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End to End Reconciliation Reporting

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Document Title:	End to End Reconciliation Reporting
Document Type:	Service Description
Release:	HNG-X
Abstract:	This document specifies the reconciliation report output to satisfy the end to end reconciliation of the Banking and related services, Automated Payment System (APS) and Transaction Processing System (TPS).
Document Status:	APPROVED
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Internal Distribution:	N/A
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Note: See Post Office Account HNG-X Reviewers/Approvers Role Matrix (PGM/DCM/ION/0001) for guidance.

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0 Document Control

0.1 Table of Contents

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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

0.3   Review Details

Review Comments by :	N/A	
Review Comments to :	Pooja.sujith **GRO** PostOfficeAccountDocumentManagement **GRO**	&

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(*) = Reviewers that returned comments

0.4   Associated Documents (Internal & External)

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Reference	Version	Date	Title	Source
PGM/DCM/TEM/0001 (DO NOT REMOVE)	1.0	13/6/06	Fujitsu Services Post Office Account HNG-X Document Template	Dimensions
SVM/SDM/PRO/0012			Reconciliation and Incident Management - Joint Working Document	Dimensions
NB/SPE/002			Network Banking DRS On-line Workstation Specification	PVCS

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
DCS	Debit Card System
DRS	Data Reconciliation Service
ETS	Electronic Top-Up Service
FTMS	File Transfer Management Service
PIN	Personal Identification Number
POL FS	Post Office Ltd. Financial System
POL MIS	Post Office Ltd. Management Information Service
TMS	Transaction Management Service
TPS	Transaction Processing Service

0.6 Glossary

Term	Definition
Bank_Transaction_Id	Message sequence number assigned by the message originator (except HNG-X), 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.
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 transaction are of different value, e.g. C12 (amount) not = to C4 (amount). Transaction corruptions
Horizon_Txn_Num	Unique transaction number to be used in all messages between HNG-X and the FI's 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.

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POL FS Transactions	From a Branch / Post Office Ltd. perspective, a transaction that has been sent from TPS to Post Office Ltd. POL FS. From a system perspective, a 'C112' transaction.
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 (C112, 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.

0.7 Changes Expected

Changes
Expected changes should the HNG-X design or solution require amendment to the RECONCILIATION REPORTS provided by Fujitsu Services.

0.8 Copyright

1 Introduction

This document has been compiled to specify Fujitsu Services outputs from the Data Reconciliation Service (DRS) 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)
3. Transaction Processing System (TPS)

2 Scope

This document defines the format and content of all reconciliation reports for HNG-X, which satisfies the DRS 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, it is assumed that each of the Post Office Ltd. Clients, as dictated by Routing Gateway (assumed to be at this point the Banks / LINK) will require a separate reconciliation report set.

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

Report Number	Deposit Transactions	Withdrawal 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.

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
- 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 (LINK being a single Client). 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 brackets 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. / POL FS gateway: The Host writes the reports to a directory. These are picked up by FTMS and posted to the POL FS gateway *(as per other Host to external systems applications)*.

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- Fujitsu Services CS, DRS Workstation.

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

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 & 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].

3.2.1.1   NB000: Report Layout

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	9999999999	30 character name	NB999	99	appyyyymmddggggggggggNBnnnsstttcur.TXT

End of Report

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. Banking and Related Services or DCP). Will be "-" where no application type is known. Repeated for each application type.	Routing Gateway number. Will be "-" for reports NB102 sections 6 and 12 as there are single reports for all routing gateways. Repeated for each routing gateway within application type	Routing Gateway name. Will be "ALL CLIENTS" for reports NB102 sections 6 and 12 as there are single reports for all routing gateways. Shown against each routing gateway number	Shows each report number for each routing gateway	Shows each report section for each report number	Where there is data for a report the filename will be shown: appyyyymmddggggggggggNBnnnsstttcur.TXT, where • app is a 3 character application code (e.g. Banking and Related Services or DCP) • yyyymmdd is the report run date • gggggggggg is the routing gateway number. For reports NB102 Sections 6 and 12 use '0000000ALL' • 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

3.3 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.

3.3.1 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.

3.3.1.1   NB101: Report Layout

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

	Receipts		Payments		Net Settlement		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

3.3.1.2   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')

| C4 Settlement Date | Receipts | | Payments | | Net Settlement | | Institution Name |
	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 1**	**Total for Date 1**	
Repeat Date and Sub Total rows for each date that there is data to report.							
TOTAL	**Total All Dates**	**Total All Dates**	**Total All Dates**	**Total All Dates**	**Total All Dates**	**Total All Dates**	

End of Report

3.4 NB102: Exception Summary

This report is divided into twelve sections:

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

3.4.1   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.
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

6. 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 underlined previously reported state regardless of any change of state which may have occurred within the DRS.
7. All Uncleared Confirmed, Unconfirmed & POL FS exceptions are reported as summary totals by exception type - (NB102 section 1)
8. Uncleared Exceptioned Client Transactions are listed individually - (NB102 section 2)
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 & POL FS 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 & POL FS 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 & POL FS 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.
    - <u>Future Dated Transactions</u>: 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 following codes:
    - 03 - Withdrawal; Magstripe & PIN Verification (Banking and Related Services)
    - 04 - Withdrawal with balance; Magstripe & PIN Verification (Banking and Related Services)
    - 05 - Withdraw Limit; Magstripe & PIN Verification (Banking and Related Services)
    - 13 - Withdrawal; Signature Verification (Banking and Related Services)
    - 14 - Withdrawal with balance; Signature Verification (Banking and Related Services)
    - 15 - Withdraw Limit; Signature Verification (Banking and Related Services)
    - 22 - Cash Deposit; No Verification (Banking and Related Services)
    - 27 - Cheque Deposit; No Verification (Banking and Related Services)
    - 31 - Purchase; Magstripe & PIN Verification (DCS)
    - 32 - Refund; Magstripe & PIN Verification (DCS)
    - 41 - Purchase; Signature Verification (DCS)
    - 42 - Refund; Signature Verification (DCS)
    - 51 - Sale; No Verification (ETS)
    - 52 - Refund; No Verification (ETS)
    - 62 - Cash Deposit; ICC (Banking and Related Services)
    - 63 - Withdrawal; ICC (Banking and Related Services)
    - 64 - Withdrawal with balance; ICC (Banking and Related Services)
    - 65 - Withdraw Limit; ICC (Banking and Related Services)
    - 67 - Cheque Deposit; ICC (Banking and Related Services)
    - 71 - Purchase; ICC (DCS)
    - 72 - Refund; ICC (DCS)
22. For Banking and Related Servicesreconciliation 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.

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3.4.1.1 NB102: Section 1: All Uncleared Confirmed, Unconfirmed & POL FS exceptions

3.4.1.1.1 NB102: Section 1 - Report Layout

NB102 Section 1: All Uncleared Confirmed, Unconfirmed & POL FS exceptions	Client: LINK		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	9999999999.99
State 2 etc	dd/mm/yyyy	99999999	9999999999.99
Sub total		999999999	9999999999.99
State E02 etc	dd/mm/yyyy	99999999	9999999999.99
Sub total		999999999	9999999999.99
Total Section 1		9999999999	9999999999.99

End of Report

3.4.1.1.2 NB102: Section 1 - Data Definition

NB102 Section 1: All Uncleared Confirmed, Unconfirmed & POL FS exceptions	Client: (Derived from Routing Gateway.)	Produced on: (Date and time of report production)
Run Date: (The period for which the report refers)	Transaction Type: Deposit & Withdrawal	Currency: (Derived from '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, E20-24, E32, E34 -E36, E38 Received = New + Old Reconciliation date: < = Run Date	E01-02 E04-06, E10-12, E14,

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3.4.1.2   NB102: Section 2: Uncleared Exceptioned Client Transactions

3.4.1.2.1 NB102: Section 2 – Report Layout

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

Exception Type	Reconciliation Date	Horizon Txn Id	Transaction Type	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy Type	Values (8 sub 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

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3.4.1.2.2 NB102: Section 2 – Data Definition

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

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 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.	Horizon_Txn_Num	Txn_Type	Bank_Transaction_Id	Receipt_Transaction_Date	Receipt_Transaction_Time		Discrepancy_Reason_Codes	Value of each transaction component
	System State: 12-15, 20-23, E03, E07 – E09, E13, E25 – E26, E33, E37 Received = New + Old Reconciliation date: < = Run Date							

End of Report

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3.4.1.3 NB102: Section 3: Uncleared Corruptions

3.4.1.3.1 NB102: Section 3 – Report Layout

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

Exception Type	Reconciliation Date	Horizon Txn Id	Transaction Type	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy Type	Values (8(8 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

