



RESERVE BANK OF AUSTRALIA

RITS Guide to Connectivity Testing

24 June 2023

Version 2.6

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Revision History

Version	Date Completed	Comments
1.0	November 2004	Distributed to Members of RITS Technical Working Group (TWG) for review.
1.1	January 2005	Incorporating questions from TWG and more information about tokens and certificates.
1.2	June 2005	Contains details of hosts, names, addresses, URLs and some updated information.
1.3	February 2006	Some updates, in particular an Appendix about ActiveX controls.
2.0	February 2014	Support for Windows XP and IE versions 6 and 7 stopped. References updated for Windows 7.
2.1	October 2017	Updated Contacts.
2.2	March 2018	Updates for support of Windows 10 and to Troubleshooting section. Removal of option for RITS software to be provided on CD.
2.2.1	July 2018	Extended Help Desk hours, update links to secure HTTPS, updated pagination.
2.3	September 2019	Some updates under Section 4 to reflect updated machine and browser requirements.
2.4	August 2021	Removal of support for Windows 8.1 and Internet Explorer.
2.5	January 2023	Updated for Pre-Production Environment only to remove references to Edge (IE mode) browser support and client side Java/ActiveX and to add references to RITS browser extensions. Restructured information between this document and the RITS Technical Information Paper.
2.6	24 June 2023	Extension of January Pre-Production Environment changes to the Production Environment Support for Windows 11 and RITS Client Software v10.5.

RBA Reference: [D22/284704](#)

1. Introduction

1.1 Overview

This document is a guide to:

- establishing basic connectivity between new Members and the RITS user interface; and
- re-confirming connectivity to RITS for existing Members.

For new Members the aim of connectivity testing is to connect a single user of the organisation to the login page of the RITS Pre-Production environment and run the RITS Test Card from that location. Successfully accessing the RITS Test Card confirms the organisation's ability to access the RITS environment over the chosen network and confirms the RITS software that is loaded onto the PC.

This staff member may be the Password/Certificate Administrator, who has attended training at the RBA and who has downloaded the RITS digital certificate onto a RITS token provided by the RBA.

From time-to-time existing Members may be required to re-confirm connectivity to RITS. This may be to re-confirm network settings and configurations or verify an updated RITS software package. Existing Members are also asked to log in to the Pre-Production environment to complete the testing. The RBA will contact Members when these tests are required.

As the components of the Pre-Production and Production environments are identical, accessing Pre-Production will prove that connectivity to RITS Production can also be achieved.

This guide should be made available to Members' IT staff.

1.2 Scope of connectivity testing

Members should test connectivity over the network paths (ASX Net; internet) that they use to access RITS.

Members that use both RITS access paths – for example, ASX Net to their primary site and internet to their secondary site - should verify connectivity over both paths.

Members that use ASX Net or the internet exclusively should only test the path relevant to them.

The *RITS Requirements for Access to the RITS User Interface* document describes the network requirements in more detail. This paper is available at https://www.rba.gov.au/rits/info/pdf/Connectivity_Requirements.pdf.

1.3 What other applications should be running on the PC?

Applications that are normally used during daily operations should be running during connectivity testing. This will ensure that any conflicts in version requirements will be addressed.

2. Prerequisites

There are three prerequisites for connectivity testing:

- the RITS software package must be installed on the PC that is being used to access RITS;
- the specifications, settings and configuration of the PC must align with the details provided in the *RITS UI Technical Information Paper*; and
- a RITS token, loaded with an active RITS digital certificate for an active user, must be available.

Details are described in the *Technical Information Paper*, which is available at www.rba.gov.au/rits/info/pdf/RITS_UI-Technical_Information_Paper.pdf

2.1 PCs, settings and configurations

The PC(s) used to access RITS must meet the minimum specifications and be set up with the settings and network configurations described in the *Technical Information Paper* and www.rba.gov.au/rits/info/technicalrequirements.htm. The PC used for connectivity testing must be representative of those currently used by the Member for RITS Production access.

2.2 ASX Net network settings

Details of ASX Net network addresses are available from Appendix 1 of the *Technical Information Paper*.

2.3 Obtain token and certificate

At least one staff member of a new RITS Member must obtain a certificate and token. The RITS Help Desk will provide assistance.

Existing users will already have a digital certificate and token that may be used to re-test connectivity.

2.4 Install the RITS Software Package

The RITS software package can be downloaded from the RITS website at www.rba.gov.au/rits.

