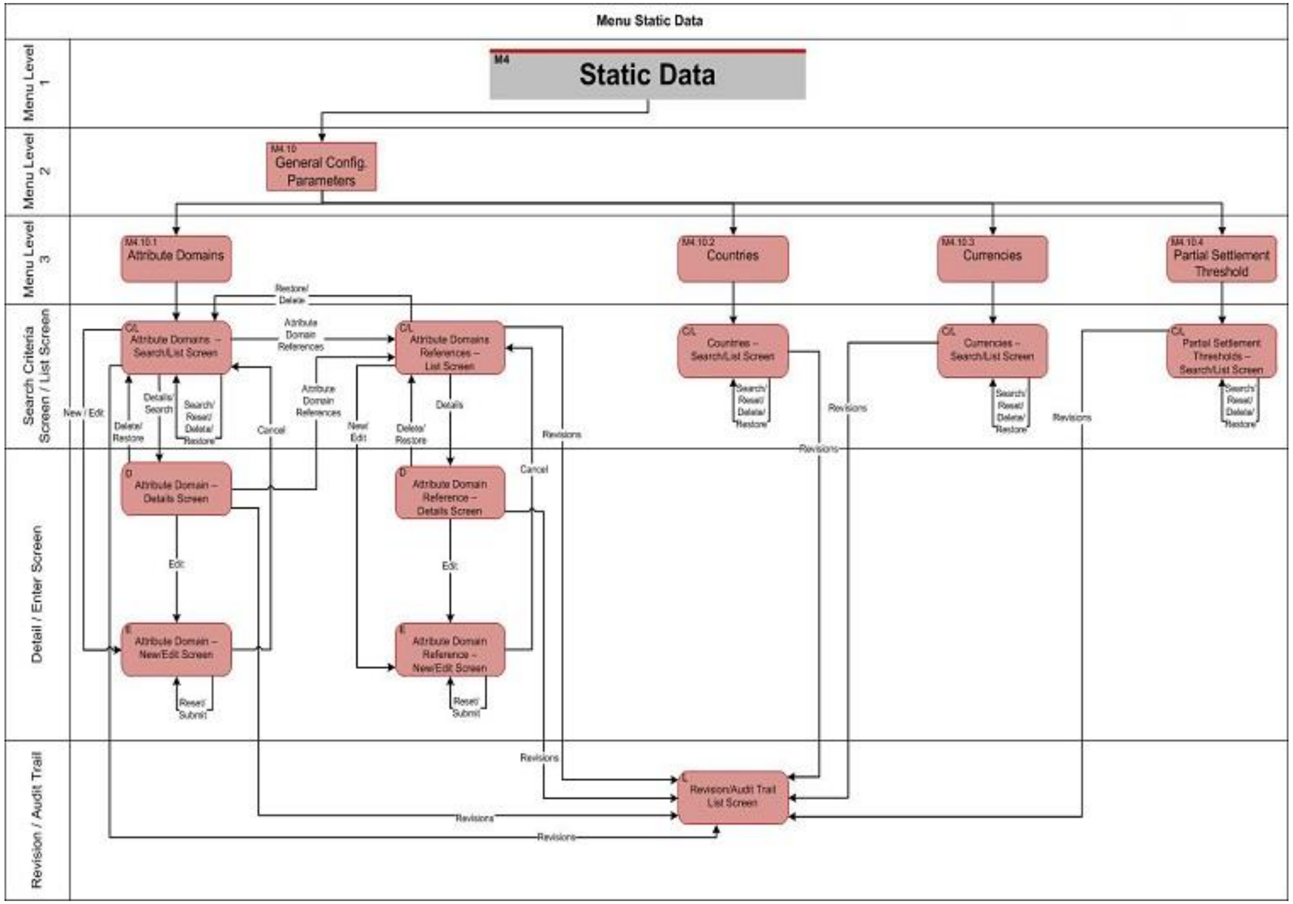
6.3.4.9 Network Configuration



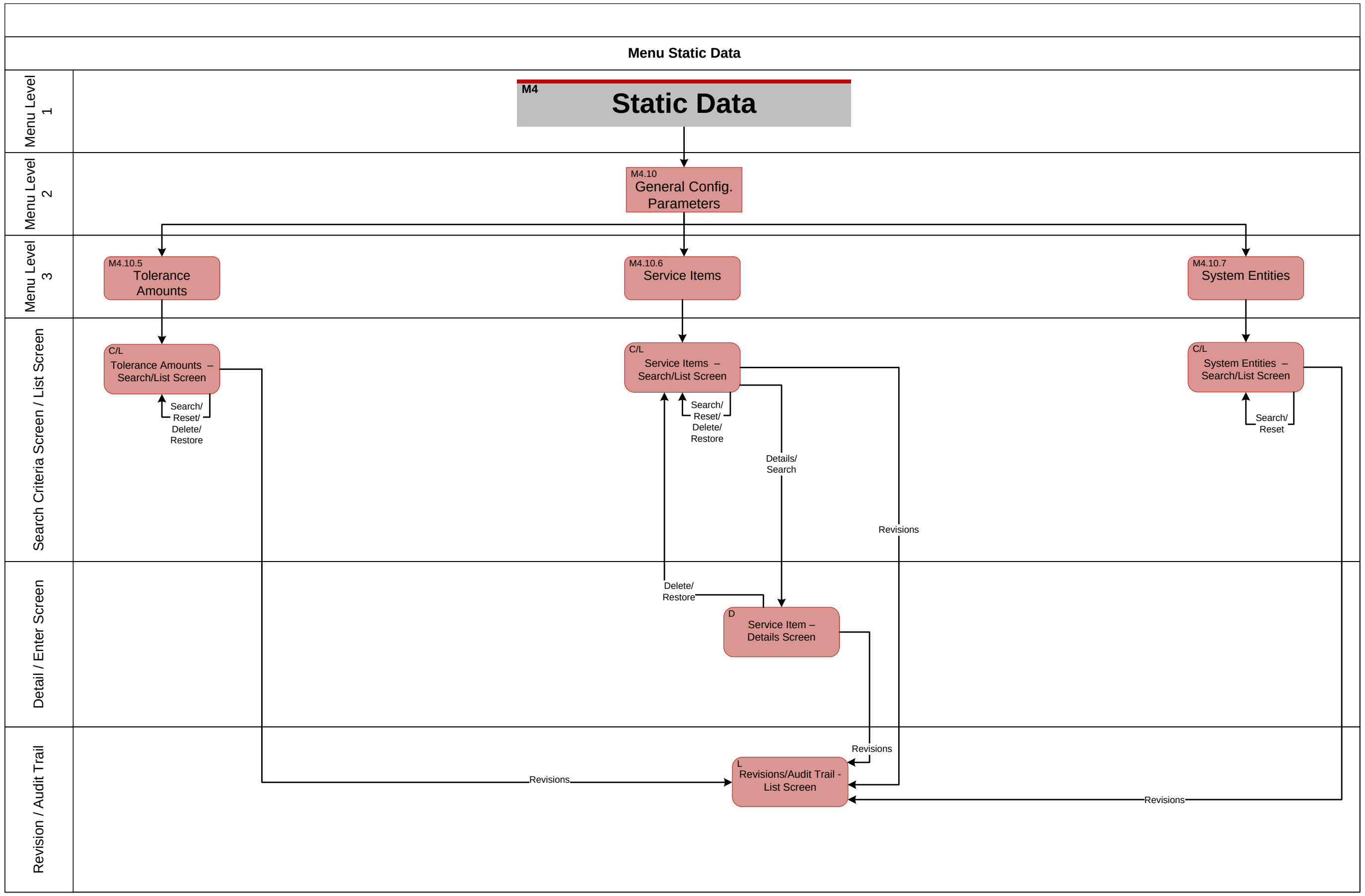
