



BANQUE CENTRALE DU LUXEMBOURG
EUROSYSTÈME

Target Consolidation Training

Virtual Info session n°11 on «How do I instruct a payment in U2A»

2021-11-24

10h30 – 11h30

WEBEX EVENT



Event rules

Join Event Now

To join this event, provide the following information.

First name:

Last name:

Email address:

Event password:



6. Q&A

- Make sure you respect the naming convention
 - First name = Full name (first name + last name)
 - Last name = Bank name
 - Email = Professional email address
- Camera off by default
- Microphone off by default
- Questions allowed in the chat or by raising hand
 - In case of too many questions, send your question to Target.conso@bcl.lu
- Do not forget to lower hand after having asked a question

Agenda

0. Welcome
1. Introduction RTGS GUI
2. Example Financial Institution Credit Transfer (pacs.009)
 - 2.1 Administration – Query Task Queue
 - 2.2 Query Cash Transfers
 - 2.3 Query RTGS Cash Account Liquidity
3. Example Customer Credit Transfer (pacs.008)
4. Statement of Account (RTGS U2A Only party)
5. Annex (Fields and Buttons)



Agenda

0. Welcome

- The presentation aims to cover a test scenario of a pacs.009 and a pacs.008. and to demonstrate how the user can follow up on tasks, query for cash transfers and the settlement status and query the RTGS cash account liquidity.
- The presentation will not focus on payment return (i.e. pacs.004) which is not yet implemented for testing in U2A. We will add respective screen documentation once available.
- What is possible in U2A:

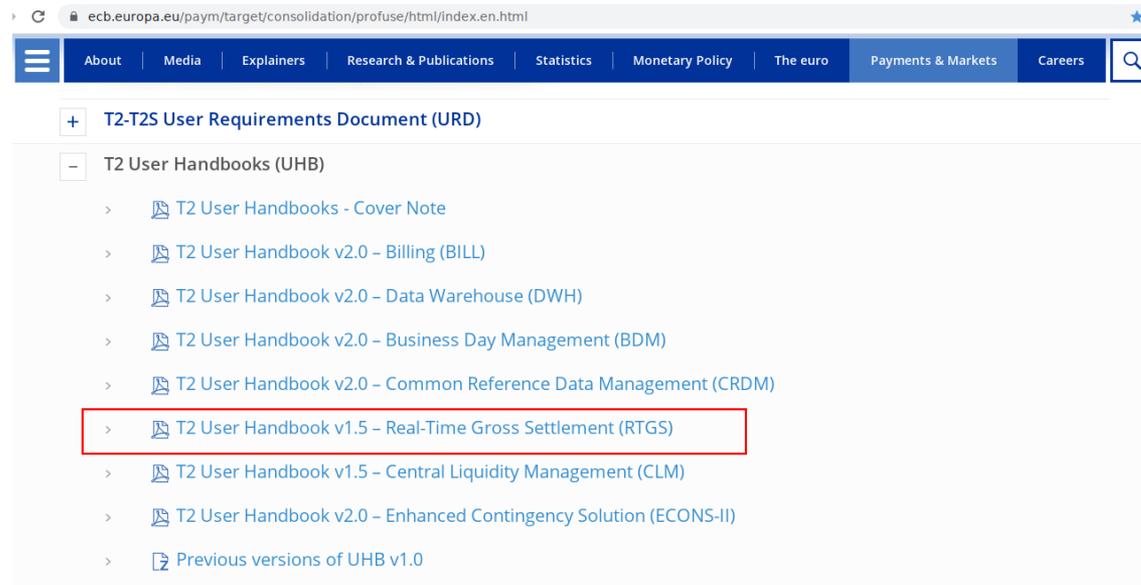
Cash transfer order	Cash transfer order type	Message Identifier	Message Name	Initiation via U2A possible
Credit transfer order for a customer payment	Customer payment	pacs.008 [761]	CustomerCreditTransfer [761]	Yes
Credit transfer order for a payment return	Interbank payment	pacs.004 [752]	PaymentReturn [752]	Yes
Credit transfer order for an interbank payment	Interbank payment	pacs.009 [787]	FinancialInstitutionCreditTransfer [787]	Yes
Direct debit order for an interbank payment	Interbank payment	pacs.010 [809]	FinancialInstitutionDirectDebit [809]	No
Liquidity transfer order	Interbank payment	camt.050 [632]	LiquidityCreditTransfer [632]	Yes
AS transfer order	AS transfer order	pain.998 [854]	ASTransferInitiation [854]	No



1. Introduction RTGS GUI

☐ Most relevant documentation

- The well-known T2-T2S consolidation for professional use page at the ECB:
<https://www.ecb.europa.eu/paym/target/consolidation/profuse/html/index.en.html>



1. Introduction RTGS GUI

□ Set-up and Login (high-level):

- The RTGS UHB includes general information about the communication network and services and the technical requirements.
- Further reference must be made to the ESMIG UDFS document and (e.g. qualified browser settings, JavaScript enabled[...]).
- Access to the GUI: users are directed to the initial ESMIG portal page (“landing page”) which ensures the proper routing to the web applications the user has been granted access to.
- Prior to the first GUI login access: “admin user” has to be created, the admin user then creates users which can access the GUI.

- In order to access a service (e.g. T2 or TIPS) and the applications/components (e.g. CRDM, RTGS, CLM /DWH ...) on the ESMIG landing page the party administrator (“admin user”) needs to configure several elements (in CRDM):
 - System user with login name and system user reference.
 - Distinguished Name (DN) corresponding to the certificate uploaded on the token.
 - Create link between the created user and the created DN – used to connect to ESMIG.
 - Grant the user with the roles and privileges for the services and applications/components he needs to have access to.

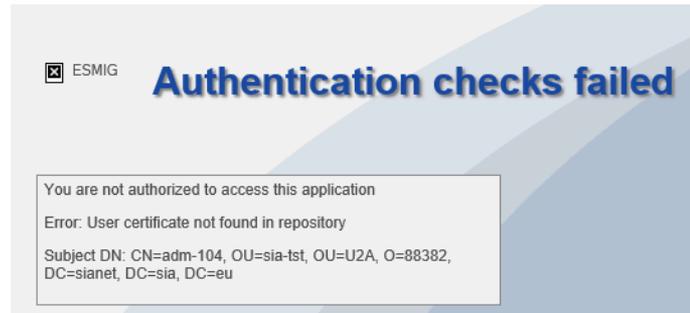
- Only registered users have access to the RTGS GUI.

1. Introduction RTGS GUI

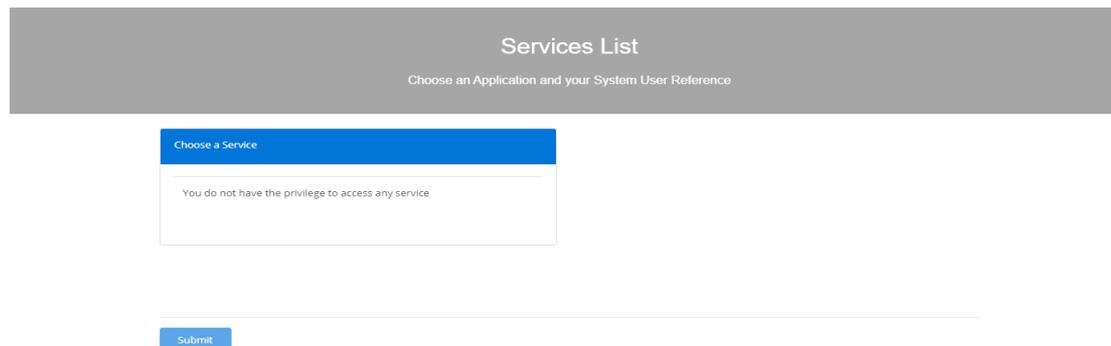
❑ Access to the GUI

- If the access to the service/ applications is **not properly configured** the following messages might return:

- Example potential issue with the user and DN set-up (no access to ESMIG):



- Example potential issue with the roles and privileges: user can connect to ESMIG but no service/application can be selected:



1. Introduction RTGS GUI

☐ Access to the GUI

- Users are directed to the initial ESMIG portal page (“landing page”) which ensures the proper routing to the web applications the user has been granted access to.



Choose a Service

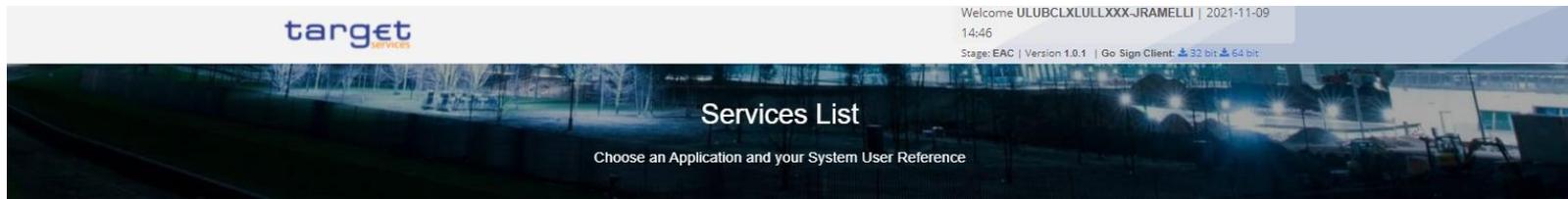
T2 TIPS

Submit

1. Introduction RTGS GUI

□ Access to the GUI

- User to select the service, component/application and system user (“your system user ID”).
- Press submit and reach the welcome page of the GUI.



