

Payments Settlements Department

RITS FSS Functionality

FSS Training 2017 10 November - Sydney / 17 November - Melbourne

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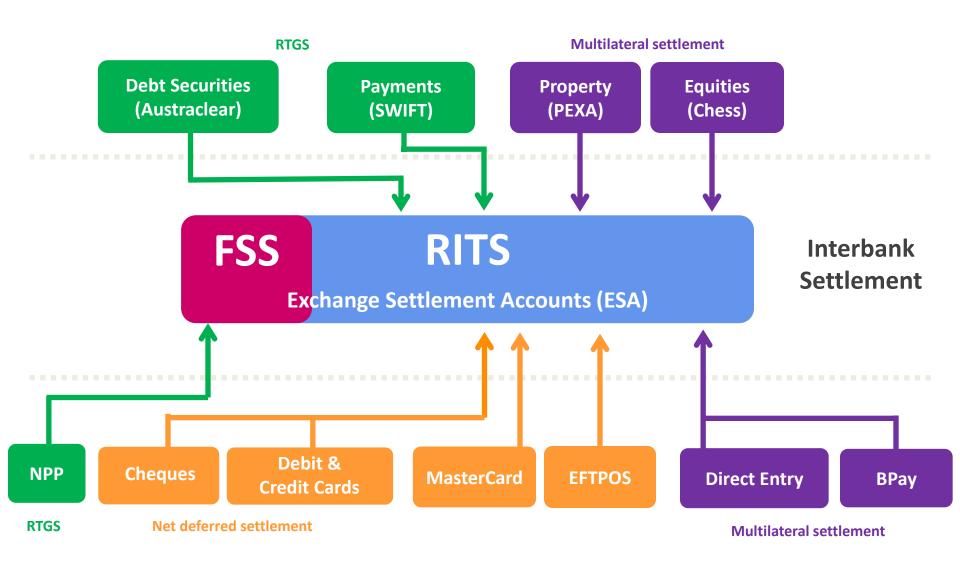
Presentation Outline

- RITS Overview
- Access to the RITS User Interface
- FSS Functionality
 - Core FSS Settlement Processing
 - Allocation Transfers
 - FSS Member Reports & Enquiries
 - FSS Alert Notifications
 - Liquidity Arrangements
- FSS Incident Management
- RITS Help Desk
- FSS Setup Checklist
- Key Activities & Further Information

RITS Overview

- RITS = Reserve Bank Information and Transfer System
- Australia's interbank settlement system
- 167 RITS Members 83 Banks (incl. RBA), 12 Other ESA Holders
 and 72 Non-ESA Holders
- RTGS introduced in Australia in June 1998
- Over 90% of total interbank value settled via RTGS
- Average value of \$176 billion settled daily on an RTGS basis

Australian Payments Landscape



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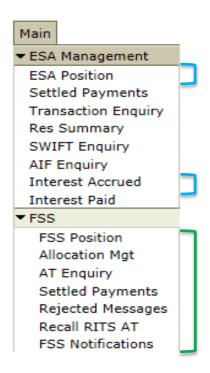
Access to RITS User Interface

- Can be accessed using Austraclear National Network Infrastructure
 (ANNI) or Internet
- RITS UI will be available on a 24/7 basis
- User Access Request Form
- <u>Technical Information Paper</u>
- RITS Access and Security User Guide

Access to the RITS UI

RITS User Interface Menu

 The RITS User Interface menu has been updated to include the new Member FSS Functions





New Screens for FSS



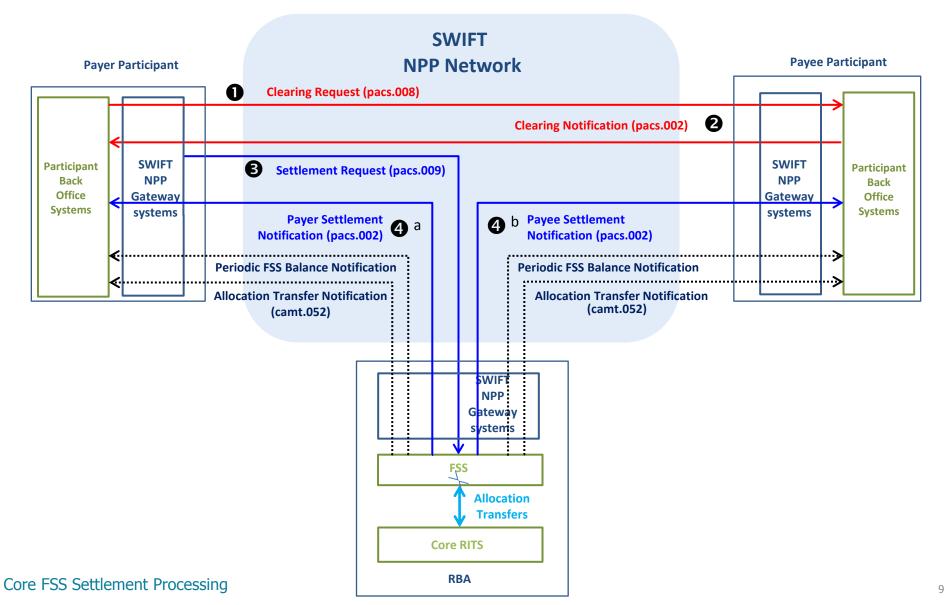
Existing Screens Updated for FSS

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Core FSS Settlement Processing

Simplified NPP Payment Flow (Message Flows)



Settlement Request Message (pacs.009)

Debtor and Creditor fields populated from the related pacs.008

Transaction ID used as a unique identifier for each payment

Technical and business validations

FSS records Settlement Date based on settled calendar date/time

Duplicate checking by FSS based on Transaction ID

Settlement Notification (pacs.002)

- Settlement Notifications sent to Payer and Payee involved in the clearing exchange
- Optional inclusion of FSS Balance
- FSS Balance is not included in pacs.002 for rejected Settlement Requests, except where reject reason is insufficient funds (Payer only)
- Settlement Notifications for rejected Settlement Requests include the reject reason code (Payer only)

Settlement Request - pacs.009 BAH

• Indirect Clear + Direct Settle for both Payer and Payee

Business Application Header (BAH)			
Field Name	Example	FSS Business Validation	
From	BNKBAU2SXXX	= Consistent with metadata	
То	RSBKAUFSXXX	= FSS BIC11	
Business Message ID	BNKBAU2SXXX2017051900000 000000001S	Contains 'S' in 35 th position	
Message Definition ID	pacs.009.001.05	= defined message accepted by FSS	
Business Service	npp.stlmnt.01-sct.01	BI Service ID format = 'npp.stlmnt.nn'	
Creation Date & Time	2017-05-19T15:30:11:678Z	<48 hours	
Priority	NORM	Value must be NORM or UNAT	