6.3.4.10 Market-Specific Configuration



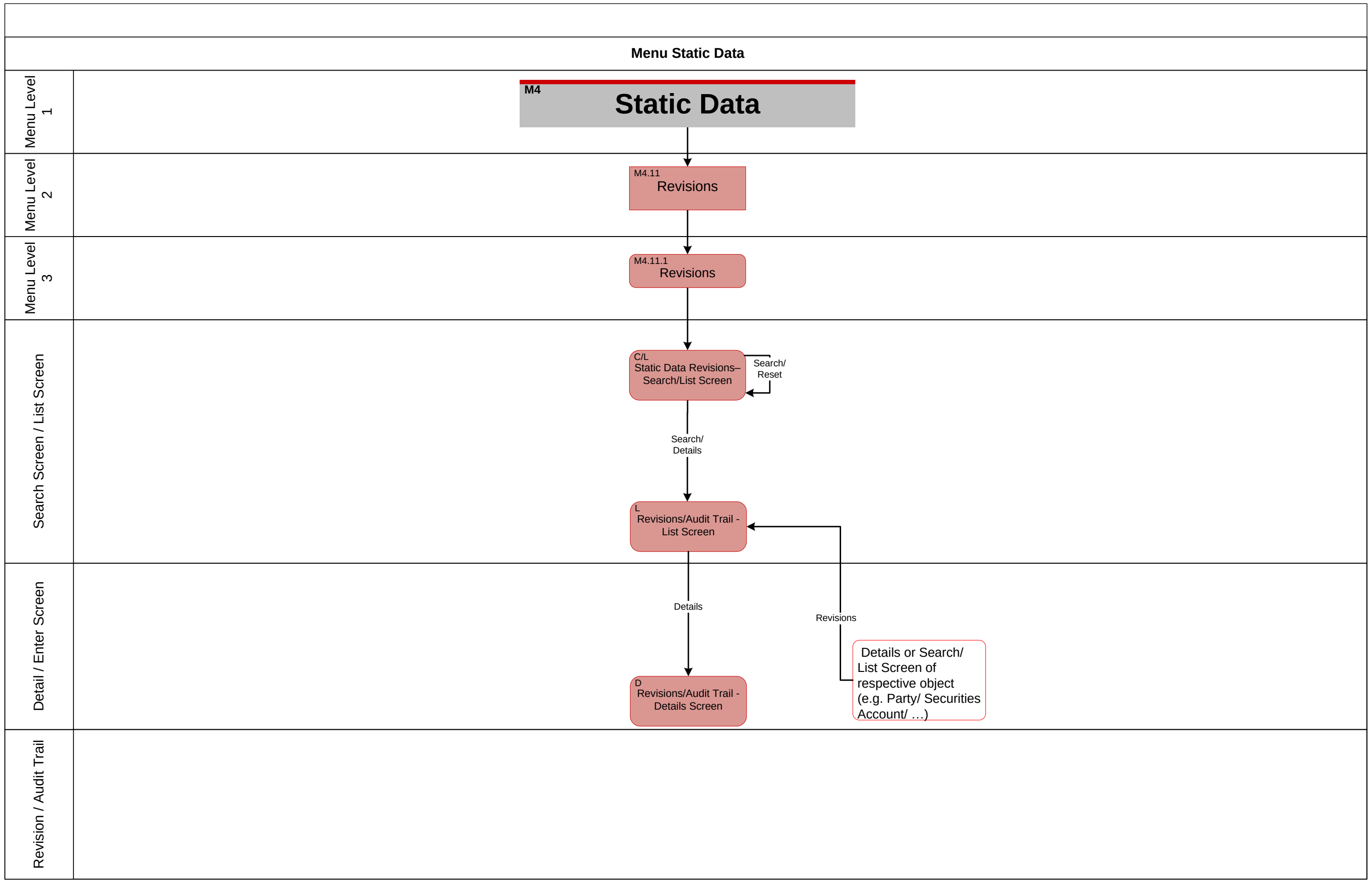
6.3.4.11 General Configuration Parameters