Choose a Service

<input type="checkbox"/> TIPS	<input checked="" type="checkbox"/> T2
-------------------------------	--

Choose Component or Application

<input type="checkbox"/> CRDM
<input type="checkbox"/> Data Migration Tool
<input type="checkbox"/> Data Warehouse
<input checked="" type="checkbox"/> RTGS
<input type="checkbox"/> Trouble Management System

Choose a System User

Search for user...

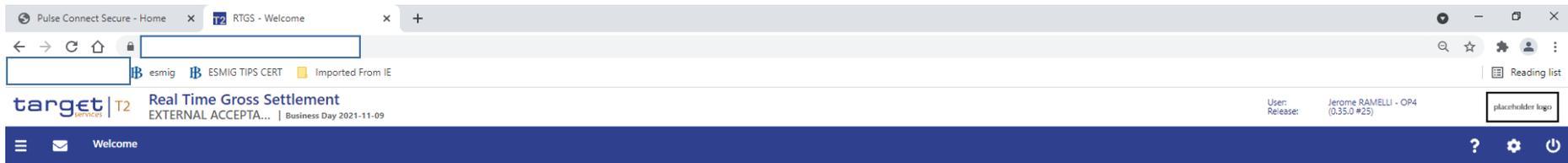
<input checked="" type="checkbox"/> ULUBCLXLULLXXX-jramelli

Submit

1. Introduction RTGS GUI

□ Access to the GUI

➤ Welcome page RTGS



Welcome

1. Introduction RTGS GUI

❑ Example of payments in this presentation

- Financial Institution Credit Transfer (**pacs.009**) BCL to BCEE to fund BCL account held with BCEE, EUR 1,500.00 on value date 10/11/2021.
- Customer Credit Transfer (**pacs.008**) BCL to settle own invoice with a supplier “ABC Bancaire Luxembourg S.A.” having its account at DBSALULLXXX held with BCEE, EUR 4,380.00 on value date 28/10/2021.

2. Example Financial Institution Credit Transfer (pacs.009)

- [Screen access: Cash transfers and messages >> Financial Institution Credit Transfer – New screen](#)
- On the left hand menu open cash transfers and messages and select “New Financial Institution Credit Transfer” in order to reach the new screen.

target services | T2 Real Time Gross Settlement
EXTERNAL ACCEPTA... | Business Day 2021-10-11

User: TEST User-2 OP4 (0.35.0 #19)

placeholder logo

Welcome

Cash Transfers and Messages	▶	Query Cash Transfers
Liquidity	▶	Query Messages
Liquidity Management Features	▶	Query Business Cases
Ancillary System	▶	Query Account Postings
Reference Data	▶	New Customer Credit Transfer
Administration	▶	New Financial Institution Credit Transfer
Monitoring	▶	New Payment Return
		Upload A2A File or Message

2. Example Financial Institution Credit Transfer (pacs.009)

- Screen access: Cash transfers and messages >> Financial Institution Credit Transfer – New screen

target | T2 Real Time Gross Settlement
EXTERNAL ACCEPTA... | Business Day 2021-10-11

User: TEST User-2 OP4
Release: (0.35.0 #19)

placeholder logo

New Financial Institution Credit Transfer

- + Business Application Header*
- Financial Institution Credit Transfer*
 - Credit Transfer Transaction Information*
 - + Instructing Agent*
 - + Debtor*
 - + Debtor Agent
 - + Instructed Agent*
 - + Creditor*
 - + Creditor Agent
 - + Interbank Settlement*
 - + Payment ID*
 - + Settlement Time Request
 - + Payment Type Information
 - + Remittance Information
 - + Previous Instructing Agents
 - + Intermediary Agents

Submit Reset Display Errors Collapse All Expand All

- This screen offers the possibility to enter a new financial institution credit transfer (FICT)
- FICT may be entered by the following entities:
 - RTGS Account Holder
 - Multi-addressee
 - Central bank
- This screen consists of several sections that contain fields the user can fill. By default, all sections are closed.
- The GUI indicates which fields are mandatory when the user starts to enter information in a specific input field. An asterisk (*) in the title cell indicates a mandatory section.

2. Example Financial Institution Credit Transfer (pacs.009)

Business Application Header

target services T2 Real Time Gross Settlement EXTERNAL ACCEPTA... Business Day 2021-11-10

User: Jerome RAMELLI - OP4
Release: (0.35.0 #25)

placeholder logo

New Financial Institution Credit Transfer

Business Application Header*

From*

BICFI* BCLXLULLXX

To*

BICFI* BCEELULLXX

Business Message ID (Generated)

Financial Institution Credit Transfer*

Credit Transfer Transaction Information*

- + Instructing Agent*
- + Debtor*
- + Debtor Agent
- + Instructed Agent*
- + Creditor*
- + Creditor Agent
- + Interbank Settlement*
- + Payment ID*
- + Settlement Time Request
- + Payment Type Information

Submit Reset Display Errors Collapse All Expand All

(*) From BICFI:
This field shows for payment orders sent by the party itself: Addressee BIC of the account given in the 'Instructing Agent' element in the payload.

(*) To BICFI:
User to enter the corresponding BIC to which the payment is sent.

2. Example Financial Institution Credit Transfer (pacs.009)

□ Instructing Agent, Debtor ID, Debtor Account ID

FinancialInstitution Credit Transfer*

[-] Credit Transfer Transaction Information*

[-] Instructing Agent*

BICFI* LEI

[-] Debtor*

[-] Debtor ID*

BICFI LEI

Clearing System ID Code Clearing System ID Code

Name

+ Postal Address

[-] Debtor Account ID

IBAN

Other ID

[-] Additional Account Information

Cash Account Type Code

Currency (Code)

Name

(*) Instructing Agent / BICFI:
User to enter the BIC of the instructing agent, i.e. the BIC of the account to be debited.

(*) Debtor ID / BICFI:
User to enter the BIC of the debtor.

Debtor Account ID / Other ID:
Possibility to enter identification for the debtor account, this field and the field "IBAN" are mutually exclusive.
BCL used its RTGS a/c no.

2. Example Financial Institution Credit Transfer (pacs.009)

☐ Instructed Agent, Creditor ID, Creditor Account ID

The image shows a form for a Financial Institution Credit Transfer (pacs.009) with three main sections: Instructed Agent, Creditor, and Creditor Account ID. Each section has a minus sign icon to its left. The Instructed Agent section has a BICFI field containing 'BCEELULLXXX' and an empty LEI field. The Creditor section has a BICFI field containing 'BCLXLULLXXX', an empty LEI field, and empty fields for Clearing System ID Code, Clearing System, and Name. Below this is a plus sign icon and the text 'Postal Address'. The Creditor Account ID section has an IBAN field containing 'LU18XXXXXXXX' and an empty Other ID field. Three blue callout boxes with white text and orange arrows point to the BICFI and LEI fields in the Instructed Agent and Creditor sections, and the IBAN field in the Creditor Account ID section.

(*) Instructed Agent / BICFI:
User to enter the BIC of the account to be credited in RTGS.

(*) Creditor ID / BICFI:
User to enter the BIC of the creditor.

Creditor Account ID / IBAN:
User can enter the IBAN of the creditor account.

2. Example Financial Institution Credit Transfer (pacs.009)

□ Interbank Settlement Amount, Interbank Settlement Date, Settlement Priority

— Interbank Settlement*

Interbank Settlement Amount*

1,500 EUR

Interbank Settlement Date*

2021-11-10

Settlement Priority

NORM

(* Interbank Settlement Amount:
User to enter the amount to be transferred between the instructing agent and the instructed agent.

(* Interbank Settlement Date:
User to enter the date on which the settlement is to take place. Date can be set for the current business day and up to 10 calendar days in advance. The payment order will be rejected if the specified settlement date is on a weekend or an RTGS holiday. User can enter the date manually or by clicking on the calendar button.

Settlement Priority: Possibility to select the priority for the processing of the settlement with possible values:
"NORM"
"HIGH"
"URGT"
Default value is "Norm".

2. Example Financial Institution Credit Transfer (pacs.009)

☐ Instruction ID, End-to-end ID, UETR

Payment ID*

Instruction ID*

PAY-7-200-00007809668

End To End ID*

WT Cover Acct

UETR (Generated)

(*) Payment ID / Instruction ID:
User to enter the unique identification as assigned by an instructing party to identify the instruction. Point to point reference between the instructing party and the instructed party. Up to 35 characters.

(*) End to end ID: User initiating party to enter the end-to-end identification.
This identification is passed on, unchanged, throughout the entire end-to-end chain. It can be used for reconciliation.
If no end-to-end identification was provided by the debtor, it is recommended to fill this field with 'NOTPROVIDED'. Default value: 'NOTPROVIDED'.
Up to 35 characters.

Possibility to enter a unique end-to-end reference of the payment transaction.
If the user does not fill this field, a random UETR is generated when the message is submitted.

2. Example Financial Institution Credit Transfer (pacs.009)

- ❑ Submit payment (all fields must be completed).