End to End Reconciliation Reporting

COMMERCIAL IN CONFIDENCE

3.4.1.3.2 NB102: Section 3 – Data Definition

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

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 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.	Horizon_Txn_Num	Txn_Type	Bank_Transaction_Id	Receipt_Transaction_Date	Receipt_Transaction_Time		Discrepancy_Reason_Codes	Value of each transaction component
	System State: E27 –31 Received = New + Old Reconciliation date: < = Run Date							

End of Report

3.4.1.4   NB102: Section 4: Uncleared Timing Differences

3.4.1.4.1 NB102: Section 4 - Report Layout

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

Exception Type	Reconciliation Date	Horizon Txn Id	Transaction Type	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy Type	Values (8 sub 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

End to End Reconciliation Reporting

COMMERCIAL IN CONFIDENCE

3.4.1.4.2 NB102: Section 4 – Data Definition

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

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 difference, grouped 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.	Horizon_Txn_Num	Txn_Type	Bank_Transaction_Id	Receipt_Transaction_Date	Receipt_Transaction_Time		Discrepancy_Reason_Codes	Value of each transaction component
	System State: E39 Received = New + Old Reconciliation date: < = Run Date							

End of Report

3.4.1.5 NB102: Section 5: Uncleared Confirmed, Unconfirmed & POL FS exceptions >24 hours

3.4.1.5.1 NB102: Section 5 – Report Layout

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

Exception Type	Reconciliation Date	Horizon Txn Id	Transaction Type	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy Type	Values (8 sub 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

3.4.1.5.2 NB102: Section 5 – Data Definition

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

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 total for each reconciliation date and a grand total for the section. Note: an extra constraint for system states 2 & 18 is that the Branch must have harvested (TPS) successfully. Should a Branch be confirmed as non-polling, **system states 2 & 18** for that Branch on the date(s) in question should not be included on this report. Where dates are shown for the same exception type, list in descending order.	Horizon_Txn_ Num	Txn_Type	Bank_Transacti on_Id	Receipt_Trans action_Date	Receipt_Trans action_Time		Discrepancy_R eason_Codes	Value of each transaction component

System State: 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
Received = Old
Reconciliation date: < Run Date
(i.e. where transaction components have remained in the above incomplete states for >24 hours)

End of Report

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

3.4.1.6.1   NB102: Section 6 - Report Layout

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		9999999999	9999999999.99

End of Report

3.4.1.6.2 NB102: Section 6 - Data Definition

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

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

End of Report

3.4.1.7 NB102: Section 7: All Cleared Confirmed, Unconfirmed & POL FS exceptions

3.4.1.7.1 NB102: Section 7 – Report Layout

NB102 Section 7: All Cleared Confirmed, Unconfirmed & POL FS exceptions	Client: LINK	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	9999999999.99
State 2 etc	dd/mm/yyyy	99999999	9999999999.99
Sub total		999999999	9999999999.99
State E02 etc	dd/mm/yyyy	99999999	9999999999.99
Sub total		999999999	9999999999.99
Total Section 1		9999999999	9999999999.99

End of Report

3.4.1.7.2 NB102: Section 7 - Data Definition

NB102 Section 7: All Cleared Confirmed, Unconfirmed & POL FS exceptions	Client: (Derived from Routing Gateway.)	Produced on: (Date and time of report production)
Run Date: (The period for which the report refers)	Transaction Type: Deposit & Withdrawal	Currency: (Derived from '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.	For last reported System States: 1-2, 4-11, 16-18, E01-02, E04-06, E10-12, E14, E20-24, E32, E34 -36, E38 Set to F99: New Reconciliation date: < = Run Date	

End of Report

End to End Reconciliation Reporting

COMMERCIAL IN CONFIDENCE

POST OFFICE

3.4.1.8   NB102: Section 8: Cleared Exceptioned Client Transactions

3.4.1.8.1 NB102: Section 8 – Report Layout

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

Exception Type	Reconciliation Date	Horizon Txn Id	Transaction Type	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy Type	Values (8 sub 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

End to End Reconciliation Reporting

COMMERCIAL IN CONFIDENCE

3.4.1.8.2 NB102: Section 8 – Data Definition

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

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 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.	Horizon_Txn_Num	Txn_Type	Bank_Transaction_Id	Receipt_Transaction_Date	Receipt_Transaction_Time		Discrepancy_Reason_Codes	Value of each transaction component
	For last reported System States: 12-15, 20-23, E03, E07 – E09, E13, E25 – E26, E33, E37 Set to F99: New Reconciliation date: < = Run Date							

End of Report

End to End Reconciliation Reporting

COMMERCIAL IN CONFIDENCE

3.4.1.9   NB102: Section 9: Cleared Corruptions

3.4.1.9.1 NB102: Section 9 – Report Layout

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

Exception Type	Reconciliation Date	Horizon Txn Id	Transaction Type	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy Type	Values (8 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
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

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3.4.1.9.2 NB102: Section 9 – Data Definition

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

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 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.	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
	For last reported System States: E27 –31 Set to F99: New Reconciliation Date: <= Run Date							

End of Report

End to End Reconciliation Reporting

COMMERCIAL IN CONFIDENCE

3.4.1.10   NB102: Section 10: Cleared Timing Differences

3.4.1.10.1 NB102: Section 10 - Report Layout

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

Exception Type	Reconciliation Date	Horizon Txn Id	Transaction Type	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy Type	Values (8 sub 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

3.4.1.10.2NB102: Section 10 – Data Definition

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

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 difference, grouped 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.	Horizon_Txn_Num **For last reported System States**: E39 Set to F99: New Reconciliation Date: <= Run Date	Txn_Type	Bank_Transaction_Id	Receipt_Transaction_Date	Receipt_Transaction_Time		Discrepancy_Reason_Codes	Value of each transaction component

End of Report

End to End Reconciliation Reporting

COMMERCIAL IN CONFIDENCE

3.4.1.11   NB102: Section 11: Cleared Confirmed, Unconfirmed & POL FS exceptions > 24 hours

3.4.1.11.1 NB102: Section 11 – Report Layout

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

Exception Type	Reconciliation Date	Horizon Txn Id	Transaction Type	Bank Txn Id	Receipt Date	Receipt Time	CAP	Discrepancy Type	Values (8 sub 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

3.4.1.11.2NB102: Section 11 – Data Definition

NB102 Section 11: Cleared Confirmed, Unconfirmed & POL FS exceptions > 24 hours	**Client:** (Derived from Routing Gateway.)	**Produced on:** (Date and time of production)
Run Date: (The period for which the report refers)	**Transaction Type:** Deposit & Withdrawal	**Currency:** (Derived from 'currency')

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 total for each reconciliation date and a grand total for the section. Note: an extra constraint for system states 2 & 18 is that the Branch must have harvested (TPS) successfully. Should a Branch be confirmed as non-polling, **system state 2 & 18** for that Branch on the date(s) in question should not be included on this report. Where dates are shown for the same exception type, list in descending order.	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
	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

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

3.4.1.12.1 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		9999999999	9999999999.99

End of Report

3.4.1.12.2 NB102: Section 12 - Data Definition

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

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

End of Report

3.4.1.13 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	Transaction Components					Exception report NB102 Section	
	C112	C12	C4	S	D	Uncleared	Cleared
1		√				1 & 5	7 & 11
2		√	√			1 & 5	7 & 11
4			√			1 & 5	7 & 11
5	√					1 & 5	7 & 11
6	√	√				1 & 5	7 & 11
7	√		√			1 & 5	7 & 11
8				√		1 & 5	7 & 11
9	√			√		1 & 5	7 & 11
10		√		√		1 & 5	7 & 11
11	√	√		√		1 & 5	7 & 11
12					√	2	8
13		√			√	2	8
14	√				√	2	8
15	√	√			√	2	8
16			Then √	√		1 & 5	7 & 11
17	√		Then √	√		1 & 5	7 & 11
18		√	Then √	√		1 & 5	7 & 11
20				√	Then √	2	8
21	√			√	Then √	2	8
22		√		√	Then √	2	8
23	√	√		√	Then √	2	8

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

End to End Reconciliation Reporting

COMMERCIAL IN CONFIDENCE

3.4.1.14 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	Additional 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
E10	C112 after final state	1 & 5	7 & 11
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		
E20	Amount of C112#C12	1 & 5	7 & 11
E21	Amount of C112#C4	1 & 5	7 & 11
E22	Amount of C112#S & C112#0	1 & 5	7 & 11
E23	Amount of C12#C4	1 & 5	7 & 11
E24	Amount of C12#S & C12#0	1 & 5	7 & 11
E25	Amount of C112#D	2	8
E26	Amount of C12#D	2	8
E27	Incomplete/corrupt C112	3	9
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
E34	C112 arrived after state F99	1 & 5	7 & 11
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