6.3.4.12 General Configuration Parameters II

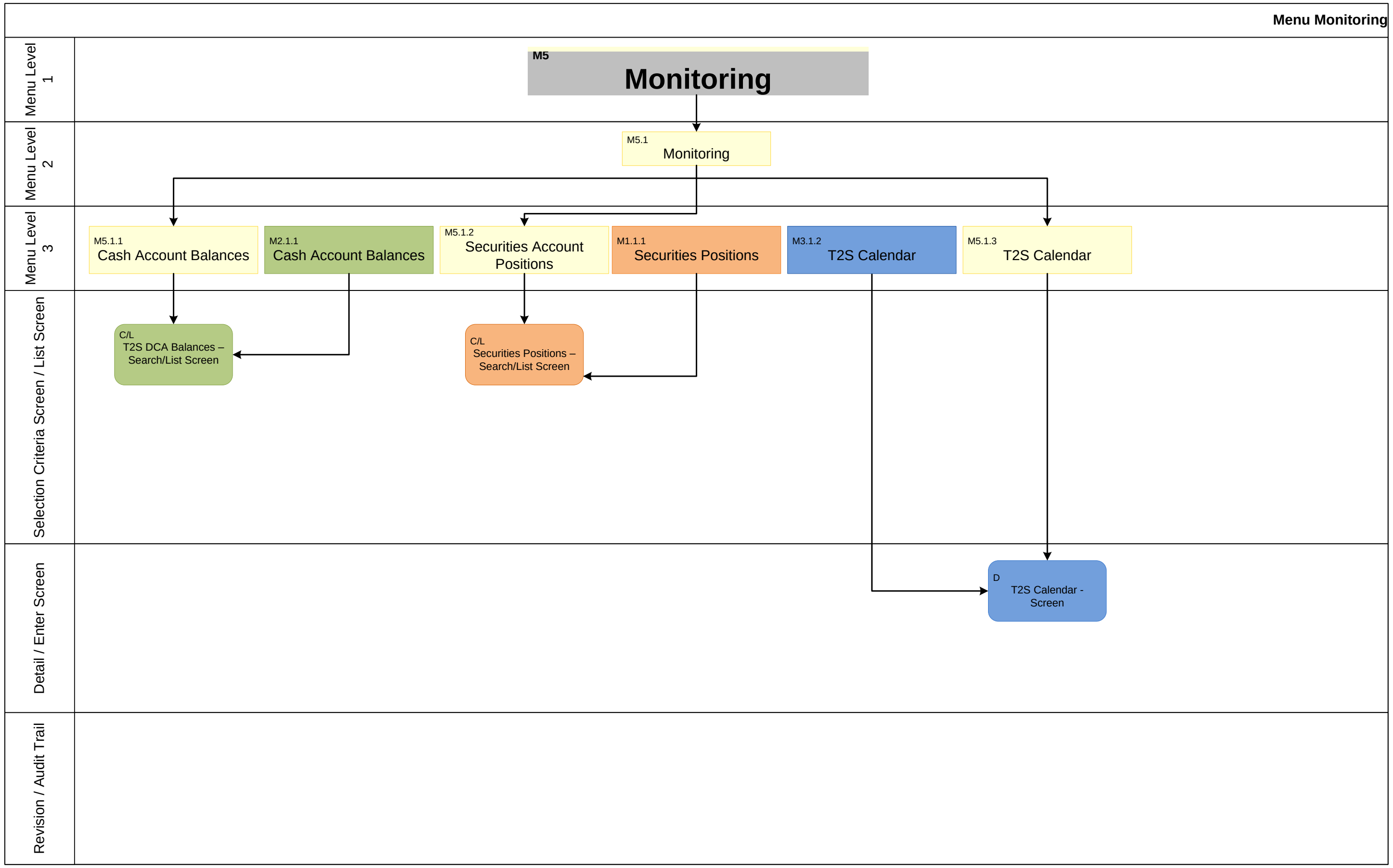


6.3.4.13 Revisions



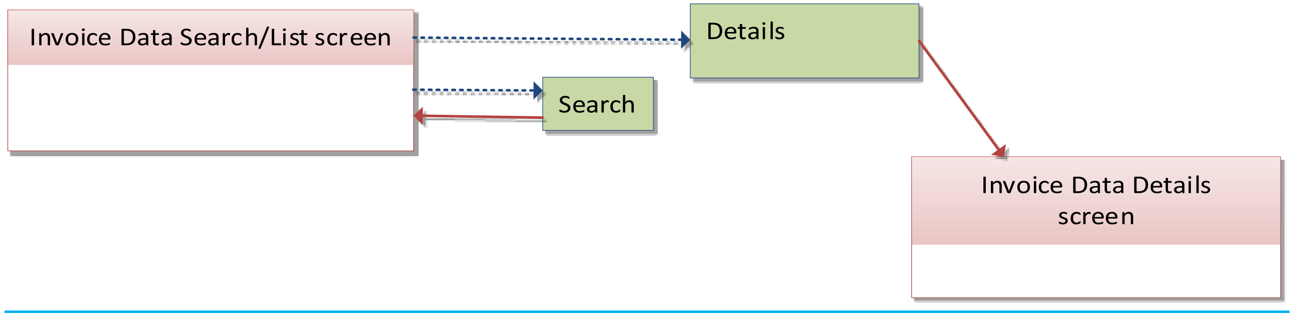
6.3.5 Monitoring

6.3.5.1 Monitoring

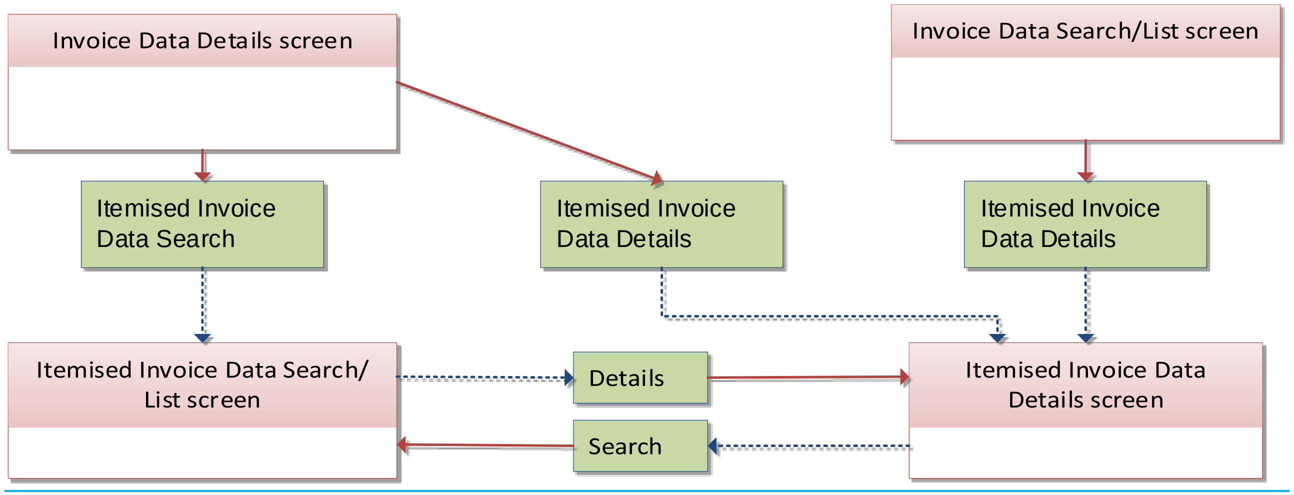


6.3.6 Billing

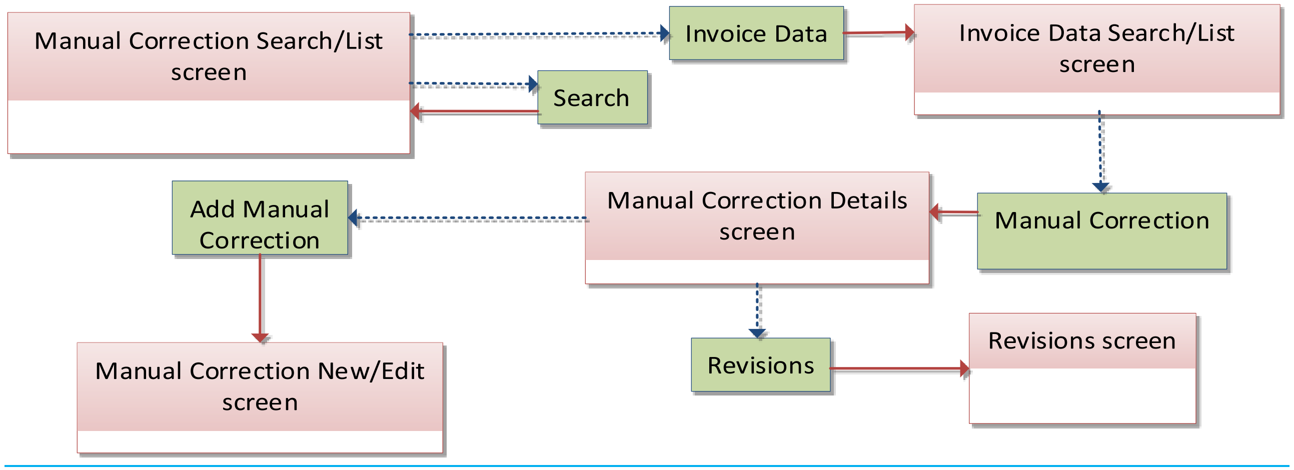
Invoice Data



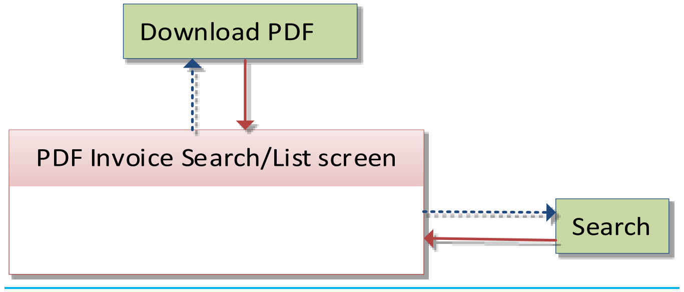
Itemised Invoice Data



Manual Correction



PDF Invoice



6.4 List of Privileges

6.4.1 Reader's Guide

Reader`s Guide

The list of privileges is divided for GUI screens and in LTSI screens. For GUI screens a list of privileges classes is included. Respectively, the list of privileges is structured in accordance with the alphabetical screen order and provides detailed information on privilege code, privilege type, object type and screen criteria related to each privilege.

