



End to End Reconciliation Reporting **Document Title:**

Service Description **Document Type:**

Release Independent Release:

This document specifies the reconciliation report output to satisfy Abstract:

the end to end reconciliation of the Banking and related services

and the Automated Payment Service (APS).

Document Status: Approved

Pete Jobson **Author & Dept:**

External Distribution: As Approver list

Security Risk Assessment Confirmed YES, security risks have been assessed, see section 0.9 for details.

Assessment C	ontirmed	
Approval Autho	prities:	
Name	Role	Signature Date
Steve Bansal	Fujitsu Senior Service Delivery Manager	See Dimensions for record
Dionne Harvey	Post Office Ltd IT Contracts Manager	See Dimensions for record

See Post Office Account HNG-X Reviewers/Approvers Role Matrix (PGM/DCM/ION/0001) for guidance. Note:

Ref: SVM/SDM/SD/0020 Version: 5.0

Date: 23-Apr-2020 Page No: 1 of 48





Document Control

Table of Contents 0.1

0.1 0.2	Table of Contents	3
0.3 0.4 0.5	Review DetailsAssociated Documents (Internal & External)	4
0.6 0.7	GlossaryChanges Expected	
0.8	Copyright	6
0.9	Security Risk Assessment	6
1	INTRODUCTION	
2	SCOPE	. 7
3	NETWORK BANKING RECONCILIATION REPORTS SPECIFIED	7
3.1	General Banking and Related Services Report Specifications	8
3.2 3.2.	NB000: Summary Report	9
	2 NB101: Network Banking Settlement Statement	
3.2.		
3.3	NB102: Exception Summary	15
3.3.		
	2 NB102: Rules	
3.4	System States	.39
4	APS RECONCILIATION	41
4.1	APS Reconciliation Report	43
4.2	APS Quarantined/Exceptioned Transaction Report	45
4.3	APS Report Delivery	46
4.4	External Transactions	.46
Α	TRANSACTION TYPES	48

SVM/SDM/SD/0020 5.0 Ref:

Version:

Date: 23-Apr-2020 Page No: 2 of 48





0.2 Document History

Version No.	Date	Summary of Changes and Reason for Issue	Associated Change - CP/PEAK/PPRR Reference
0.1	22/11/06	First draft for review.	N/A
1.0	02/02/07	Issued for approval.	N/A
1.1	27/10/08	Change of owner and Reviewers for CCN	
1.2	07/05/11	Post HNG-X Migration and change of owner	N/A
1.3	22-Jun-2011	Revisions following internal review	
2.0	22 Jun 11	Document Approved	
2.1	23 Nov 11	Release 5.5 Review	
3.0	4 May 12	Annual Review	
3.1	18 March 2013	Annual Review	
3.2	14 th Oct 2016	Clarifications added	
4.0	04-Sep-2017	Approval version [replaces CS/SPE/011]	
4.1	4th Oct 2019	Changes due to HNG-X/POLSAP Application Separation Changes due to Banking Changes to accommodate Non-Link Transactions	CT2561 CT1436
4.2	27 th Jan 2020	Remove the TPS interface to DRS (Feed of C112 messages)	CWO189a (Release 20.35)
4.3	04-Feb-2020	Amended reviewers, labelled changes for review purposes.	
4.4	27-Feb-2020	Remove DRS State E25 in response to comments	CWO189a
4.5	24-Mar-2020	Added Steve Page as Post Office reviewer	
4.6	2-Apr-2020	Updated in response to comments	
4.7	7-Apr-2020	Replace section 4 (APS Reconciliation) with new reconciliation reports generated from the Branch Database. Remove Section 5 (TPS Reconciliation) since TPS no longer	CWO0189a (Release 20.45)
		exists	
4.8	22-Apr-2020	Updated following comments from Steve Page, Bob Booth, Phil Boardman and SSC Team	
5.0	23-Apr-2020	Document Approved	

SVM/SDM/SD/0020 5.0 Ref:

Version:

Date: 23-Apr-2020 3 of 48 Page No:





0.3 Review Details

Review Comments by :					
Review Comments to : pete.jobsor	GRO ; POADocumentManagement{ GRO				
Mandatory Review					
Role	Name				
Head of IT Contract Management, Post Office Ltd	Dionne Harvey GRO				
Solution Architect, Post Office Ltd	Steve Page GRO Bob Booth GRO				
Senior Commercial Manager	Helen Venters				
SSC (for Configuration Management)	Adam Woodley; sscdm GRO				
Reconciliation Team	Sandie Bothick				
Service Architect	Phil Boardman				
Optional Review					
Role	Name				
Commercial Manager	Post Office Account Commercial Mailbox				
Security Architect	Dave Haywood; Adrian Ellis				
Application Development Manager	Graham Allen				
Business Continuity	Almizan Khan				
Network Operations Manager	Chris Harrison				
Systems Management Manager	Jerry Acton				
Operational Change/Release Management	Matt Swain				
Infrastructure Operations Manager	Andrew Hemingway				
Service Architecture Manager	Alex Kemp				
Application Lead SDM, Service Introduction	Sonia Hussain				
Security Operations Manager	Jason Muir				
Document Manager	Matthew Lenton				
Senior Service Delivery Manager	Steve Bansal				
Issued for Information – Please restrict this distribution list to a minimum					
Position/Role	Name				
Post Office Ltd Architect mailbox	eag(gro				

0.4 Associated Documents (Internal & External)

Reference	Version	Date	Title	Source
PGM/DCM/TEM/0001 (DO NOT REMOVE)			Fujitsu Services Post Office Account HNG- X Document Template	Dimensions
SVM/SDM/PRO/0012			Reconciliation and Incident Management - Joint Working Document	Dimensions
SVM/SDM/SD/0015			Reconciliation Service Description	Dimensions
NB/SPE/002			Network Banking DRS On-line Workstation Specification	Dimensions (PWY)

SVM/SDM/SD/0020 5.0 Ref:

Version:

Date: 23-Apr-2020 Page No: 4 of 48

^{(*) =} Reviewers that returned comments





Unless a specific version is referred to above, reference should be made to the current approved versions of the documents.

0.5 Abbreviations

Abbreviation	Definition		
APS	Automated Payment Service		
C12	A transaction record from the Horizon Counter or Self-Serve Kiosk		
C112	A transaction record from the Horizon Counter or Self-Serve Kiosk that has been delivered to POLSAP. This transaction no longer exists		
C4	A record of confirmation from a Financial Institution		
CTS	Client Transmission Summary		
D	A transaction record received from a Financial Institution that advises of a discrepancy		
DCP	Debit/Credit Card Payment		
DCS	Debit/Credit Card System		
DRS	Data Reconciliation Service		
ETS	Electronic Top-Up Service		
F99	A transaction state that indicates that a reconciliation error has been reported but POL has advised that the issue has subsequently been resolved. This state is set using the DRS Workstation application that is used by Fujitsu Security Operations team.		
FI	Financial Institutions		
ICC	Integrated Circuit Card		
MA	Merchant Acquirer		
PIN	Personal Identification Number		
PODG	Post Office Data Gateway		
POLDG	Post Office Limited Data Gateway – This is a platform that sits outside the Horizon system that is accessible by POL back office staff. PODG has a number of routes that deliver data files to and from this platform.		
POLSAP	Post Office Ltd. Consolidated SAP System		
S	A transaction record that is generated by the Debit Card Management server that advises DRS when the expected Settlement date is.		
TIP	An identifier that is printed on some of the reconciliation reports. The meaning of this identifier is described in the descriptive text that immediately follows the report layout definition later in this document		
TMS	Transaction Management Service		
TPS	Transaction Processing Service		

0.6 Glossary

Term	Definition		
Bank_Transaction_Id	Message sequence number assigned by the message originator, to assist in identifying a transaction uniquely. Stays unchanged through the life of the transaction.		
C4 Settlement Date	The Settlement Date provided on the C4 transaction.		
Credence	Post Office Ltd. Management Information Service		
Exception Types	Within all reports the 'Exceptions' category will include:		
	 'Incomplete States', i.e. those transactions where one or more transaction component is missing – a C4 without a C12 etc 		
	Genuine exceptions where transaction components belonging to the same high level		

