Bank of England RTGS Renewal Programme

- ISO 20022 Migration (TS3)

Getting Started Guide for the Reserves and Settlement Account Holders

Version 1.2

This document provides Reserves and Settlement Account Holders with Swift guidance for BoE's TS3 project phase.

Contents

1	Intro	duction	3
	1.1	Background	3
	1.2	BoE SWIFTNet Service Names	4
	1.3	BoE ISO 20022 Message Set	4
	1.4	Timelines	5
	1.5	Document Description	6
2	BoE	SWIFTNet Services for InterAct and WebAccess	7
	2.1	How to access to the subscription e-forms	7
	2.2	How to complete the subscription e-forms and timelines	9
	2.2.1	InterAct services	9
	2.3	How to complete the WebAccess subscription e-forms	13
3	Conr	nectivity	15
	3.1	Introduction	15
	3.2	Configuring to receive InterAct message	16
	3.3	Configuring for WebAccess services	16
4	Integ	ration	18
	4.1	Introduction	18
	4.2	Integration Considerations	18
5	Swift	's Solution for BoE ISO 20022 Migration	19
	5.1	High-level overview of Swift's Solution	19
	5.2	Message Flows	20
	5.3	BoE SWIFTNet Service Features	20
6	Chec	klist	21
7	Supp	port	22
8	Legal Notices		

1 Introduction

1.1 Background

In context of the Bank of England's (*BoE*) RTGS Renewal Programme, the BoE will be renewing its Core Settlement Engine in June 2024 (*TS3 milestone*). This impacts <u>all</u> Reserves and Settlement Account Holders (further referred in this document as *RAHs*), who today use the Enquiry Link Browse WebAccess service and those who today receive end-of-day MT950 statements over the FIN service.

For TS3, the BoE has created new a WebAccess service for BERTI (<u>Bank of England Real-Time Interface</u>), which is replacing today's Enquiry Link Browse service. Also, the MT950 statement will be migrated to BoE-defined ISO 20022 camt.053 equivalent message and will be received over the BoE's SWIFTNet InterAct live service.

Therefore, all RAHs have to subscribe to the BoE SWIFTNet live WebAccess service and those who will receive camt.053 statements, have to subscribe to the new InterAct Messaging live service. See table below in section 1.2 for the BoE SWIFTNet services names (Table 1).

As of 27 November 2023, RAHs are able to subscribe to the BoE's <u>live</u> SWIFTNet InterAct service and <u>live</u> BERTI WebAccess service, in preparation for go-live in June 2024.

This Getting Started Guide provides guidance on subscribing to the live BoE SWIFTNet services and for those RAHs who will receive the BoE camt.053 statements, guidance on SWIFTNet connectivity and integration to back-office systems.

This guide is aimed at the BoE Account Holders' business operations, business application development and Swift technical teams involved in the BoE ISO 20022 migration project, it is complimentary to any planning, design and implementation work already in progress in preparation for the go-live.

1.2 BoE SWIFTNet Service Names

In the context of the BoE RTGS Renewal Programme, the BoE deploys the following InterAct Messaging (for receiving ISO 20022 statements) and WebAccess services:

Table 1. Overview of the live TS3 InterAct Messaging and WebAccess services.

Service Name	Purpose	e-form Availability	
InterAct Messaging service			
boe.stg.iast	BoE CHAPS live	available	
WebAccess service			
boe.rti.wa	WebAccess for BERTI live	available	

1.3 BoE ISO 20022 Message Set

The following BoE defined ISO 20022 statement message is applicable for RAHs.

Table 2. Message set

Message Identifier	Usage Identifier
(request type)	(request sub-type)
camt.053.001.08	boe.rtgs.01

Reserves and settlement account holders will also be able to opt to receive other notifications and balances over Swift and will be able to request intraday statements by sending a camt.060 message over InterAct.

Full details of these messages can be found in the BoE's 'RTGS Renewal Programme ISO 20022

Technical Guidance Enhanced' document on MyStandards. Also, see section 5.2 of this guide for a description of the message flows.