The screenshot shows a payment form with several fields. The 'End To End ID*' field is highlighted with a red border and contains a red error icon (a circle with an exclamation mark) and a vertical line, indicating that this mandatory field is not completed. Other fields like 'Instruction ID*' and 'UETR (Generated)' are filled with text. Below the form are several expandable sections: Settlement Time Request, Payment Type Information, Remittance Information, Previous Instructing Agents, and Intermediary Agents.

The screenshot shows the same payment form as the previous one, but now all mandatory fields are completed. The 'End To End ID*' field is no longer highlighted with a red border. The 'Submit' button is now active and highlighted with a green box.

As long as not all of the mandatory fields are completed, the «submit» button won't allow the user to submit the transaction.

When all mandatory fields are completed the user can submit the transaction.



2. Example Financial Institution Credit Transfer (pacs.009)

☐ Submit payment (operation successful)

The screenshot displays the Target T2 Real Time Gross Settlement interface. At the top, the header includes the Target T2 logo, the text "Real Time Gross Settlement EXTERNAL ACCEPTA...", and the date "Business Day 2021-11-10". On the right, it shows "User: Release: Jerome RAMELLI - OP4 (0.35.0 #25)" and a "placeholder logo". The main navigation bar is dark blue with a white envelope icon and the text "New Financial Institution Credit Transfer". Below this, a green notification box states "Operation Successful" and "The created New Financial Institution Credit Transfer Task can be found here: 14726". The main content area features a dark blue header with the Target T2 logo and "Real Time Gross Settlement EXTERNAL ACCEPTA... | Business Day 2021-11-10". Below this is another dark blue bar with a white envelope icon and "New Financial Institution Credit Transfer". The central part of the screen shows a green notification box with the text "Operation Successful" and "The created New Financial Institution Credit Transfer Task can be found here: 14726". A red box highlights the number "14726", and a red arrow points from it to a blue box labeled "Task ID". On the left side, there is a list of expandable sections: "Business Application Header*", "FinancialInstitution Credit Transfer*", "Credit Transfer Transaction Information*", "Instructing Agent*", "Debtor*", "Debtor Agent", "Instructed Agent*", "Creditor*", "Creditor Agent", "Interbank Settlement*", "Payment ID*", "Settlement Time Request", "Payment Type Information", "Remittance Information", "Previous Instructing Agents", and "Intermediary Agents".

* 2 eyes principle in our current set-up for central banktesting

2. Example Financial Institution Credit Transfer (pacs.009)

❑ Submit payment (operation not successful)

➤ Example of a payment order sent for same value date, but after the cut-off time.

target | T2 Real Time Gross Settlement
services | EXTERNAL ACCEPTA... | Business Day 2021-10-12

☰ ✉ New Financial Institution Credit Transfer

Operation Failed
E018: Message / U2A action outside allowed acceptance time frame

Business Application Header*

➤ The RTGS UHB includes Annex “References for Error Messages for GUI Screens” with more detailed description:

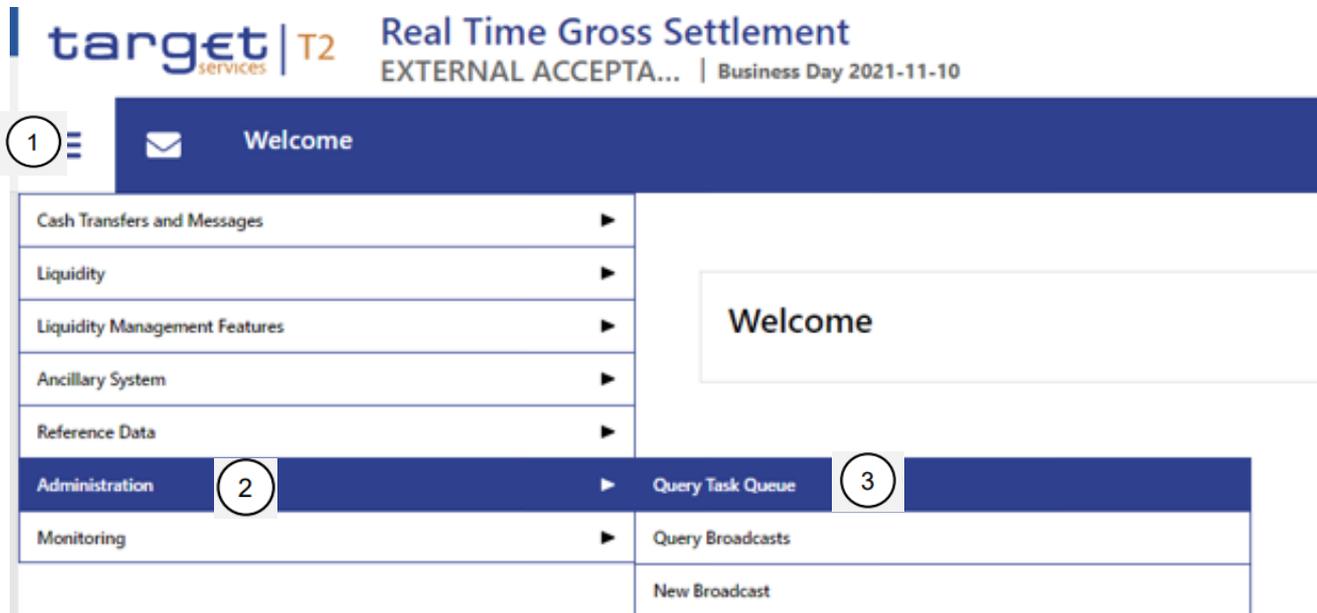
Reference for error message	Field or button	Error text	Description
E018	Submit Button	Message / U2A action outside allowed acceptance time frame	Instructions and queries are only accepted in an appropriate business day phase and till the respective cut-off time (if relevant) according to the use case and the currency of the business sending/entering user.

2.1 Administration – Query Task Queue

Administration – Query Task Queue



- 1 click on the menu button
- 2 select the main menu entry «Administration»
- 3 click on the sub-menu entry «Query Task Queue»



2.1 Administration – Query Task Queue

Administration – Query Task Queue

The screenshot shows the 'Query Task Queue' interface in a browser. The page title is 'RTGS - Query Task Queue - Google Chrome'. The header includes the 'target services T2' logo, 'Real Time Gross Settlement EXTERNAL ACCEPTA...', and 'Business Day 2021-11-12'. The user information is 'User: Jerome RAMELLI - OP4 (0.35.0 #25)'. The main content area is titled 'Query Task Queue' and contains a 'Search Criteria' section. Under 'General', there are four numbered callouts: 1 points to the 'Task ID' input field; 2 points to the 'Task Type' dropdown menu, which is open and shows options like 'Enter Payment' (checked); 3 points to the 'Status' dropdown menu, which is open and shows options like 'Completed', 'Confirmed', etc.; 4 points to the 'Submit' button at the bottom left. There are also 'Amount' and 'Reset' fields and buttons.

- 1 possibility to search by the relevant task ID (e.g.14726).
- 2 possibility to select «task type» (e.g. »enter payment«).
- 3 possibility to enter further search criteria «amount» and/or «status» (e.g. to confirm).
- 4 press submit.

If no output parameters are specified the result list will be sorted by «entry timestamp» in descending order.

2.1 Administration – Query Task Queue

Administration – Query Task Queue -> List of task queue

Task ID	Business Case ID	Entry Timestamp	Task Type	Attribute	Amount	Old Value	New Value	Status	Initial User	Second User
14735	81198	2021-11-10 16:33:29 CET	Enter Payment	pac.009	35,000.00 EUR			Confirmed	BCEAdmin	BCEAdmin
14726	81187	2021-11-10 15:53:16 CET	Enter Payment	pac.009	1,500.00 EUR			Completed	Jerome RAMELLI - OP4	Jerome RAMELLI - OP4
14717	81151	2021-11-10 15:22:26 CET	Enter Payment	pac.009	2,222.00 EUR			Completed	Jerome RAMELLI - OP4	Jerome RAMELLI - OP4
14716	81150	2021-11-10 15:19:31 CET	Enter Payment	pac.009	36.00 EUR			Completed	BCEAdmin	BCEAdmin

target services | T2 Real Time Gross Settlement
EXTERNAL ACCEPTA... | Business Day 2021-11-10

User: Jerome RAMELLI - OP4
Release: (0.35.0 #25)

Task ID	Business Case ID	Entry Timestamp	Task Type	Attribute	Amount	Old Value	New Value	Status	Initial User	Second User
14735	81198	2021-11-10 16:33:29 CET	Enter Payment	pac.009	35,000.00 EUR			Confirmed	BCEAdmin	BCEAdmin
14726	81187	2021-11-10 15:53:16 CET	Enter Payment	pac.009	1,500.00 EUR			Completed	Jerome RAMELLI - OP4	Jerome RAMELLI - OP4

the pac.009 with task ID 14726 shows status «completed».
*test set-up in 2 eyes mode.