Settlement Request - pacs.009 Payload

	jacse pacsious	1 ay load
	Example	FSS Business Validation
Message Identification	BNKBAU2SXXX201705190000000 0000001S	= pacs.009 BAH Business Message ID
Creation Date & Time	2017-05-19T15:30:11:678Z	
Number of Transactions	1	= `1'
Settlement Method	CLRG	= 'CLRG'
Clearing System	NPP	= 'NPP'
Instructing Agent	BNKBAU2SXXX	= 'From' field in BAH
Instructed Agent	RSBKAUFSXXX	= FSS BIC
End to End Id	987654321	
Transaction Id	BNKBAU2SXXXN2017051 9000000000004890	Unique for past 48 hours
Clearing System Reference	131444888	
Service Level	npp.stlmnt.01-sct.01	= Business Service in BAH
Interbank Settlement Amount and Currency	3845849.56 AUD	< \$100 Billion
Interbank Settlement Date	2017-05-19	Not validated
Debtor	BNKAAU2SXXX	If `From' ≠ `Debtor' then `From' = Authorised Agent
Creditor	BNKDAU2SXXX	
Debtor Agent	BNKBAU2SXXX	
Creditor Agent	BNKCAU2SXXX	= Authorised Agent

Payer Settlement Notification - pacs.002 BAH

Business Application Header (BAH)		
Field Name	Example	
From	RSBKAUFSXXX	
То	BNKBAU2SXXX	
Business Message ID	RSBKAUFSXXX20170519000006324620000	
Message Definition ID	pacs.002.001.06	
Business Service	npp.stlmnt.01-sct.01	
Creation Date & Time	2017-05-19T15:30:13:112Z	
Priority	NORM	

Payer Settlement Notification - pacs.002 Payload

Field Name	Example	Note
Message Identification	RSBKAUFSXXX20170519000006324620	
	000	
Creation Date & Time	2017-05-19T15:30:13:112Z	
Instructing Agent	RSBKAUFSXXX	= FSS BIC
Instructed Agent	BNKBAU2SXXX	= Instructing Agent from pacs.009
Original Message ID	BNKBAU2SXXX2017051 900000000000001	From pacs.009 (without 'S' in 35 th position)
Original Message Name ID	pacs.009.001.05	From pacs.009 BAH
Original End to End ID	987654321	From pacs.009
Original Transaction ID	BNKBAU2SXXXN2017051 900000000004890	From pacs.009
Transaction Status	ACSC	ACSC = Accepted, RJCT = Rejected
Additional Information	BNKAAU2SXXX/C001456486458.00	Resulting FSS Balance for Bank A
Acceptance Date & Time	2017-05-19T15:30:11:987Z	Settlement Date Time
Account Servicer Reference	001234567891	FSS Transaction ID
Clearing System Reference	131444888	From pacs.009
Interbank Settlement Amount and	3845849.56 AUD	From pacs.009
Currency		
Interbank Settlement Date	2017-05-19	From pacs.009
Service Level	npp.stlmnt.01-sct.01	From pacs.009
Debtor	BNKAAU2SXXX	From pacs.009
Creditor	BNKDAU2SXXX	From pacs.009

FSS Optional Notification

Periodic FSS Balance Notification (camt.052)

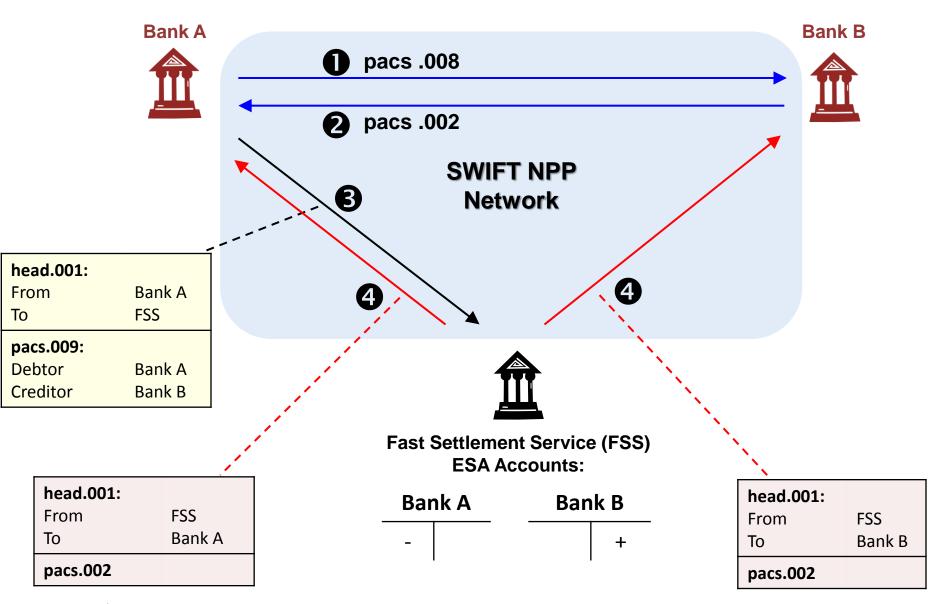
- Delivered to the ESA Holder or nominated agent
- Available on a 24/7 basis

Field Name	Example	Note
Message Identification	RSBKAUFSXXX20170728020524436410000	
Creation Date & Time	2017-07-28T05:24:43.641Z	
Message Recipient	BNKEAU2SXXX	
Additional Information	/PERD/	'PERD' for periodic
Account Identification	BNKEAU2SXXX	
Balance		
Amount	6024319.18	Resulting FSS Balance from Transaction Entry
Credit Debit Indicator	CRDT	
Entry		
Amount	8.51 AUD	
Credit Debit Indicator	DBIT	
Account Servicer Reference	48207174	FSS Trans ID
Entry Details		
Transaction ID	BNKEAU2SXXXN20170728002061311654640	From pacs.009
Amount	8.51	
Debtor	BNKEAU2SXXX	
Creditor	BNKFAU2SXXX	

Business Reference Data Table (BRDT) Checks

- BRDT file is aligned to the clearing and settlement arrangements recorded by the RBA
- FSS Participants must ensure information provided to RITS Help Desk for their FSS setup is consistent with information in the PROD BRDT.