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: SVM/SDM/SD/0020

Version: 5.0

Date: 23-Apr-2020 Page No: 5 of 48





	transaction are of different value, e.g. C12 (amount) not = to C4 (amount). Transaction corruptions
HNG-X_Txn_Num	Unique transaction number to be used in all messages between HNG-X and the FIs relating to the transaction. Generated by HNG-X and provided in the request message initiating the transaction.
'New' Transactions	Transactions that have had a change of state since they were last reported, or have never been reported except in NB102 section 6. Note that if a transaction appears in NB102 section 6 it is future dated as is reported in that section for information only. Once future dated transactions become current dated, they must be reported as though they have not appeared on the reports before.
'Old' Transactions	Transactions that have NOT had a change of state since they were last reported.
POLSAP Transactions	POLSAP was retired in 2019 and POLSAP transactions do not exist
POLSAP	Post Office Ltd Consolidated SAP System. This system no longer exists
Receipt Date	Receipt Date is the Date as printed on the transaction Receipt at the Counter. It forms part of all transactions.
Receipt Time	Receipt Time is the Time as printed on the transaction Receipt at the Counter. It forms part of all transactions.
Reconciliation Date	The Reconciliation Date is the date attributed to a transaction to allow Post Office Ltd. to reconcile. It will be set the first available Bank Settlement date from the transaction elements (C12, C4, S & D) that make up a Network Banking transaction. If no Bank Settlement date is available, the Reconciliation Date will be set to the processing date that the Data Reconciliation Service first recorded any element of the transaction being received. If a Settlement date subsequently becomes available, the first available Bank Settlement date will replace the processing date. However, once a transaction has been accounted for on the reconciliation reports, the Reconciliation Date will never change.
Routing Gateway	Identifies a system, where the authorisation for a specific transaction should be sought.
Run Date	This is the System Processing Date for which the report refers, i.e. all transaction components processed by the DRS on System Processing Date dd/mm/yyyy are accounted for on this report.
Settlement Date	Settlement Date is often the same as Run Date but some Financial Institutions may assign a Settlement Date in the future: e.g. the following Monday may be set on transactions processed on the preceding Friday, Saturday and Sunday.
Txn_Type	See Appendix A - Transaction Types

0.7 Changes Expected

Changes

0.8 Copyright

© Copyright Fujitsu Services Limited 2006-2020. All rights reserved. No part of this document may be reproduced, stored or transmitted in any form without the prior written permission of Fujitsu Services.

0.9 Security Risk Assessment

Security risks have been assessed and it is considered that there are no security risks relating specifically to this document.

Ref: SVM/SDM/SD/0020

Version: 5.0

Date: 23-Apr-2020 Page No: 6 of 48





1 Introduction

This document has been compiled to specify Fujitsu Services outputs from the Data Reconciliation Service (DRS) and the Automated Payment Service (APS) so as to enable a generic end to end reconciliation of

- 1. Banking and Related Services transactions, which includes DCS and ETS
- 2. Automated Payment System (APS)

2 Scope

This document defines the format and content of all reconciliation reports for HNG-X, which satisfies the DRS and APS reconciliation requirement. It does not attempt to define within the operating systems how the transactions are processed.

This document does not attempt to define the business processes undertaken within Fujitsu Services and Post Office Ltd. with respect to the resolution of any exceptions which may arise, nor does it scope the requirement for any systems that may be required to assist in this process. This information can be found in the associated documents, reference:-

SVM/SDM/PRO/0012: Reconciliation and Incident Management - Joint Working Document

3 Network Banking Reconciliation Reports Specified

For Network banking services each of the Post Office Ltd. Clients, as dictated by Routing Gateway, will require a separate reconciliation report set.

Within this report set, separate reports will be provided as per the following table:-

Report	Deposit	Withdrawal
Number	Transactions	Transactions
NB101	Combined Report	
NB102	Combined Report	

NB000 is a combined report for all Routing Gateways.

The format and content of each Client's report is considered to be identical when allowing for these specific requirements. It should therefore be understood that the specifications documented here are applicable to each Client report set (specific Client requirements outside of this reporting specification are not covered within this document).

There must be a separate set of reports to provide for transactions for which the Routing Gateway and/or Transaction Type is not known.

Non-Financial transactions such as Balance Enquiries and PIN changes are explicitly excluded from the report set as 'Not Required by Post Office Ltd.'

No report will mix currency, so if ever the transactions selected to appear on a set of reports are not of a single currency, then a separate set of reports will be produced for each currency. All the amounts in a single transaction will always use the same currency

NB000: DRS Summary

NB101: Network Banking Settlement Statement

006- FUJITSU RESTRICTED
(COMMERCIAL IN CONFIDENCE)

 Ref:
 SVM/SDM/SD/0020

 Version:
 5.0

Date: 23-Apr-2020 Page No: 7 of 48





NB102: Exception Summary

Rows and columns are described in detail, together with the mathematical calculations required to achieve reconciliation.

All general aspects relating to the production and transmission of the reports are described.

NB: It should be noted that where a system 'State' definition is quoted, this takes precedence over any narrative which has only been provided to help understand the business processes.

3.1 General Banking and Related Services Report Specifications

A separate set of reports is produced for each Post Office Ltd. Client as identified by the Routing Gateway (For example: Santander and POCa being single Clients and Vocalink being split into 2 separate clients). The specification is general to all reports sets.

- 1. For volumes and values the accounting sense for reporting purposes to allow settlement totals to be correctly derived, will be:
 - Absolute volume
 - Net value
 - Where no value reported show "0.00"
 - Where no volume reported show 0
 - -ve values will be shown in parenthesis e.g. (nnn.nn)
- 2. Each report will show the following general information:
 - Report title including the Client name (derived from Routing Gateway.)
 - Transaction Type (if applicable)
 - Report 'Run Date' i.e., the period for which the report refers
 - · Production date and time
 - · Fujitsu Services report number
 - Fujitsu Services reference
- 3. Where 'Received' and 'Reconciliation Date' are quoted against time parameters:
 - 'Received = New': defines transactions that have had a change of state since they were last reported, or have never been reported, except in NB102 section 6
 - 'Received = Old': defines transactions that have NOT had a change of state since they
 were last reported
- 4. Reports: NB000, NB101 and NB102 will be produced **DAILY**. They will be delivered by 08.00hrs the day following the Run Date to:
 - Post Office Ltd. Delivered by PODG to POLDG.
 - Fujitsu Services CS, DRS Workstation. A copy of all the reconciliation files is gathered
 onto the SSC server and extracted via the RDT version of PODG to be delivered
 automatically to the Security Operations group mailbox
- 5. Within report NB 102 the 'Exceptions' category will include:
 - 'Incomplete States', i.e. those transactions where one or more transaction component is missing – a C4 without a C12 etc.
 - Genuine exceptions where transaction components belonging to the same high level transaction have been exceptioned, e.g. C12 (amount) not = to C4 (amount).

Transaction corruptions

Version: 5.0

Date: 23-Apr-2020

Page No: 8 of 48

Ref:

SVM/SDM/SD/0020





- 6. For clarity within this document, field sizes are shown within 'Report Layout' and not within the 'Data Definition'
- 7. All reports are run against a consistent data set.
- 8. All reports will be produced as ASCII text files one for each report. The report layout will be fixed format with space characters providing the blank space. This will allow for 'Excel' input, using fixed field width facilities. The formatting (lines and shading referred to in this document) will not be included within the file. Every line will have the character 'newline', Hex '0A', as the last character. Each report will have the text "End of Report" as the last line.
- 9. See also comments in Section 2: 'Scope'

3.2 NB000: Summary Report

This report summarises all reconciliation reports produced by the DRS. It also summarises all reports that were not produced by the DRS because there was no data to report.

3.2.1 NB000: Rules

- 1. Reports are listed by application type, Routing Gateway, and report number.
- 2. Where a report is produced, the filename will be shown.
- 3. Where for a routing gateway, there is some data to report, but for a specific report there is no data, then the filename will be replaced by [NO DATA].

Where for a routing gateway there is no data at all, the application type cannot be shown and the file name will be replaced by [NIL RETURN].

 Ref:
 SVM/SDM/SD/0020

 Version:
 5.0

Date: 23-Apr-2020 Page No: 9 of 48





NB000: Report Layout 3.2.1.1

NB000: DRS Summary Report	Client: All	Produced on: dd/mm/yyyy at hh:hh:ss
Run Date: dd/mm/yyyy	Transaction Type: All	

Application Type	Routing Gateway Number	Routing Gateway Name	Report Number	Report Section	Filename
APP	999999999	30 character name	NB999	99	appyyyymmddgggggggggNBnnnsstttcur.TXT
End of Report				PRINTED	
			TROLLED I		
		ne of			

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE) Ref: Version: SVM/SDM/SD/0020 5.0

Date: 23-Apr-2020 Page No: 10 of 48





3.2.1.2 NB000: Data Definition

NB000: DRS Summary Report	Client: All	Produced on: (Date / Time of report production)
Run Date : (The period for which the report refers)	Transaction Type: All	

Application Type	Routing Gateway Number	Routing Gateway Name	Report Number	Report Section	Filename
Application Type (e.g.	Routing Gateway number. Will be "-" for	Routing Gateway name. Will be "ALL CLIENTS"	Shows each report number for each	Shows each report section	Where there is data for a report the filename will be shown:
NBS or DCP). Will be "-"	reports NB102 sections 6 and 12 as there are single reports for all	for reports NB102 sections 6 and 12 as there are single reports for all routing	routing gateway	for each report number	appyyyymmddggggggggggNBnnnsstttcur.TXT, where
where no application type is	routing gateways. Repeated for each routing gateway within		CROLLED IF	La har ye	app is a 3 character application code (e.g. Banking and Related Services or DCP)
known.	application type	numoei			yyyymmdd is the report run date
Repeated for each application type.		Macak	LEG		 ggggggggg is the routing gateway number. For reports NB102 Sections 6 and 12 use '0000000ALL'
type.					NBnnnss is the report number and section
					 ttt is the transaction group. For NB101, and NB102, this will be 'ALL'. cur is the currency e.g. GBP
					Where for a routing gateway, there is some data to report, but for a specific report there is no data, then show [NO DATA]. Where for a routing gateway there is no data at all (the application type is "-") show [NIL RETURN].