2.1 Administration – Query Task Queue

- ❑ Administration – Query Task Queue -> confirmation of 4-eyes task entries
 - In 4-eyes mode the first user enters, changes or deletes the data and afterwards submits the action by clicking on the “submit” button.
 - The success notification appearing after successful validation includes a task ID.
 - For the final execution, a second user is needed to confirm the action in the Task Queue – Details screen (4-eyes mode).
 - **We will provide you with relevant screens after the session once we executed test cases in 4 eyes mode.**

2.2 Query Cash Transfers

☐ Query Cash Transfers Menu

- 1 click on the menu button
- 2 select the main menu entry «cash transfers and messages»
- 3 click on the sub-menu entry «query cash transfers»

☰ Welcome	
Cash Transfers and Messages ▶	Query Cash Transfers
Liquidity ▶	Query Messages
Liquidity Management Features ▶	Query Business Cases
Ancillary System ▶	Query Account Postings
Reference Data ▶	New Customer Credit Transfer
Administration ▶	New Financial Institution Credit Transfer

2.2 Query Cash Transfers

Query Cash Transfers – Search Criteria

Possibility to search by various criterion: example

- 1 possibility to select by credits, debits or both.
- 2 possibility to search by cash transfer status (e.g. «settled»).

3 press submit.

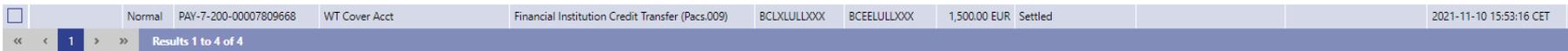
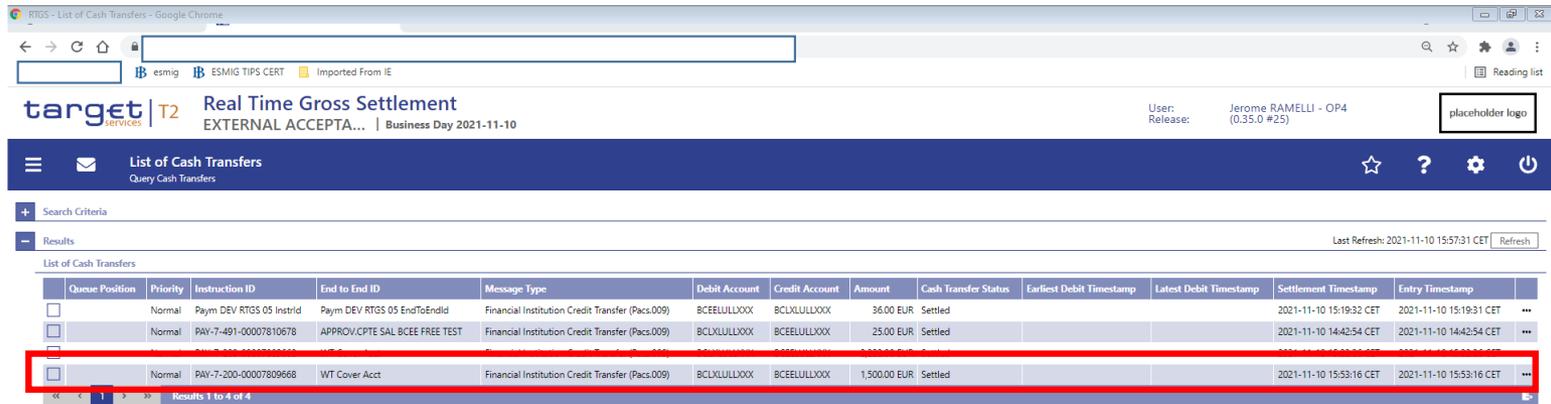
If no output parameters are specified, the result list will be sorted by 'Priority' in ascending order.

3

Submit Reset

2.2 Query Cash Transfers

Query Cash Transfers – List of Cash Transfers



- The Cash Transfers – list screen opens and showing all cash transfers matching the entered search criteria.
- In this example we see the transfer of EUR 1,500.00 from BCL to BCEE as settled.

2.2 Query Cash Transfers

Query Cash Transfers – List of Cash Transfers - Details

target | T2 Real Time Gross Settlement
EXTERNAL ACCEPTA... | Business Day 2021-11-10

User: Jerome RAMELLI - OP4
Release: (0.35.0 #25)

List of Cash Transfers
Query Cash Transfers

Search Criteria

Results

List of Cash Transfers

Queue Position	Priority	Instruction ID	End to End ID	Message Type	Debit Account	Credit Account	Amount	Cash Transfer Status	Earliest Debit Timestamp	Latest Debit Timestamp	Settlement Timestamp	Entry Timestamp	
<input type="checkbox"/>	Normal	Paym DEV RTGS 05 InstrId	Paym DEV RTGS 05 EndToEndId	Financial Institution Credit Transfer (Pacs.009)	BCEELULLXXX	BCLXULLXXX	36.00 EUR	Settled			2021-11-10 15:19:32 CET	2021-11-10 15:19:31 CET	...
<input type="checkbox"/>	Normal	PAV-7-491-00007810678	APPROV/CPTTE SAL BCEE FREE TEST	Financial Institution Credit Transfer (Pacs.009)	BCLXULLXXX	BCEELULLXXX	25.00 EUR	Settled			2021-11-10 14:42:54 CET	2021-11-10 14:42:54 CET	...
<input type="checkbox"/>	Normal	PAV-7-200-00007809668	WT Cover Acct	Financial Institution Credit Transfer (Pacs.009)	BCLXULLXXX	BCEELULLXXX	2,222.00 EUR	Settled			2021-11-10 15:22:26 CET	2021-11-10 15:22:26 CET	...
<input checked="" type="checkbox"/>	Normal	PAV-7-200-00007809668	WT Cover Acct	Financial Institution Credit Transfer (Pacs.009)	BCLXULLXXX	BCEELULLXXX	1,500.00 EUR	Settled			2021-11-10 15:22:26 CET	2021-11-10 15:22:26 CET	...

Results 1 to 4 of 4

User: Jerome RAMELLI - OP4
Release: (0.35.0 #25)

placeholder logo

Details

- Cash Account Reference Data of Credit Account
- Cash Account Reference Data of Debit Account
- Display Message

Note the **...** (= context menu) on the right hand side of the screen.

In order to view details of the specific cash transfer, right-click on the cash transfer and select the context menu entry «Details».

- The «Cash Transfers – Details Screen» opens (next slide).
- Detailed information with regard to the selected cash transfer is displayed.

2.2 Query Cash Transfers

☐ Cash Transfers – Details Screen

Details of Cash Transfer
Query Cash Transfers > List of Cash Transfers

Corresponding Cash Transfer

Queue Position	Priority	Instruction ID	End to End ID	Message Type	Debit Account	Credit Account	Amount	Cash Transfer Status	Earliest Debit Timestamp	Latest Debit Timestamp
	Normal	PAY-7-200-00007809668	WT Cover Acct	Financial Institution Credit Transfer (Pacs.009)	BCLXLULLXXX	BCEELULLXXX	1,500.00 EUR	Settled		

General

Queue Position	Priority	Amount
	Normal	1,500.00 EUR
Cash Transfer Status	Cash Transfer Type	Message Type
Settled	Payment	Financial Institution Credit Transfer (Pacs.009)

Account and Party Information

Debit Account	Debit Account Type	Credit Account
BCLXLULLXXX	RTGS CB Account	BCEELULLXXX
From BIC (BAH)	To BIC (BAH)	
BCLXLULLXXX	BCEELULLXXX	

Identifier

Instruction ID	End to End ID	Business Case ID
PAY-7-200-00007809668	WT Cover Acct	81187
UETR	Original UETR	AS Batch Message Reference
2c47d274-c986-4a98-883d-b64682159e1b		

Timing

Earliest Debit Timestamp	Latest Debit Timestamp	Settlement Timestamp
		2021-11-10 15:53:16 CET

2.2 Query Cash Transfers

List of Cash Transfers – Cash Account Reference Data

The screenshot shows a web browser window displaying a 'List of Cash Transfers' page. The page header includes 'target T2 Real Time Gross Settlement EXTERNAL ACCEPTA...' and 'Business Day 2021-11-10'. The user is identified as 'Jerome RAMELLI - OP4 (0.35.0 #25)'. The main content area shows a table of cash transfers with columns for Queue Position, Priority, Instruction ID, End to End ID, Message Type, Debit Account, Credit Account, Amount, Cash Transfer Status, Earliest Debit Timestamp, Latest Debit Timestamp, Settlement Timestamp, and Entry Timestamp. A context menu is open over the third row, with the option 'Cash Account Reference Data of Debit Account' highlighted in red.

Queue Position	Priority	Instruction ID	End to End ID	Message Type	Debit Account	Credit Account	Amount	Cash Transfer Status	Earliest Debit Timestamp	Latest Debit Timestamp	Settlement Timestamp	Entry Timestamp	
<input type="checkbox"/>	Normal	Paym DEV RTGS 05 Instrid	Paym DEV RTGS 05 EndToEndId	Financial Institution Credit Transfer (Pacs.009)	BCEELULLXXX	BCLXLULLXXX	36.00 EUR	Settled			2021-11-10 15:19:32 CET	2021-11-10 15:19:31 CET	...
<input type="checkbox"/>	Normal	PAW-7-491-00007810678	APPROV.CPTE SAL BCEE FREE TEST	Financial Institution Credit Transfer (Pacs.009)	BCLXLULLXXX	BCEELULLXXX	25.00 EUR	Settled			2021-11-10 14:42:54 CET	2021-11-10 14:42:54 CET	...
<input checked="" type="checkbox"/>	Normal	PAW-7-200-00007809668	WT Cover Acct	Financial Institution Credit Transfer (Pacs.009)	BCLXLULLXXX	BCEELULLXXX	2,222.00 EUR	Settled			2021-11-10 15:22:26 CET	2021-11-10 15:22:26 CET	...
<input checked="" type="checkbox"/>	Normal	PAW-7-200-00007809668	WT Cover Acct	Financial Institution Credit Transfer (Pacs.009)	BCLXLULLXXX	BCEELULLXXX	1,500.00 EUR	Settled			2021-11-10 15:53:16 CET	2021-11-10 15:53:16 CET	...