6.4.2 Privilege Classes for GUI Screens

Class of Privileges	Privilege Name	Privilege Short Name
Access Rights Management	Grant Privilege	ARM_GrantPrivilege
Access Rights Management	Revoke Privilege	ARM_RevokePrivilege
Access Rights Management	Create Role	ARM_CreateRole
Access Rights Management	Update Role	ARM_UpdateRole
Access Rights Management	Delete Role	ARM_DeleteRole
Access Rights Management	Grant/Revoke Role	ARM_GrantRole
Access Rights Management	Create User	ARM_CreateUser
Access Rights Management	Update User	ARM_UpdateUser
Access Rights Management	Delete User	ARM_DeleteUser
Access Rights Management	Create Certificate Distinguish Name	ARM_CreateCertificate DN

Class of Privileges	Privilege Name	Privilege Short Name
Access Rights Management	Delete Certificate Distinguish Name	ARM_DeleteCertificate DN
Access Rights Management	Create User Certificate Distin-guish Name Link	ARM_CreateUserCertif icDNLink
Access Rights Management	Delete User Certificate Distin-guish Name Link	ARM_DeleteUserCertif icDNLink
Access Rights Management	Create Secured Group	ARM_CreateSecuredG roup
Access Rights Management	Update Secured Group	ARM_Up-dateSecuredG roup
Access Rights Management	Delete Secured Group	ARM_DeleteSecuredG roup
Access Rights Management	Administer Party	ARM_AdministerParty
Access Rights Queries	Access Rights Query	ARQ_Ac-cessRightsQuery
Access Rights Queries	Privilege Query	ARQ_PrivilegeQuery
Access Rights Queries	Role List Query	ARQ_RoleListQuery
Access Rights Queries	T2S System User Query (T2S Actor Query)	ARQ_T2SSysUserQue ryT2SActorQuery
Access Rights Queries	Certificate Query	ARQ_CertificateD-NQue ry
Access Rights Queries	T2S System User Link Query	ARQ_UserCer-tifDNLink Query
Access Rights Queries	Secured Group List Query	ARQ_Secured-GroupLis tQuery

Class of Privileges	Privilege Name	Privilege Short Name
Access Rights Queries	Secured Group Details Query	ARQ_Secured-GroupDe tailsQuery
Access Rights Queries	Granted System Privileges List Query	ARQ_GrantedSysPrivil egesListQuery
Access Rights Queries	Granted Object Privileges List Query	ARQ_GrantObjectPrivil egesListQuery
Access Rights Queries	Granted Roles List Query	ARQ_GrantedRolesLis t Query
~~Billing Queries~~	~~Service Item List Query~~	~~BIQ_ServiceItem-ListQu ery~~
~~Billing Queries~~	~~Service Item Details Query~~	~~BIQ_ServiceItemDetail sQuery~~
~~Billing Queries~~	~~Itemised Billing Data List Query~~	~~BIQ_ItemisedBillData ListQuery~~
~~Billing Queries~~	~~Itemised Billing Data Query~~	~~BIQ_ItemisedBillData DetailsQuery~~
~~Billing Queries~~	~~Cumulative Billing Data List Query~~	~~BIQ_CumulativeBillDat aListQuery~~
~~Billing Queries~~	~~Cumulative Billing Data Query~~	~~BIQ_CumulativeBillDat aDetailsQuery~~
Cash Management	Amend Process Indicator Settlement Restriction on Cash on a Dedicated Cash Account	CAM_ASRCA
Cash Management	Cancel Settlement Restriction on Cash on a Dedicated Cash Account	CAM_CSRCA
Cash Management	Send New Liquidity Transfer	CAM_Send New Liquidity Transfer
Cash Management	Send New Settlement Restriction on Cash on a Dedicated Cash Account	CAM_SNDRC

Class of Privileges	Privilege Name	Privilege Short Name
Cash Management	Unblock CoSD Cash Blocking related to cancelled CoSD Settlement Instructions on Be-half of the relevant CSD in T2S	CAM_UCBBI
Dynamic Data Queries	Settlement Instruction Query	DDQ_SettlInstructQue ry
Dynamic Data Queries	Settlement Instruction Current Status Query	DDQ_SettlInstructCurr entStatusQuery
Dynamic Data Queries	Settlement Instruction Status Audit Trail Query	DDQ_SettlInstructStat usAuditTrailQu
Dynamic Data Queries	Settlement Instruction Audit Trail Query	DDQ_SettlInstructAudi tTrailQuery
Dynamic Data Queries	Securities Position Detailed Restriction Details Query	DDQ_SecurPosDetaile dRestrDetailsQue
Dynamic Data Queries	Securities Posting Query	DDQ_SecuritiesPost-ing Query
Dynamic Data Queries	Securities Account Position Query	DDQ_SecuritiesAc-coun tPositionQuery
Dynamic Data Queries	Maintenance for Intra-Position Movements and Settlement Instructions Query	DDQ_MaintForIntra-Pos Mov+SettlInstrQ
Dynamic Data Queries	Amendment Instruction Query for Intra-Position Movements and Settlement Instructions	DDQ_AmendInstrQIn-tra PosMov+SetInstr
Dynamic Data Queries	Intra-Position Movements Query	DDQ_IntraPosMovQue ry
Dynamic Data Queries	Allegement Query	DDQ_Al-legementQuery
Dynamic Data	Inbound Message List Query	DDQ_InboundMessList Query

Class of Privileges	Privilege Name	Privilege Short Name
Queries		
Dynamic Data Queries	Inbound Message Details Query	DDQ_InboundMessDetailsQuery
Dynamic Data Queries	Outbound Message List Query	DDQ_OutboundMessListQuery
Dynamic Data Queries	Outbound Message Details Query	DDQ_OutboundMessDetailsQuery
Dynamic Data Queries	Inbound Files List Query	DDQ_InboundFilesListQuery
Dynamic Data Queries	Inbound Files Details Query	DDQ_Inbound-FilesDetailsQuery
Dynamic Data Queries	Outbound Files List Query	DDQ_Outbound-FilesListQuery
Dynamic Data Queries	Outbound Files Details Query	DDQ_Outbound-FilesDetailsQuery
Dynamic Data Queries	Data Changes of a Business Object List Query	DDQ_DataChan-BusinessObjListQuery
Dynamic Data Queries	Data Changes of a Business Object Details Query	DDQ_DataChan-BusinessObjDetailQuery
Dynamic Data Queries	Intra-Positon Movement Audit Trail List Query	DDQ_Intra-PosMovAuditTrailListQuery
Dynamic Data Queries	Intra-Positon Movement Audit Trail Details Query	DDQ_Intra-PosMovAuditTrailDetQuery
Dynamic Data Queries	Hold/Release Instruction Audit Trail List Query	DDQ_HoldRe-leInstrAuditTrailLisQuery

Class of Privileges	Privilege Name	Privilege Short Name
Dynamic Data Queries	Hold/Release Instruction Audit Trail Details Query	DDQ_HoldReleInstrAud itTrailDetQuery
Dynamic Data Queries	Amendment Instruction for Intra-Position Movement or Settlement Instruction Audit Trail List Query	DDQ_AmdInsIntrPosMovSetInsAudTrLisQ
Dynamic Data Queries	Amendment Instruction for Intra-Position Movement or Settlement Instruction Audit Trail Details Query	DDQ_AmdInsIntrPosMovSetInsAudTrDetQ
Dynamic Data Queries	Cancellation Instruction for Intra-Balance Movement Audit Trail Details Query	DDQ_CancInstrIntraBal anMovAudTrDetQ
Dynamic Data Queries	Cancellation Instruction for Intra-Balance Movement Audit Trail List Query	DDQ_CancInstrIntraBal anMovAudTrLisQ
Dynamic Data Queries	Cancellation Instruction for Intra-Position Movement or Settlement Instruction Audit Trail List Query	DDQ_CancInstrIntraPosMovAudTrLisQ
Dynamic Data Queries	Cancellation Instruction for Intra-Position Movement or Settlement Instruction Audit Trail Details Query	DDQ_CancInstrIntraPosMovAudTrDetQ
Dynamic Data Queries	Cancellation Instruction Query for Intra-position Movements and Settlement Instructions	DDQ_CancInstrForSI+IntraPosMovQuery
Dynamic Data Queries	Broadcast Query	DDQ_BroadcastQuery
Dynamic Data Queries	Amendment Instruction for Intra-Balance Movement Audit Trail Details Query	DDQ_AmdInstrForIntraBalMovAudTrDetQ