End to End Reconciliation Reporting

COMMERCIAL IN CONFIDENCE

3.5 System States

				When arrives, then: pre-validate					When valid, go to State					Validate on entry to State (# means 'not equal to')				MSU Action
				C112	C12	C4	D	S						Amount:Action	Amount:Action	Amount:Action	Settlement Date:Action	Set state to
		Pre-validation On Incomplete/Corrupt error go to:		E27	E28	E29	E30	E31										
State	Conf Agent	NBE	TPS						C112	C12	C4	D	S					
Start 0									5	1	4	12	8	-	-	-	-	-
1	C12								6	E02	2	13	10	-	-	-	-	F99
2	C12	C4							3	E02	E04	E09	E06	C12#C4:E23	-	-	C4 Settle Dt#Rec Dt:E39	F99
Final 3	C12	C4	C112						E10	E11	E12	E13	E14	C112#C12:E20	C112#C4:E21	-	C4 Settle Dt#Rec Dt:E39	-
4		C4							7	2	E04	E09	E06	-	-	-	-	F99
5			C112						E01	6	7	14	9	-	-	-	-	F99
6	C12		C112						E01	E02	3	15	11	C112#C12:E20	-	-	-	F99
7		C4	C112						E01	3	E04	E09	E06	C112#C4:E21	-	-	C4 Settle Dt#Rec Dt:E39	F99
8		S							9	10	16	20	E05	-	-	-	-	F99
9		S	C112						E01	11	17	21	E05	C112#S & C112#0:E22	-	-	S Settle Dt#Rec Dt:E39	F99
10	C12	S							11	E02	18	22	E05	C12#S & C12#0:E24	-	-	S Settle Dt#Rec Dt:E39	F99
11	C12	S	C112						E01	E02	19	23	E05	C112#C12:E20	C12#S & C12#0:E24	-	S Settle Dt#Rec Dt:E39	F99
12		D							14	13	E08	E03	E07	-	-	-	-	F99
13	C12	D							15	E02	E08	E03	E07	C12#D(C12):E26	-	-	D Settle Dt#Rec Dt:E39	F99
14		D	C112						E01	15	E08	E03	E07	C112#D(C12):E25	-	-	D Settle Dt#Rec Dt:E39	F99
15	C12	D	C112						E01	E02	E08	E03	E07	C112#C12:E20	C112#D(C12):E25	-	D Settle Dt#Rec Dt:E39	F99
16		S/C4							17	18	E04	E09	E05	C4#S & C4#0:E32	-	-	C4 Settle Dt#Rec Dt:E39	F99
17		S/C4	C112						E01	19	E04	E09	E05	C112#C4:E21	C4#S & C4#0:E32	-	C4 Settle Dt#Rec Dt:E39	F99
18	C12	S/C4							19	E02	E04	E09	E05	C12#C4:E23	C4#S & C4#0:E32	-	C4 Settle Dt#Rec Dt:E39	F99
Final 19	C12	S/C4	C112						E10	E11	E12	E13	E14	C112#C12:E20	C12#C4:E23	C4#S & C4#0:E32	C4 Settle Dt#Rec Dt:E39	-
20		S/D							21	22	E08	E03	E05	D(A)#S:E33	-	-	D Settle Dt#Rec Dt:E39	F99
21		S/D	C112						E01	23	E08	E03	E05	C112#S & C112#0:E22	D(A)#S:E33	-	D Settle Dt#Rec Dt:E39	F99
22	C12	S/D							23	E02	E08	E03	E05	C12#S & C12#0:E24	D(A)#S:E33	-	D Settle Dt#Rec Dt:E39	F99
23	C12	S/D	C112						E01	E02	E08	E03	E05	C112#C12:E20	C112#S & C112#0:E22	D(A)#S:E33	D Settle Dt#Rec Dt:E39	F99
Exception states																		
E01	Additional C112								-	-	-	-	-	-	-	-	-	F99
E02	Additional C12								-	-	-	-	-	-	-	-	-	F99
E03	Additional D								-	-	-	-	-	-	-	-	-	F99
E04	Additional C4								-	-	-	-	-	-	-	-	-	F99
E05	Additional S								-	-	-	-	-	-	-	-	-	F99
E06	S after C4								-	-	-	-	-	-	-	-	-	F99
E07	S after D								-	-	-	-	-	-	-	-	-	F99
E08	C4 after D								-	-	-	-	-	-	-	-	-	F99
E09	D after C4								-	-	-	-	-	-	-	-	-	F99
E10	C112 after final state								-	-	-	-	-	-	-	-	-	F99
E11	C12 after final state								-	-	-	-	-	-	-	-	-	F99
E12	C4 after final state								-	-	-	-	-	-	-	-	-	F99
E13	D after final state								-	-	-	-	-	-	-	-	-	F99
E14	S after final state								-	-	-	-	-	-	-	-	-	F99
E15	Not used								-	-	-	-	-	-	-	-	-	-
E16	Not used								-	-	-	-	-	-	-	-	-	-
E17	Not used								-	-	-	-	-	-	-	-	-	-
E18	Not used								-	-	-	-	-	-	-	-	-	-
E19	Not used								-	-	-	-	-	-	-	-	-	-
E20	Amount of C112#C12								-	-	-	-	-	-	-	-	-	F99
E21	Amount of C112#C4								-	-	-	-	-	-	-	-	-	F99
E22	Amount of C112#S & C112#0								-	-	-	-	-	-	-	-	-	F99
E23	Amount of C12#C4								-	-	-	-	-	-	-	-	-	F99
E24	Amount of C12#S & C12#0								-	-	-	-	-	-	-	-	-	F99
E25	Amount of C112#D								-	-	-	-	-	-	-	-	-	F99
E26	Amount of C12#D								-	-	-	-	-	-	-	-	-	F99
E27	Incomplete/Corrupt C112								-	-	-	-	-	-	-	-	-	F99
E28	Incomplete/Corrupt C12								-	-	-	-	-	-	-	-	-	F99
E29	Incomplete/Corrupt C4								-	-	-	-	-	-	-	-	-	F99
E30	Incomplete/Corrupt D								-	-	-	-	-	-	-	-	-	F99
E31	Incomplete/Corrupt S								-	-	-	-	-	-	-	-	-	F99
E32	Amount of C4#S & C4#0								-	-	-	-	-	-	-	-	-	F99
E33	Amount of D#S								-	-	-	-	-	-	-	-	-	F99
E34	C112 arrived after state F99								-	-	-	-	-	-	-	-	-	F99
E35	C12 arrived after state F99								-	-	-	-	-	-	-	-	-	F99
E36	C4 arrived after state F99								-	-	-	-	-	-	-	-	-	F99
E37	D arrived after state F99								-	-	-	-	-	-	-	-	-	F99
E38	S arrived after state F99								-	-	-	-	-	-	-	-	-	F99
E39	Settlement Date # Reconciliation Date								-	-	-	-	-	-	-	-	-	F99
Final F99	MSU resolved								E34	E35	E36	E37	E38	-	-	-	-	-

4 APS Reconciliation Reports Specified

The diagram below shows the main transaction flows for Automated Payments. Note that HAPS and the Legacy Branches (shaded in the diagram for clarity) are now historic and so there is no data flow via those routes.
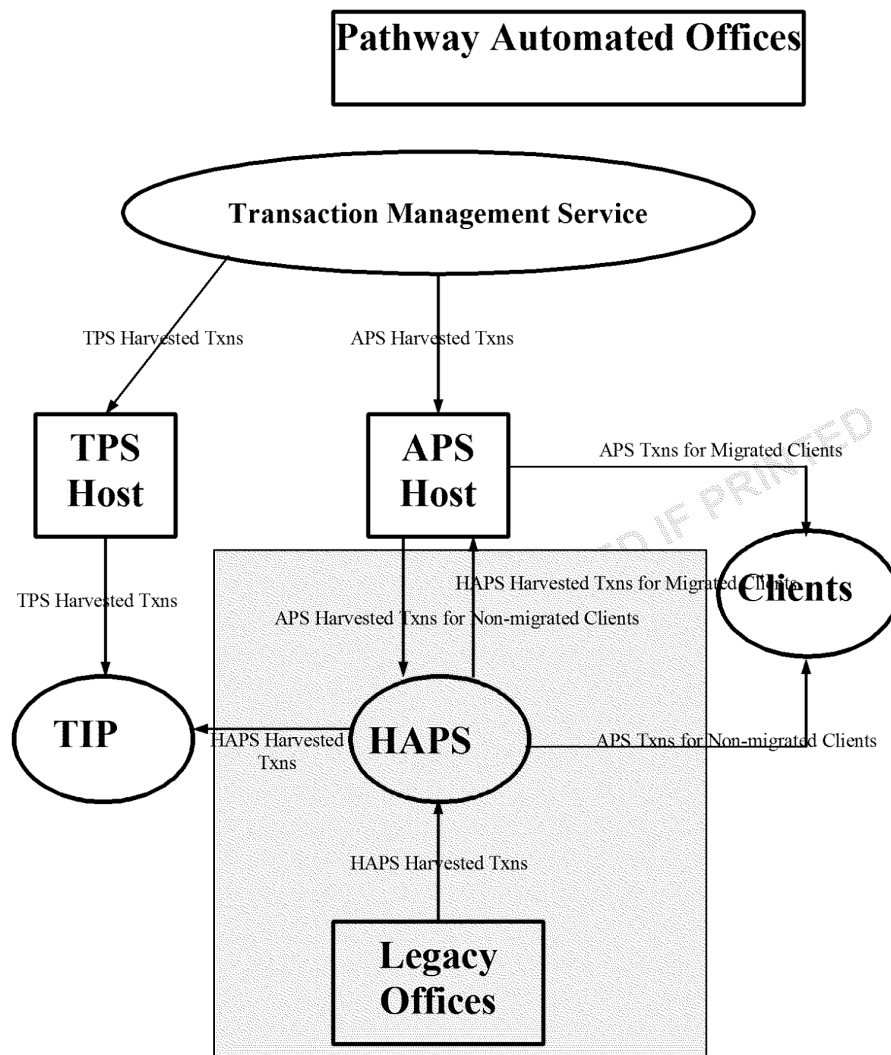
In summary, The Transaction Management Service accumulates APS transactions from HNG-X Branches centrally during the day. TPS harvester and the APS Harvester both harvest APS transactions from TMS at the end of the processing day. The TPS Harvester harvests all TPS (including APS) transactions to the TPS Host system whereas the APS Harvester harvests only APS transactions to the APS Host system. Both harvesters are synchronised to ensure that the same cut-off point is applied to transaction harvesting for each Branch and, consequently, each harvester harvests the same APS transactions.