Note the **...** (= context menu) on the right hand side of the screen.
In order to view details of the cash account, right-click on the cash transfer and select the context menu entry (e.g.) «Cash account reference data of debit account».
➤ The «cash account reference data of debit account» (next slide).

This image is a close-up of the context menu that appears when right-clicking on a row in the cash transfers table. The menu items are: 'Details', 'Cash Account Reference Data of Credit Account', 'Cash Account Reference Data of Debit Account' (highlighted with a red box), and 'Display Message'. The 'Cash Account Reference Data of Debit Account' option is the one intended for the next slide.

2.2 Query Cash Transfers

☐ Cash Transfers – Cash Account Reference Data

target | T2 **Real Time Gross Settlement**
EXTERNAL ACCEPTA... | Business Day 2021-11-10

List of Cash Account Reference Data
Query Cash Transfers > List of Cash Transfers

+ Search Criteria

- Results

List of Cash Account Reference Data

Blocking Status	Party BIC	Party Long Name	Account BIC	Account Number	Account Type	Default MCA	Link
Not Blocked	BCLXLULLXXX	BANQUE CENTRALE DU LUXEMBOURG	BCLXLULLXXX	RLUEURBCLXLULLXXXB00000BCLXLULLXXX	RTGS CB Account	No	
Not Blocked	BCLXLULLXXX	BANQUE CENTRALE DU LUXEMBOURG	BCLXLULLXXX	MLUEURBCLXLULLXXXB00000BCLXLULLXXX	CLM CB Account	Yes	

<< < 1 > >> Results 1 to 2 of 2

- The List of Cash Account Reference Data within the data scope of the user is shown.
- Reference data defined within CLM and RTGS is visible across both components.

2.2 Query Cash Transfers

☐ List of Cash Transfers: queued payment: screen example

- We assume current balance of the BCEE RTGS DCA is: EUR 21,967.24
- If we now process a financial institution credit transfer (pacs.009) from BCEE to BCL amounting EUR 35,000.00 we expect this payment “queued”.

target services | T2 Real Time Gross Settlement
EXTERNAL ACCEPTA... | Business Day 2021-11-10

User: BCEEadmin
Release: (0.35.0 #25)

placeholder k

☰ ☐ List of Cash Transfers
Query Cash Transfers

+ Search Criteria

- Results

List of Cash Transfers

Last Refresh: 2021-11-10 16:33:37 CET

Queue Position	Priority	Instruction ID	End to End ID	Message Type	Debit Account	Credit Account	Amount	Cash Transfer Status	Earliest Debit Timestamp	Latest Debit Timestamp	Settlement Timestamp	Entry Timestamp
4	Normal	123456	NOTPROVIDED	Financial Institution Credit Transfer (Pacs.009)	BCEELULLXXX	BCLXLULLXXX	35,000.00 EUR	Queued				2021-11-10 16:33:29 CET
	Normal	Paym DEV RTGS 05 InstrId	Paym DEV RTGS 05 EndToEndId	Financial Institution Credit Transfer (Pacs.009)	BCEELULLXXX	BCLXLULLXXX	36.00 EUR	Settled			2021-11-10 15:19:32 CET	2021-11-10 15:19:31 CET

Debit Account	Credit Account	Amount	Cash Transfer Status	Earliest Debit Timestamp	Latest Debit Timestamp	Settlement Timestamp
BCEELULLXXX	BCLXLULLXXX	35,000.00 EUR	Queued			

- A cash transfer in status «queued»:
 - could still be revoked.
 - modifying the priority is possible.

2.2 Query Cash Transfers

List of Cash Transfers: warehoused payment: screen example

Queue Position	Priority	Instruction ID	End to End ID	Message Type	Debit Account	Credit Account	Amount	Cash Transfer Status	Earliest Debit Timestamp	Latest Debit Timestamp	Settlement Timestamp	Entry Timestamp	
<input type="checkbox"/>	Normal	TestInstrD34641	TestE2EID34641	Customer Credit Transfer (Pacs.008)	PBLIMCDF001	PBLIMGEF01A	100,000.00 EUR	Settled			2020-06-10 11:11:56 CEST	2020-06-10 11:10:56 CEST	...
<input type="checkbox"/>	Normal	TestInstrD46037	TestE2EID46037	Financial Institution Credit Transfer (Pacs.009)	PBLIMCDF001	PBLIMGEF01A	2,100,000.00 EUR	Settled			2020-06-10 11:42:17 CEST	2020-06-10 11:41:32 CEST	...
<input type="checkbox"/>	Normal	TestInstrD34638	TestE2EID34638	Customer Credit Transfer (Pacs.008)	PBLIMCDF003	PBLIMGEF01A	60,000.00 EUR	Settled			2020-06-10 11:11:53 CEST	2020-06-10 11:10:53 CEST	...
<input type="checkbox"/>	Normal	TestInstrD10016	TestE2EID10016	Financial Institution Direct Debit (Pacs.010)	PBLIMCDF01B	PBLIMGEF01A	125,000.00 EUR	Settled			2020-06-10 10:19:03 CEST	2020-06-10 10:18:32 CEST	...
<input type="checkbox"/>	Normal	TestInstrD46038	TestE2EID46038	Financial Institution Credit Transfer (Pacs.009)	PBLIMCDF01B	PBLIMGEF01A	2,200,000.00 EUR	Warehoused				2020-06-10 11:41:33 CEST	...

- A cash transfer in status «warehoused»
 - could still be revoked.
 - Modifying the earliest debit timestamp is possible for cash transfer orders with the status 'warehoused' including an earliest debit timestamp.
 - Modifying the latest debit timestamp is possible for cash transfer orders with the status 'warehoused' including a latest debit timestamp.
 - Modifying the priority is possible.

2.3 Query RTGS Cash Account Liquidity

❑ Query RTGS Cash Account Liquidity

- In the following example we will query the RTGS cash account liquidity from BCEE point of view (we simulate a login as BCEE user).
- Display the liquidity of an account by considering posted cash transfers and pending cash transfers to provide
 - a liquidity projection of the account
 - current balance of the account

1 click on the menu button

2 select the main menu entry «liquidity»

3 click on the sub-menu entry «query RTGS cash account liquidity»

4 the search screen opens

Query RTGS Cash Account Liquidity

Search Criteria

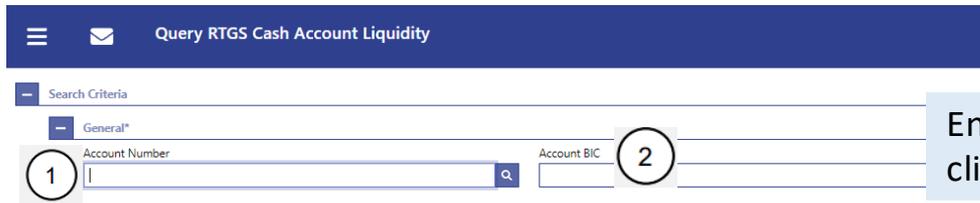
General*

Account Number

Account BIC

2.3 Query RTGS Cash Account Liquidity

Query RTGS Cash Account Liquidity – Search Criteria

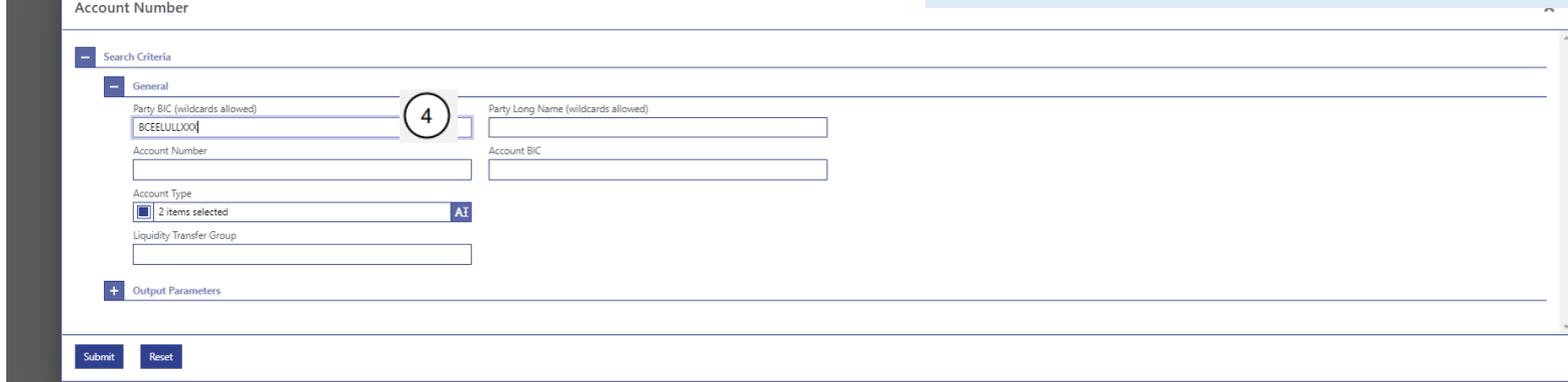


Enter the account number (1) or the account BIC (2) and click on submit on the bottom of the page



User can also make use of the search functions (3)

An additional search screen opens:
➤ user could search by party BIC (e.g. BCEELULLXXX) (4)
➤ press submit.