Details are described in the *RITS UI Technical Information Paper*.

3. Connect to RITS

3.1 Connecting via ASX Net

3.1.1 New user

To access the RITS Test Card using the ASX Net network, type the following address into the Address bar of the browser:

<https://pp.rits.anni.rba.gov.au/rba-rits-utilities/testcard/index.jsp>

The following dialogue box displays on the test card page.

Enter the **Token Codeword** supplied by the RITS Help Desk and press **OK**.

RITS Test Card			
Machine Requirements		✓	
Browser Requirements		✓	
Token Requirements		✗	

Test Description	Value	Result	Suggestion
Operating System - Windows 10 (64 bit) or Windows 11	Windows 10	✓	
Screen Resolution (minimum 1024 * 768 pixels)	1920*1200 pixels	✓	

Test Description	Value	Result	Suggestion
Browser (Edge or Chrome is Required)	Chrome	✓	
Java Script 1.1 or later	1.5	✓	

Test Description	Value	Result	Suggestion
You are required to have the RITS Browser Extension installed	Installed	✓	
You are required to have the RITS Browser Extension version 1.3 installed	1.3	✓	
You are required to have the RITS Signhost installed	Installed	✓	
You are required to have the RITS Signhost version 1.4 installed	1.4	✓	
Token Driver Found	Yes	✓	
Token Label should be RITS Token	RITS Token	✓	
Number of Certificates on Token	2	-	
Number of Orphan Private Keys on Token	Unknown	-	
Check Certificate Validity	Cert Name: COMMON SUPERCERT ENTRUST, rtgssystems@rba.gov.au, 50008559486 • Is issued by a RITS CA • Is valid until [Thu Dec 5 2024] • This certificate is valid for RITS. Cert Name: TRST2E02 TRST2E02, dudejar@rba.gov.au, 44555666777 • Is issued by a RITS CA • Is valid until [Mon Jun 2 2025] • This certificate is valid for RITS.	✓	
Test Token Signing	Failed to Login: Incorrect PIN (rc=160)	✗	Test signing. Failed to Login: Incorrect PIN (rc=160)

[RITS Troubleshooting Guide](#)
[Email results to RITS Help Desk](#)

If no codeword or an incorrect codeword is entered (and **OK** is pressed), the RITS Test Card will run, but it will not be able to verify that digital signing is operational.

3.1.2 Existing users

Existing users should follow the instructions given in section 3.1.1 and then also login to [RITS Pre-Production](#) to confirm access.

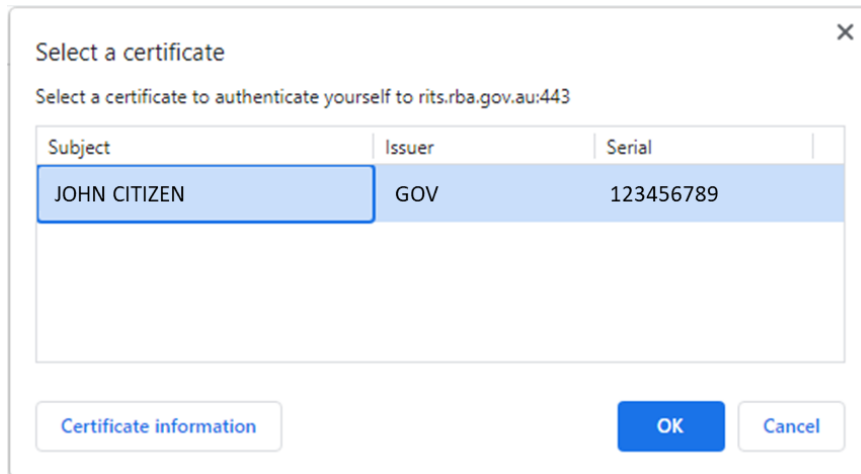
3.2 Connecting via the internet

3.2.1 New user

To access the RITS Test Card using the internet, insert your RITS token into your PC and type the following address into the address bar of the browser:

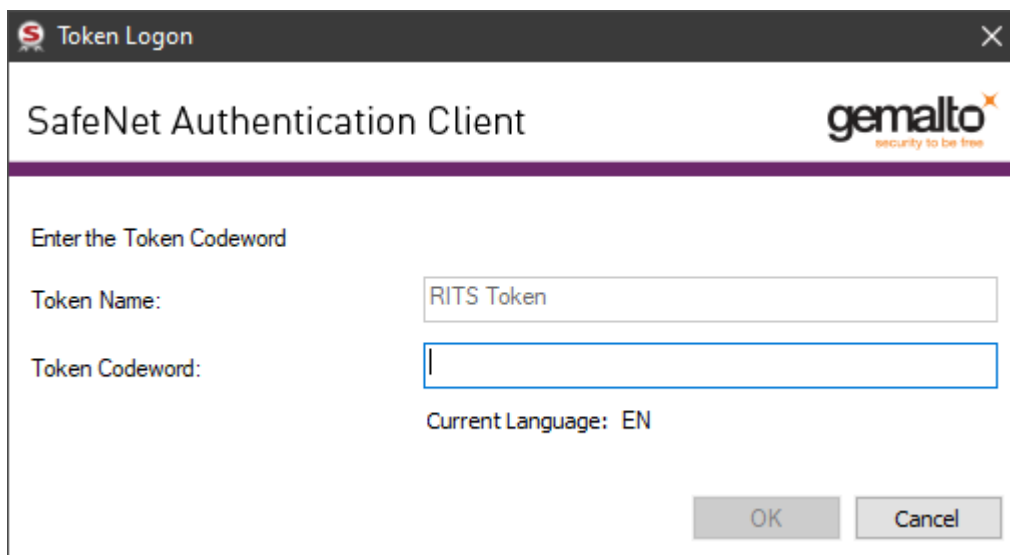
<https://pp.rits.rba.gov.au>

You will be prompted to confirm the certificate to be used. If there is more than one certificate on your token, you will need to select one certificate.



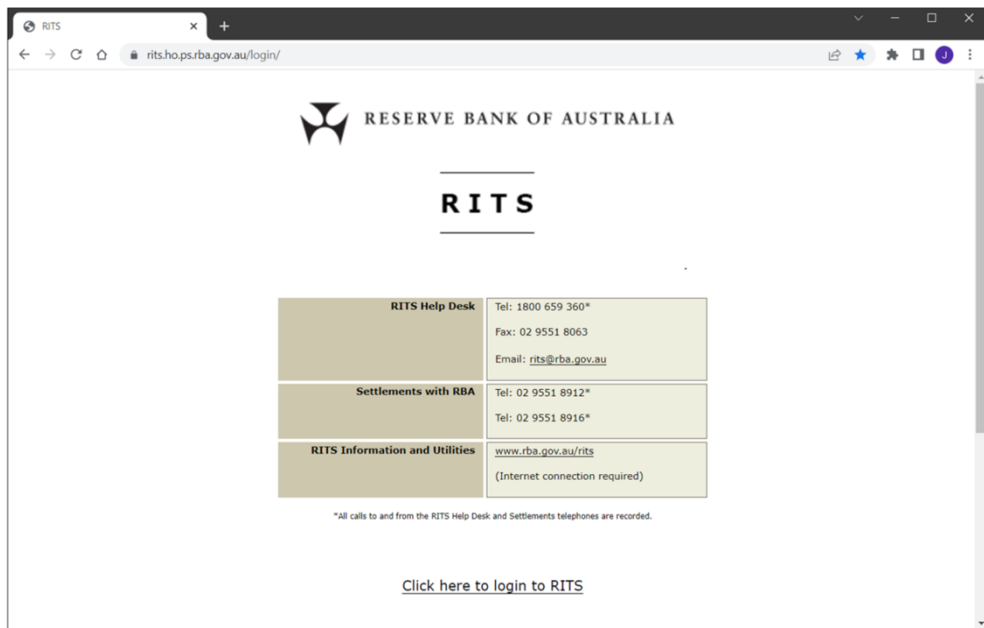
Highlight the certificate by clicking on it and press **OK**.

The following screen is displayed.



Enter the **Token Codeword** supplied by the RITS Help Desk and press **OK**.

The following screen is displayed.



Select **Click here to login to RITS**.

The Pre-Production login screen is displayed.

A screenshot of the Pre-Production login screen. It features the Reserve Bank of Australia logo and the 'RITS' title. Below the title, there is a prompt: 'Insert token, then enter username and password.' This is followed by a login form with fields for 'Username' and 'Password', and a 'Login' button. Below the form, a red message states: 'This login page will expire in 87 seconds'. At the bottom, there are three links: 'RITS Token Administration', 'RITS Testcard', and 'RITS Software'. A footer box contains the text: 'RITS is only for use by Members' authorised users in accordance with the RITS Regulations'.