1.4 Timelines

<u>High-level Timelines:</u> any questions on these dates must be addressed to the BoE RTGS Readiness Team - RTGSReadiness@bankofengland.co.uk

Table 4. High-level Timelines

Date	Service Name	Description
As from 27 November	boe.stg.iast	Subscription period for the registration to the
2023 till 01 March 2024	boe.rti.wa	live WebAccess service (mandatory for all
		RAHs) and to the TS3 live InterAct messaging
		service (only for those RAHs that receive
		MT950 statement messages from the BoE
		today)
24 June 2024	boe.stg.iast	TS3 live cutover
	boe.rti.wa	

1.5 Document Description

Section 2 - SWIFTNet Service(s) is aimed at teams who are responsible for completing the subscription e-forms on swift.com for the live BoE SWIFTNet services. Further guidance provided in section 2.

Section 3 - Connectivity is aimed at Swift technical teams who are responsible for: i) configuring their Swift messaging interface to receive the BoE ISO 20022 statement message from SWIFTNet; ii) configuring their Swift messaging interface to send the statement message to their back-office or middleware application(s); and iii) configuring their users to access the new WebAccess BERTI service. Further guidance provided in section 3.

Section 4 - Integration is aimed at Swift technical teams, business application developers & business analysts responsible for configuring the connections to receive the BoE ISO 20022 statement message in their back-office or middleware application(s).

Note RAHs will have their own specific integration requirements and solutions, which will need to be assessed by their developers and vendors on the impact of BoE ISO 20022 statement message flow. Further guidance provided in section 4.

Section 5 - Swift's Solution for RAHs' ISO 20022 Migration is aimed at all teams working on the RAH's BoE ISO 20022 messages migration project.

Section 6 - Checklist provides a high-level list of activities to perform for TS3 readiness.

Section 7 - Support provides information on Swift and BoE support.

2 BoE SWIFTNet Services for InterAct and WebAccess

This section is aimed at teams who are responsible for completing the BoE SWIFTNet services subscription e-forms on swift.com. As previously mentioned, the BoE deploys InterAct Messaging and WebAccess live services for TS3 operations. Each service will have its own subscription e-form. See previous table of BoE SWIFTNet services showing availability on the Swift network (Table 1).

2.1 How to access to the subscription e-forms

- 1. Go to BoE's dedicated web page on swift.com Bank of England | Swift
- Under the Bank of England section all the BoE's services will be displayed. Under sub-section
 "Subscribe to Swift InterAct and WebAccess services for:..." select the required service and
 click the arrow.
- 3. If not already logged into swift.com, enter your account and password. If the credentials are correct, the relevant e-form opens.
- Select the e-form of BERTI Live service to register for BERTI and then select the BOE CHAPS Live service (only if you receive camt.053 statements as from TS3):



Place orders

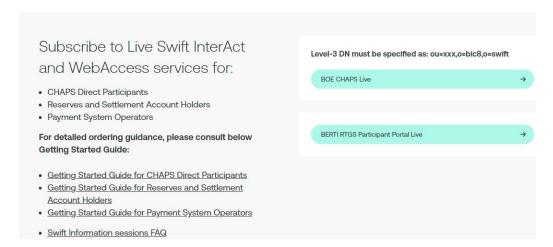


Table 5: overview of the live e-order forms

e-form name	Purpose	Service name	
Live services			
BERTI RTGS Participant Portal Live	WebAccess to BERTI in live environment	boe.rti.wa	
BOE CHAPS Live	InterAct Store-and-Forward messaging service in live environment	boe.stg.iast	

For the opening of the subscription form:

- 1. Click on **the arrow** to select the e-form. If not already logged into swift.com, enter your account and password. *N.B. Only registered swift.com users can access the order form and must have the e-ordering profile for being able to submit e-orders.*
- 2. If the credentials are correct, the relevant e-form opens, showing the SWIFTNet service name, as in the example below.

Print | Price list | How e-ordering works



SWIFTNet Service Subscription

BANK OF ENGLAND (BKENGB2L) Market Infrastructure : BOE CHAPS (Live) SWIFTNet service = boe.stg.iast / Live

Enter the requested information.