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: Page No:

23-Apr-2020 11 of 48





3.2.2 NB101: Network Banking Settlement Statement

This report identifies 'C4' transactions received against each 'C4 Settlement Date' as reported to the DRS for the most recent processing date. The report will be used by Post Office Ltd. as a basis for settlement of Network Banking transactions with the Financial Institutions (FIs).

3.2.3 NB101: Rules

- 1. NB101 is run daily
- 2. NB101 is repeated for each Routing Gateway
- 3. NB101 will show 'C4' transactions received for ONE day only breaking these down into individual 'C4 Settlement Dates' There will be one line for each 'C4 Settlement Date'
- 4. NB101 will show Deposit and Withdrawal transactions in separate columns, (headed 'Receipts' and 'Payments' respectively) derived from 'Txn Type'
- 5. NB101 will show a final settlement column derived in the following way:
 - Volume: Volume of Deposits plus Volume of Withdrawals
 - Value: Value of Deposits minus Value of Withdrawals
 - Where the net total is negative i.e. the Value of Withdrawals exceeds the Value of Deposits, the total will be shown as (xxx.xx)
- 6. Where the volume for a given C4 Settlement Date' is nil, the date will not be reported.
- 7. 'C4 Settlement Dates' are shown in reverse chronological order.
- 8. Where there is more than one institution with the same Routing Gateway, the values for the institutions will be shown individually provided the transaction volume for that institution is greater than zero.

 Ref:
 SVM/SDM/SD/0020

 Version:
 5.0

Date: 23-Apr-2020 Page No: 12 of 48





NB101: Report Layout 3.2.3.1

NB 101: Network Banking Settlement Statement	Client: NBX Link Interchange Network	Produced on: dd/mm/yyyy at hh:mm:ss
Run Date: dd/mm/yyyy	Transaction Type: Deposit & Withdrawal	Currency: GBP

	Rec	ceipts	Pay	ments	Net Se	ttlement	Institution Name
C4 Settlement Date	Volume	Value	Volume	Value	Volume	Value	
dd/mm/yyyy	99,999,999	9,999,999,999.99	99,999,999	9,999,999,999.99	99,999,999	9,999,999,999.99	X(40)
dd/mm/yyyy	99,999,999	9,999,999,999.99	99,999,999	9,999,999,999.99	99,999,999	9,999,999,999.99	X(40)
Sub Total	99,999,999	9,999,999,999.99	99,999,999	9,999,999,999.99	99,999,999	9,999,999,999.99	
dd/mm/yyyy	99,999,999	9,999,999,999.99	99,999,999	9,999,999,999.99	99,999,999	9,999,999,999.99	X(40)
dd/mm/yyyy	99,999,999	9,999,999,999.99	99,999,999	9,999,999,999.99	99,999,999	9,999,999,999.99	X(40)
Sub Total	99,999,999	9,999,999,999.99	99,999,999	9,999,999,999.99	99,999,999	9,999,999,999.99	
TOTAL	999,999,999	9,999,999,999.99	999,999,999	9,999,999,999.99	999,999,999	9,999,999,999.99	

End of Report

SVM/SDM/SD/0020 5.0 Ref:

Version:

23-Apr-2020 13 of 48 Date: Page No:





3.2.3.2 NB101: Data Definition

NB 101: Network Banking Settlement Statement	Client: (Derived from 'Routing Gateway')	Produced on: (Date / Time of report production)
Run Date: (The period for which the report refers)	Transaction Type: Deposit & Withdrawal	Currency: (Derived from 'currency')

	Rec	ceipts	Pay	ments	Net S	ettlement	Institution Name
C4 Settlement Date	Volume	Value	Volume	Value	Volume	Value	
Date 1	No. of C4 Deposits Rec'd	Value of C4 Deposits Rec'd	No. of C4 Withdrawals Rec'd	Value of C4 Withdrawals Rec'd	No. of C4 Deposits Rec'd + No of C4 Withdrawals Rec'd	Value of C4 Deposits Rec'd – Value of C4 Withdrawals Rec'd	Institution within Routing Gateway
Date 1	No. of C4 Deposits Rec'd	Value of C4 Deposits Rec'd	No. of C4 Withdrawals Rec'd	Value of C4 Withdrawals Rec'd	No. of C4 Deposits Rec'd + No of C4 Withdrawals Rec'd	Value of C4 Deposits Rec'd – Value of C4 Withdrawals Rec'd	Institution within Routing Gateway Repeat Date 1 for each Institution with non zero volume.
Sub Total	Total for Date 1	Total for Date 1	Total for Date 1	Total for Date 1	Total for Date	Total for Date 1	
Repeat Date and Sub	Repeat Date and Sub Total rows for each date that there is data to report.						1
TOTAL	Total All Dates	Total All Dates	Total All Dates	Total All Dates	Total All Dates	Total All Dates	

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: 23-Apr-2020 Page No: 14 of 48





NB102: Exception Summary

This report is divided into twelve sections:

- Section 1: All Uncleared Confirmed & Unconfirmed exceptions
- Section 2: Uncleared Exceptioned Client Transactions
- Section 3: Uncleared Corruptions
- Section 4: Uncleared Timing Differences
- Section 5: Uncleared Confirmed & Unconfirmed exceptions >24 hours
- Section 6: Uncleared Future Dated Transactions by Client
- Section 7: All Cleared Confirmed & Unconfirmed exceptions
- Section 8: Cleared Exceptioned Client Transactions
- Section 9: Cleared Corruptions
- Section 10: Cleared Timing Differences
- Section 11: Cleared Confirmed &Unconfirmed exceptions >24 hours
- Section 12: Cleared Future Dated Transactions by Client

Liability issues are not covered within this document, nor are the business processes involved in the resolution of any exception.

3.3.1 **NB102: POLSAP Definition**

The DRS Reports refer to the POLSAP system that has now been decommissioned. The POLSAP system used to receive its transaction feed from the legacy TPS system and it was the feed of C112 messages from TPS that gave assurance that there was reconciliation with POLSAP.

Neither POLSAP or the C112 messages remain.

3.3.2 NB102: Rules

- 1. NB102 is run daily
- 2. NB102 is repeated for each Routing Gateway.
- 3. For each report section, the column 'Values' will be partitioned into 8 sub columns to contain the values for: 'C12', 'S', 'C4', 'C112' & the four values from a 'D' which are: Amount Requested, Amount Authorised, Amount Confirmed, Amount Discrepancy. The reports will populate all values that are available. Since the C112 message no longer exists, the C112 columns will always be blank.
- 4. For reporting purposes, within NB102 sections 2, 3, 4, 5, 8, 9, 10 & 11, the column headed 'CAP' will be blank.
- 5. For reporting purposes within NB102 sections 2, 3, 4, 5, 8, 9, 10, 11, the column headed 'Discrepancy Type' will report the 'D' discrepancy type.

Where no 'D' transaction element has been received, the 'Discrepancy Type' will be blank

- Where an exception is set to F99 by Fujitsu Services, clearance of this exception within the appropriate NB102 section, (e.g. section 2 exceptions shown as cleared within section 8), will always refer to the previously reported state regardless of any change of state which may have occurred within the DRS.
- 7. All Uncleared Confirmed & Unconfirmed exceptions are reported as summary totals by exception type - (NB102 section 1)

Uncleared Exceptioned Client Transactions are listed individually - (NB102 section 2)

Ref: SVM/SDM/SD/0020 **FUJITSU RESTRICTED**

(COMMERCIAL IN CONFIDENCE)

Version: Date: 23-Apr-2020 Page No: 15 of 48

5.0





- 9. Uncleared Transaction corruptions exceptions are listed individually (NB102 section 3)
- 10. Uncleared Timing Differences are listed individually (NB102 section 4)
- 11. Uncleared Confirmed & Unconfirmed exceptions >24 hours are listed individually (NB102 section 5)
- 12. Uncleared Future Dated Transactions are reported as summary totals by Client identified by Routing Gateway (NB102 Section 6)
- 13. All Cleared Confirmed & Unconfirmed exceptions are reported as summary totals by exception type (NB102 section 7)
- 14. Cleared Exceptioned Client Transactions are listed individually (NB102 section 8)
- 15. Cleared Transaction corruptions are listed individually (NB102 section 9)
- 16. Cleared Timing differences are listed individually (NB102 section 10)
- 17. Cleared Confirmed & Unconfirmed exceptions >24 hours are listed individually (NB102 section 11)
- 18. Cleared Future Dated Transactions are reported as summary totals by Client identified by Routing Gateway (NB102 Section 12)
- 19. Within each section, exception summary totals / individual transactions are to be grouped and sub totalled by reconciliation date with a total provided for the entire section.
- 20. For reporting purposes:
 - <u>Timing Differences</u>: relate to differences in the reconciliation date / settlement date allocated where a settlement date on a transaction element is not the same as the reconciliation date first reported on that transaction.
 - Future Dated Transactions: relate to those transactions that have a Reconciliation Date ahead of the Run Date of the report. For example, most Clients will settle Friday, Saturday and Sunday transactions on the following Monday. This means that each transaction completed on these days will have a Reconciliation Date ahead of the Run Date of the report. These transactions are expected to clear naturally once the Reconciliation Date and the Run Date are in sync, however in the rare eventuality that a Reconciliation Date is considerably ahead of the Run Date, Post Office Ltd. may wish to clear the exception manually. In this case, Fujitsu Services will set the transaction to 'F99'.
- 21. For reporting purposes, within NB102 sections 2, 3, 4, 5, 8, 9, 10 and 11 the column headed 'Transaction Type' will be populated by the Txn Type codes as defined in Appendix A Transaction Types
- 22. For Banking and Related Services reconciliation reporting, System States 8, 9, 10, 11, 16, 17, 18, 19, 20, 21, 22, 23, E05, E06, E07, E14, E22, E24, E31, E32, E33, E38 are never expected within report NB102 because 'S' transactions are not used in NB.