Class of Privileges	Privilege Name	Privilege Short Name
Dynamic Data Queries	Amendment Instruction for Intra-Balance Movement Audit Trail List Query	DDQ_AmdInstrForIntraBalMovAudTrLisQ
Dynamic Data Queries	Amendment Instruction Query for Intra-Balance Movements	DDQ_AmendIn-strQuery ForIntraBalanMo
Dynamic Data Queries	Cancellation Instructions for Intra-Balance Movements Query	DDQ_CancInstructIn-tra BalanMovQuery
Dynamic Data Queries	Cash Forecast Query	DDQ_CashForecastQuery
Dynamic Data Queries	Collateral Value of a Security Query	DDQ_CollatValue-of-SecurityQuery
Dynamic Data Queries	Collateral Value per T2S Dedicated Cash Account Query	DDQ_Collat-ValuePerT2 SDCAQuery
Dynamic Data Queries	Immediate Liquidity Transfer Order Audit Trail Details Query	DDQ_ImmedLiquid-Tran sOrderAudTrdettQ
Dynamic Data Queries	Immediate Liquidity Transfer Order Audit Trail List Query	DDQ_ImmedLiquid-Tran sOrderAudTrListQ
Dynamic Data Queries	Immediate Liquidity Transfer Order Detail Query	DDQ_ImmedLiquid-Tran sOrderDetQuery
Dynamic Data Queries	Immediate Liquidity Transfer Order List Query	DDQ_ImmedLiquid-Tran sOrderListQuery
Dynamic Data Queries	Intra-Balance Movement Audit Trail Detail Query	DDQ_IntraBa-lanMovAu ditTrailDetQuery
Dynamic Data Queries	Intra-Balance Movement Audit Trail List Query	DDQ_IntraBa-lanMovAu ditTrailLisQuery

Class of Privileges	Privilege Name	Privilege Short Name
Dynamic Data Queries	Intra-Balance Movements Query	DDQ_IntraBa-lanMovQu ery
Dynamic Data Queries	Limit Utilisation Journal Query	DDQ_LimitUtilisation JournalQuery
Dynamic Data Queries	Limit Utilisation Query	DDQ_LimitUtilisation Query
Dynamic Data Queries	Maintenance Instruction for Intra-Balance Movements Query	DDQ_MaintInstrForInt raBalanMovQuer
Dynamic Data Queries	Outstanding Auto-Collateralisation Credit Query	DDQ_OutstandAuto-CollCreditQuery
Dynamic Data Queries	T2S Dedicated Cash Account Balance Detailed Restrictions Query	DDQ_T2SDCABa-lanDe tailedRestricQuery
Dynamic Data Queries	T2S Dedicated Cash Account Balance Query	DDQ_T2SDedicat-edCa shAccBalanceQuery
Dynamic Data Queries	T2S Dedicated Cash Account Posting Query	DDQ_T2SDedicat-edCa shAccPostingQuery
Dynamic Data Queries	T2S Overall Liquidity Query	DDQ_T2SOverallLiq-uidi tyQuery
Dynamic Data Queries	Total Collateral Value per T2S Dedicated Cash Account Query	DDQ_TotalCollatValue PerT2SDCAQuery
Dynamic Data Queries	Settlement Instruction Matched and Accepted Status Query Privilege	DDQ_SettlInstruct-MtchAcceptStsQuery
Market-Specific Configuration	Create Attribute Domain	MSC_CreateAttributeD omain
Market-Specific Configuration	Update Attribute Domain	MSC_UpdateAt-tributeD omain

Class of Privileges	Privilege Name	Privilege Short Name
Market-Specific Configuration	Delete Attribute Domain	MSC_DeleteAttributeDomain
Market-Specific Configuration	Create Attribute Reference	MSC_CreateAttributeReference
Market-Specific Configuration	Update Attribute Reference	MSC_UpdateAttrib-uteR eference
Market-Specific Configuration	Delete Attribute Reference	MSC_DeleteAttributeReference
Market-Specific Configuration	Create Market-Specific Attrib-ute	MSC_CreateMarket-SpecificAttribute
Market-Specific Configuration	Update Market-Specific Attrib-ute	MSC_UpdateMarket-SpecificAttribute
Market-Specific Configuration	Delete Market-Specific Attrib-ute	MSC_DeleteMarket-SpecificAttribute
Market-Specific Configuration	Create Restriction Type	MSC_Cre-ateRestriction Type
Market-Specific Configuration	Update Restriction Type	MSC_UpdateRestrictionType
Market-Specific Configuration	Delete Restriction Type	MSC_Dele-teRestriction Type
Market-Specific Configuration	Create Restriction Type Rule	MSC_Cre-ateRestriction TypeRule
Market-Specific Configuration	Update Restriction Type Rule	MSC_UpdateRestrictionTypeRule
Market-Specific Configuration	Delete Restriction Type Rule	MSC_Dele-teRestriction TypeRule

Class of Privileges	Privilege Name	Privilege Short Name
Market-Specific Configuration	Create Conditional Security Delivery Rule Set	MSC_CreateCon-ditSec urDelivRuleSet
Market-Specific Configuration	Update Conditional Security Delivery Rule Set	MSC_UpdateCon-ditSec urDelivRuleSet
Market-Specific Configuration	Delete Conditional Security Delivery Rule Set	MSC_DeleteConditSec urDelivRuleSet
Market-Specific Configuration	Create Conditional Security Delivery Rule	MSC_CreateCon-ditSec urDelivRule
Market-Specific Configuration	Update Conditional Security Delivery Rule	MSC_UpdateCon-ditSec urDelivRule
Market-Specific Configuration	Delete Conditional Security Delivery Rule	MSC_DeleteConditSec urDelivRule
Message Management	Resend Communication	MMA_Resend Com-munication
Message Management	Third party receipt	MMA_Third party re-ceipt
Message Subscription	Create Message Subscription Rule Set	MSU_CreateMes-sSubs RuleSet
Message Subscription	Update Message Subscription Rule Set	MSU_UpdateMessSub scriptionRuleSet
Message Subscription	Delete Message Subscription Rule Set	MSU_DeleteMessSubs criptionRuleSet
Message Subscription	Create Message Subscription Rule	MSU_CreateMes-sageS ubscriptionRule
Message Subscription	Update Message Subscription Rule	MSU_UpdateMessage SubscriptionRule

Class of Privileges	Privilege Name	Privilege Short Name
Message Subscription	Delete Message Subscription Rule	MSU_DeleteMes-sageS ubscriptionRule
Message Subscription Queries	Message Subscription Rule Set List Query	MSQ_MessSub-scrRule SetListQuery
Message Subscription Queries	Message Subscription Rule List Query	MSQ_MessSub-scrRule ListQuery
Message Management	RTGS answer	MMA_RTGS answer
Message Management	New Broadcast	MMA_New Broadcast
Message Subscription Queries	Message Subscription Rule Set Details Query	MSQ_MessSub-scrRule SetDetailQuery
MSA Data Queries	Attribute Domain List Query	MSA_At-tributeDomainLi stQuery
MSA Data Queries	Attribute Domain Details Query	MSA_At-tributeDomainD etailsQuery
MSA Data Queries	Market-specific Attribute List Query	MSA_Market-SpecAttri buteQuery
MSA Data Queries	Market-specific Attribute Detail Query	MSA_Market-SpecAttri buteDetailQuery
MSA Data Queries	Market-specific Restriction List Query	MSA_Market-Spe-cRestrictListQuery
MSA Data Queries	Conditional Security Delivery Rule Set Query	MSA_ConditSecDeliv eryRuleSetQuery
MSA Data Queries	Attribute Reference List Query	MSA_DisplayAttrib-Dom ainRefListQuery
MSA Data Queries	Market-specific Restriction Type Rule Detail Query	MSA_Market-Spec RestrictDetailQuery