The orange arrow icon ▶ indicates mandatory fields

Please use this form to manage a subscription to a SWIFTNet Service under the conditions of the SWIFTNet Service Description



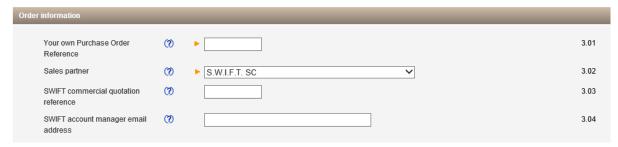
2.2 How to complete the subscription e-forms and timelines

See below details in completing each part of the subscription e-forms:

2.2.1 InterAct services

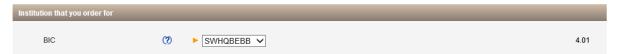
 Note that registration for the boe.stg.iast live service is only required by those RAHs that will receive camt.053 statement messages and other notifications and advices from TS3

Order Information



- 3.01: enter the reference that Swift has to use for communication related to this service (e.g. invoices)
- 3.02: leave the default value "S.W.I.F.T SC"
- 3.03: leave the field empty
- 3.04: enter the email address of your Swift account manager

Institution that you order for



• 4.01: Specify the BIC8 you use for your operations.

Either it will be the default displayed or select your BIC8 from the drop-down list. It will be the same BIC8 as the level-2 BIC8 of your Distinguished Name in field 6.01 of this e-form.

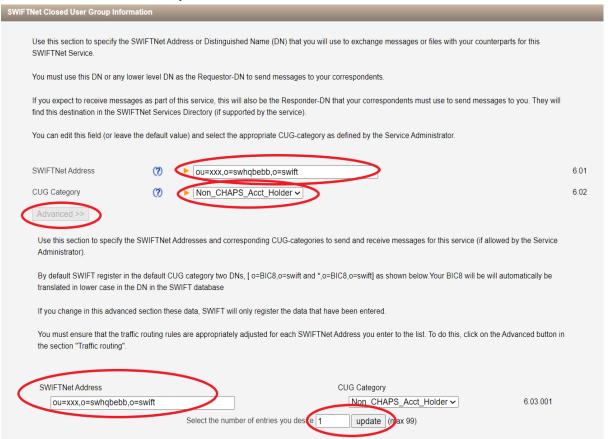
Preferred implementation date

• 5.01: enter the preferred implementation date 13 April 2024

For the boe.stg.iast live service:



SWIFTNet Closed User Group

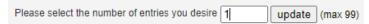


 6.01: The SWIFTNet Address is the Distinguished Name (DN) that is used as Requestor DN to send messages. By default, your Level-2 DN will be displayed in the e-form, <u>but a Level-3 DN</u> must be specified.

To do this please specify a Level-3 DN in field 6.01, as defined below

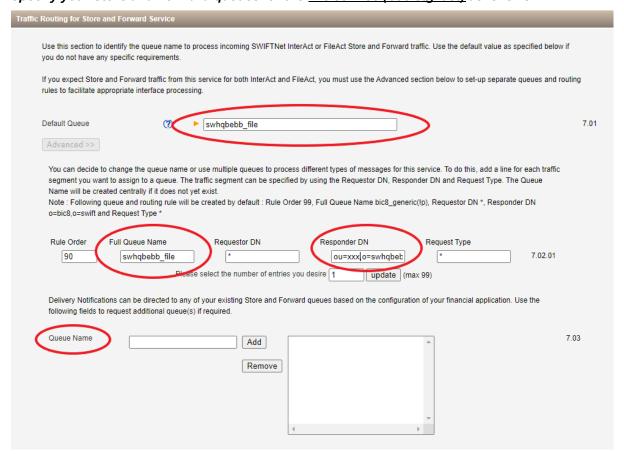
- For the Live service (boe.stg.iast): ou=xxx,o=BIC8,o=swift
- 6.02: select "Non_CHAPS_Acct_Holder" value for 'CUG Category'

<u>Additional step is required:</u> Please click on "Advanced", update the number of entries to "1" and click on "update":



Traffic Routing for Store and Forward Service

Specify your Store and Forward queues for the live service (boe.stg.iast) as follows:



In this section you can specify the queue for your <u>incoming</u> InterAct Store and Forward (SnF) messages.

- 7.01: the default value of the 'Full Queue Name' will be automatically filled in the e-form. This needs to be customised as per your own preferred SnF queue name. For the customisation please click on "Advanced" and specify your own preferred SnF queue name in 7.02.01.
- 7.02.01: in this section you need to specify your preferred 'Full Queue Name'. Please note that
 the Responder DN, i.e. your receiving address must be identical with the Level-3 DN indicated
 under 6.01 (in the live service: "ou=xxx,o=BIC8,o=swift")
- 7.03: in this section you can indicate (if required) a separate queue (other than the SnF queue specified under 7.01 and 7.02.01) for the reception of the Delivery Notification messages. If no separate queue is required for the Delivery Notification messages, this section can remain empty.