Ref: SVM/SDM/SD/0020

Version: 5.0

Date: 23-Apr-2020 Page No: 16 of 48





3.3.2.1 NB102: Section 1: All Uncleared Confirmed & Unconfirmed exceptions

3.3.2.1.1 NB102: Section 1 - Report Layout

NB102 Section 1: All Uncleared Confirmed, Unconfirmed & POL FS exceptions	3	Produced on: dd/mm/yyyy at hh:mm:ss
Run Date: dd/mm/yyyy	Transaction Type: Deposit & Withdrawal	Currency: GBP

Exception Type	Reconciliation Date	Volume	Values (8 sub columns)
State 1 etc	dd/mm/yyyy	99999999	9999999999999
State 2 etc	dd/mm/yyyy	99999999	9999999999.99
Sub total		99999999	9999999999.99
State E02 etc	dd/mm/yyyy	99999999	9999999999.99
Sub total		99999999	9999999999.99
Total Section 1		999999999	9999999999999

End of Report

 Ref:
 SVM/SDM/SD/0020

 Version:
 5.0

Date: 23-Apr-2020 Page No: 17 of 48





NB102: Section 1 - Data Definition 3.3.2.1.2

Note that POL FS (POLSAP) no longer exists and report columns relating to the associated C112 messages will therefore be blank.

NB102 Section 1: All Uncleared	Client: (Derived from Routing	Produced on:
Confirmed, Unconfirmed & POL	Gateway.)	(Date and time of report
FS exceptions		production)
Run Date: (The period for which	Transaction Type: Deposit &	Currency: (Derived from
the report refers)	Withdrawal	'currency')
_		

Exception Type / Reconciliation Date	Volume	Values (8 sub columns) Value of each transaction component
One row for each system state where exceptions are being reported grouped within reconciliation date with a sub total for each reconciliation date and a grand total for the section. Where no data is being reported against an exception state, the row for that exception state is to be suppressed. Where dates are shown for the same exception type, list in descending order	System State: 1-2, 4-11, 16-18, E0 E20-24, E32, E34-E36, E38 Received = New + Old Reconciliation date: < = Run Date	01-02 E04-06, E10-12, E14,

End of Report

SVM/SDM/SD/0020 5.0 Ref:

Version:

Date: 23-Apr-2020 Page No: 18 of 48





3.3.2.2 NB102: Section 2: Uncleared Exceptioned Client Transactions

3.3.2.2.1 **NB102: Section 2 – Report Layout**

NB102 Section 2: Uncleared	Client: NBX Link Interchange Network	Produced on: dd/mm/yyyy at hh:mm:ss
Exceptioned Client Transactions		
Run Date: dd/mm/yyyy	Transaction Type: Deposit &	Currency: GBP
	Withdrawal	

Exception	Reconciliation	Horizon Txn	Transaction	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy	Values (8 sub
Type	Date	Id	Type		_	_		Type	columns)
E13	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
E13	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
State 12	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
E13	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
Total Section 2									9999999999.99

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: 23-Apr-2020 Page No: 19 of 48





3.3.2.2.2 NB102: Section 2 – Data Definition

NB102 Section 2: Uncleared	Client: (Derived from Routing	Produced on: (Date and time of production)
Exceptioned Client Transactions	Gateway.)	
Run Date: (The period for which	Transaction Type: Deposit &	Currency: (Derived from 'currency')
the report refers)	Withdrawal	

Exception Type / Reconciliation Date	Horizon Txn Id	Transaction Type	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy Type	Values (8 sub columns)
One row for each exception, with specific system states listed in order, grouped within reconciliation date with a sub	Horizon_Txn_ Num	Txn_Type	Bank_Transact ion_Id	Receipt_Transa ction_Date	Receipt_Transa ction_Time		Discrepancy_R eason_Codes	Value of each transaction component
total for each reconciliation date and a grand total for the section. Where dates are shown for the same exception type, list in descending order.	System State: 12 Received = New Reconciliation da	+ Old	E07 – E09, E13, E	225 – E26, E33, E	37			

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: 23-Apr-2020 Page No: 20 of 48





3.3.2.3 NB102: Section 3: Uncleared Corruptions

3.3.2.3.1 **NB102: Section 3 – Report Layout**

NB102 Section 3: Uncleared	Client: NBX Link Interchange Network	Produced on: dd/mm/yyyy at hh:mm:ss
Corruption's		
Run Date: dd/mm/yyyy	Transaction Type: Deposit &	Currency: GBP
	Withdrawal	

Exception	Reconciliation	Horizon Txn	Transaction	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy	Values (8(8
Type	Date	Id	Type					Type	sub columns)
E28	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
E29	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
E31	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
E31	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
Total Section 3									9999999999.99

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: Page No:

23-Apr-2020 21 of 48





3.3.2.3.2 NB102: Section 3 – Data Definition

NB102 Section 3: Uncleared	Client: (Derived from Routing	Produced on: (Date and time of production)
corruption's	Gateway.)	
Run Date: (The period for which	Transaction Type: Deposit &	Currency: (Derived from 'currency')
the report refers)	Withdrawal	

Exception Type / Reconciliation Date	Horizon Txn Id	Transaction Type	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy Type	Values (8 sub columns)
One row for each corruption, with specific system states listed in order, grouped within	Horizon_Txn_ Num	Txn_Type	Bank_Transact ion_Id	Receipt_Transa ction_Date	Receipt_Transa ction_Time		Discrepancy_R eason_Codes	Value of each transaction component
reconciliation date with a sub total for each reconciliation date and a grand total for the section. Where dates are shown for the same exception type, list in descending order.	System State: E2 Received = New Reconciliation da							

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: 23-Apr-2020 Page No: 22 of 48





3.3.2.4 NB102: Section 4: Uncleared Timing Differences

3.3.2.4.1 NB102: Section 4 - Report Layout

NB102 Section 4: Uncleared	Client: NBX Link Interchange Network	Produced on: dd/mm/yyyy at hh:mm:ss
Timing Differences		
Run Date: dd/mm/yyyy	Transaction Type: Deposit &	Currency: GBP
	Withdrawal	

Exception	Reconciliation	Horizon Txn	Transaction	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy	Values (8 sub
Type	Date	Id	Type					Type	columns)
E39	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
E39	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
E39	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
E39	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
Total Section 4									9999999999.99

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: Page No:

23-Apr-2020 23 of 48





3.3.2.4.2 NB102: Section 4 – Data Definition

NB102 Section 4: Uncleared	Client: (Derived from Routing	Produced on: (Date and time of production)
Timing Differences	Gateway.)	
Run Date: (The period for which	Transaction Type: Deposit &	Currency: (Derived from 'currency')
the report refers)	Withdrawal	

Exception Type / Reconciliation Date	Horizon Txn Id	Transaction Type	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy Type	Values (8 sub columns)
One row for each timing	Horizon_Txn_	Txn_Type	Bank_Transact	Receipt_Transa	Receipt_Transa		Discrepancy_R	Value of each
difference, grouped within	Num		ion_Id	ction_Date	ction_Time		eason_Codes	transaction
reconciliation date with a sub								component
total for each reconciliation	System State: E3	20						
date and a grand total for the	Received = New							
section. Where dates are shown	Reconciliation da							
for the same exception type, list	Keconemation da	iic. \ - Kun Daic						
in descending order.								

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: Page No:

23-Apr-2020 24 of 48





3.3.2.5 NB102: Section 5: Uncleared Confirmed & Unconfirmed exceptions >24 hours

3.3.2.5.1 **NB102: Section 5 – Report Layout**

NB102 Section 5: Uncleared	Client: NBX Link Interchange Network	Produced on: dd/mm/yyyy at hh:mm:ss
Confirmed, Unconfirmed & POL		
FS exceptions >24 hours		
Run Date: dd/mm/yyyy	Transaction Type: Deposit &	Currency: GBP
	Withdrawal	

Exception	Reconciliation	Horizon Txn	Transaction	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy	Values (8 sub
Type	Date	Id	Type					Type	columns)
State 1	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
State 2	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
State 6	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
State 6	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
Total Section 5									9999999999.99

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: 23 Page No: 25

23-Apr-2020 25 of 48





3.3.2.5.2 NB102: Section 5 – Data Definition

Note that POL FS (POLSAP) no longer exists and report columns relating to the associated C112 messages will therefore be blank.