Class of Privileges	Privilege Name	Privilege Short Name
MSA Data Queries	Market-specific Restriction Type Rule Set List Query	MSA_MarkSpecRestr TypeRuleSetListQue
MSA Data Queries	Market-specific Restriction Type Rule Parameter Details Query	MSA_MarkSpecRestr TypeRuleParamDetQ
MSA Data Queries	Conditional Security Delivery Rule List Query	MSA_ConditSecDelive ryRuleQuery
MSA Data Queries	Attribute Reference Details Query	MSA_DisplayAttrib-Dom ainRefDetQuery
Network Configuration	Create Routing	NCO_CreateRouting
Network Configuration	Update Routing	NCO_UpdateRouting
Network Configuration	Delete Routing	NCO_DeleteRouting
Network Configuration	Create Technical Address Network Service Link	NCO_CreateTechnAdd ressNetServLink
Network Configuration	Update Technical Address Network Service Link	NCO_Update-TechnAdd ressNetServLink
Network Configuration	Delete Technical Address Net-work Service Link	NCO_DeleteTechnAdd ressNetServLink
Network Configuration Queries	T2S BIC Query	NCQ_T2SBICQuery
Network Configuration Queries	Network Service List query	NCQ_NetworkServiceL istquery
Network Configuration Queries	Routing List Query	NCQ_Rout-ingListQuery

Class of Privileges	Privilege Name	Privilege Short Name
Network Configuration Queries	Technical Address Network Service Link Details Query	NCQ_DisplayTechAddressNetSerLink
Party Data Management	Create Party	PDM_CreateParty
Party Data Management	Update Party	PDM_UpdateParty
Party Data Management	Delete Party	PDM_DeleteParty
Party Data Queries	Party Audit Trail Query	PDQ_PartyAudTrailQuery
Party Data Queries	Party Reference Data Query	PDQ_PartyRefer-DataQuery
Party Data Queries	Party List Query	PDQ_PartyListQuery
Party Data Queries	Restricted Party Query	PDQ_RestrictedPartyQuery
Report Configuration	Create Report Configuration	RCO_CreateR-eportConfiguration
Report Configuration	Update Report Configuration	RCO_UpdateReportConfiguration
Report Configuration	Delete Report Configuration	RCO_Dele-teReportConfiguration
Report Configuration Queries	Report Configuration Details Query	RCO_ReportConfigDetailQuery
Report Configuration Queries	Report Configuration List Query	RCO_ReportConfigList Query
Report Queries	Report List Query	RCO_ReportListQuery
Report Queries	Report Details Query	RCO_ReportDetailsQuery

Class of Privileges	Privilege Name	Privilege Short Name
SAC Data Queries	Securities Account List Query	SAQ_SecuritiesAc-coun tListQuery
SAC Data Queries	Securities Account Reference Data Query	SAQ_SecuritiesAccReferenceDataQuery
SAC Data Queries	Securities Account Audit Trail Query	SAQ_SecuritiesAc-cAud TrailQuery
SAC Data Queries	CSD Account Link Query	SAQ_CSDAccountLink Query
SAC Data Queries	CMB Securities Account Link List Query	SAQ_DisplayCMBSec AccLinkListQuery
Scheduling Queries	Event Type List Query	SCQ_EventType-ListQu ery
Scheduling Queries	Event Type Details Query	SCQ_EventTypeDe-tails Query
Scheduling Queries	Closing Day Query	SCQ_Closing-DayQuery
Scheduling Queries	Current Status of the T2S set-tlement day	SCQ_CurrStatusOfT2 S SettlDay
Scheduling Queries	T2S Calendar Query	SCQ_T2SCalen-darQue ry
Scheduling Queries	T2S Diary Query	SCQ_T2SDiaryQuery
Securities Account Data Management	Create Securities Account	SAC_CreateSecurities Account
Securities Account Data Management	Update Securities Account	SAC_UpdateSecurities Account
Securities Account Data Management	Delete Securities Account	SAC_DeleteSecurities Account

Class of Privileges	Privilege Name	Privilege Short Name
Securities Account Data Management	Create CSD Account Link	SAC_CreateCSDAccountLink
Securities Account Data Management	Update CSD Account Link	SAC_UpdateCSDAccountLink
Securities Account Data Management	Delete CSD Account Link	SAC_DeleteCSDAccountLink
Securities Account Data Management	Create CMB Securities Account Link	SAC_CreateCMBSecuritiesAccountLink
Securities Account Data Management	Delete CMB Securities Account Link	SAC_DeleteCMBSecuritiesAccountLink
Securities Account Data Management	Update CMB Securities Account Link	SAC_UpdateCMBSecuritiesAccountLink
Security Data Management	Create Security	SDM_CreateSecurity
Security Data Management	Update Security	SDM_UpdateSecurity
Security Data Management	Delete Security	SDM_DeleteSecurity
Security Data Management	Create Security CSD Link	SDM_CreateSecurityCSDLink
Security Data Management	Update Security CSD Link	SDM_UpdateSecurityCSDLink
Security Data Management	Delete Security CSD Link	SDM_DeleteSecurityCSDLink
Security Data Management	Create Eligible Counterpart CSD Link	SDM_CreateEligibleCounterpCSDLink
Security Data Management	Update Eligible Counterpart CSD Link	SDM_UpdateEligibleCounterpCSDLink
Security Data Management	Delete Eligible Counterpart CSD Link	SDM_DeleteEligibleCounterpCSDLink

Class of Privileges	Privilege Name	Privilege Short Name
Security Data Queries	Eligible Counterpart CSD List Query	SEQ_EligibleCounterpCSDListQuery
Security Data Queries	Eligible Counterpart CSD Details Query	SEQ_EligibleCounterpCSDDetailsQuery
Security Data Queries	Securities Reference Data Query	SEQ_SecuritiesReferDataQuery
Security Data Queries	Securities Audit Trail Query	SEQ_SecuritiesAudTrailQuery
Security Data Queries	ISIN List Query	SEQ_ISINListQuery
Security Data Queries	Securities Deviating Nominal Query	SEQ_SecuritiesDeviatNominQuery
Security Data Queries	Securities CSD Link Query	SEQ_SecuritiesCSDLinkQuery
Security Data Management	Create Auto-Collateralisation Eligibility Link	SDM_CreateAuto-CollEligibilityLink
Security Data Management	Create Close Link	SDM_CreateCloseLink
Security Data Management	Create Securities Valuation	SDM_CreateSecuritiesValuation
Security Data Management	Delete Auto-Collateralisation Eligibility Link	SDM_DeleteAuto-CollEligibilityLink
Security Data Management	Delete Close Link	SDM_DeleteCloseLink
Security Data Queries	Auto-Collateralisation Eligibility Links Query	SEQ_Auto-CollEligibilityLinksQuery
Security Data Queries	Close Links Query	SEQ_CloseLinksQuery
Security Data Queries	Securities Valuations Query	SEQ_SecuritiesValuationsQuery
Settlement CSD	Unblock CoSD Securities Blocking related to cancelled	SIC_USBBI

Class of Privileges	Privilege Name	Privilege Short Name
	CoSD Settlement Instructions on Behalf of the relevant CSD in T2S	
Settlement CSD	Send Settlement Instruction with non-modifiable flag activated	SIC_SINMF
Settlement CSD	CSD Hold Settlement Instruction either on a Securities Account or on Behalf of the CSD in T2S	SIC_CSDHI
Settlement CSD	Release CSD Hold Settlement Instruction either on a Securities Account or on Behalf of the CSD in T2S	SIC_RCSDH
Settlement CSD	Release CSD Validation Hold Settlement Instruction either on a Securities Account or on Behalf of the CSD in T2S	SIC_RCSDV
Settlement CSD	Release CoSD Hold Settlement Instruction on Behalf of an Administering Party	SIC_RCOSD
Settlement CSD	Amend Process Indicator of a non-modifiable Settlement Instruction on behalf of the Instructing Party of the underlying instruction	SIC_ANMBI
Settlement CSD	Hold Non-modifiable Instructions on behalf of the Instructing party of the Underlying Settlement Instruction	SIC_HNMBI
Settlement CSD	Release Non-modifiable Instructions on behalf of the Instructing party of the Underlying Settlement Instruction	SIC_RNMBI