Forms Validation and Subscription

Once the e-form has been completed scroll down and click on the "**Continue**" button for initial validation of the e-form.



If valid, then confirm your subscription request and click on "Order now".



Your e-form will be further validated by Swift, before forwarding to the Bank of England for approval.

Your subscription status can be monitored using the **order tracking** tool of swift.com.

Timelines

Please consider the following timelines for the subscription to the TS3 live service:

Table 6. boe.stg.iast live service subscription timelines

Description	Date	Comment
Submit the subscription e-order	As from 27	Preferred implementation date in the
form for the boe.stg.iast live service	November 2023, latest by 01 March 2024	subscription e-order form must be 13 April 2024
Provisioning Weekend for the subscription in the boe.stg.iast live service (i.e. Preferred implementation date in the e-order form)	13 April 2024	As from the implementation date, the participant is subscribed to the live service but will be permitted to use the service only from the TS3 go-live and briefly during the Dress rehearsals in production environment. Participant can connect to the SnF queue as from the implementation date.

2.3 How to complete the WebAccess subscription e-forms

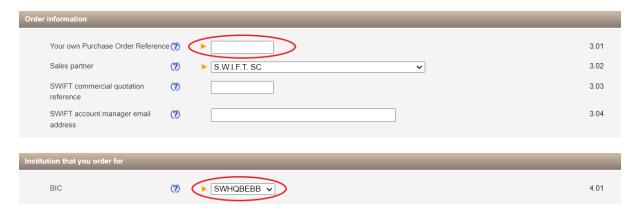
- Access to the new user interface, BERTI (Bank of England Real-Time Interface) replacing Enquiry Link Browse is supported by web browser through Swift WebAccess.
- BoE has deployed SWIFTNet service for the BERTI WebAccess service.
- RAHs will need to subscribe to the live service (boe.rti.wa) via Swift in order to access BERTI
 live environment.
- For the subscription to the live boe.rti.wa service, RAHs shall consider the following timelines:

Table 7. WebAccess BERTI live service subscription timelines

	Date
Availability of the e-order form of WebAccess live service on BoE dedicated ordering page on swift.com	As from 27 November 2023
Submit the subscription e-order form for the WebAccess live service	Latest by 01 March 2024
Required Provisioning Weekend for the subscription in the WebAccess Live service (i.e. Preferred implementation date in the e-order form)	13 April 2024

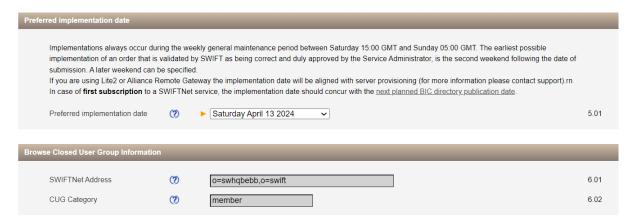
Please consider the following guidelines when completing the order forms:

- In 3.01: enter your own reference that Swift has to use for communication related to this service (e.g. invoices).
- In 4.01: Specify the BIC8 you will use for the operations (same BIC8 as the level-2 BIC8 of your Distinguished Name in field 6.01 of this e-form)



- In 5.01: enter **13 April 2024** as the preferred implementation
- In 6.01: keep the default value for SWIFTNet Address, your Level-2 DN

• In 6.02: keep the default value for 'CUG Category' - "Member".



3 Connectivity

3.1 Introduction

This section is aimed at the RAH's Swift technical teams who are responsible for: i) configuring their Swift messaging interface to receive the BoE ISO 20022 statement message from SWIFTNet; ii) configuring their Swift messaging interface to send the statement message to their back-office or middleware application(s); and iii) configuring their users to access the new WebAccess BERTI services.

Those RAHs who today receive end-of-day MT950 statements over the FIN service, will receive these statements as camt.053 statements received over the BoE's SWIFTNet InterAct service in TS3.

As a brief comparison of SWIFTNet connectivity between FIN and InterAct-Store & Forward. With FIN, Logical Terminals are used to connect to the FIN service for exchanging MT messages. MT messages are received via FIN Delivery-Subsets. See the <u>FIN Service Description</u> for detailed information on features and operations of FIN messaging. With InterAct, MX messages are received via Store & Forward Queues, Output Channels/Sessions. See the <u>SWIFTNet Service Description</u> and <u>SWIFTNet Messaging Operations Guide</u> for detailed features and operations of InterAct Store and Forward messaging.