NB102 Section 5: Uncleared	Client: (Derived from Routing	Produced on: (Date and time of production)
Confirmed, Unconfirmed & POL	Gateway.)	
FS exceptions >24 hours		
Run Date: (The period for which	Transaction Type: Deposit &	Currency: (Derived from 'currency')
the report refers)	Withdrawal	

Exception Type / Reconciliation	Horizon Txn	Transaction	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy	Values (8 sub
Date	Id	Туре					Type	columns)
One row for each exception, with	Horizon_Txn_	Txn_Type	Bank_Transacti	Receipt_Trans	Receipt_Trans		Discrepancy_R	Value of each
specific system states listed in order,	Num		on_Id	action_Date	action_Time		eason_Codes	transaction
grouped within reconciliation date								component
with a sub total for each reconciliation date and a grand total for the section. Where dates are shown for the same exception type, list in descending order.	Received = Old Reconciliation d	late: < Run Date	E01-02 E04-06, its have remained in	, ,	, ,	,		

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: 23-Apr-2020 Page No: 26 of 48





NB102: Section 6: Uncleared Future Dated Transactions by Client 3.3.2.6

NB102: Section 6 - Report Layout 3.3.2.6.1

NB102 Section 6: Uncleared Future Dated Transactions by Client	All Clients	Produced on: dd/mm/yyyy at hh:mm:ss
Run Date: dd/mm/yyyy	Transaction Type: Deposit & Withdrawal	Currency: GBP

Client	Reconciliation Date	Volume	Values (8 sub columns)	
LINK	dd/mm/yyyy	99999999	9999999999.99	
Lloyds	dd/mm/yyyy	99999999	9999999999.99	
Total Section 11		999999999	9999999999.99	

End of Report

3.3.2.6.2 NB102: Section 6 - Data Definition

NB102 Section 6: Uncleared	All Clients	Produced on:		
Future Dated Transactions by		(Date and tim	e of report	
Client		production)		
Run Date: (The period for which the report refers)	Transaction Type: Deposit & Withdrawal	Currency: 'currency')	(Derived	from

Client / Reconciliation Date	Volume	Values (8 sub columns)
One row for each Client derived from	System State: All States excluding	ng F99
Routing Gateway where transactions have	Reconciliation date: > Run Date	
been received with a reconciliation date		
ahead of the run date. Where dates are		
shown for the same exception type, list in		
descending order.		

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

SVM/SDM/SD/0020 5.0 Ref:

Version:

Date: 23-Apr-2020 Page No: 27 of 48





3.3.2.7 NB102: Section 7: All Cleared Confirmed & Unconfirmed exceptions

3.3.2.7.1 **NB102: Section 7 – Report Layout**

NB102 Section 7: All Cleared Confirmed, Unconfirmed & POL FS exceptions	Client: NBX Link Interchange Network	Produced on: dd/mm/yyyy at hh:mm:ss
Run Date: dd/mm/yyyy	Transaction Type: Deposit & Withdrawal	Currency: GBP

Exception Type	Reconciliation Date	Volume	Values (8 sub columns)
State 1 etc	dd/mm/yyyy	99999999	9999999999999
State 2 etc	dd/mm/yyyy	99999999	9999999999999
Sub total		99999999	9999999999999
State E02 etc	dd/mm/yyyy	99999999	9999999999999
Sub total		99999999	9999999999999
Total Section 1		999999999	9999999999999

End of Report

3.3.2.7.2 NB102: Section 7 - Data Definition

Note that POL FS (POLSAP) no longer exists and report columns relating to the associated C112 messages will therefore be blank.

NB102 Section 7: All Cleared	Client: (Derived from Routing	Produced on:
Confirmed, Unconfirmed & POL	Gateway.)	(Date and time of report
FS exceptions		production)
Run Date: (The period for which	Transaction Type: Deposit &	Currency: (Derived from
the report refers)	Withdrawal	'currency')

Exception Type / Reconciliation	Volume	Values (8 sub columns)
Date		Value of each transaction
		component
One row for each system state	For last reported System States: 1-	2, 4-11, 16-18, E01-02, E04-06,
where exceptions are being	E10-12, E14, E20-24, E32, E34 -3	6, E38
reported grouped within	Set to F99: New	
reconciliation date with a sub total	Reconciliation date: <= Run Date	
for each reconciliation date and a		
grand total for the section. Where		
no data is being reported against		
an exception state, the row for that		
exception state is to be suppressed.		
Where dates are shown for the		
same exception type, list in		
descending order.		

End of Report

Ref: SVM/SDM/SD/0020

Version: 5.0

Date: 23-Apr-2020 Page No: 28 of 48





3.3.2.8 NB102: Section 8: Cleared Exceptioned Client Transactions

3.3.2.8.1 **NB102: Section 8 – Report Layout**

NB102 Section 8: Cleared	Client: NBX Link Interchange Network	Produced on: dd/mm/yyyy at hh:mm:ss
Exceptioned Client Transactions		
Run Date: dd/mm/yyyy	Transaction Type: Deposit &	Currency: GBP
	Withdrawal	

Exception	Reconciliation	Horizon Txn	Transaction	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy	Values (8 sub
Type	Date	Id	Type					Type	columns)
E13	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
E13	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
State 12	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
E13	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
Total Section 8									9999999999.99

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: 23-Apr-2020 Page No: 29 of 48





3.3.2.8.2 NB102: Section 8 – Data Definition

NB102 Section 8: Cleared	Client: (Derived from Routing	Produced on: (Date and time of production)
Exceptioned Client Transactions	Gateway.)	
Run Date: (The period for which	Transaction Type: Deposit &	Currency: (Derived from 'currency')
the report refers)	Withdrawal	

Exception Type / Reconciliation Date	Horizon Txn Id	Transaction Type	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy Type	Values (8 sub columns)
One row for each exception, with specific system states listed in order, grouped within reconciliation date	Horizon_Txn_ Num	Txn_Type	Bank_Transacti on_Id	Receipt_Transa ction_Date	Receipt_Transa ction_Time		Discrepancy_R eason_Codes	Value of each transaction component
within reconciliation date with a sub total for each reconciliation date and a grand total for the section. Where dates are shown for the same exception type, list in descending order.	For last reported Set to F99: New Reconciliation da	_	2-15, 20-23, E03,	E07 – E09, E13, E	E25 – E26, E33, E	37		

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: 23-Apr-2020 Page No: 30 of 48





3.3.2.9 NB102: Section 9: Cleared Corruptions

3.3.2.9.1 **NB102: Section 9 – Report Layout**

NB102 Section 9: Cleared	Client: LINK	Produced on: dd/mm/yyyy at hh:mm:ss
Corruption's		
Run Date: dd/mm/yyyy	Transaction Type: Deposit &	Currency: GBP
	Withdrawal	

Exception	Reconciliation	Horizon Txn	Transaction	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy	Values (8 sub
Type	Date	Id	Type		_	_		Type	columns)
E28	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
E29	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
State 31	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
E31	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
Total Section 9									9999999999.99

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: 23-Apr-2020 Page No: 31 of 48





3.3.2.9.2 NB102: Section 9 – Data Definition

NB102 Section 9: Cleared	Client: (Derived from Routing	Produced on: (Date and time of production)
corruption's	Gateway.)	
Run Date: (The period for which	Transaction Type: Deposit &	Currency: (Derived from 'currency')
the report refers)	Withdrawal	

Exception Type / Reconciliation Date	Horizon Txn	Transaction	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy	Values (8 sub
Reconciliation Date	Id	Туре					Туре	columns)
One row for each corruption,	Horizon_Txn_	Txn_Type	Bank_Transact	Receipt_Transa	Receipt_Transa		Discrepancy_R	Value of each
with specific system states	Num		ion_Id	ction_Date	ction_Time		eason_Codes	transaction
listed in order, grouped within								component
reconciliation date with a sub	To all and an and a	I C C	207 21					
total for each reconciliation		d System States: E	227 -31					
date and a grand total for the	Set to F99: New							
section. Where dates are shown	Reconciliation D	ate: <= Run Date						
for the same exception type, list								
in descending order.								