The TPS Host system delivers harvested TPS transactions to POLFS.

4.1 Reconciliation between Client Transmission files and CTS

The end to end transaction flows are supported by validation processes which verify that the transactions processed by the APS Host are consistent with the transactions included in each Client Transmission File and with the CTS sub-file sent to Post Office Ltd.

This validation is carried out for the volume of normal transactions and the value of all transactions only in each of these files. Any differences in this reconciliation will cause an operational alert to be raised and the appropriate file delivery to be suspended.

A Validation Status report (section 4.8) will be produced as part of this validation process and the results of this notified to Post Office Ltd.

4.2 Accounting Sense

Reconciliation reporting operates on a seven day a week basis regardless of the Client file transmission schedule (which may, for example, exclude weekends and bank holidays). In principle, reconciliation reporting totals volume and value for transactions. It includes reversals by adding volume and subtracting value.

Thus, for In-pay transactions:

- Volume is positive and added (net result: add)
- Value is positive and added (net result: add)
- Reversal volume is positive and added (net result: add)
- Reversal value is positive and subtracted (net result: subtract)

For Out-pay transactions:

- Volume is positive and added (net result: add)
- Value is negative and added (net result: subtract)
- Reversal volume is positive and added (net result: add)
- Reversal value is negative and subtracted (net result: add)

Reporting has to be able to show a representation of negative value. To be consistent with other reconciliation reporting from HNG-X, this will be done with the use of brackets rather than the use of a prefix sign, e.g. (23.42) represents the value -23.42.

4.3 APS Reconciliation / Reporting Points

Four reconciliation points are identified. These are shown in the diagram below. Note that HAPS and the Legacy Branches (shaded in the diagram for clarity) are now historic and so there is no data flow via those routes. Values are reported as zero where it is still specified that the reporting take place.
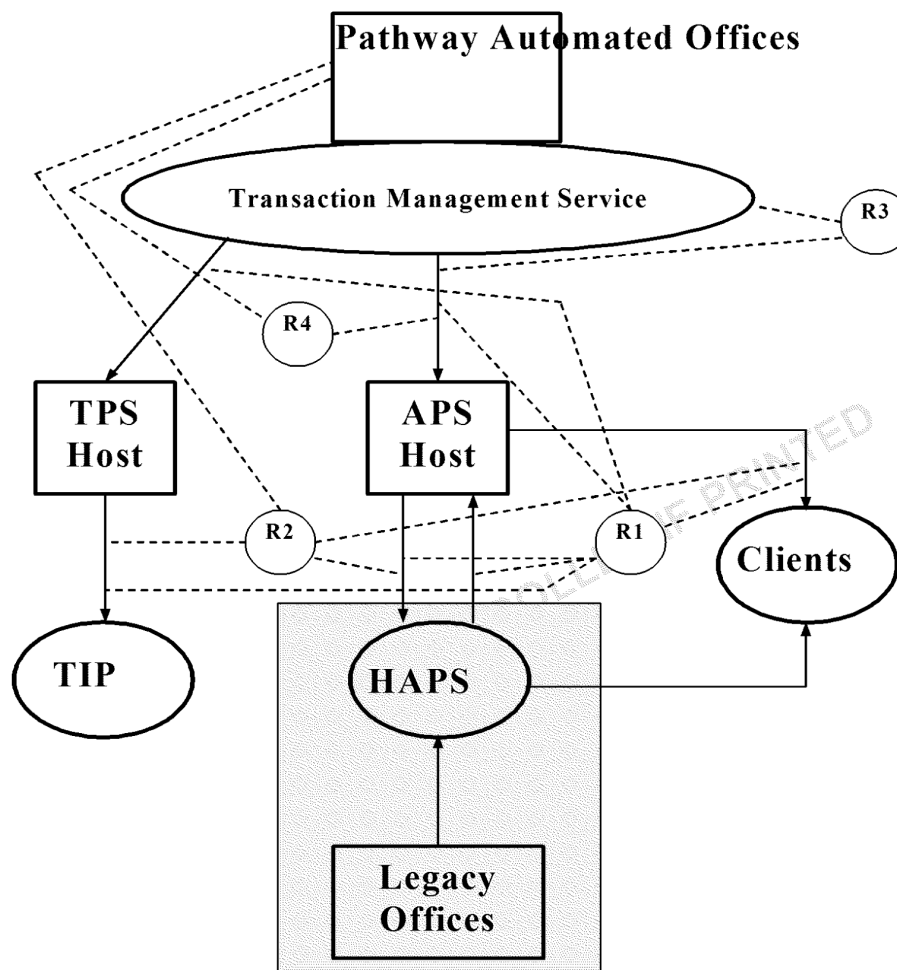
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Reconciliation Point R1 is the main APS Host reconciliation and reporting point. It confirms the APS accounts are balanced for the processing day and provides a balance statement, a Client delivery summary report and a transaction exception report.

Reconciliation Point R2 is transaction reconciliation between:

- the APS transactions at Branches;

- the APS transactions delivered by TPS to POLFS;

- the APS transactions delivered by APS to Clients.

It provides a reconciliation summary report, transaction exception Client account and detailed reports.

Reconciliation Point R3 reports on HNG-X Branches, which have not been harvested.

Reconciliation Point R4 is an intermediate point to help the operational management. It is not necessary to meet requirements. It confirms consistency between:

- the APS transactions at Branches;

- the APS transactions harvested by APS Clients.

4.4 APS Reconciliation / Reporting Point 1

4.4.1 Description

At the beginning of a normal processing day (about 8am), the APS Host is expected to have delivered all APS transactions for previous processing days to Clients. However, there may be some transactions left over because they have failed APS validation at some point. The most likely reasons for a transaction to be in an exception state are:

- A transaction has failed a HNG-X security check.

- A transaction has failed another APS validation check.

During normal Branch hours, action is taken to resolve these transactions and, once resolved, the most likely outcome is that the transaction is returned into normal processing mode. However, the APS Host system does cater for instances where an APS transaction cannot be returned to normal processing and needs to be processed manually. Therefore, during normal Branch hours, exception transactions may be returned to normal processing or, possibly in very rare circumstances, put into manual processing.

During the evening of the processing day, APS transactions from the HNG-X counters are harvested and delivered to the APS Host. The HNG-X transactions are validated by the APS Host and are put into an exception state if validation fails.

The APS Host delivers all valid APS transactions to migrated APS Clients within the operational schedule leaving the system with just the transactions in an exception state.

This reconciliation point is at the end of the processing day when all these transaction flows are reconciled and reported.

4.4.2   APSS2133 - APS Daily Account Balancing Report

Objectives: To confirm that the APS transaction account balances for the processing day.

Users: Post Office Ltd and Fujitsu Services Post Office Account

Frequency: At the end of each APS processing day.

Outline contents:

APS Daily Account Balancing Report

Processing Date: dd/mm/yyyy   Report Date: dd/mm/yyyy

Report Time: hh:mm:ss

Description	APS Number	APS Value (£)	TPS Number	TPS Value (£)	
Opening Balance	9,999,999	999,999,999.99			B/Fwd
Pathway Harvested Transactions	9,999,999	999,999,999.99	9,999,999	999,999,999.99	
Transactions Received from HAPS	9,999,999	999,999,999.99			
Receipt Sub Total	9,999,999	999,999,999.99			
APS Transactions Delivered to HAPS	9,999,999	999,999,999.99			
APS Transactions Delivered to Clients	9,999,999	999,999,999.99			
APS Transactions Delivered to Manual	9,999,999	999,999,999.99			
APS Transactions Delivered to POLFS			9,999,999	999,999,999.99	
Delivery Sub Total	9,999,999	999,999,999.99			
Delayed APS Transactions	9,999,999	999,999,999.99			C/Fwd
Reconciliation Error	9,999,999	999,999,999.99	9,999,999	999,999,999.99	

Sort order: As shown above.