Depending on your connectivity to Swift, i.e. via own Swift infrastructure, via Alliance Lite2/Cloud, or via a service bureau, you'll need to consider both connectivity and integration with your Swift infrastructure provider. By way of high-level guidelines and understanding, as the BoE SWIFTNet services for ISO 20022 messages use InterAct-Store & Forward, like Swift's FINplus service for CBPR+ ISO 20022 messages, then parts of the document created for the CBPR+ ISO 20022 Programme, i.e. the ISO 20022 Programme Customer Adoption Guide (ISO-CAG), equally apply for BoE's ISO 20022 migration. Therefore, see below information from the ISO-CAG providing connectivity configuration guidance for receiving messages using InterAct-Store & Forward.

In addition to InterAct messaging, the BoE has created new WebAccess service for BERTI (<u>Bank of England Real-Time Interface</u>). BERTI is the replacement of today's Enquiry Link Browse service. So, end users will need to be configured to access the new WebAccess service.

3.2 Configuring to receive InterAct message

This section only applies to those RAHs who, today receive end-of-day MT950 statements over the FIN service, and in TS3, will receive these statements as camt.053 statements, and can opt to receive other advices and notifications, over the BoE's SWIFTNet InterAct live service (*boe.stg.iast*).

The below steps have been taken from the ISO-CAG document section 5.1 -

- 1. Create and configure your store-and-forward queues (including delivery notification queues, as described in section 2 of this Getting Started Guide on e-forms).
- 2. Define your message routing rules at network level.
- 3. Configure your store-and-forward output channel.
- 4. Prepare the certificate to receive your BoE camt.053 statement.
- 5. Configure your SWIFTNet connection on your SWIFTNet messaging interface.

Further details on receiving messages available in section 5.3.1.* of the ISO-CAG document.

3.3 Configuring for WebAccess services

BERTI is standard WebAccess service, so end-users should be configured just as for any other WebAccess service, e.g. BoE Enquiry Link Browse service. Related URL information is as follows:

Environment	Service	URL
Prod	boe.rti.wa	boe-rtgs-portal-live .browse.swiftnet.sipn.swift.com

If you connect to Swift via...

- ...your own Swift infrastructure, then your SWIFTNet Security Officers need to setup your endusers for BERTI service, Your Swift technicians can use the <u>SWIFT WebAccess Configuration & Troubleshooting Guide</u> for WebAccess setup if required.
- ...Alliance Lite2, then your Lite2 Security Officers need to setup your end-users for BERTI service like for Enquiry Link Browse

•a service bureau, then your SWIFTNet Security Officers need to setup your end-users for BERTI service they could be delegated to your service bureau?		

4 Integration

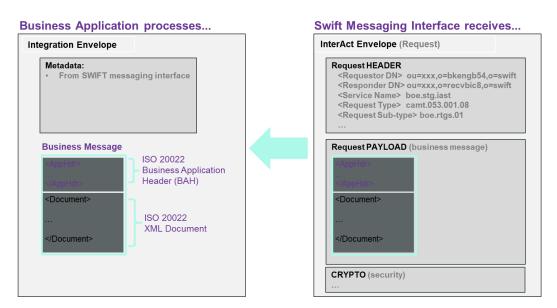
4.1 Introduction

This section only applies to those RAHs who, today receive end-of-day MT950 statements over the FIN service, and in TS3, will receive these statements as camt.053 statements, and can opt to receive other advices and notifications, over the BoE's SWIFTNet InterAct live service (*boe.stg.iast*) and integrate them with their back-office application.

It is aimed at the RAH's Swift technical teams and business application developers responsible for this integration between the back-office or middleware application(s) and the Swift messaging interface. They will have to consult their internal application development team, and/or their application provider/vendor, and/or their Swift messaging interface provider to assess and implement their integration solution.

4.2 Integration Considerations

See diagram below of ideal case for the receiving flow. The camt.053 statement message is received on the Swift messaging interface. The business message (*InterAct payload*) is wrapped into the integration envelope and transferred to the back-office application for processing.