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: Page No: 23-Apr-2020 32 of 48





3.3.2.10 NB102: Section 10: Cleared Timing Differences

3.3.2.10.1 NB102: Section 10 - Report Layout

NB102 Section 10: Cleared	Client: LINK	Produced on: dd/mm/yyyy at hh:mm:ss
Timing Differences		
Run Date: dd/mm/yyyy	Transaction Type: Deposit &	Currency: GBP
	Withdrawal	

Exception Type	Reconciliati	Horizon Txn	Transaction	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy	Values (8 sub
	on Date	Id	Type					Type	columns)
E39	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
E39	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
E39	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
E39	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
Total Section 10									9999999999.99

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: 23-Apr-2020 Page No: 33 of 48





3.3.2.10.2 **NB102: Section 10 – Data Definition**

NB102 Section 10: Cleared	Client: (Derived from Routing	Produced on: (Date and time of production)
Timing Differences	Gateway.)	
Run Date: (The period for which	Transaction Type: Deposit &	Currency: (Derived from 'currency')
the report refers)	Withdrawal	

Exception Type /	Horizon Txn	Transaction	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy	Values (8 sub
Reconciliation Date	Id	Туре					Type	columns)
One row for each timing	Horizon_Txn_	Txn_Type	Bank_Transact	Receipt_Transa	Receipt_Transa		Discrepancy_R	Value of each
difference, grouped within	Num		ion_Id	ction_Date	ction_Time		eason_Codes	transaction
reconciliation date with a sub								component
total for each reconciliation date and a grand total for the section. Where dates are shown for the same exception type, list in descending order.	Set to F99: New	d System States: Fate: <= Run Date	239					

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: Page No:

23-Apr-2020 34 of 48





3.3.2.11 NB102: Section 11: Cleared Confirmed & Unconfirmed exceptions > 24 hours

3.3.2.11.1 **NB102: Section 11 – Report Layout**

NB102 Section 11: Cleared	Client: NBX Link Interchange Network	Produced on: dd/mm/yyyy at hh:mm:ss
Confirmed, Unconfirmed & POL		
FS exceptions > 24 hours		
Run Date: dd/mm/yyyy	Transaction Type: Deposit &	Currency: GBP
	Withdrawal	

Exception Type	Reconciliation	Horizon	Transaction	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy	Values (8 sub
	Date	Txn Id	Type					Type	columns)
State 1	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
State 2	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
State 6	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
State 6	dd/mm/yyyy	Char (32)	Code (99)	Char (6)	dd/mm/yyyy	hh:mm:ss		Code (99)	9999999999.99
Sub Total									9999999999.99
Total Section 11									9999999999.99

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: 23-Apr-2020 Page No: 35 of 48





3.3.2.11.2 **NB102: Section 11 – Data Definition**

Note that POL FS (POLSAP) no longer exists and report columns relating to the associated C112 messages will therefore be blank.

There that I be I be to the following of the containing to the accordated by I a model got the there is be started.						
NB102 Section 11: Cleared	Client: (Derived from Routing	Produced on: (Date and time of production)				
Confirmed, Unconfirmed & POL	Gateway.)					
FS exceptions > 24 hours						
Run Date: (The period for which	Transaction Type: Deposit &	Currency: (Derived from 'currency')				
the report refers)	Withdrawal					

Exception Type / Reconciliation	Horizon Txn	Transaction	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy	Values (8 sub
Date	Id	Type					Type	columns)
One row for each exception, with	Horizon_Txn	Txn_Type	Bank_Transact	Receipt_Transa	Receipt_Transa		Discrepancy_R	Value of each
specific system states listed in	_Num		ion_Id	ction_Date	ction_Time		eason_Codes	transaction
order, grouped within								component
reconciliation date with a sub total for each reconciliation date and a grand total for the section. Where dates are shown for the same exception type, list in descending order.	For last reported System States: 1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 16, 17, 18, E01-02 E04-06, E10-12, E14, E20-24, E32, E34-E36, E38 Set to F99: New Transactions that were included on report NB102 Section 5 on 'yesterday's' reports and are not included in NB102 Section 5 on 'today's' reports."							

End of Report

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version:

SVM/SDM/SD/0020 5.0

Date: 23-Apr-2020 Page No: 36 of 48





3.3.2.12 NB102: Section 12: Cleared Future Dated Transactions by Client

3.3.2.12.1 NB102: Section 12 - Report Layout

NB102 Section 12: Cleared Future Dated Transactions by Client	All Clients	Produced on: dd/mm/yyyy at hh:mm:ss
Run Date: dd/mm/yyyy	Transaction Type: Deposit & Withdrawal	Currency: GBP

Client	Reconciliation Date	Volume	Values (8 sub columns)
LINK	dd/mm/yyyy	99999999	9999999999.99
Lloyds	dd/mm/yyyy	99999999	9999999999.99
Total Section 11		999999999	9999999999.99

End of Report

NB102: Section 12 - Data Definition 3.3.2.12.2

NB102 Section 12: Cleared	All Clients	Produced on:	.		
Future Dated Transactions by	(Date and time of report				
Client		production)			
Run Date: (The period for which	Transaction Type: Deposit &	Currency:	(Derived	from	
the report refers)	Withdrawal	'currency')			

Client / Reconciliation Date	Volume	Values (8 sub columns)				
One row for each Client derived from	System State: All States					
Routing Gateway where transactions have	All transactions that were included on report NB102 Section 6					
been received with a reconciliation date	on 'yesterday's' reports and are n	not included in NB102 Section				
ahead of the run date. Where dates are	6 on 'today's' reports.					
shown for the same exception type, list in						
descending order.						

End of Report

SVM/SDM/SD/0020 5.0 Ref:

Version:

Date: 23-Apr-2020 Page No: 37 of 48





3.3.2.13 Incomplete and Discrepancy State: Report Matrix

This table identifies the NB102 series report section where incomplete and discrepancy States are reported in detail.

Incomplete State		Trans		Exception report NB102 Section				
	C112	C12	C4	S	D	Uncleared	Cleared	
1		\checkmark				1 & 5	7 & 11	
2		1	V			1 & 5	7 & 11	
4			√ /			1 & 5	7 & 11	
5	V					1 & 5	7 & 11	
6	1	1				1 & 5	7 & 11	
7	V		√			1&5	7 & 11	
8				√		1 & 5	7 & 11	
9	$\sqrt{}$			1		1&5	7 & 11	
10		1		1		1&5	7 & 11	
11	V	1		1		1&5	7 & 11	
12					√	2	8	
13		1			√	2	8	
14	V				V	2	8	
15		V			√	2	8	
16			Then √	V		1 & 5	7 & 11	
17	V		Then √	$\sqrt{}$		1 & 5	7 & 11	
18		$\sqrt{}$	Then √	V		1 & 5	7 & 11	
20				√	Then √	2	8	
21	1			V	Then √	2	8	
22		1		√	Then √	2	8	
23	V	1		V	Then √	2	8	

Grey shaded lines represent System States not expected to be reported within the Banking and Related Services report set.

Green shaded lines are not expected to be reported in the absence of C112 Messages

Ref: SVM/SDM/SD/0020

Version: 5.0

Date: 23-Apr-2020 Page No: 38 of 48





3.3.1.14 Exception State: Report Matrix

This table identifies the NB102 series report section where an exception is reported in detail.

Exception State	Description	Exception report NB102 Section			
		Uncleared	Cleared		
E01	Unexpected C112	1 & 5	7 & 11		
E02	Additional C12	1 & 5	7 & 11		
E03	Additional D	2	8		
E04	Additional C4	1 & 5	7 & 11		
E05	Additional S	1 & 5	7 & 11		
E06	S after C4	1 & 5	7 & 11		
E07	S after D	2	8		
E08	C4 after D	2	8		
E09	D after C4	2	8		
E11	C12 after final state	1 & 5	7 & 11		
E12	C4 after final state	1 & 5	7 & 11		
E13	D after final state	2	8		
E14	S after final state	1 & 5	7 & 11		
E15	Not Used				
E16	Not Used				
E17	Not Used				
E18	Not Used				
E19	Not Used				
E23	Amount of C12#C4	1 & 5	7 & 11		
E24	Amount of C12#S & C12#0	1&5	7 & 11		
E26	Amount of C12#D	2	8		
E28	Incomplete/corrupt C12	3	9		
E29	Incomplete/corrupt C4	3	9		
E30	Incomplete/corrupt D	3	9		
E31	Incomplete/corrupt S	3	9		
E32	Amount of C4#S & C4#0	1&5	7 & 11		
E33	Amount of D#S	2	8		
E35	C12 arrived after state F99	1 & 5	7 & 11		
E36	C4 arrived after state F99	1 & 5	7 & 11		
E37	D arrived after state F99	2	8		
E38	S arrived after state F99	1 & 5	7 & 11		
E39	Settlement Date # Reconciliation Date	4	10		

Shaded lines represent System States not expected to be reported within the Network Banking report set

3.4 System States

The removal of TPS from the Legacy landscape also removed the need for the C112 message to be reconciled with DRS. The removal of the C112 removed intermediate states '2', '13', '18' and '22' and made states '5', '6', '7', '9', '11', '14', '17', '21' and '23' unattainable since these all required the presence of a C112. These latter states are show in grey in the following table. In addition, various error states have become 'Not used' since these are related to values in C112 messages not equating to values in other message parts.