Direct Clear – Direct Settlement (DC-DS/DC-DS)



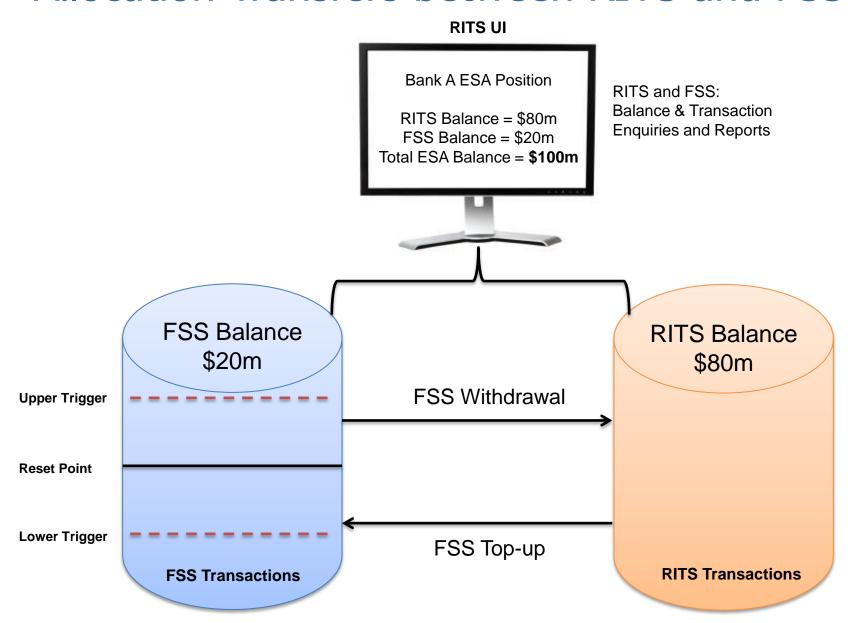
FSS Reason Codes

Code	Description
AC06	Blocked Account
AGNT	Incorrect Agent
AM04	Insufficient Funds
AM12	Invalid Amount
AM19	Invalid Group Number Of Transactions
CH21	Required Compulsory Element Missing
DT02	Invalid creation date and time (e.g. historic date)
FF04	Invalid Service Level Code
RC05	Invalid BIC Identifier
TD03	Incorrect File Structure

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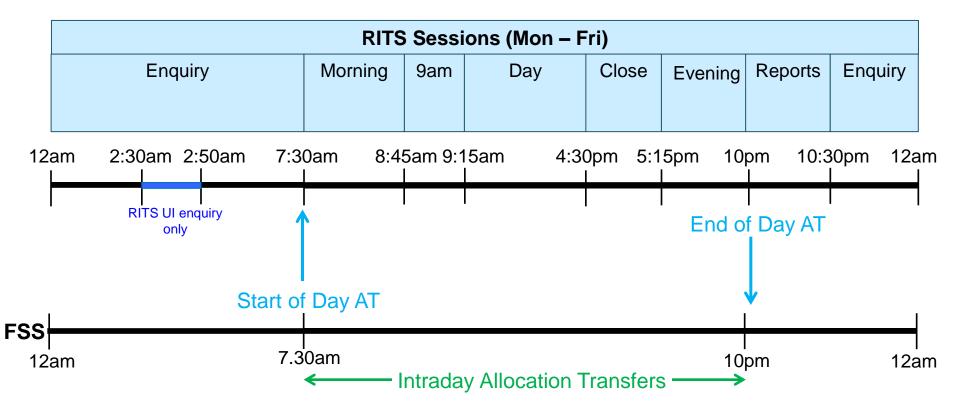
Allocation Transfers between RITS and FSS



Allocation Transfers between RITS and FSS

- Each Allocation transfer comprises a RITS leg and an FSS leg
- Start of Day, Intraday, End of Day
- Occur during RITS Settlement hours only
- Only one Allocation Transfer allowed at a time
- FSS Top-Up on the RITS Queue can be recalled if unable to settle
- Validations apply to Member-defined triggers entered via the RITS user interface