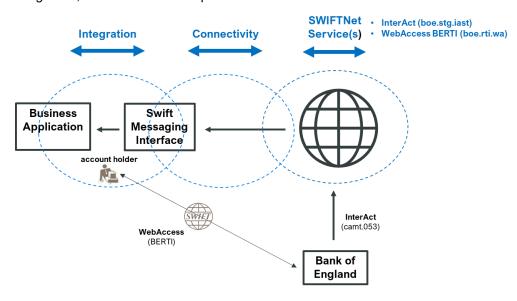
For Swift messaging interfaces, the integration envelope for Swift's Alliance Access interface is called **XMLV2** format and for Alliance Messaging Hub it is called the **AMP** format. For non-Swift interfaces, please check with your interface vendor for details of the integration envelope.

5 Swift's Solution for BoE ISO 20022 Migration

5.1 High-level overview of Swift's Solution

The diagram below shows a high-level overview of Swift's BoE ISO 20022 migration solution for the RAHs. It highlights the BoE SWIFTNet service for the InterAct camt.053 message flow; the new WebAccess BERTI service, which is replacing today's Enquiry Link Browse.that the BoE has created for TS3 testing.

It also shows the three parts of the Swift solution – *BoE's SWIFTNet Service(s), Connectivity* and *Integration*, as described in the previous sections.



In general, a SWIFTNet service is a closed user group (*CUG*) consisting of the **Service Administrator** (in this case the Bank of England, BoE) and **Service Participants** (in this case the Reserves and Settlement Account Holders).

The Service Administrator defines the various features of their services, e.g. what SWIFTNet messaging is used (*InterAct, WebAccess...*), what message types are used, the direction of message flow between participants and BoE, messages validation...etc.

A Service Participant must register to each service using a service subscription e-form on swift.com, which must be approved by their Service Administrator to participate in the service. Each service has its own service subscription e-form as described in section 2 of this guide.

5.2 Message Flows

Statement message flows

Those RAHs who today receive MT950 statements over FIN will receive the BoE defined camt.053 statements over the BoE's SWIFTNet InterAct live services (*boe.stg.iast*).

5.3 BoE SWIFTNet Service Features

BoE has defined the following features for their SWIFTNet services:

- SWIFTNet InterAct Store-and-Forward messaging
- ISO 20022 standards with BoE defined Usage Guidelines
- Message Validation the BoE ISO 20022 messages will be validated centrally by Swift against the BoE Usage Guidelines.
- Addressing RAHs must subscribe with a <u>fixed</u> Level-3 DN for the live service (ou=xxx,o=bic8,o=swift).
- Requestor DN-Business Application Header (BAH) BIC consistency check on the live service,
 i.e. the BICs in level-2 of the addressing DNs will be validated with the BICs in the 'From' and 'To' fields in the BAH
- Test &Training (T&T) BICs Only live BICs will be allowed in the InterAct payload of a BoE defined ISO 20022 message in TS3.
- Reverse Billing RAHs will be invoiced by Swift for all BoE ISO 20022 messages exchanged within the BoE SWIFTNet services.
- RMA is NOT used for the BoE ISO 20022 SWIFTNet services.

6 Checklist

Activity	Responsible
Section 2: Service Subscriptions	
Subscribe to BoE SWIFTNet live TS3 InterAct	swift.com registered user with e-order access
service (boe.stg.iast) by 1 March 2024 if you will	
continue receiving statements in camt.053	
format as from TS3	
Subscribe to BoE SWIFTNet live BERTI	swift.com registered user with e-order access
WebAccess service (boe.rti.wa) by 1 March 2024	
Section 3: Connectivity	
Configure receive connection between Swift	Swift messaging interface administrator
messaging interface and Swift.	Owner messaging interface administrator
messaging interface and ownt.	
Configure routing of BoE camt.053 statements	Swift messaging interface administrator
on Swift messaging interface to business	
application. This can be tested over the test	
InterAct service (pu2) as part of the Participant	
Acceptance Testing phase between 3 January	
and 8 March 2024.	
Section 4: Integration	
Configure connection between Swift messaging	Swift interface administrator
interface and business application(s)	Business application administrator
Integration of the BoE camt.053 statement flow.	Business application administrator/developer
This can be tested over the test InterAct service	
(pu2) as part of the Participant Acceptance	
Testing phase between 3 January and 8 March 2024.	
10011	
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7 Support

- 1. For Swift related technical questions, please contact the Swift Support Centre:
 - through Case Manager on swift.com
 - mention "CHAPS ISO Migration" in the subject field
- 2. For any other Swift -related questions, contact your Swift service manager or account manager.
- 3. For questions related to BoE RTGS Renewal Programme, please contact RTGSReadiness@bankofengland.co.uk

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