Ref: SVM/SDM/SD/0020

Version: 5.0

Date: 23-Apr-2020 Page No: 39 of 48





			ı	,	When	1					
			C112	C12		D	S				
		Pre-validation			nen Pr						
		On Incomplete/Corrupt error go to:			E29			Validate on	entry into State (# n	neans 'not equal to'	MSU Action
	State				ilid, go			Amount:Action	Amount:Action	Settlement Date:Action	Set State to
Start	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	E01	1	4	12	8	_	_	_	-
, cure	1	C12		E02	3	15	10	_	_		F99
inal	3	C12 C4	E01		E12		E14	C12#C4:E23	_	C4 Settle Dt#Rec Dt:E39	- 133
mai	4	C12 C4	E01	3	E04	E09		-		- C4 Settle Dt#Rec Dt.E35	
	5		900000000000000000000000000000000000000	6	7	14	9	-	-	-	F99
		N/A	E01					-		-	
	6	N/A	1000000	E02	3	15	11	-	-	-	-
	7	N/A	E01	3	E04	E09	AUTOMORNO A LAND	-	-	-	
	8	S	E01	10	16	20	E05	-	-	-	F99
	9	N/A	E01	11	17	21	E05	-	-	-	-
	10	C12 S	E01	E02	19	23	E05	C12#S&C12#0:E24	-	C4 Settle Dt#Rec Dt:E39	F99
	11	N/A	E01	E02	19	23	E05	-	-	-	-
	. 12	D	E01	15	E08		E07	-	-	-	F99
	14	N/A	E01	15	E08	E09	E07	-	-	-	-
	15	C12 D	E01	E02	E08	E09	E07	C12#D:E26	-	C4 Settle Dt#Rec Dt:E39	F99
	16	S/C4	E01	19	E04	E09	E05	-	-	C4 Settle Dt#Rec Dt:E39	F99
	17	N/A	E01	19	E04	E09	E05	-	-	-	-
inal	19	C12 S/C4	E01	E11	E12	E13	E14	C12#C4:E23	C4#S&C4#0:E32	C4 Settle Dt#Rec Dt:E39	F99
	20	S/D	E01	23	E08	E03	E05	D#S:E33	-	C4 Settle Dt#Rec Dt:E39	F99
	21	N/A	E01	23	E08	E03	E05	-	-	-	-
	23	N/A	E01	E02	E08	E03	E05	-	-	-	-
	Excep	tion States									
	_	Unexpected C112	T -	_	-	-	_	_	_	_	F99
	E02	Additional C12	-	-	l -	H					F99
	E03	Additional D	[_				_	-		F99
		Additional C4	-	-		-		-			
	E04		[L [-			F99
	E05	Additional S	⊢		-	-	-	-			F99
	E06	S after C4	-	-	-	-				-	F99
	E07	S after D	-	-	-	-	_		-	-	F99
	E08	C4 after D	-	-	-	-	-		-	-	F99
	E09	D after C4	-	-	-	-	- 1	Ca \\	-	-	F99
	E10	Not used	-	-	-	- %			-	-	-
	E11	C12 after final state	-	-			200	-	-	-	F99
	E12	C4 after final state	- 1	#18E		SHEET		-	-	-	F99
	E13	D after final state	.az. 1	-	-	-	-	-	-	-	F99
	E14	S after final state	6 - 3	\$ -	-	-	-	-	-	<u>-</u>	F99
	E15	Not used	-	-	-	-	-	-	_	_	_
	E16	Not used	-	-	-	-	-	-	-	-	-
	E17	Not used	l	-	-	-	_	-		-	_
			-	-	ĦĒ	-		-	-	-	
	E18	Not used		-	-	-					
	E19	Not used	⊢	_	-	 			-	-	
	E20	Not used	-	-	-	-	-	-	-	-	-
	E21	Not used	-	-	ļ	ļ -	-	-	-	-	-
	E22	Not used	-	-	-	-	-	-	-	-	-
	E23	Amount of C12#C4	-	-	ļ -	-	-	-	-		F99
	E24	Amount of C12#S & C12#0	-	-	-	-		-	-	-	F99
	E25	Not used	-	-	-	-	_	-	-	-	-
	E26	Amount of C12#D	-	-	-		-	-	-	-	F99
	E27	Not used	-	-	-	-	-	-	-	-	-
	E28	Incomplete/Corrupt C12	-	-	-	-	-	-	-	-	F99
		Incomplete/Corrupt C4	-	-	-	-	-	-	-	-	F99
		Incomplete/Corrupt D	-	-	-	-	-	-	_	-	F99
		Incomplete/Corrupt S	-	-	<u> </u>	-	-	-	-	_	F99
		Amount of C4#S & C4#0	-	-	-	-	-	-	-	-	F99
		Amount of D#S	-	-	l-i-	-			-		F99
			-		-	-					
		Not used		-	-	-		-	-	_	-
		C12 arrived after state F99	-	-	-	-		-	-	-	F99
		C4 arrived after state F99	-	-	-	-	-	-	-	-	F99
		D arrived after state F99	-	-	<u> </u>	-	-	-	-	-	F99
	E38	S arrived after state F99	-	-	-	-	-	-	-	-	F99
	E39	Settlement Date # Reconciliation Date	-	-	-	-	-	-	-	-	F99
	_						_				

SVM/SDM/SD/0020 5.0 Ref:

Version:

23-Apr-2020 40 of 48 Date: Page No:





4 APS Reconciliation

On-line Counter, SSK and HiH Automated Payment transactions are committed to the Branch Database during the customer session settlement process at the same time that the Auditable Journal records are written. The Journal Records contain a dense set of Journal Sequence Numbers that prove no transaction is missing or duplicated.

Offline/External Automated Payment transactions (such as Paystation transactions) are delivered in file(s) via PODG on a daily basis. These files contain a sub-file for each Branch that contain value and volume totals that ensure the integrity of the data contained therein. These are validated during the transaction posting process to ensure no data loss or duplication.

The AP transactions from all data-sources are copied to a dedicated APS data store where they are held pending their delivery to the AP Client via AP Client Files.

- Note 1: AP Transactions that are mapped to Client Account No "9999" do not get delivered to any Client.
- Note 2: AP transaction performed on certain devices (Such as Payzone) do not get delivered to any Client.

At the end of each Trading Day, all transactions for the day are validated and any transactions failing validation will be moved to a Quarantine area. Validation failures include the following scenarios:

Invalid Negative Value

Negative values are only allowed for reversal records or if the Delivery Agreement indicates that the transaction is an Out-payment transaction.

Unmatched Reversal

This is a reversal record where the corresponding original transaction is not present on the current Trading Day. This may occur in certain counter recovery scenarios.

Missing Delivery Agreement

Delivery Agreement reference data controls the creation of AP Client Files. If the data is missing for any client then the transactions cannot be delivered and will be quarantined.

Duplicate Transaction

Duplicate transactions are not expected and can only occur in the case of system bugs.

Quarantined transactions can be viewed and processed using a Graphical User Interface available to Fujitsu's third-line support team. Where transactions were quarantined due to missing or invalid reference data then the transactions can be moved back into the main processing stream once that reference data has been corrected. These transactions will then be delivered to the AP Client. In the case of an unmatched reversal, since the original transaction will almost certainly have been sent to the AP Client then a manual activity must be in place to inform the AP Client that the payment has been reversed. The transaction will then be archived as "manually processed"

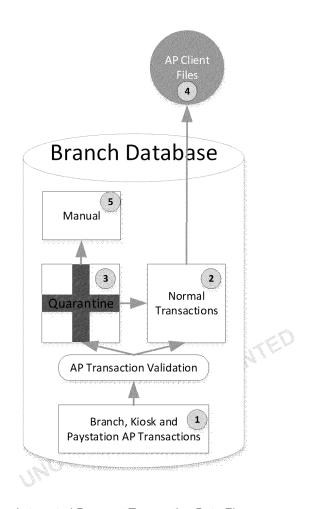
Ref: SVM/SDM/SD/0020

Version: 5.0

Date: 23-Apr-2020 Page No: 41 of 48







Automated Payment Transaction Data Flows

Reconciliation is performed by ensuring that all transactions received at (1) are eventually delivered to either (4) or (5) in the diagram above.