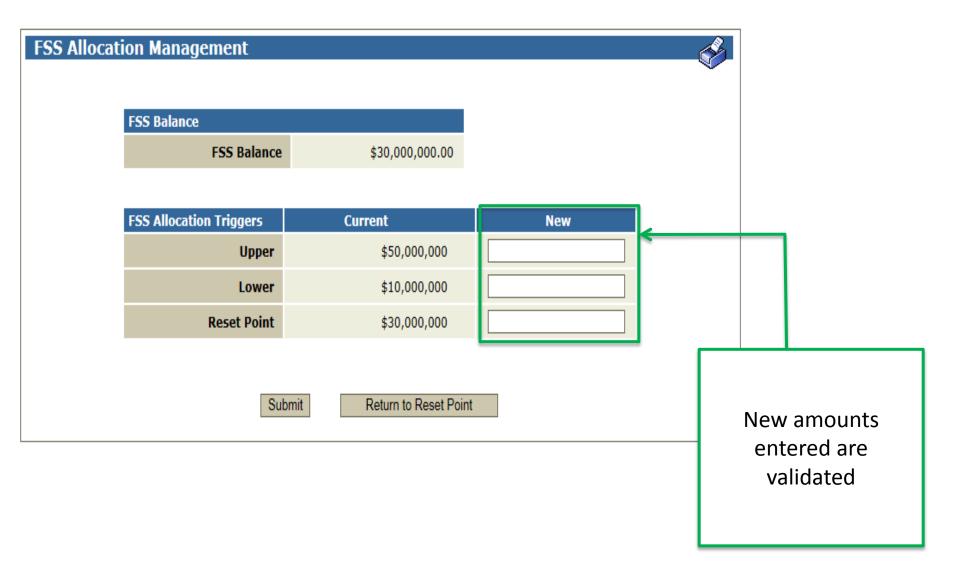
RITS and FSS Day



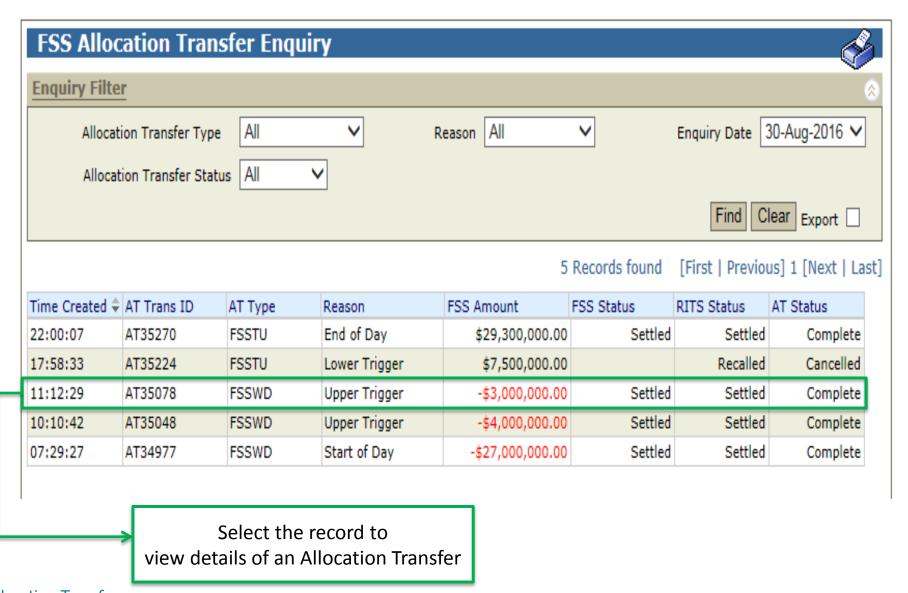
Allocation Transfers – RITS UI Screens & Notifications

- FSS Allocation Management
- FSS Allocation Transfer Enquiry
- Recall RITS Allocation Transaction

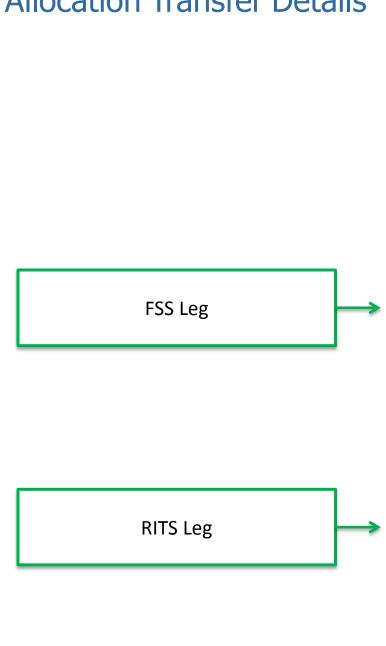
FSS Allocation Management

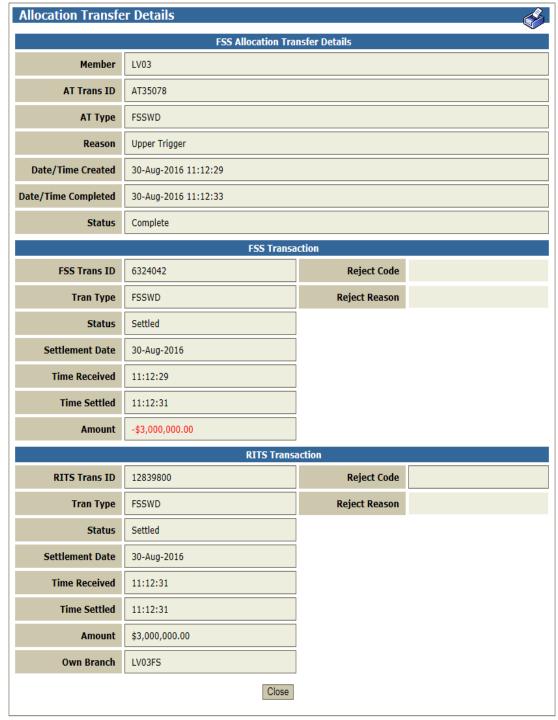


FSS Allocation Transfer Enquiry



Allocation Transfer Details





FSS Optional Notification

Allocation Transfer Notification - FSS Leg (camt.052)

- Delivered to the ESA Holder or nominated agent
- Includes resulting FSS Balance

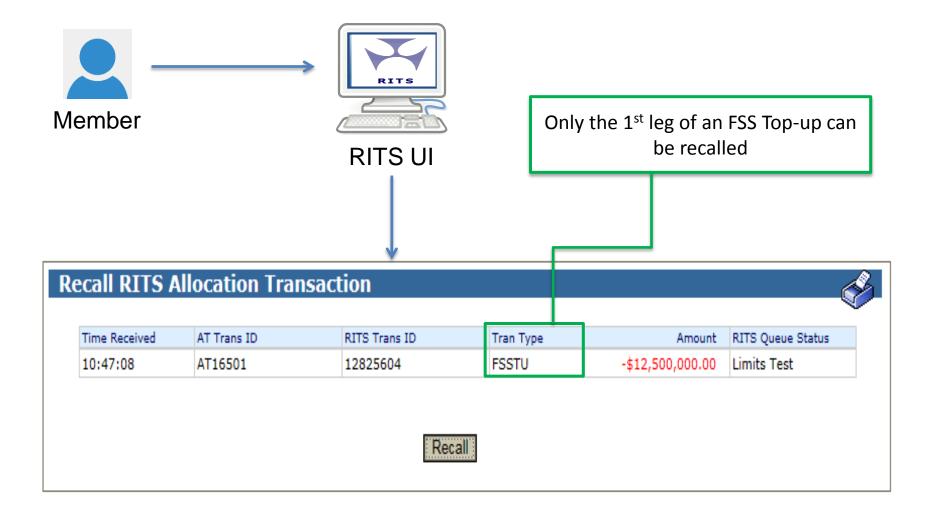
Field Name	Example	Note
Message Identification	RSBKAUFSXXX2016083002000021	
	2218370	
Creation Date & Time	2016-08-30T01:12:31:914Z	
Message Recipient	LVOCAU2SXXX	
Additional Information	/ALLC/	'ALLC' for Allocation Transfer
Account Identification	LVOCAU2SXXX	
Balance		
Amount	10000000.00	Resulting FSS Balance from Allocation Transfer
Credit Debit Indicator	CRDT	
Entry		
Amount	300000.00	Allocation Transfer Amount
Credit Debit Indicator	DBIT	
Account Servicer Reference	6324042	FSS Trans ID
Entry Details		
Transaction ID	RSBKAUFSXXXR20160830000000	Generated by RITS
	031488220	
Amount	300000.00	

AIF Post Settlement Advice - RITS Leg

- AIF Post-Settlement Advice MT198 SMT037
- Includes resulting RITS Balance

```
{4:
:20:U61129248
:12:037
:77E:
:21:RITS14199
:904:LV03
:25:002-903-LV03FS
:32A:160830AUD3000000,00
:901:111231
:908:FSSWD
:62M:C160830AUD18284625532,56
:62M:C160830AUD18284625532,56
```