2.3 Query RTGS Cash Account Liquidity

- Display RTGS Cash Account Liquidity
- Because the entered account information corresponds to the RTGS DCA, the “RTGS cash account liquidity – display screen” opens.

The screenshot shows a web browser window displaying the 'RTGS - Display RTGS Cash Account Liquidity' application. The page header includes the 'target' logo, 'Real Time Gross Settlement EXTERNAL ACCEPTA...', and the date 'Business Day 2021-11-10'. The user is identified as 'BCEEAdmin (0.35.0 #25)'. The main content area is titled 'Display RTGS Cash Account Liquidity' and shows a search criteria section with 'Results' displayed. The data is organized into several sections:

- Account Information:** Party BIC (BCEELULLXXX), Party Name (BCEE), Account Number (RLLEURBCEEULULLXXX800001RTGSACBCEE), and Account BIC (BCEELULLXXX).
- Liquidity Information:**
 - Starting Balance:** 18,256.24 EUR
 - Settled Cash Transfers:** Settled Debit Liquidity Transfers (0.00 EUR), Settled Credit Liquidity Transfers (0.00 EUR), Settled Debit Payments and AS Transfers (36.00 EUR), Settled Credit Payments and AS Transfers (3,747.00 EUR).
 - Current Balance:** 21,967.24 EUR
- Queued Cash Transfers:** Queued Debit Liquidity Transfers (0.00 EUR), Queued Debit Payments and AS Transfers (0.00 EUR), Queued Credit Payments and AS Transfers (0.00 EUR).
- Earmarked Cash Transfers:** Earmarked Debit Cash Transfers (0.00 EUR), Earmarked Credit Cash Transfers (0.00 EUR).
- Projected Liquidity:** 21,967.24 EUR
- Reservations:** Urgent (0.00 EUR), High (0.00 EUR).
- Pending Reservations:** Urgent (0.00 EUR), High (0.00 EUR).
- Floor/Ceiling Information:** Floor Threshold (0.00 EUR), Ceiling Threshold (0.00 EUR).

Total Liquidity: RTGS DCA Liquidity (21,967.24 EUR), Total Sub-Account Liquidity (0.00 EUR), Total RTGS Liquidity (21,967.24 EUR).

Sub-Account(s): No Entries found.

2.3 Query RTGS Cash Account Liquidity

□ Display RTGS Cash Account Liquidity

target | T2 Real Time Gross Settlement
EXTERNAL ACCEPTA... | Business Day 2021-11-10

☰ **Display RTGS Cash Account Liquidity**
Query RTGS Cash Account Liquidity

+ Search Criteria

- Results

Account Information

Party BIC	Party Name
BCEELULLXXX	BCEE

Liquidity Information

Starting Balance	18,256.24 EUR
Settled Cash Transfers	
▶ Settled Debit Liquidity Transfers	0.00 EUR
▶ Settled Credit Liquidity Transfers	0.00 EUR
▶ Settled Debit Payments and AS Transfers	36.00 EUR
▶ Settled Credit Payments and AS Transfers	3,747.00 EUR
Current Balance	21,967.24 EUR
Queued Cash Transfers	
▶ Queued Debit Liquidity Transfers	
▶ Queued Debit Payments and AS Transfers	
▶ Queued Credit Payments and AS Transfers	
Earmarked Cash Transfers	
▶ Earmarked Debit Cash Transfers	
▶ Earmarked Credit Cash Transfers	
Projected Liquidity	
Reservations	

Row «Settled credit payments and AS transfers»

- ▶ this row shows the total amount value
- ▶ arrow icon offers the possibility to display a list of the settled credit payments and AS transfers.
- ▶ By clicking on the arrow icon , the «Cash Transfers – List Screen» opens.

Row «current balance»: starting balance plus settled cash transfer orders.

2.3 Query RTGS Cash Account Liquidity

❑ Display RTGS Cash Account Liquidity / List of Cash Transfers.

- We see the 3 individual transfers that made up the EUR 3,747.00 (settled credit payments) as shown on previous slide.
- The payment of EUR 1,500.00 from BCL to BCEE is included.

Queue Position	Priority	Instruction ID	End to End ID	Message Type	Debit Account	Credit Account	Amount	Cash Transfer Status	Earliest Debit Timestamp	Latest Debit Timestamp	Settlement Timestamp	Entry Timestamp
	Normal	PAY-7-491-00007810678	APPROV/CPT SAL BCEE FREE TEST	Financial Institution Credit Transfer (Pacs.009)	BCLXLULLXXX	BCEEULLXXX	25.00 EUR	Settled			2021-11-10 14:42:54 CET	2021-11-10 14:42:54 CET
	Normal	PAY-7-200-00007809668	WT Cover Acct	Financial Institution Credit Transfer (Pacs.009)	BCLXLULLXXX	BCEEULLXXX	2,222.00 EUR	Settled			2021-11-10 15:22:26 CET	2021-11-10 15:22:26 CET
	Normal	PAY-7-200-00007809668	WT Cover Acct	Financial Institution Credit Transfer (Pacs.009)	BCLXLULLXXX	BCEEULLXXX	1,500.00 EUR	Settled			2021-11-10 15:53:16 CET	2021-11-10 15:53:16 CET

Normal PAY-7-200-00007809668 WT Cover Acct Financial Institution Credit Transfer (Pacs.009) BCLXLULLXXX BCEEULLXXX 1,500.00 EUR Settled

Results 1 to 3 of 3

- The list of cash transfers retrieved here follows the same logic we saw on slide 28, except that we now specifically searched for **settled credit payments** whereas the slide on page 28 included credit and debits and therefore also shows **settled debit payments**.

2.3 Query RTGS Cash Account Liquidity

- Display RTGS Cash Account Liquidity / List of Cash Transfers / Details.

The screenshot displays the 'List of Cash Transfers' interface. At the top, there is a navigation bar with the 'target T2 Real Time Gross Settlement' logo and user information for 'BCEAdmin (0.35.0 #25)'. Below this is a search criteria section and a table of results. The table has the following data:

Queue Position	Priority	Instruction ID	End to End ID	Message Type	Debit Account	Credit Account	Amount	Cash Transfer Status	Earliest Debit Timestamp	Latest Debit Timestamp	Settlement Timestamp	Entry Timestamp
<input type="checkbox"/>	Normal	PAY-7-491-00007810678	APPROV/CPTES SAL BCEE FREE TEST	Financial Institution Credit Transfer (Pacs009)	BCLXULLXXX	BCEELULLXXX	25.00 EUR	Settled			2021-11-10 14:42:54 CET	2021-11-10 14:42:54 CET
<input type="checkbox"/>	Normal	PAY-7-200-00007809968	WT Cover Acct	Financial Institution Credit Transfer (Pacs009)	BCLXULLXXX	BCEELULLXXX	2,232.00 EUR	Settled			2021-11-10 15:22:26 CET	2021-11-10 15:22:26 CET
<input checked="" type="checkbox"/>	Normal	PAY-7-200-00007809968	WT Cover Acct	Financial Institution Credit Transfer (Pacs009)	BCLXULLXXX	BCEELULLXXX	1,500.00 EUR	Settled			2021-11-10 15:53:16 CET	2021-11-10 15:53:16 CET

The 'Details' menu for the selected row includes the following options:

- Cash Account Reference Data of Credit Account
- Display Message

- List of cash transfers retrieved here: the user can open the details section (as described on slide 29).