Field derivations:

Report Date: The date the report was generated.

Report Time: The time the report was generated.

Processing Date: The logical system date set by the APS Host Batch Schedule. This date is constant for one processing cycle of the daily schedule.

Opening Balance: The Delayed APS Transactions (total number and total value) carried forward from the previous days' processing, i.e. the total number and total value of APS transactions delayed from the previous processing day.

Pathway Harvested Transactions: The APS transactions (total number and total value) for all Clients harvested from HNG-X Branches for both APS and TPS.

Transactions Received from HAPS: The APS transactions (total number and total value) received from HAPS for that evening's transmission. The totals may include transactions from previous transaction days as a result of late polling. *[Not relevant. Will always be null value]*

Receipt Sub Total: The total number and total value of Pathway Harvested Transactions and Transactions Received from HAPS added to the Opening Balance.

APS Transactions Delivered to HAPS: The APS transactions (total number and total value) for HAPS supported Clients delivered to HAPS for that processing day's transmission. The totals may include transactions from previous days as a result of delayed receipt of transactions from HNG-X Branches to TMS. *[Not relevant. Will always be null value]*

APS Transactions Delivered to Clients: The APS transactions (total number and total value) for HNG-X supported Clients delivered to the Clients for that processing day's transmission. The totals may include transactions from previous days, e.g. as a result of delayed synchronisation of Branches with TMS or late polling by HAPS.

APS Transactions Delivered to Manual: The APS transactions (total number and total value) that have failed validation and Customer Services are to resolve manually.

APS Transactions Delivered to POLFS: The APS transactions (total number and total value) delivered to POLFS for the current processing day.

Delivery Sub Total: The total number and total value of APS Transactions Delivered to HAPS, APS Transactions Delivered to Clients and APS Transactions Delivered to Manual.

Delayed APS Transactions: The total number and total value of APS transactions delayed until the following processing day. The Delayed APS Transactions appears as the Opening Balance in the next days' APS Daily Account Balancing Report.

Reconciliation Error: For APS: the Receipt Sub Total minus the Delivery Sub Total minus the Delayed APS Transactions. For TPS: the HNG-X Harvested Transactions (TPS) minus the APS Transactions delivered to POLFS.

Value fields: If any value to be reported is negative, then it shall be enclosed in brackets. For example, the value -£4.23 shall be shown as (4.23).

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4.4.3 APSS2133b - APS Client Summary Report

Objectives: To provide a summary of the transactions, which have been delivered by APS during the processing day. The summary is produced by the clearing agent (i.e. the organisation to which Fujitsu Services has delivered the transactions). For each clearing agent, a breakdown is provided by Client account for each transaction date. Transactions delivered to Manual are processed manually and consequently are not reported here.

Users: Post Office Ltd and Fujitsu Services Post Office Account

Frequency: At the end of each APS processing day

End to End Reconciliation Reporting

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Outline contents:

APS Client Summary Report

Processing Date: dd/mm/yyyy   Report Date: dd/mm/yyyy

Report Time: hh:mm:ss

Clearing Agent	Client Account	Client Account Name	Transaction Date	Transaction Totals	
				Number	**Value (£)**
Client 6	ssss	Client 6	dd/mm/yyyy	9,999,999	999,999,999.99
			dd/mm/yyyy	9,999,999	999,999,999.99
		Client Sub Total		9,999,999	999,999,999.99
		Clearing Agent Total		9,999,999	999,999,999.99
Girobank	nnnn	Client 1	dd/mm/yyyy	9,999,999	999,999,999.99
			dd/mm/yyyy	9,999,999	999,999,999.99
		Client Sub Total		9,999,999	999,999,999.99
	oooo	Client 2	dd/mm/yyyy	9,999,999	999,999,999.99
		Client Sub Total		9,999,999	999,999,999.99
		Clearing Agent Total		9,999,999	999,999,999.99
HAPS	pppp	Client 3	dd/mm/yyyy	9,999,999	999,999,999.99
			dd/mm/yyyy	9,999,999	999,999,999.99
		Client Sub Total		9,999,999	999,999,999.99
	qqqq	Client 4	dd/mm/yyyy	9,999,999	999,999,999.99
		Client Sub Total		9,999,999	999,999,999.99
	rrrr	Client 5	dd/mm/yyyy	9,999,999	999,999,999.99
		Client Sub Total		9,999,999	999,999,999.99
		Clearing Agent Total		9,999,999	999,999,999.99
		Grand Total		9,999,999	999,999,999.99
		Reconciliation Error		9,999,999	999,999,999.99

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Sort order: The sort order will be ascending on Clearing Agent. Within each of these, the sort order will be ascending by Client Account and within that by Transaction Date in reverse chronological order.

Field derivations:

Report Date: The date the report was generated.

Report Time: The time the report was generated.

Processing Date: The logical system date set by the APS Host Batch Schedule. This date is constant for one processing cycle of the daily schedule.

Clearing Agent: The organisation to which the APS transactions for the listed Client accounts have been sent by Fujitsu Services.

Client Account: The number of the Client account for which APS transactions have been delivered.

Client Account Name: The name of the Client account for which APS transactions have been delivered.

Transaction Date: The chronological date on which the transaction was committed on the HNG-X Counter system. The entry on this report is normally the current transaction day but can include earlier dates due to late harvesting or delayed APS Transactions (see section 5.1.2).

Transaction Totals: The total number and total value of APS transactions delivered for the Client account for the transaction date.

Client Sub Total: The sum of the total number and total value of APS transactions delivered to the clearing agent for the specific corresponding Client account for all transaction dates.

Clearing Agent Total: The sum of the total number and total value of APS transactions delivered to the clearing agent for all the corresponding Client accounts for all transaction dates.

Grand Total: The sum of the total number and total value of APS transactions delivered to all clearing agents for all transaction dates.

Reconciliation Error: The Grand Total minus the APS Transactions delivered to HAPS on the APS Daily Account Balancing Report (see section 5.1.2) minus APS Transactions Delivered to Clients on the APS Daily Account Balancing Report (see section 5.1.2).

Value fields: If any value to be reported is negative, then it shall be enclosed in brackets. For example, the value -£4.23 shall be shown as (4.23).

4.4.4 APSS2133c - APS Delayed Transactions Report

Objectives: To provide details of all transactions which have not been delivered by Fujitsu Services because they have been delayed within the APS Host system. Initial Customer Support resolution will cause the transactions to be returned for normal processing or sent to manual for manual processing. No equivalent report is produced for APS transactions in TPS as there is no delaying mechanism in the TPS Host System. All transactions are passed through to POLFS.

Users: Post Office Ltd and Fujitsu Services Post Office Account

Frequency: At the end of each APS processing day.

Outline contents:

APS Delayed Transactions Report

Processing Date: dd/mm/yyyy

Report Date: dd/mm/yyyy

Report Time: hh:mm:ss

Transaction Date	Transaction Details	Value (£)	Error Message
dd/mm/yyyy	APS Transaction Details 1	999,999,999.99	Reason for Delay 1
	APS Transaction Details 2	999,999,999.99	Reason for Delay 2
	APS Transaction Details 3	999,999,999.99	Reason for Delay 2
dd/mm/yyyy	APS Transaction Details 4	999,999,999.99	Reason for Delay 1
	APS Transaction Details 5	999,999,999.99	Reason for Delay 3
TOTAL	(Count)	999,999,999.99	
Reconciliation Error	(Count)	999,999,999.99	

Sort order: Chronological order on Transaction Date. Within this, the sort order will be ascending on Transaction Details.

Field derivations:

Report Date: The date the report was generated.

Report Time: The time the report was generated.

Processing Date: The logical system date set by the APS Host Batch Schedule. This date is constant for one processing cycle of the daily schedule.

Transaction Date: The chronological date on which the transaction was committed on the HNG-X Counter system. The entry on this report is normally the current transaction day but can include earlier dates due to late harvesting or delayed APS Transactions (see section 5.1.2).

Transaction Details: Details of the APS transactions, which have been delayed. The Transaction Details will appear in the order shown below and will be:

Clearing Agent.

Client Account & Name.

Client Code.

Item.

FAD Code.

Time.

Customer Reference.

Receipt Reference.

Receipt Serial Number.

Reversing/ Reversed Receipt Reference.

Reversing/ Reversed Receipt Serial Number.

Transaction Type.

Error Message: The reason the APS transaction has been delayed. This includes problems concerning HNG-X security checks and transaction validation checks.