Recall RITS Allocation Transaction



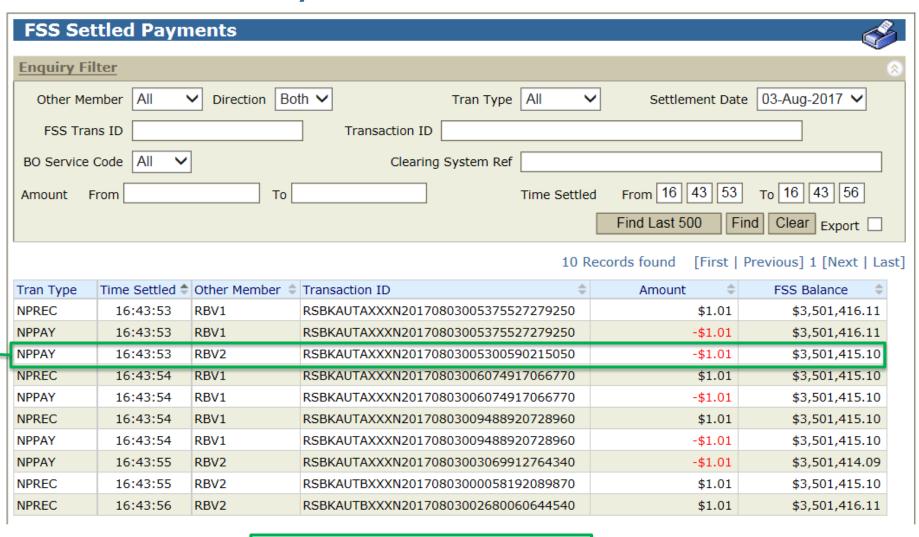
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FSS Member Reports & Enquiries

- New FSS screens to facilitate the enquiry of FSS transactions via RITS User Interface:
 - FSS Settled Payments
 - FSS Position Summary
 - Rejected FSS Message Enquiry

FSS Settled Payments

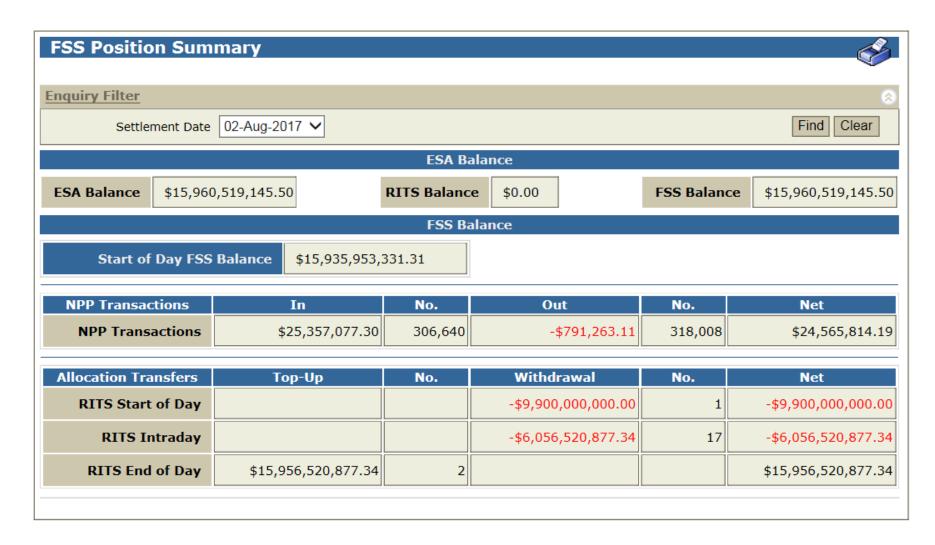


Select the record to view details of an FSS Settled Payment

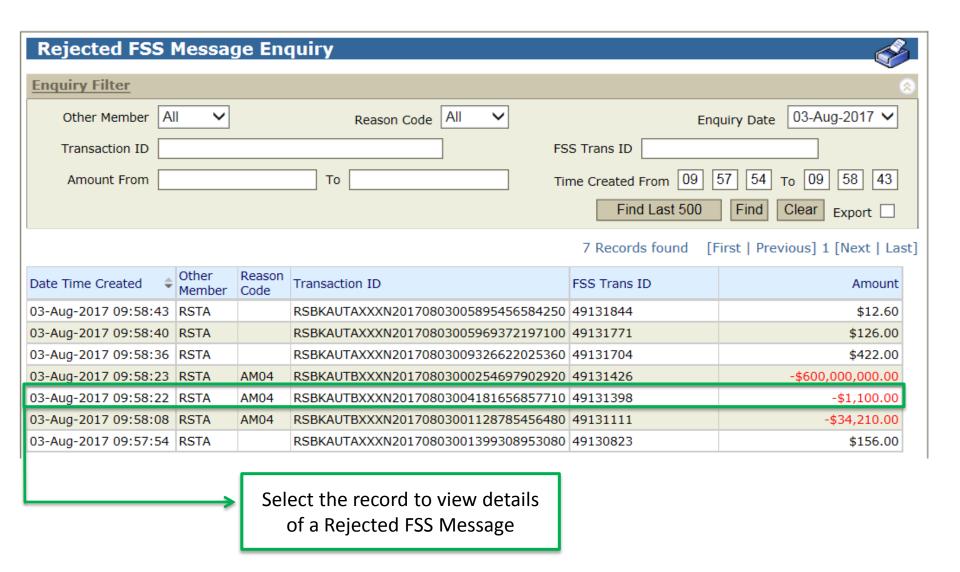
FSS Settled Payment Details

FSS Settled Payment Details FSS Transaction Details NPP Message Details Payer RBV1 Sender RSBKAUTAXXX Receiver of Payer SN Payee RBV2 RSBKAUTAXXX -\$1.01 Receiver of Payee SN **A**mount RSBKAUTBXXX Transaction ID **FSS Trans ID** 52652871 RSBKAUTAXXXN20170803005300590215050 End to End ID Tran Type **NPPAY** 123ABC Settled **Clearing System Ref** Status 2233219328 **Date/Time Received** 03-Aug-2017 16:43:53 **BO Service Code** sct 03-Aug-2017 16:43:53 **Date/Time Settled** Debtor RSBKAUTAXXX Creditor RSBKAUTBXXX **Debtor Agent Creditor Agent Ultimate Debtor Ultimate Creditor** Next > Close < Prev