Class of Privileges	Privilege Name	Privilege Short Name
Settlement CSD	Cancel Non-modifiable Instructions on behalf of the Instructing party of the Underlying Settlement Instruction	SIC_CNMBI
Settlement General	Send New Settlement Instruction/Settlement Restriction on Securities either on a Securities Account or on Behalf of an external CSD	SIG_SNDSI
Settlement General	Send new instruction using a specific Instructing Party	SIG_SIUIP
Settlement General	Link to an Instruction/Pool Reference belonging to a specific Party	SIG_LIPRP
Settlement General	Party Hold Settlement Instruction on a Securities Account or on Behalf of an external CSD	SIG_PTYHI
Settlement General	Release Party Hold Settlement Instruction on a Securities Account or on Behalf of an external CSD	SIG_RPTYH
Settlement General	Amend Process Indicator of a Settlement Instruction/ Settlement Restriction on Securities either on a Securities Account or on Behalf of the CSD in T2S or on Behalf of an external CSD	SIG_AMNPI
Settlement General	Cancel Settlement Instruction / Settlement Restriction on Securities either on a Securities Account or on Behalf of the CSD in T2S, on Behalf on external CSD or on Behalf of an Administering Party	SIG_CANCI

Class of Privileges	Privilege Name	Privilege Short Name
Settlement ISO Codes	Use ISO Transaction Code AUTO (Auto-Collateralisation)	SII_UAUTO
Settlement ISO Codes	Use ISO Transaction Code BIYI (BuyIn)	SII_UBIYI
Settlement ISO Codes	Use ISO Transaction Code BSBK (Buy Sell Back)	SII_UBSBK
Settlement ISO Codes	Use ISO Transaction Code CLAI (Market Claim)	SII_UCLAI
Settlement ISO Codes	Use ISO Transaction Code CNCB (Central Bank Collat-eral Operation)	SII_UCNCB
Settlement ISO Codes	Use ISO Transaction Code COLI (Collateral In)	SII_UCOLI
Settlement ISO Codes	Use ISO Transaction Code COLO (Collateral Out)	SII_UCOLO
Settlement ISO Codes	Use ISO Transaction Code CONV (Depository Receipt Conversion)	SII_UCONV
Settlement ISO Codes	Use ISO Transaction Code CORP (Corporate Action)	SII_UCORP
Settlement ISO Codes	Use ISO Transaction Code ETFT	SII_UETFT
Settlement ISO Codes	Use ISO Transaction Code FCTA (Factor Update)	SII_UFCTA
Settlement ISO Codes	Use ISO Transaction Code INSP (Move Of Stock)	SII_UINSP
Settlement ISO Codes	Use ISO Transaction Code ISSU (Issuance)	SII_UISSU
Settlement ISO Codes	Use ISO Transaction Code MKDW (Mark Down)	SII_UMKDW

Class of Privileges	Privilege Name	Privilege Short Name
Settlement ISO Codes	Use ISO Transaction Code MKUP (Mark Up)	SII_UMKUP
Settlement ISO Codes	Use ISO Transaction Code NETT (Netting)	SII_UNETT
Settlement ISO Codes	Use ISO Transaction Code NSYN (Non Syndicated)	SII_UNSYN
Settlement ISO Codes	Use ISO Transaction Code OWNI (Internal Account Transfer)	SII_UOWNI
Settlement ISO Codes	Use ISO Transaction Code PAIR (Pair Off)	SII_UPAIR
Settlement ISO Codes	Use ISO Transaction Code PLAC (Placement)	SII_UPLAC
Settlement ISO Codes	Use ISO Transaction Code PORT (Portfolio Move)	SII_UPORT
Settlement ISO Codes	Use ISO Transaction Code REAL (Realignment)	SII_UREAL
Settlement ISO Codes	Use ISO Transaction Code REDI (Withdrawal)	SII_UREDI
Settlement ISO Codes	Use ISO Transaction Code REDM (Redemption)	SII_UREDM
Settlement ISO Codes	Use ISO Transaction Code RELE (Depository Receipt Release Cancellation)	SII_URELE
Settlement ISO Codes	Use ISO Transaction Code REPU (Repo)	SII_UREPU
Settlement ISO Codes	Use ISO Transaction Code RVPO (Reverse Repo)	SII_URVPO
Settlement ISO Codes	Use ISO Transaction Code OWNE (External Account Transfer)	SII_UOWNE

Class of Privileges	Privilege Name	Privilege Short Name
Settlement ISO Codes	Use ISO Transaction Code RODE (Return Delivery Without Matching)	SII_URODE
Settlement ISO Codes	Use ISO Transaction Code SBBK (Sell Buy Back)	SII_USBBK
Settlement ISO Codes	Use ISO Transaction Code SBRE (Borrowing Reallocation)	SII_USBRE
Settlement ISO Codes	Use ISO Transaction Code SECB (Securities Borrowing)	SII_USECB
Settlement ISO Codes	Use ISO Transaction Code SECL (Securities Lending)	SII_USECL
Settlement ISO Codes	Use ISO Transaction Code SLRE (Lending Reallocation)	SII_USLRE
Settlement ISO Codes	Use ISO Transaction Code SUBS (Subscription)	SII_USUBS
Settlement ISO Codes	Use ISO Transaction Code SYND (Syndicate Underwriters)	SII_USYND
Settlement ISO Codes	Use ISO Transaction Code TBAC (TBA Closing)	SII_UTBAC
Settlement ISO Codes	Use ISO Transaction Code TRAD (Trade)	SII_UTRAD
Settlement ISO Codes	Use ISO Transaction Code TRPO (Triparty Repo)	SII_UTRPO
Settlement ISO Codes	Use ISO Transaction Code TRVO (Triparty Reverse Repo)	SII_UTRVO
Settlement ISO Codes	Use ISO Transaction Code TURN (Turnaround)	SII_UTURN
Static Data Queries	Partial Settlement Threshold Query	SDQ_PartialSettlThresholdQuery
Static Data Queries	Country Query	SDQ_CountryQuery

Class of Privileges	Privilege Name	Privilege Short Name
Static Data Queries	Currency Query	SDQ_CurrencyQuery
Static Data Queries	Tolerance Amount Query	SDQ_ToleranceA-mount Query
Static Data Queries	Liquidity Transfer Order of Li-quidity Transfer Order Link Set Query	SDQ_LiqTranOrdOfLiq TranOrdLinkSetQ
Static Data Queries	Residual Static Data Audit Trail Query	SDQ_ResidualStat-icDa taAudTrailQuery
Static Data Queries	System Entity Query	SDQ_SystemEnti-tyQue ry
T2S Dedicated Cash Ac-count Data	Create Credit Memorandum Balance	DCA_Create-CreditMem orandumBalance
T2S Dedicated Cash Ac-count Data	Create External RTGS Ac-count	DCA_CreateExternalR TGSAccount
T2S Dedicated Cash Ac-count Data	Create Limit	DCA_CreateLimit
T2S Dedicated Cash Ac-count Data	Create Liquidity Transfer Or-der	DCA_CreateLiquidityTr ansferOrder
T2S Dedicated Cash Ac-count Data	Create Liquidity Transfer Or-der Link Set	DCA_CreateLiquidityTr anOrderLinkSet
T2S Dedicated Cash Ac-count Data	Create T2S Dedicated Cash Account	DCA_Cre-ateT2SDedica tedCashAccount
T2S Dedicated Cash Ac-count Data	Delete Credit Memorandum Balance	DCA_Dele-teCreditMem orandumBalance
T2S Dedicated Cash Ac-count Data	Delete External RTGS Ac-count	DCA_DeleteExter-nalRT GSAccount