Reconciliation Error: The Total for the Count and Value of transactions minus the Delayed APS Transactions (Number and Value) on the APS Daily Account Balancing Report (see section 5.1.2).

Value fields: If any value to be reported is negative, then it shall be enclosed in brackets. For example, the value -£4.23 shall be shown as (4.23).

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4.5 APS Reconciliation / Reporting Point 2

4.5.1 Description

Normally, APS transactions flow through the TPS Host to POLFS and through the APS Host system to Clients within the same working day. However, the rules associated with the processing of APS transactions within the TPS Host and the APS Host systems are different. The APS Host needs to apply a number of extra rules mainly to support Client migration. Consequently, transactions may be placed in exception status by APS but be accepted as valid by TPS. In addition, there may be error conditions where the TPS and APS Harvesters are not fully synchronised.

This reconciliation point is at the end of the processing day. It reconciles the

- APS transactions at Branches;
- APS transactions delivered by TPS to POLFS;
- APS transactions delivered by APS to Clients.

It maintains a record of which transactions have passed through the TPS side and which transactions have passed through the APS side and on a daily basis it reports transactions which have been processed by one side and not the other.

4.5.2 APSS2136 - Daily TPS / APS Transaction Reconciliation Summary Report

Objectives: To compare Branch APS transaction totals with the actual POLFS and Client delivered APS transaction totals for the last N days. There may be some error conditions where some differences will show for the most recent days but all these differences will disappear in a very few days after the processing date demonstrating that all APS transactions at Branches are delivered to POLFS and Clients.

Users: Post Office Ltd and Fujitsu Services Post Office Account

Frequency: At the end of each APS processing day.

Outline contents:

Daily TPS / APS Transaction Reconciliation Summary Report

Processing Date: dd/mm/yyyy   Report Date: dd/mm/yyyy

                                                               Report Time: hh:mm:ss

Transaction Date	**Office Transactions**			**Pathway Delivered**		**Difference (1)**	
	Number	**Value (£)**		**Number**	**Value (£)**	**Number**	**Value (£)**
Date 1	9,999,999	999,999,999.99	POLFS	9,999,999	999,999,999.99	9,999,999	999,999,999.99
			Clients	9,999,999	999,999,999.99	9,999,999	999,999,999.99
			Difference (2)	9,999,999	999,999,999.99		
Date 2	9,999,999	999,999,999.99	POLFS	9,999,999	999,999,999.99	9,999,999	999,999,999.99
			Clients	9,999,999	999,999,999.99	9,999,999	999,999,999.99
			Difference (2)	9,999,999	999,999,999.99		
Date N	9,999,999	999,999,999.99	POLFS	9,999,999	999,999,999.99	9,999,999	999,999,999.99
			Clients	9,999,999	999,999,999.99	9,999,999	999,999,999.99
			Difference (2)	9,999,999	999,999,999.99		

Sort order: Reverse chronological order on Transaction Date.

Field derivations:

Report Date: The date the report was generated.

Report Time: The time the report was generated.

Processing Date: The logical system date set by the APS Host Batch Schedule. This date is constant for one processing cycle of the daily schedule.

Transaction Date: The last N dates for which transactions were delivered and for which differences in the total number and/or total value of:

- APS transactions at Branches;

- APS transactions delivered by TPS to POLFS;

- APS transactions delivered by APS to Clients.

have been identified and still exist.

Office Transactions: The total number and total value of APS transactions at Branches for the corresponding transaction dates.

Pathway Delivered: The total number and total value of POLFS and Client (including HAPS) delivered APS transactions for the corresponding transaction dates.

Difference (1): The Branch Transactions number and value minus the POLFS number and value, and the Branch Transactions number and value minus the Client number and value for the corresponding transaction dates.

Difference (2): The POLFS number and value minus the Client number and value for the corresponding transaction dates.

Value fields: If any value to be reported is negative, then it shall be enclosed in brackets. For example, the value -£4.23 shall be shown as (4.23).

4.5.3 APSS2136b - Daily TPS / APS Transaction Reconciliation Client Account Exception Report

Objectives: To identify Client account exceptions when comparing the actual POLFS and Client delivered APS transaction totals for the last N days.

Users: Fujitsu Services Post Office Account

Frequency: At the end of each APS processing day.

Outline contents:

Daily TPS / APS Transaction Reconciliation Client Account Exception Report

Processing Date:	dd/mm/yyyy		Report Date:	dd/mm/yyyy
			Report Time:	hh:mm:ss

Transaction Date	Clearing Agent	Client Account No & Name	Pathway Delivered		Number	Value (£)
Date 1	Girobank	Client 1	POLFS		9,999,999	999,999,999.99
			Client		9,999,999	999,999,999.99
			Difference		9,999,999	999,999,999.99
		Client 2	POLFS		9,999,999	999,999,999.99
			Client		9,999,999	999,999,999.99
			Difference		9,999,999	999,999,999.99
	Client 3	Client 3	POLFS		9,999,999	999,999,999.99
			Client		9,999,999	999,999,999.99
			Difference		9,999,999	999,999,999.99
	HAPS	Client 4	POLFS		9,999,999	999,999,999.99
			Client		9,999,999	999,999,999.99
			Difference		9,999,999	999,999,999.99
	Total Difference				9,999,999	999,999,999.99
	Reconciliation Error				9,999,999	999,999,999.99

Date N	Girobank	Client 1	POLFS	9,999,999	999,999,999.99
			Client	9,999,999	999,999,999.99
			Difference	9,999,999	999,999,999.99
	Total Difference			9,999,999	999,999,999.99
	Reconciliation Error			9,999,999	999,999,999.99

Sort order: Reverse chronological order on Transaction Date. Within this, the sort order will be ascending on Clearing Agent.

Within this, the sort order will be ascending on Client Account.

Field derivations:

Report Date: The date the report was generated.

Report Time: The time the report was generated.

Processing Date: The logical system date set by the APS Host Batch Schedule. This date is constant for one processing cycle of the daily schedule.

Transaction Date: The last N dates for which transactions have delivered for which differences in the total number and/or total value of TPS and APS delivered APS transactions have been identified and still exist at Client account level.

Difference: For each date and Client, the POLFS number and value minus the Client number and value for delivered.

Clearing Agent: The organisation to which the APS transactions for the listed Client accounts have been sent by Fujitsu Services.

Client Account No and Name: The Client account number and name for which differences in the total number and/or total value of TPS and APS delivered APS transactions have been identified and still exist at Client account level.

Pathway Delivered: The total number and total value of POLFS and Client delivered APS transactions for the corresponding transaction dates.

Total Difference: The total Number and total Value of the Difference for all Clients for the specified date.

Reconciliation Error: Total Difference minus Difference (2) from the Daily TPS / APS Transaction Reconciliation Summary Report for the specified date (see section 5.2.2).

Value fields: If any value to be reported is negative, then it shall be enclosed in brackets. For example, the value -£4.23 shall be shown as (4.23).

4.5.4 APSS2136c - Daily TPS / APS Transaction Reconciliation Detail Exception Report

Objectives: To report all transactions for the last N days which are different in POLFS to Client delivery. Differences may occur either as a result of some error condition, or in the case of unmatched TPS/POLFS transactions as a result of business processing rules being different from those of APS/Client transactions.

Users: Fujitsu Services Post Office Account

Frequency: At the end of each APS processing day.

Outline contents:

Daily TPS / APS Transaction Reconciliation Detail Exception Report

Processing Date: dd/mm/yyyy

Report Date: dd/mm/yyyy

Report Time: hh:mm:ss

Transaction Date	Source	Transaction Details		Error Message
Date 1	TPS/POLFS	TPS/POLFS Transaction Details 1		Discrepancy 1
	APS/Client	APS/Client Transaction Details 1		Difference 1
	TPS/POLFS	TPS/POLFS Transaction Details 2		Discrepancy 2
	APS/Client	APS/Client Transaction Details 2		Difference 2
	TPS/POLFS Only		Count 9,999,999	"Unmatched"
	APS/Client Only		Count 9,999,999	Difference 3
			Number	Value (£)
		Total Difference	9,999,999	999,999,999.99
		Reconciliation Error	9,999,999	999,999,999.99
Date 2	TPS/POLFS	TPS/POLFS Transaction Details 3		Discrepancy 3
	APS/Client	APS/Client Transaction Details 3		Difference 1
	TPS/POLFS Only		Count 9,999,999	"Unmatched"
	APS/Client Only		Count 9,999,999	Difference 3
			Number	Value (£)
		Total Difference	9,999,999	999,999,999.99
		Reconciliation Error	9,999,999	999,999,999.99
Date 3	TPS/POLFS	TPS/POLFS Transaction Details 3		Discrepancy 3
	APS/Client	APS/Client Transaction Details 3		Difference 1
			Number	Value (£)

				Number	Value (£)
		Total Difference		9,999,999	999,999,999.99
		Reconciliation Error		9,999,999	999,999,999.99
Date N	TPS/POLFS	TPS/POLFS Transaction Details n			Discrepancy n
	APS/Client	APS/Client Transaction Details n			Difference n
				Number	Value (£)
		Total Difference		9,999,999	999,999,999.99
		Reconciliation Error		9,999,999	999,999,999.99

Sort order: Reverse chronological order on Transaction Date. Within this, the sort order will be ascending on Transaction Details as defined below.