FSS Position Summary



Rejected FSS Message Enquiry



Rejected FSS Message Details

Rejected FSS Message Details							
Message Received at FSS							
Message Definiti	ion pacs.009.001.05				Sender	RSBKAUTBXXX	
Date/Time Receiv	ed	03-Aug-2017 09:58:2	22		Payer	RSTB	
BO Service Co	BO Service Code sct				Debtor	RSBKAUTBXXX	
Message	ID	RSBKAUTBXXX20170803000958222257211S			Creditor	RSBKAUTAXXX	
Transaction	ID	RSBKAUTBXXXN20170803004181656857710			Debtor Agent		
End to End	ID	123ABC			Creditor Agent		
Amou	Amount		-\$1,100.00		Possible Duplicate		
		M	lessage Sent by FSS				
Message Definition	pac	cs.002.001.06	Message ID		RSBKAUFSXXX20170803020000491313980		
BAH Date/Time Created (AEST/AEDT)	03-	-Aug-2017 09:58:22	Original Transaction	ID	RSBKAUTBXXXN20170803004181656857		
BAH Date/Time Created (UTC)		17-08-02 3:58:22.533Z	FSS Trans ID		49131398		
Reason Code	AM04		Transaction Status		RJCT		
Reject Text	Insufficient Funds		Acceptance Date/Time				
Copy Duplicate		Resulting FSS Balan	nce	\$0.00			
	Close						

Enhancements to AIF Functionality

- A 'RITS only' MT950 (888) / MT950 (999) statement will continue to be available
- Two new optional End of Day ESA statements will be produced seven days a week:
 - MT950 SMT111
 - MT950 SMT222

New End of Day Statements (MT950) (MT950 SMT111) (MT950 SMT222)

{4:

:20:U61129225

:25:092-002-111111

```
{4:
:20:U61129219
:25:092-002-111111
:28C:638/1
:60F:C170511AUD18286516865,78
:61:170511C108666,78NMSCNETNPPMOVEMENT
000000ZYADNPNET005-000-RBV1FS
:61:170511C0,00NMSCNETFSSAT
000000ZYADATNET005-000-RBV1FS
:62F:C170511AUD18286625532,56
```

```
:28C:639/1
:60F:C170511AUD18286516865,78
:61:170511C9900000000,00NMSCRITS14076
072818ZYADFSSWD005-000-RBV1FS
:61:170511C8384517064,78NMSCRITS14092
072833ZYADFSSWD005-000-RBV1FS
:61:170511D9900000000,00NMSCRITS14111
220020ZYADFSSTU005-000-RBV1FS
:61:170511D8384517064,78NMSCRITS14113
2200207YADESSTU005-000-RBV1ES
:61:170511C108666,78NMSCNETNPPMOVEMENT
000000ZYADNPNET005-000-RBV1FS
:61:170511C0,00NMSCNETFSSAT
000000ZYADATNET005-000-RBV1FS
:62F:C170511AUD18286625532,56
```

Daily FSS Cashlist Summary Report

- Available to Members from RITS UI

 via System Reports
- This report contains:
 - 1. an entry for the net value of settled FSS Allocation Transactions;
 - an entry for the net value of settled NPP transactions in the FSS; and
 - 3. an entry for the total daily Net FSS movement.

BNKA Bank A RTGS TEST MEMBER	Daily FSS Cashlist Summary	13/10/2016 0:01
	BSB & A/C Number	Net Balance
Net FSS Allocation Transactions	935-001 2222222	\$330,000.00
Net FSS NPP Transactions	935-001 3333333	\$2,150.00
Total Net FSS Movement		\$332,150.00

End-of-Day FSS Settled Transactions Report

- Produced each calendar day shortly after midnight
- Lists all FSS Transactions settled for the previous calendar day including the FSS leg of Allocation Transfers
- Available in CSV format via:
 - COIN
 - SWIFT FileAct
 - Download via RITS User Interface System Reports

End-of-Day FSS Settled Transactions Report

Tran Type	FSS Tran ID	Time Settled	Other Member	Transaction ID	BO Service Code	End to End ID	Clearing System Reference
FSEOD		0:00:00					
FSSWD	2783211	7:30:31	BNKA	RSBKAUFSX			
NPREC	2783287	11:15:19	BNKC	BNKCAUFSX	sct	TRN1232	2233219400
FSSWD	2783322	11:43:27	BNKA	RSBKAUFSX			
FSSTU	2783500	15:58:18	BNKA	RSBKAUFSX			
FSSWD	2783552	16:05:58	BNKA	RSBKAUFSX			7
NPPAY	2783621	16:12:52	BNKD	BNKAAUFSX	x2p1	TRN1236	4411219328
FSSTU	2783965	22:00:21	BNKA	RSBKAUFSX			
NPPAY	2784012	23:59:59	BNKB	BNKAAUFSX	x2p1	TRN1238	2233219328

Amount	FSS Balance	Debtor	Creditor	Debtor Agent	Creditor Agent	Ultimate Debtor	Ultimate Creditor
\$6,000,000.00	\$6,000,000.0	0					
-\$5,000,000.00	\$1,000,000.0	0					
\$1,700.00	\$1,001,700.0	OBNKCAUFSX	BNKAAUFSX				
-\$410,000.00	\$591,700.0	0					
\$250,000.00	\$841,700.0	0					
-\$340,000.00	\$501,700.0	0					
-\$100.00	\$501,600.0	OBNKAAUFSX	BNKDAUFSX		BNKEAU2SMEL		
\$5,830,000.00	\$6,331,600.0	0					
-\$500.00	\$6,331,100.0	OFNKAAUFSX	BNKBAUFSX				

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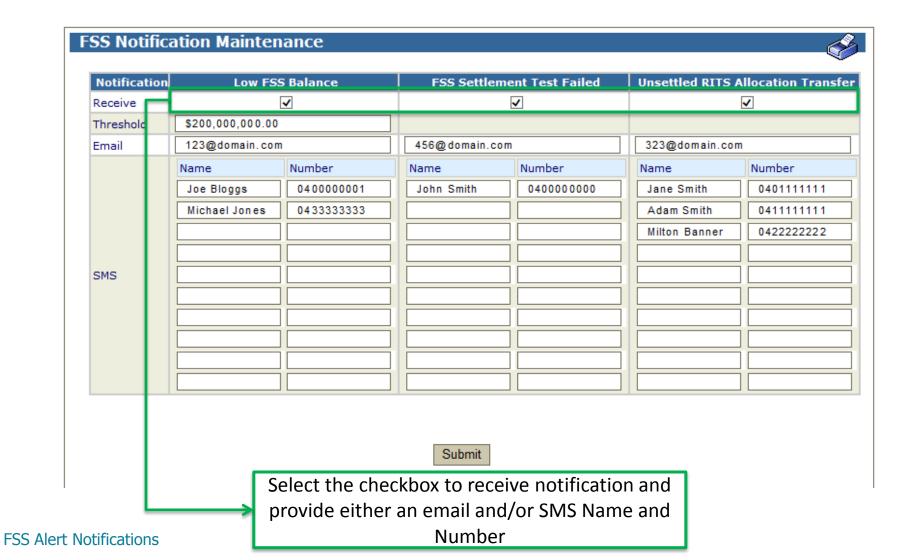
FSS (Alert) Notification Maintenance