Class of Privileges	Privilege Name	Privilege Short Name
T2S Dedicated Cash Account Data	Delete Limit	DCA_DeleteLimit
T2S Dedicated Cash Account Data	Delete Liquidity Transfer Order	DCA_DeleteLiquidityTransferOrder
T2S Dedicated Cash Account Data	Delete Liquidity Transfer Order Link Set	DCA_DeleteLiquidityTranOrderLinkSet
T2S Dedicated Cash Account Data	Delete T2S Dedicated Cash Account	DCA_DeleteT2SDedicatedCashAccount
T2S Dedicated Cash Account Data	Update Credit Memorandum Balance	DCA_UpdateCreditMemorandumBalance
T2S Dedicated Cash Account Data	Update External RTGS Account	DCA_UpdateExternalRTGSAccount
T2S Dedicated Cash Account Data	Update Limit	DCA_UpdateLimit
T2S Dedicated Cash Account Data	Update Liquidity Transfer Order	DCA_UpdateLiquidityTr ansferOrder
T2S Dedicated Cash Account Data	Update Liquidity Transfer Order Link Set	DCA_UpdateLiquidityTr anOrderLinkSet
T2S Dedicated Cash Account Data	Update T2S Dedicated Cash Account	DCA_UpdateT2SDedicatedCashAccount
T2S Dedicated Cash Account Data Queries	CMB Details Query	DCQ_CMBDetailsQuery
T2S Dedicated Cash Account Data Queries	CMB List Query	DCQ_CMBListQuery
T2S Dedicated Cash Account Data Queries	External RTGS Account Details Query	DCQ_ExtRTGSAccountDetailsQuery
T2S Dedicated Cash Account Data Queries	External RTGS Account List Query	DCQ_ExtRTGSAccountListQuery
T2S Dedicated Cash Account Data Queries	Limit Query	DCQ_LimitQuery

Class of Privileges	Privilege Name	Privilege Short Name
T2S Dedicated Cash Account Data Queries	Liquidity Transfer Order Detail Query	DCQ_LiquidTransOrder DetailQuery
T2S Dedicated Cash Account Data Queries	Liquidity Transfer Order Link Set Query	DCQ_LiquidTransOrder LinkSetQuery
T2S Dedicated Cash Account Data Queries	Liquidity Transfer Order List Query	DCQ_LiquidTransOrder ListQuery
T2S Dedicated Cash Account Data Queries	T2S Dedicated Cash Account Audit Trail Query	DCQ_T2SDedicCashAccAudTrailQuery
T2S Dedicated Cash Account Data Queries	T2S Dedicated Cash Account List Query	DCQ_T2SDedicatedCa shAccListQuery
T2S Dedicated Cash Account Data Queries	T2S Dedicated Cash Account Reference Data Query	DCQ_T2SDedicCashAccReferDataQuery
T2S Dedicated Cash Account Data Queries	Total amount of standing and predefined orders Query	DCQ_TotAmountStand +PredefOrdQuery

6.4.3 Privileges for GUI Screens for CoCos

6.4.3.1 BILL - Consumption Data – Search/List Screen (Service Operator only)

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Invoice Data List Query	BIQ_CumulativeBill-DataListQuery	n/a

6.4.3.2 BILL - Consumption Data – New Screen (Service Operator only)

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Manage Billing Data	BIL_ManageBilling-Data	New/Edit mode

6.4.3.3 BILL - Invoice Data – New Screen (Service Operator only)

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Manage Billing Data	BIL_ManageBilling-Data	n/a

6.4.3.4 BILL – Invoice data – Search/list creen

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Invoice Data List Query	BIQ_CumulativeBill-DataListQuery	n/a

6.4.3.5 BILL - Invoice Data – Details screens

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Invoice Data Details Query	BIQ_CumulativeBill-DataDetailsQuery	n/a

6.4.3.6 BILL – Itemised Invoice Data - Search/List Screen

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Itemised Invoice Data List Query	BIQ_ItemisedBillDataListQuery	n/a

6.4.3.7 BILL – Itemised Invoie Data - Details Screen

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Itemised Invoice Data Details Query	BIQ_ItemisedBillDataDetailsQuery	n/a

6.4.3.8 BILL – Manual Corrections – Searc/List Screen

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Manual Correction List query	BIQ_ManualCorrectionListQuery	n/a
Invoice Data List Query	BIQ_CumulativeBillDataListQuery	Invoice Data

6.4.3.9 BILL – Manual Corrections – Details Screen

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Manual Correction Details Query	BIQ_ManualCorrectionDetailsQuery	Details mode
Manage Manual Correction	BIL_ManageManualCorrection	Add Manual Correction

6.4.3.10 BILL – Manual Corrections – New/Edit Screen

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Manage Manual Correction	BIL_ManageManualCorrection	New/Edit mode

6.4.3.11 BILL – PDF Invoice – Search/List Screen

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Manage Billing Data	BIL_ManageBillingData	n/a

6.4.3.12 BILL - Revision/Audit trail – List screen (Service Operator only)

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Manual Correction List query	BIQ_ManualCorrectionListQuery	n/a

6.4.3.13 BILL - Revision/Audit trail – Details screen (Service Operator only)

⌂ [⏵ xx]

Privilege	Privilege Code	Screen Criteria
Manual Correction Details Query	BIQ_ManualCorrectionDetailsQuery	Details mode

6.5 List of References for Error Messages

6.5.1 Reader's Guide

Reader`s Guide

This section includes a list of references for error messages for all screens, structured along GUI screens, TMS screens and LTSI screens. For GUI screens, the list of references for error messages consists of a general section, which lists overall error codes that apply to all GUI screens, and a section listing all error codes relevant for using the 4-eyes mode in GUI screens. For all sections, these are followed by specific sections for individual screens, which are organised in alphabetical screen order and specify the respective error codes applicable for each screen. Each error code table entry includes the error text and the description.

6.5.2 References for Error Messages for GUI Screens for CoCos

6.5.2.1 Manual Corrections - New/Edit Screen

⌂ [▶ XXX]

Reference for error message	Field or Button	Error Text	Description
DBC5001	Submit Row Quantity Unit Price Service Item Code	Invalid Quantity and Unit Price	In case of Manual Correction on an already existing Service Item, quantity and/or Unit Price can only be specified if their Fee Types are equal to: Fixed independent fee, Fixed fees dependent on tariff, Variable independent fee.
DBC5002	Submit Row	Manual/Template correction not allowed	Manual/Template Correction can be performed only if the relevant invoice has not been created yet, or if it has been already cancelled.
DBC5003	Submit Row Name Service Item Code	Already existing Manual correction	When performing a Manual Correction create request, only Manual Corrections with different combination of name and code are allowed.
DBC5004	Submit Row	Manual correction not allowed	Manual Correction can be performed only after the defined Correction Timeframe Date.

Reference for error message	Field or Button	Error Text	Description
DBC5005	Submit Row Party BIC Manual Correction	Propagation not executed due to an error on the CB Participant //Dynamic error including Participant BIC//.	Manual Correction propagation can be performed only if the relevant invoice has not been created yet, or it has been already cancelled.
DBC5006	Submit Row Party BIC Manual Correction	Propagation not allowed	Manual Correction propagation can be performed only after the defined Correction Timeframe Date.
DBC5007	Submit Party BIC Manual Correction	Propagation not executed due to an error on the CB Participant //Dynamic error including Participant BIC//.	Manual Correction propagation can be performed only if applicable to all selected CB Participants.