SVM/SDM/SD/0020 5.0 Ref:

Version:

Date: 23-Apr-2020 Page No: 42 of 48





4.1 APS Reconciliation Report

This can be represented in a single report as follows:

	Transaction Totals for Trading Date							Out	standing Bala	inces	
		BRDB	Deliver	ed to APS		Delive	red				A CONTRACTOR OF THE CONTRACTOR
Trading Date	Brought Fwd	Transacted $\textcircled{1}$	Normal ②	Quarantine ③	Discrepancy	Client Files 4	Manual (5)	Carry Fwd	Normal	Quarantine	Discrepancy
01/06/2019	0.00	25,000.00	23,000.00	2,000.00	0.00	20,000.00	0.00	5,000.00	3,000.00	2,000.00	0.00
02/06/2019	5,000.00	30,000.00	29,000.00	1,000.00	0.00	25,000.00	1,000.00	9,000.00	7,000.00	2,000.00	0.00
03/06/2019	9,000.00	20,000.00	20,000.00	0.00	0.00	25,000.00	1,000.00	3,000.00	2,000.00	1,000.00	0.00
04/06/2019	3,000.00										
05/06/2019											
06/06/2019											
07/06/2019											
08/06/2019								A.			
09/06/2019				, s							

Report aps_reconciliationyyyymmdd.txt

Where

the first discrepancy is ① minus ② minus ③

the second discrepancy is Carry Fwd minus Normal Balance minus Quarantine Balance

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE)

Ref: Version: SVM/SDM/SD/0020 5.0

Date: Page No: 23-Apr-2020 43 of 48





Transaction Totals for Current Trading Date

Column	Туре	Description
Trading Date	Date	The Trading Date for which these totals apply
Brought Fwd	Number(12,2)	Taken from the Carry Fwd recorded from yesterday's reconciliation
BRDB Transacted	Number(12,2)	The total value of APS transactions performed on the
		current Trading Date. le: the total value at ① today.
		(see Note 1)
Normal	Number(12,2)	The total value of valid AP Transactions for the current
		Trading Date. le: the total value at ② today
Quarantine	Number(12,2)	The total value of transactions in Quarantine for the
		current Trading Date. le: the total value at ③ today
Client Files	Number(12,2)	The total value of transactions delivered in Client Files on the current Trading Date. le: the total value at 4
	Juco,	today
Manual	Number(12,2)	The total value of transactions manually processed on
		the current Trading Date. le: the total value at ⑤ today
Manual	TVUITIDOT(12,2)	

Outstanding Balances

Type	Description
Number(12,2)	Equals Brought Fwd + BRDB Transacted – Client Files Manual
Number(12,2)	The sum of all non-delivered validated APS
	transactions. le: the total amount outstanding in ③
Number(12,2)	The sum of all outstanding APS transactions in
	Number(12,2)

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE) SVM/SDM/SD/0020 5.0

Ref: Version:

Date: 23-Apr-2020 44 of 48 Page No:





	Quarantine. le: the total amount outstanding in 4
	Quarantino. 10. the total amount outstanding in

Note 1: The BRDB Transacted value will not include transactions for Client Account = "9999" or those transactions where the Device Type signifies that the transactions are not to be delivered.

Note 2: The Value delivered in Client Files is summed-up during the client file creation as each record is written to the file. The total for each file is recorded in the file audit trail. Some client files include the reversals and reversed transactions and some do not. Either way, these transactions balance-out in the calculated totals. This is not the case for File-type "BT" that includes the reversed transaction only and these have to be taken into account during the calculation of the Client Files value.

The discrepancy columns should always be zero and an automated alert will be raised if ever this is not the case. The alert will cause an incident to be raised for investigation.

In addition to reporting transaction values, the Branch Database also records transaction counts and raises an alert if the transaction counts do not tally. The counts can be reported using HORIce.

When adding up transaction counts, the transacted reversals are added as positive values. However, in many cases, reversals and their reversed counterparts are not delivered to the AP Client. This is a recognised scenario during the production of a Client File and Reversed/Reversing transactions that are withheld from the Client Files are updated to status "Reversed (Not delivered)". During the reconciliation of transaction counts, these transactions are counted as being dealt with appropriately (ie: seen, understood and marked as processed).

 Ref:
 SVM/SDM/SD/0020

 Version:
 5.0

Date: 23-Apr-2020 Page No: 45 of 48





4.2 APS Quarantined/Exceptioned Transaction Report

Transactions that failed validation and were placed in Quarantine are reported daily in the following form.

Client Acc						Receipt	Receipt	Reversing	Reversing		
No	Client Account Name	Item Id	FAD Code	Txn Timestamp	Customer Reference	Ref	Serial No	Receipt Ref	Serial No	Value	Reason
3094	United Utilities Water	36398	4025113	01/11/2018 21:09	63314030041988800000	68001	5470			1500.00	No Delivery Agreement
3094	United Utilities Water	36398	4025113	01/11/2018 21:17	63314030041988900000	67001	8767			1500.00	No Delivery Agreement
3094	United Utilities Water	36398	4025113	01/11/2018 21:33	63314030041988600000	67001	8772			1500.00	No Delivery Agreement
3131	Parcelforce Contract Accept	39192	548324	07/11/2018 14:45	9826935101260	7016	1978			-1.00	Invalid Negative Value
3131	Parcelforce Contract Accept	39192	548324	07/11/2018 14:45	ED808529215GB	7019	1978			-1.00	Invalid Negative Value
3131	Parcelforce Contract Accept	39192	548324	07/11/2018 14:45	9826935101260	7020	1978			-1.00	Invalid Negative Value
3147	Royal Mail	45342	2307049	30/10/2018 10:23	01Label=1~QRC	2001	6671	2001	6673	0.00	No Delivery Agreement
3147	Royal Mail	41637	548324	07/11/2018 14:43	XC422747100GB	7004	1978			0.00	No Delivery Agreement
3147	Royal Mail	41637	548324	07/11/2018 14:44	LU422747100GB	7008	1978			0.00	No Delivery Agreement
3240	Welsh Water	43747	4025113	02/11/2018 10:11	6331428366843200000	78001	4316			-102.00	Unmatched Reversal
				1997 OS	os_exceptionsyyyymn						
				Report a							

©Copyright Fujitsu Services Ltd 2006-2020

FUJITSU RESTRICTED (COMMERCIAL IN CONFIDENCE) Ref: Version: SVM/SDM/SD/0020

Date: Page No: 23-Apr-2020 46 of 48





4.3 APS Report Delivery

Reports for Post Office Ltd are delivered in accordance with security and audit requirements.

Both APS Reports are delivered to Fujitsu Services MAC Team and Post Office Ltd via e-mail.

4.4 External Transactions

Transactions that are performed on non-Horizon terminals are delivered to AP Clients via the Branch Database and the APS Service. These transactions are loaded into the Branch Database and are validated at this point to ensure that subsidiary Horizon systems can complete all necessary processing. Transactions that fail validation are prevented from being loaded and are automatically returned to the transaction supplier.

Due to this validation, there should be no further transaction processing failures within the Horizon service.

However, there is a possibility that an external transaction is queried by an AP Client. This may occur if the customer who performed an AP transaction queries or disputes the amount of the transaction. In these instances, Fujitsu would receive the initial query but can only trace the transaction back to the file in which the transaction was supplied. It is almost inevitable that this type of query will need to be routed back to the transaction supplier for resolution.

This re-routing will be performed by raising a call with the Post Office Limited Service Desk.

A report is supplied to Post Office Limited called the Rejected Sub-Files Report. Report Description:-Ordering of the report is Load Date followed by Trading Date.

The Times Rejected column will indicate how many times that the sub-file has been rejected and will indicate whether there is an ongoing problem with poor quality data in corrected files.

If the quality of the data in the external transaction file is good then we would not expect any output from the report.

BRDB Load Date	Data Source	Branch Accounting Code	Trading Date		Times Rejected	Reason For Hold	Last Progressed
- Code de de de code d	eta i ki k	M	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	p.2	***************************************		

101010				·····			

		10.0-a 11.1111111111111111111111111111111111		vile-			
			oolinka ka k	***************************************			
							See





Reconciliation for external transactions is the responsibility of P&BA not the Post Office Account Reconciliation Service. However, in the event that entries persist on the report the Post Office Account Reconciliation Service will contact P&BA to ask for these files to be cleared.



Ref: SVM/SDM/SD/0020

Version: 5.0

Date: 23-Apr-2020 Page No: 48 of 48





A Transaction Types

The following banking and payment card transaction types are supported:

Txn		Accounting	Accounting	
Type	Description	Description	Sign	Application
3	Withdrawal (with PIN)	WITHDRAWALS	-1	NBS
4	Withdrawal with balance (with PIN)	WITHDRAWALS	-1	NBS
5	Withdraw all(with PIN)	WITHDRAWALS	-1	NBS
8	Withdrawal Correction	DEPOSITS	1	NBS
13	Withdrawal (with Signature) Withdrawal with balance (with	WITHDRAWALS	-1	NBS
14	Signature)	WITHDRAWALS	-1	NBS
15	Withdraw all (with Signature)	WITHDRAWALS	-1	NBS
22	Deposit (No verification)	DEPOSITS	1	NBS
27	NSI Cheque Deposit	DEPOSITS	1	NBS
41	Purchase (With signature)	DEPOSITS	1	DCS
42	Refund (With signature)	WITHDRAWALS	-1	DCS
43	Cash Purchase(with Signature)	DEPOSITS	1	DCS
51	ETU Purchase	DEPOSITS	1	ETS
52	ETU Refund	WITHDRAWALS	-1	ETS
62	Deposit	DEPOSITS	1	NBS
63	Withdrawal	WITHDRAWALS	-1	NBS
64	Withdrawal with balance	WITHDRAWALS	-1	NBS
65	Withdraw Limit	WITHDRAWALS	-1	NBS
67	Cheque Deposit	DEPOSITS	1	NBS
68	Withdrawal Correction ICC	DEPOSITS	1	NBS
71	Purchase	DEPOSITS	1	DCS
72	Refund	WITHDRAWALS	-1	DCS
73	Cash Purchase(with EMV)	DEPOSITS	1	DCS

 Ref:
 SVM/SDM/SD/0020

 Version:
 5.0

Date: 23-Apr-2020 Page No: 49 of 48