Field derivations:

Report Date: The date the report was generated.

Report Time: The time the report was generated.

Processing Date: The logical system date set by the APS Host Batch Schedule. This date is constant for one processing cycle of the daily schedule.

Transaction Date: The last N dates for which transactions have been delivered and for which differences in the total number and/or total value of TPS and APS delivered APS transactions have been identified and still exist at a detailed level.

Source: Identifies whether the exceptions are due to TPS/APS harvesting discrepancies or due to POLFS/Client delivery discrepancies.

Transaction Details: Details of the APS transactions for which a TPS/APS harvesting exception or a POLFS/Client delivery exception has been identified for the corresponding transaction dates. The Transaction Details will be:

FAD Code.	K
Time.	K
Receipt Reference.	K
Receipt Serial Number.	K
Transaction Type.	C
Client Code.	C
Customer Reference.	C
Method of Capture.	C
Value.	C
Clearing Agent.	S
Client Account and Name.	S
Reversing/Reversed Receipt Reference.	S
Reversing/Reversed Receipt Serial Number.	S

Key to above:

K =>   Transactions from APS are matched with APS transactions from TPS on these fields. All transactions for which no match can be made appear in this report with the error message "Unmatched". In addition to the marked fields, above, "Transaction Date" is a "K" field.

C =>   Matching APS transactions from APS and TPS are compared on these fields. If any of these fields are different, both transactions appear on this report with the appropriate error message.

S =>   Fields shown from the APS transaction only

TPS/POLFS Only: Unmatched TPS transactions are transactions that appear in TPS and are delivered to POLFS but for which there are no matching APS transactions. Such transactions may occur, for example, due to business processing rules for TPS and APS being different. For Dates 1 and 2 only, unmatched TPS transactions will <u>not</u> be detailed individually, but a total count and value will be entered. For Dates 3 to N, unmatched TPS transactions will be detailed individually.

APS/Client Only: Unmatched APS transactions are transactions that appear in APS and are delivered to Clients but for which there are no matching TPS transactions. Such transactions are not expected other than in error conditions. For Dates 1 and 2 only, unmatched APS transactions will <u>not</u> be detailed individually, but a total count and value will be entered. For Dates 3 to N, unmatched APS transactions will be detailed individually.

Error Message: The error message identifying the APS transaction discrepancy. This includes problems concerning synchronisation between HNG-X and POLFS on Client accounts, HNG-X security checks, and transaction validation checks. The message "Unmatched" will be used for unmatched TPS or APS transactions.

Difference: The Value of the TPS/POLFS Transaction minus the Value of the APS/Client Transaction. Note: Difference 3 is the Unmatched TPS Value minus the Unmatched APS Value.

Total Difference: The Count of the total Number of TPS Transactions minus the total Number of APS Transactions, and the total Value of the Difference for all Transactions for the specified date.

Reconciliation Error: Total Difference minus Difference (2) from the Daily TPS / APS Transaction Reconciliation Summary Report for the specified date (see section 5.2.2).

Value fields: If any value to be reported is negative, then it shall be enclosed in brackets. For example, the value -£4.23 shall be shown as (4.23).

4.6 APS Reconciliation / Reporting Point 3

4.6.1 Description

The APS harvester attempts to harvest all APS transactions from all HNG-X Branches each day. However, there will be error conditions where this is not fully achieved, possibly because of a communication link issue or failure of the counter gateway PC.

This reconciliation point is on completion of the APS Harvester. The APS Harvester provides the APS Host with details of which Branches have been harvested each day. The APS Host correlates these details with reference data information on Branch automation and Branch opening days and maintains a record of the number of working days since each Branch was last harvested. A report is produced each day of Branches, which are scheduled to be open and have not been harvested.

4.6.2 APSS2139 - Daily APS Office Harvesting Report

Objectives: To provide a total for the number of Branches harvested, and a list of the Branches scheduled to be open, which have not been harvested.

Users: Post Office Ltd and Fujitsu Services Post Office Account

Frequency: Upon completion of the APS harvester each day.

Outline contents:

Daily APS Office Harvesting Report

Processing Date: dd/mm/yyyy

Report Date: dd/mm/yyyy

Report Time: hh:mm:ss

Total Number of Branches due to be Harvested: 99,999

Total Number of Branches Harvested: 99,999

Total Number of Branches not Harvested: 99,999

FAD Code and Name	Date Last Harvested	No of Working Days since Last Harvested
123456 name 1	dd/mm/yyyy	3
345678 name 2	dd/mm/yyyy	1
456654 name 3	dd/mm/yyyy	1

Sort order: Chronological order on Date Last Harvested. Within this, the sort order will be ascending on Branch Code.

Field derivations:

Report Date: The date the report was generated.

Report Time: The time the report was generated.

Processing Date: The logical system date set by the APS Host Batch Schedule. This date is constant for one processing cycle of the daily schedule.

Total Number of Branches due to be Harvested: The total number of HNG-X Branches less the number of Branches scheduled to be closed.

Total Number of Branches Harvested: The total number of HNG-X Branches actually harvested.

Total Number of Branches not Harvested: The total number of HNG-X Branches due to be harvested that were not harvested, i.e. a count of the Branch codes in the report.

FAD Code and Name: The Post Office Ltd Branch code and Branch name identifying the branch not harvested.

Date Last Harvested: The date of the last End of Day processed. If the Branch is new and has never been harvested, the message "Not Yet Harvested" will appear.

No of Working Days since Last Harvested: The number of transaction days for which the Branch was scheduled to be open and for which the Branch has not been harvested. If the Branch is new and has never been harvested, the message "Undefined" will appear.

4.7 APS Reconciliation Point 4

4.7.1 Description

The APS harvester attempts to harvest all APS transactions from all HNG-X Branches each day. However, there may be error conditions where this is not fully achieved, and a transaction that took place in an Branch is not harvested.

This reconciliation point is on completion of the APS Harvester. It identifies Branches where the harvested APS transaction number and value totals are different to the totals at the Branch.

4.7.2 APSS2140 - APS Harvester Transaction Totals Summary

Objectives: To provide Branch totals and harvested totals by transaction date for each of the last N transaction days for the APS Harvester. When errors occur, the differences will show for the most recent days but all these differences will disappear within a very few days of the processing date.

Users: Fujitsu Services Post Office Account

Frequency: Following completion of the APS harvester each day

Outline contents:

<div align="center">

APS Harvester Transaction Totals Summary

</div>

Processing Date: dd/mm/yyyy   Report Date: dd/mm/yyyy

Report Time: hh:mm:ss

Transaction Date	Office Totals		APS Harvested Totals		Difference	
	Number	**Value (£)**	**Number**	**Value (£)**	**Number**	**Value (£)**
Date 1	9,999,999	999,999,999.99	9,999,999	999,999,999.99	9,999,999	999,999,999.99
Date 2	9,999,999	999,999,999.99	9,999,999	999,999,999.99	9,999,999	999,999,999.99
Date N	9,999,999	999,999,999.99	9,999,999	999,999,999.99	9,999,999	999,999,999.99

Sort order: Reverse chronological order on Transaction Date.

Field derivations:

Report Date: The date the report was generated.

Report Time: The time the report was generated.

Processing Date: The logical system date set by the APS Host Batch Schedule. This date is constant for one processing cycle of the daily schedule.

Transaction Date: The last N dates for which transactions have been harvested and for which differences in the total number and/or total value of:

- APS transactions at Branches;

- Transactions harvested by APS.

have been identified and still exist.

Office Totals: The total number and total value of Branch APS transactions for the given date from Branches that have been harvested.

APS Harvested Totals: The total number and total value of APS harvested APS transactions for the given date.

Difference: The Branch Totals (number and value) minus the APS Harvested Totals (number and value) for each Transaction Date.

Value fields: If any value to be reported is negative, then it shall be enclosed in brackets. For example, the value -£4.23 shall be shown as (4.23).

4.7.3 APSS2140b - APS Harvester Transaction by Office

Objectives: To provide details by Branch code of any discrepancies that exists in the overall totals shown in the APS Harvester Transaction Totals Summary (see section 5.4.2).

Users: Fujitsu Services Post Office Account .

Frequency: Following completion of the APS harvester each day.