3. Example Customer Credit Transfer (pacs.008)

- ❑ Welcome page:
- On the left hand menu open cash transfers and messages and select “New Customer Credit Transfer” in order to reach the new screen.

target services T2 Real Time Gross Settlement EXTERNAL ACCEPTA... Business Day 2021-10-27	
Welcome	
Cash Transfers and Messages	Query Cash Transfers
Liquidity	Query Messages
Liquidity Management Features	Query Business Cases
Ancillary System	Query Account Postings
Reference Data	New Customer Credit Transfer
Administration	New Financial Institution Credit Transfer
Monitoring	New Payment Return
	Upload A2A File or Message

3. Example Customer Credit Transfer (pacs.008)

□ Screen access: Cash transfers and messages >>Customer Credit Transfer – New screen

target | T2 Real Time Gross Settlement
services | EXTERNAL ACCEPTA... | Business Day 2021-10-28

User: TEST User-2 OP4
Release: (0.35.0 #21)

☰ ✉ New Customer Credit Transfer

- + Business Application Header*
- FI To FI Customer Credit Transfer*
 - Credit Transfer Transaction Information*
 - + Instructing Agent*
 - + Debtor*
 - + Debtor Agent*
 - + Instructed Agent*
 - + Creditor*
 - + Creditor Agent*
 - + Interbank Settlement*
 - + Payment ID*
 - + Settlement Time Request
 - + Charges
 - + Instructed Amount and Exchange Rate
 - + Payment Type Information
 - + Purpose
 - + Remittance Information
 - + Regulatory Reporting
 - + Instruction for Creditor Agent
 - + Instruction for Next Agent
 - + Ultimate Creditor
 - + Ultimate Debtor
 - + Initiating Party
 - + Previous Instructing Agents
 - + Intermediary Agents
 - + Related Remittance Information

- This screen offers the possibility to enter a new customer credit transfer (CCT)
- CCT may be entered by the following entities:
 - RTGS Account Holder
 - Multi-addressee
 - Central bank
- This screen consists of several sections that contain fields the user can fill. By default, all sections are closed.
- The GUI indicates which fields are mandatory when the user starts to enter information in a specific input field. An asterisk (*) in the title cell indicates a mandatory section.

* Set-up shown above based on central bank testing configuration

3. Example Customer Credit Transfer (pacs.008)

Business Application Header

New Customer Credit Transfer

Business Application Header*

From*

BICFI*

BCLXLULLXXX

(*) From BICFI:

This field shows for payment orders sent by the party itself: Addressee BIC of the account given in the 'Instructing Agent' element in the payload.

To*

BICFI*

BCEELULLXXX

(*) To BICFI:

User to enter the corresponding BIC to which the payment is sent to.

3. Example Customer Credit Transfer (pacs.008)

☐ Instructing Agent, Debtor ID

Instructing Agent*

BICFI* LEI

Debtor*

Debtor ID*

Name Country of Residence

Postal Address

Department	Sub	
<input type="text"/>	<input type="text"/>	
Street Name	Building Number	Building Name
<input type="text" value="Boulevard Royal"/>	<input type="text" value="2"/>	<input type="text"/>
Floor	Post Box	Room
<input type="text"/>	<input type="text"/>	<input type="text"/>
Post Code	Town Name	Town Location Name
<input type="text" value="LU-2983"/>	<input type="text" value="Luxembourg"/>	<input type="text"/>
District Name	Country Sub Division	Country (Code)
<input type="text"/>	<input type="text"/>	<input type="text" value="LU"/>
Address Line	<input type="text"/>	

(*) Instructing Agent / BICFI:
User to enter the BIC of the instructing agent, i.e. the BIC of the account to be debited.

(*) Debtor ID / Name:
User to enter the name of the debtor (up to 140 characters) and complete the field postal address.



Debtor ID*

Name Country of Residence

! The field Postal Address (Town Name/Country or Address Line) is required if Name is used.

3. Example Customer Credit Transfer (pacs.008)

☐ Debtor Account ID, Debtor Agent

- Debtor Account ID

IBAN

Other ID

RLUEURBCLXLULLXXXLUB00000

+ Additional Account Information

+ Proxy

Debtor Account ID / Other ID:
User has the possibility to enter another identificatin for the debtor account (IBAN mutually exclusive if « Other ID » is used).

- Debtor Agent*

- Debtor Agent* Financial Institution ID

BICFI

BCLXLULLXXX

Clearing System ID Code

Name

+ Postal Address

(*) Debtor Agent Financial Institution ID:
User to enter the BIC of the debtor agent.

3. Example Customer Credit Transfer (pacs.008)

☐ Instructed Agent, Creditor ID

- Instructed Agent*

BICFI*

BCEELULLXXX

LEI

(*) Instructed Agent / BICFI:

User to enter the BIC of the account that is to be credited in RTGS.

- Creditor*

- Creditor ID*

Name

ABC Bancaire Luxembourg S.A.

(*) Creditor ID/Name:

User to enter the name of the creditor (up to 140 characters) and complete the field postal address.

- Postal Address

Department

Street Name

Boulevard Henri

Building Number

33

Building Name

Floor

Post Box

Room

Post Code

L-1724

Town Name

Luxembourg

Town Location Name

District Name

Country Sub Division

Country (Code)

LU

Address Line

3. Example Customer Credit Transfer (pacs.008)

☐ Creditor Account ID, Creditor Agent

- Creditor Account ID

IBAN
LU62 XXXXXXXX ← (*) Creditor Account ID / IBAN:
User can enter the IBAN of the creditor account (up to 34 characters).

Other ID

+ Additional Account Information

+ Proxy

- Creditor Agent*

- Creditor Agent* Financial Institution ID

BICFI
DBSALULLXXX ← (*) Creditor Agent / BICFI:
User to enter the BIC of the creditor agent.

Clearing System ID Code

Name

3. Example Customer Credit Transfer (pacs.008)

☐ Interbank Settlement Amount, Interbank Settlement Date, Settlement Priority

Interbank Settlement*

Interbank Settlement Amount*
4,380 EUR

Interbank Settlement Date*
2021-10-28

Settlement Priority
NORM

Payment ID*

Instruction ID*
PAY-7-200-00007809750

End To End ID*
Customer invoice payment

UETR (Generated)

Clearing System Reference

(* Interbank Settlement Amount:
User to enter the amount to be transferred between the instructing agent and the instructed agent.

(* Interbank Settlement Date:
User to enter the date on which the settlement is taking place. Date can be set for the current business day and up to 10 calendar days in advance.
The payment order will be rejected if the specified settlement date is on a weekend or an RTGS holiday.

Settlement Priority: Possibility to select the priority for the processing of the settlement with possible values "NORM" "HIGH"
Default value is "Norm".

3. Example Customer Credit Transfer (pacs.008)

☐ Instruction ID, End-to-end ID, UETR

Payment ID*

Instruction ID*

PAY-7-200-00007809750

End To End ID*

Customer invoice payment

UETR (Generated)

(*) Payment ID / Instruction ID:
User to enter the unique identification as assigned by an instructing party to identify the instruction. Point to point reference between the instructing party and the instructed party.

(*) End to end ID:
User initiating party to enter the end-to-end identification. This identification is passed on, unchanged, throughout the entire end-to-end chain. It can be used for reconciliation. If no end-to-end identification was provided by the debtor, it is recommended to fill this field with 'NOTPROVIDED'. Default value: 'NOTPROVIDED'.

Possibility to enter a unique end-to-end reference of the payment transaction. If the user does not fill this field, a random UETR is generated when the message is submitted.

3. Example Customer Credit Transfer (pacs.008)

- ❑ Submit payment (all mandatory fields must be completed)

The screenshot shows a payment form with several sections. The 'Payment ID*' section is expanded, showing 'Instruction ID*' with a red error icon and a red border around the empty input field. Below it are 'End To End ID*' (with 'Customer invoice payment' entered), 'UETR (Generated)', and 'Clearing System Reference'. Other sections like 'Settlement Time Request', 'Charges', 'Instructed Amount and Exchange Rate', 'Payment Type Information', 'Purpose', and 'Remittance Information' are collapsed.

As long as not all of the mandatory fields are completed, the «submit» button won't allow the user to submit the transaction.

This screenshot shows the same payment form as the previous one, but with a red arrow pointing to the 'Submit' button at the bottom left. The 'Submit' button is disabled (greyed out), while 'Reset', 'Display Errors', 'Collapse All', and 'Expand All' are active.

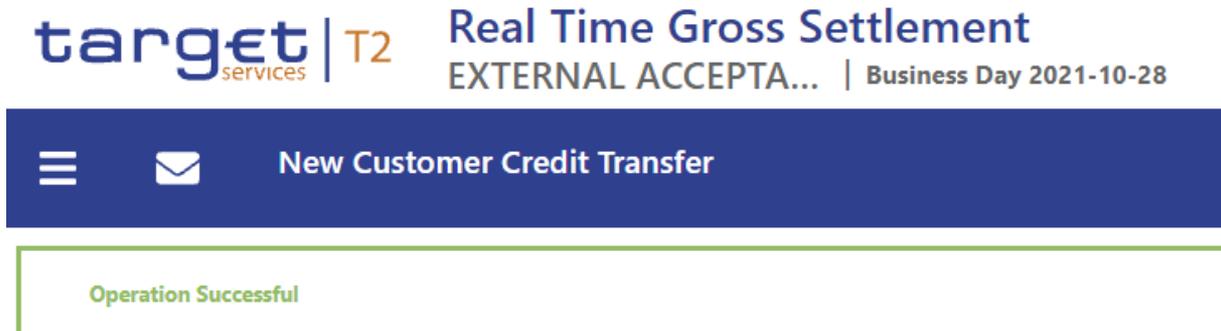
The screenshot shows the payment form with all mandatory fields filled. 'Instruction ID*' contains 'PAY-7-200-00007809750'. 'End To End ID*' contains 'Customer invoice payment'. 'UETR (Generated)' and 'Clearing System Reference' are empty. The 'Submit' button at the bottom left is now active (blue).

When all mandatory fields are completed the user can submit the transaction.

This screenshot shows the payment form with the 'Submit' button at the bottom left highlighted by a green box and a green arrow. The 'Submit' button is now active (blue), indicating that all mandatory fields have been completed.