Select **RITS Test Card**.

The following dialogue box is displayed.

Enter the **Token Codeword** supplied by the RITS Help Desk and press **OK**.

If no codeword or an incorrect codeword is entered (and **OK** is pressed), the RITS Test Card will run, but it will not be able to verify that digital signing is operational (see Section 3.1.1).

RITS Test Card			
Machine Requirements		✓	
Browser Requirements		✓	
Token Requirements		✓	

Test Description	Value	Result	Suggestion
Operating System - Windows 10 (64 bit) or Windows 11	Windows 10	✓	
Screen Resolution (minimum 1024 * 768 pixels)	1920*1200 pixels	✓	

Test Description	Value	Result	Suggestion
Browser (Edge or Chrome is Required)	Edge	✓	
Java Script 1.1 or later	1.5	✓	

Test Description	Value	Result	Suggestion
You are required to have the RITS Browser Extension installed	Installed	✓	
You are required to have the RITS Browser Extension version 1.3 installed	1.3	✓	
You are required to have the RITS Signhost installed	Installed	✓	
You are required to have the RITS Signhost version 1.4 installed	1.4	✓	
Token Driver Found	Yes	✓	
Token Label should be RITS Token	RITS Token	✓	
Number of Certificates on Token	2	-	
Number of Orphan Private Keys on Token	0	✓	
Check Certificate Validity	Cert Name: COMMON SUPERCERT ENTRUST, rtgssystems@rba.gov.au, 50008559486 <ul style="list-style-type: none"> Is issued by a RITS CA Is valid until [Thu Dec 5 2024] This certificate is valid for RITS. Cert Name: TRST2E02 TRST2E02, dudejar@rba.gov.au, 44555666777 <ul style="list-style-type: none"> Is issued by a RITS CA Is valid until [Mon Jun 2 2025] This certificate is valid for RITS. 	✓	
Test Token Signing	Cert Name: COMMON SUPERCERT ENTRUST, rtgssystems@rba.gov.au, 50008559486 ExpiryDate: Thu Dec 5 2024 Test Sign OK Cert Name: TRST2E02 TRST2E02, dudejar@rba.gov.au, 44555666777 ExpiryDate: Mon Jun 2 2025 Test Sign OK	✓	

[RITS Troubleshooting Guide](#)
[Email results to RITS Help Desk](#)

If the correct codeword is entered and all requirements are fulfilled, the RITS Test Card opens in a new browser window and should appear as follows.

3.2.2 Existing users

Existing users should follow the instructions given in section 3.2.1 and then login to RITS Pre-Production to confirm access.

4. Troubleshooting

The RITS Test Card includes a link to the RITS Troubleshooting Guide. In addition, the results shown on the RITS Test Card include specific suggestions on how to fix any issues that are discovered, including links to the [RITS Troubleshooting Guide](#) with further details about the configuration required.

If troubleshooting via the guide is unsuccessful, the tables below may be of assistance. If you need further assistance, please contact the RITS Help Desk.

Machine Requirements	
Operating System	RITS is only supported on Windows 10 (64 bit) or Windows 11
Screen Resolution (1024 * 768)	Minimum supported Screen Resolution is (1024 x 768 pixels)

Browser Requirements	
Browser (Edge or Chrome is Required)	Supported on Microsoft Edge or Google Chrome browser.
JavaScript must be 1.1 or above	JavaScript must be 1.1 or above

Token Requirements	
RITS Browser Extension installed	RITS browser extension must be installed
RITS Browser Extension 1.3 installed	RITS browser extension 1.3 must be installed
RITS Sign Host Application	RITS Sign Host application must be installed
RITS Sign Host Application 1.4 installed	RITS Sign Host application 1.4 must be installed
Token Driver Found	Yes
Token Label should be RITS Token	Token should be RITS Issued Token
Check Certificate Validity	Collect new certificate
Test Token Signing	Enter Correct PIN, Check RITS Client Software is installed

5. RBA Contacts

The RITS Help Desk provides operational assistance to RITS Members and is staffed 24 hours a day, on every day of the year.

Telephone: 1800 659 360 or, from outside Australia, +61 2 9551 8930 (calls to and from these numbers are recorded)

Fax: +61 2 9551 8063

Email: rits@rba.gov.au