FSS Alert Name	Description	Relevant Time Period
Unsettled Allocation Transfer	Notifies that the RITS System Queue was not able to immediately settle a RITS Allocation Transaction for an FSS Top-Up (e.g. due to insufficient RITS Balance)	RITS settlement hours only
FSS Settlement Test Failed	Notifies the paying NPP Participant that the FSS rejected a Settlement Request due to insufficient FSS ES Funds.	24/7
Low FSS Balance	Notifies that the FSS Balance has fallen below a nominated amount.	RITS non-settlement hours only

FSS Alert Notifications

FSS (Alert) Notification Maintenance

Members can elect to receive any of the optional alert notifications below

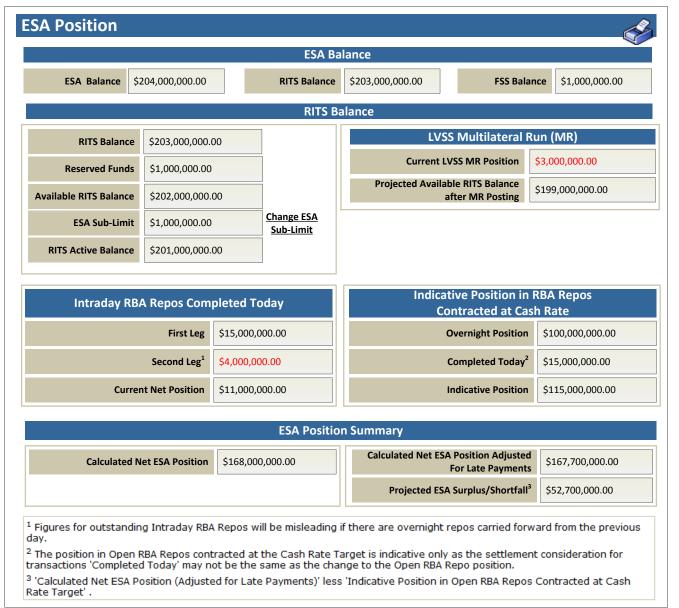


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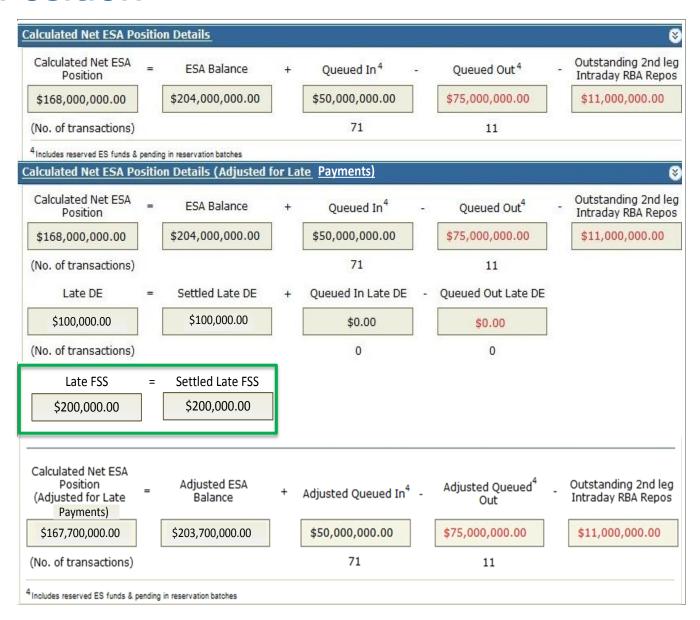
Squaring Up

- No change to existing squaring up arrangements
- Settlement of 'Late FSS' payments in line with current arrangements for 'Late DE'
- Enhancements to the existing ESA Position screen in RITS
- Timing of cash market close will not change

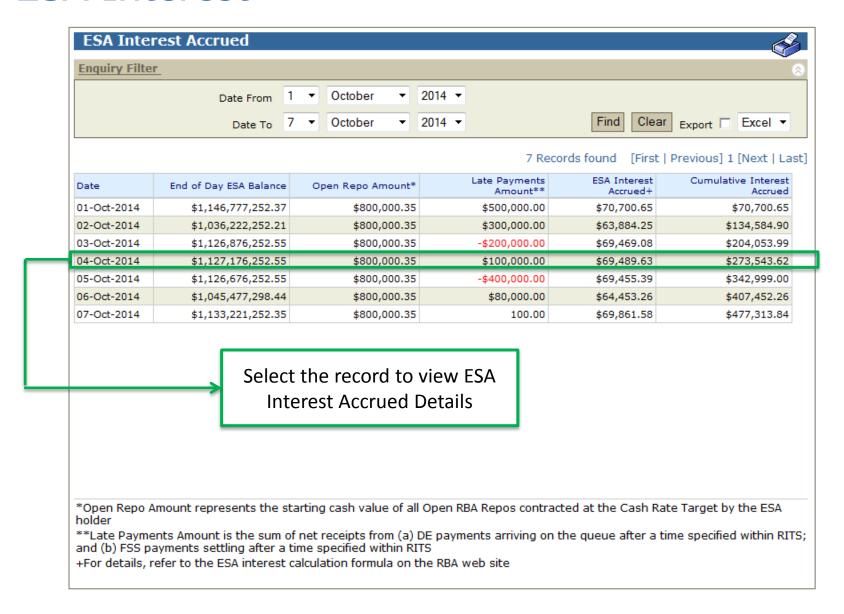
ESA Position



ESA Position



- As now paid on the first business day of the following month
- Matching ES funds against Open RBA Repo position earn interest at the Cash Rate Target
- Surplus ES funds will earn interest at 25 basis points below the Cash
 Rate Target
- The interest calculation will adjust the end-of-day ESA balance for `Late FSS' settlements