3. Example Customer Credit Transfer (pacs.008)

- ❑ Submit payment (operation successful)



- For the detailed search “query task queue”, “query cash transfer” and “query RTGS cash account liquidity” please refer to the previous example for the pacs. 009 (slides 23, 27, 35 respectively).

3. Example Customer Credit Transfer (pacs.008)

Query Cash Transfers – List of Cash Transfers

target | T2 Real Time Gross Settlement
EXTERNAL ACCEPTA... | Business Day 2021-10-28

User: TEST User-2 OP4 (0.35.0 #21) placeholder logo

List of Cash Transfers
Query Cash Transfers

Search Criteria

Results

List of Cash Transfers

Queue Position	Priority	Instruction ID	End to End ID	Message Type	Debit Account	Credit Account	Amount	Cash Transfer Status	Earliest Debit Timestamp	Latest Debit Timestamp	Settlement Timestamp	Entry Timestamp
	Normal	PAY-7-200-00007809750	Customer invoice payment	Customer Credit Transfer(Pacs.008)	BCLXLULLXX	BCEELULLXX	4.380.00 EUR	Settled			2021-10-28 09:21:26 CEST	2021-10-28 09:21:26 CEST

Debit Account	Credit Account	Amount	Cash Transfer Status
BCLXLULLXX	BCEELULLXX	4.380.00 EUR	Settled

Display RTGS Cash Account Liquidity

Display RTGS Cash Account Liquidity
Query RTGS Cash Account Liquidity

Search Criteria

Results

Account Information

Party BIC: BCEELULLXX Party Name: BCEE Account Number: RLUEURBCEE

Liquidity Information

	Total Liquid
Starting Balance	13,968.23 EUR
Settled Cash Transfers	
Settled Debit Liquidity Transfers	0.00 EUR
Settled Credit Liquidity Transfers	0.00 EUR
Settled Debit Payments and AS Transfers	0.00 EUR
Settled Credit Payments and AS Transfers	4.380.00 EUR
Current Balance	18,348.23 EUR

4. Statement of Account (RTGS U2A only party)

- ❑ Statement of account – download screen (Cash Transfers and Messages > Statement of Account)
 - The RTGS GUI will offer the possibility to query a statement of account.
 - The result can be downloaded (pdf. file foreseen containing camt.053 [BanktoCustomer Statement] XML string).
 - Account statements can be downloaded by U2A only RTGS account holder (i.e. when the party is set up as U2A-only in CRDM).
 - The statement of account can be queried for the last 10 business days

The screenshot shows a web application interface for downloading account statements. The title bar is dark blue with a hamburger menu icon, an envelope icon, and the text 'Download Statement of Account'. On the right side of the title bar are icons for a star, a question mark, a gear, and a power button. Below the title bar is a 'Search Criteria' section with a minus sign icon. Underneath is a 'General' section with a minus sign icon. It contains two input fields: 'Account Number' and 'Account BIC', each with a search icon (magnifying glass) to its right. Below these is a 'Business Date' section with a checkbox and the text 'No filter selected' and a 'All' button. At the bottom left of the form is a 'Download' button.

4. Statement of Account (RTGS U2A only party)

- ❑ Statement of account – download screen (Cash Transfers and Messages > Statement of Account)

The screenshot shows a web application interface for downloading a statement of account. The page title is "Download Statement of Account". The interface includes a search criteria section with a "General" tab. There are three input fields: "Account Number", "Account BIC", and "Business Date". Each field has a smart-select button (a magnifying glass icon). The "Business Date" field has a dropdown menu showing "No filter selected". A "Download" button is located at the bottom left of the form area.

- **Account number:** if the user only has one single account the field is pre-filled with the account number of the current user. If the user has more than one account the field is not pre-filled. The user can enter an account number manually or search by clicking on the smart-select button: 
- **Account BIC:** If the user only has one single account this field is pre-filled with the account BIC of the current user. If the user has more than one account this field is not pre-filled. The user can enter an account BIC manually or search by clicking on the smart-select button: 

5. Annex (Fields and Buttons)



The menu button provides access to the main menu and the GUI functions. Detailed menu structure is explained in the UHB chapter 4.1 and provides access to all screens described in chapter 5.



The broadcast button notifies the user about specific system events, operations and business related information (orange button = new broadcast available).



This area shows the name of the current screen and the navigation path (breadcrumbs) of the current screen. See also UHB, chapter 'Breadcrumbs'.



The bookmark button allows the user to save most frequently used screens and their settings. This button is only available for Query, List, Display and New Screens but not for Details Screens. See also UHB, chapter 'Bookmark'.



The online help button provides a context sensitive description of the current screen (online UHB).



The user settings button opens the 'Modify Settings – Pop-up' that allows the user to specify GUI settings for the current session. See also UHB, chapter 'User Settings Button'.



The logout button allows to log out of the GUI.

5. Annex (Fields and Buttons)

Query Cash Transfers Currency: EUR

Search Criteria

General

2 Credits / Debits: Credits and Debits

3 Message Type: No filter selected AI

Cash Transfer Type: No filter selected AI

Cash Transfer Status: No filter selected AI

8 Exact Amount: = EUR

Amount From: ≥ Amount To: < EUR

7

Value Date

5 From: ≥ 2021-09-06 To: ≤ 2021-09-16

6

Account Selection

4 Account Number: No filter selected Account BIC: No filter selected

Account Type: No filter selected AI

Identifier

1 Sender and Receiver Information (BAH): From BIC: To BIC:

Counterparty Country

AS Information

9 **Output Parameters**

Sort By: Priority Sort Order: Ascending Selection: 13 items selected AI

Submit Reset

10 11

5. Annex (Fields and Buttons)



Input Field

The user can enter alphanumeric values.

Input fields can be pre-filled with a default value. Default value can be overwritten.



Standard Drop-down List Field

The user can select one entry from a pre-defined list of possible values.



Multi-Select List Field

The user can select multiple values for one field by clicking in the field and activating the checkbox next to the respective list entries.

List items can be selected or deselected completely by clicking on the checkbox to the left of the field.



Smart-Select Multi List Field

The user can select multiple values for one field by clicking on the smart-select button on the right leading to a search screen where one or more search criteria can be used to find one or more of the desired options.



'More than or equal to' Icon

This icon can appear to the left of fields that require the input of a date, time or amount. When entering an amount, this icon indicates 'more than or equal to'. When entering a date/time, this icon indicates 'after or equal to'.



'Less than or equal to' Icon

This icon can appear to the left of fields that require the input of a date, time or amount. When entering an amount, this icon indicates 'less than or equal to'. When entering a date/time, this icon indicates 'before or equal to'.



'Less than' Icon

This icon can appear to the left of fields that require the input of a date, time or amount. When entering an amount, this icon indicates 'less than'. When entering a date/time, this icon indicates 'before'.



Equal Icon

This icon is available next to an input field. The user can input a date, time or amount to be used as a filter criteria which needs to be matched exactly.

9. Output Parameters



The user can select output parameters that manage the appearance of the results on the Cash Transfer – List Screen.

The user can submit the entered search criteria. This button is only active if the input is valid.



The user can reset the entered search criteria to their default values.

5. Annex (Fields and Buttons)

Queue Position	Instruction ID	End to End ID	Message Type	Debit Account	Credit Account	Amount	Cash Transfer Status	Earliest Debit Timestamp	Latest Debit Timestamp	Settlement Timestamp	Entry Timestamp	
<input type="checkbox"/>	TestInstID58811	TestE2EID00011	FinancialInstitutionCreditDebit (pacs.010)	PBCDDGF0002	PBAAKF0004	2,000,000.00 EUR	rejected				2020-06-10 08:20:04	...
<input type="checkbox"/>	TestInstID45897	TestE2EID45897	FinancialInstitutionCreditTransfer (pacs.009)	PBRKGF0007	PBLRHF0017	500,000.00 EUR	rejected				2020-06-10 08:18:00 CET	...
<input type="checkbox"/>	TestInstID45712	TestE2EID45712	FinancialInstitutionCreditTransfer (pacs.009)	PBCDDGF0002	PBAAKF0003	250,000.00 EUR	warehouse				2020-06-10 08:13:03 CEST	...
<input type="checkbox"/>	TestInstID45953	QAF5E2EID12343	FinancialInstitutionCreditTransfer (pacs.009)	PBAAGHF0018	PBCDHF0083	840,800,800.75 EUR	rejected				2020-06-10 08:09:04 CEST	...
<input type="checkbox"/>	TestInstID45717	TestE2EID45717	FinancialInstitutionCreditTransfer (pacs.009)	PBRKGF0004	PBCDHF0082	800,000.00 EUR	rejected				2020-06-10 08:09:04 CET	...



Refresh Button

The user can click on this button to reload the screen. Upon clicking on this button, the list entries will be updated using the search criteria.



List Checkbox

The user can click on the checkbox in order to select or deselect entries from the list if a bulk action is possible.



Export Button

The user can click on this button to export all data that the executed query has delivered. The complete result set will be exported, not only the visible rows. The file can be saved by the user. The format of the downloaded file is CSV.



Context Menu Button

The user can click on this button to open the available context menu options of the list entries. This button is equivalent to a right-click with the mouse while using a touchpad or keyboard navigation. The button is positioned at the very right of the respective list entries.