ESA Interest Accrued Details



Date	04-Oct-2014
End of Day ESA Balance	\$1,127,176,252.55
RITS Balance	\$0.00
FSS Balance	\$1,126,876,252.55
Open Repo Amount	\$800,000.35
Late Payments Amount	\$100,000.00
Late DE Amount	\$20,000.00
Late FSS Amount	\$80,000.00
Interest Adjustment	\$0.00
ESA Interest Accrued	\$69,489.63
Cumulative Interest Accrued	\$273,543.62

Close

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FSS Unavailability

- In the unlikely event of an FSS outage, NPP clearing can continue for up to 12 hours (subject to IRG decision during incident)
- Settlement Requests will be queued in Payer PAG/MQ, and released in a controlled manner once FSS is operational
- NPPA may optionally introduce value limits in case of a protracted outage
- FSS Service Notifications to nominated contacts (via email/SMS)

Other Contingency Scenarios

- Unavailability of Allocation transfers
 - RBA able to facilitate movement of ES funds between FSS and RITS
 - Participants may undertake Intraday Repos to obtain ES funds in RITS
- Unavailability of RITS (i.e. ES funds locked in RITS)
 - RBA may agree to provide FSS liquidity via repurchase agreement
 - NPPA may optionally introduce transaction value limits in case of a protracted outage
- RITS UI unavailability
 - RITS Help Desk may be contacted to arrange Assisted Transactions

FSS Incident Management

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RITS Help Desk

- Active monitoring of RITS and FSS
- Assist Members with setting up access for new users
- Assist with FSS setup
- Contact for settlement, reconciliation and ESA account queries
- Contact for RITS User Interface access issues
- The RITS Help Desk will be staffed on a continuous basis
- Contactable via phone or email (1800 659 360 or <u>rits@rba.gov.au</u>)

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FSS Setup Checklist

Performed by RITS Help Desk:

- Issue new tokens
- Complete Setup activities from submitted FSS Participant Forms

Performed by Member:

- Complete <u>User Access Request Form</u> for new users
- Link users to the new FS Branch
- Turn off cash account limit processing for the FS branch cash account
- Allocate new FSS roles to users
- Set FSS Triggers
- Select AIF messages

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 - Liquidity Arrangements ✓
- FSS Incident Management ✓
- RITS Help Desk ✓
- FSS Setup Checklist ✓
- Key Activities & Further Information

FSS Transition to Live – Key Activities

Date	Activity
By 10 November 2017	Participants submit completed FSS Participant Set-up forms
11-12 November 2017	Final FSS Deployment
13-17 November 2017	 RITS Help Desk to complete initial FSS Participant set up tasks (Participants will be set up with an inactive Allocation Transfer and NPP Payments status)
13-24 November 2017	 Participant Password Administrators assign relevant FSS roles to their RITS users. Participants select new optional FSS notifications Participants set FSS Allocation Triggers
By 24 November 2017	Participants submit FSS Readiness Declarations to RITS Help Desk
27 November 2017	 RITS Help Desk activates Allocation Transfers per Participant (Between 9am & 10am) First Intraday transfer from RITS balance to FSS balance (Between 9am & 10am) First end of day total balance transfer from RITS to FSS (10pm) Participants should select new optional FSS AIF statements
28 November 2017	 RITS Opens Early: First start of day Allocation Transfer from FSS to RITS (Shortly after 6:30am) RITS Help Desk activates NPP Payments per Participant (7:30am)

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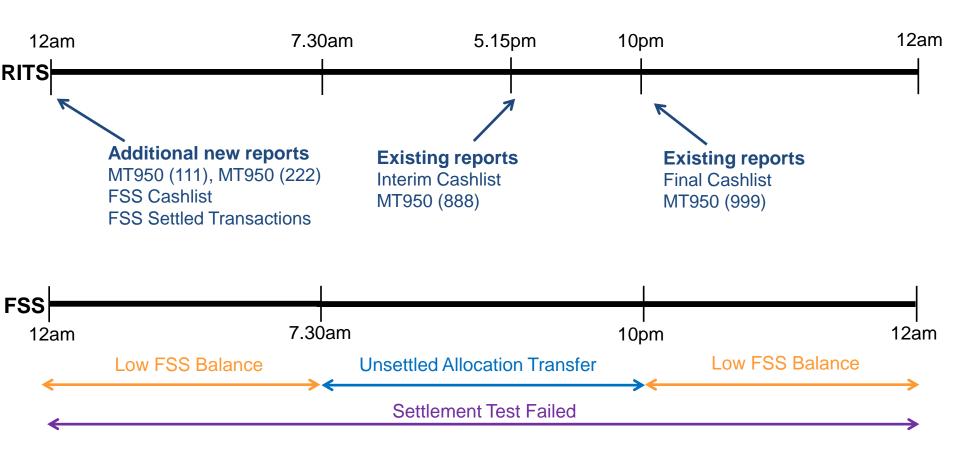
Further Information

Document(s)	Description	How to Access	
NPP RBA FSS Participant Setup Guide - Production V1.0 dated August 2017	Sets out the information that each FSS Participant must provide to the RITS Help Desk to facilitate their setup in the RITS Production Environment.	Available via RITS Information Facility	
FSS Drop 4 Release Guide V4.0 dated May 2017	Sets out details of the FSS functionality delivered, and to help FSS Participants gain familiarity with the functionality.	Available via RITS Information Facility	
RITS User Guides	The RITS User Guides have been updated which include details of the new FSS functionality.	Available via RITS Information Facility	
Information Paper: FSS Message Specifications V3.0 dated June 2016	Sets out the specifications for the messages sent and received by FSS. Includes details for the End-of-Day FSS Settled Transactions Report.	Available via RITS Information Facility	
FSS Information and Participant Considerations Paper V8.0 dated November 2015	Sets out the key concepts and process of the FSS. Details the range of messages, reports, alerts and intraday monitoring tools and features of the FSS.	Contact the RITS Help Desk	

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Spare Slides

RITS and FSS Day – Reporting and Alerts



The formula for calculating ES interest:

Daily interest = (ES x Cash Rate Target + (ES – Open SF Repo – after-hours DE – after hours NPP) x p) / 365

where

p = -0.0025 if (ES – Open SF Repo – after-hours DE – after-hours NPP) ≥ 0

p = +0.0025 if (ES – Open SF Repo – after-hours DE – after-hours NPP) < 0

Refer to the RBA Standing Facilities page for further details.