Outline contents:

APS Harvester Transaction Totals by Office

Processing Date: dd/mm/yyyy

Report Date: dd/mm/yyyy

Report Time: hh:mm:ss

Transaction Date	FAD Code & Name	Office Totals		APS Harvested Totals		Difference	
		Number	Value (£)	Number	Value (£)	Number	Value (£)
Date 1	123456	9,999,999	999,999,999.99	9,999,999	999,999,999.99	9,999,999	999,999,999.99
	345678	9,999,999	999,999,999.99	9,999,999	999,999,999.99	9,999,999	999,999,999.99
	456654	9,999,999	999,999,999.99	9,999,999	999,999,999.99	9,999,999	999,999,999.99
Total		9,999,999	999,999,999.99	9,999,999	999,999,999.99	9,999,999	999,999,999.99
Reconciliation Error						9,999,999	999,999,999.99
Date N	123456	9,999,999	999,999,999.99	9,999,999	999,999,999.99	9,999,999	999,999,999.99
	345678	9,999,999	999,999,999.99	9,999,999	999,999,999.99	9,999,999	999,999,999.99
	456654	9,999,999	999,999,999.99	9,999,999	999,999,999.99	9,999,999	999,999,999.99
Total		9,999,999	999,999,999.99	9,999,999	999,999,999.99	9,999,999	999,999,999.99
Reconciliation Error						9,999,999	999,999,999.99

Sort order: Reverse chronological order on Transaction Date. Within that ascending on Branch Code.

Field derivations:

Report Date: The date the report was generated.

Report Time: The time the report was generated.

Processing Date: The logical system date set by the APS Host Batch Schedule. This date is constant for one processing cycle of the daily schedule.

Transaction Date: The last N dates for which transactions have been harvested and for which differences in the total number and/or total value of:

- APS transactions at Branches;
- APS transactions harvested by APS

have been identified and still exist.

FAD Code and Name: The Post Office Ltd Branch code and Branch name identifying the Branch for which TPS/APS harvesting discrepancies still exist.

Office Totals: The total number and total value of Branch APS transactions for the given date and harvested Branch.

APS Harvested Totals: The total number and total value of APS harvested transactions for the given date and Branch.

Total: The total number and total value of the transactions for all Branches for the specified date.

Reconciliation Error: The Total number and value minus the corresponding entries from the APS Harvester Transaction Totals Summary for the specified date (see section 5.4.2).

Difference: The Branch Totals (number and value) minus the APS Harvested Totals (number and value) for each Transaction Date.

Value fields: If any value to be reported is negative, then it shall be enclosed in brackets. For example, the value -£4.23 shall be shown as (4.23).

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4.8   APS2134 - APS Validation Status Report

Objectives: To identify the success or failure of the APS Validation process. This compares the volume of normal transactions and the value of all transactions between each Client Transmission file and the corresponding fields in the CTS sub-file.

Users: Fujitsu Services Post Office Account

Frequency: At the end of each APS processing day

Outline contents:

<div align="center">

APS Validation Status Report

</div>

Processing Date:	dd/mm/yyyy	Report Date:	dd/mm/yyyy
		Report Time:	hh:mm:ss

Report message

Field derivations:

Report Date: The date the report was generated.

Report Time: The time the report was generated.

Processing Date: The logical system date set by the APS Host Batch Schedule. This date is constant for one processing cycle of the daily schedule.

Report Message: If all APS validation was successful, the message will be

All APS Client transmission files and CTS validated successfully

If any validation of a file fails, the message will be:

Validation Error on *[filename]* for Client*: [Client account and name]*		Count	Value
	Transaction Tables	9,999,999	999,999,999.99
	File	9,999,999	999,999,999.99

Or

Validation Error on Client Transmission Summary		Count	Value
	Transaction Tables	9,999,999	999,999,999.99
	File	9,999,999	999,999,999.99

The appropriate message will appear for all files that fail the validation.

Value fields: If any value to be reported is negative, then it shall be enclosed in brackets. For example, the value -£4.23 shall be shown as (4.23).

End to End Reconciliation Reporting

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4.9 APS Report Delivery

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

Reports for Fujitsu Services Post Office Account are delivered to the MIS Client PC in BRA01 via FTP.

The 5 APS reports shown below are then sent via email to Post Office Ltd:

1. APSS2133
2. APSS2133b
3. APSS2133c
4. APSS2136
5. APSS2139

5 TPS Reconciliation Reports Specified

The Transaction Processing System (TPS) Report Set has been designed to enable reconciliation of the transactions carried out in Post Office branches using the Electronic Point of Sale Service (EPOSS) which are sent to POLFS and POLMIS.

The TPS exceptions report set identified herewith reports errors that have occurred within counter transactions or during the harvesting process.

NB: For the avoidance of doubt, there is no formal reconciliation produced between the POLFS and POLMIS transaction stream. The POLMIS stream should therefore not be used to verify financial integrity and Post Office Ltd should ensure the TPS Report Set and POLFS transaction stream are used for this purpose.

IT IS NOT INTENDED THAT FUJITSU SERVICES WILL DELIVER ANY OF THE TPS RECONCILIATION REPORT SET IDENTIFIED HEREWITH TO POST OFFICE LTD.

The reports specified below are Horizon based Reconciliation Report set.

This may change or be replaced when the HNG-X transition happens.

End to End Reconciliation Reporting

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5.1 TPSC250 - Host Detected Transaction Control Errors

This report is produced daily and shows detail for any Post Office branch where the control totals for the transactions output by the Host to POLFS and POLMIS do not match the Daily Transaction Totals calculated by the Counters.

```
TPS RECONCILIATION REPORTS          RUN DATE/TIME: 26/10/2006 20:52:53    Page No:    1

                                                                  PROGRAM:TPSC250

                      Host Detected Transaction Control Errors

 Org Unit Id Group Id  Trading Date              Number   Abs Quantity Absolute Value

     69303   128006     26/10/2006  TPS Total      3097        25358      295181.97
                                    Counter Total  3098        25358      295181.97


Total Number of records = 1
*** End of Report ***
```

The following data is reported for each exception.

- Organisation Unit Id: Unique identifier for each POCL Branch.

- Group Id: Normally 6 digit Branch Code

- Trading Date: Trading Date is the period of time between consecutive public end of day markers in message store.

- TPS Total: Control Totals for Number, Absolute Quantity and Absolute Value calculated by the Host

- Counter Total: Control Totals for Number, Absolute Quantity and Absolute Value calculated by the Counter.

An "END OF REPORT" message will appear at the end of the report even if there are no errors reported.

5.2 TPSC254 – Harvester Exceptions

This report is produced daily and shows a list of exceptions detected by the TPS harvester when failing to process one or more messages due to message attributes being corrupted or incomplete within the Riposte message store.

```
                       TPS RECONCILIATION REPORTS      RUN DATE/TIME:  26/10/2006 20:52:54    PAGE NO:   1
                                                                              PROGRAM: TPSC254
                              TPS Harvester Exceptions

Agent Name     : T_HV_ALL                   Agent Instance: 56
Exception Date : 26/10/2006 19:22:48  Exception Code: 3004      Short Message: -2290
Exception Detail: Message Group=128006, Node=3, Number=574110 not harvested: Could not update database: Updating table TMS_RX_BDC_T
                 RANSACTIONS, ORA-02290: check constraint (OPS$TPS.BT63A_EXCHANGE_RATE_CHK) violated
                 .
Resolving Action:
Trading Date   : 26/10/2006
Riposte Message : <Message:<GroupId:128006><Id:3><Num:574110><Date:26-Oct-2006><Time:11:01:57><User:YKH002><Expiry:42><TranStartNum
                 :574110><TxnData:<TxnId:44-128006-3-574110-1><SessionId:44-128006-3-574110-1><Container:BB><Start:<Date:26-Oct-20
                 06><Time:11:01:57><TF:3>><End:<Date:26-Oct-2006><Time:11:01:57><TF:4>><Mode:RD><Application:BDC1><EPOSSTransacti
                 on:<CofA:552100><ProductNo:5133><PVer:1><Qty:0><SaleValue:0><INVI:<ProductNo:5133><PVer:1><Qty:0><EntryMethod:1>
                 <BlackBoxData:<M:RD><V:6>><AdditionalData:<BDC:<SQty:-100><PQty:0><ExRt:><TValue:0><CurCode:BEF><RN:Belgium Franc
                 >>><TranType:S><PM:<L1:2013><L2:2016><L3:3007><L4:3008><L5:3017>><SM:><TM:>><Credit:0><CRC:2F757E6A>>
Table Name     : TMS_RX_BDC_TRANSACTIONS
Column 1  Name : ORG_UNIT_ID                    Column 1  Value: 69303
Column 2  Name : ORG_UNIT_VERSION_NO            Column 2  Value: 17
Column 3  Name : PROD_ID                        Column 3  Value: 5133
Column 4  Name : END_DATE                       Column 4  Value: 26-Oct-200611:01:57
Column 5  Name : END_TIME_FRACTION              Column 5  Value: 4
Column 6  Name : ENTRY_METHOD                   Column 6  Value: 1
Column 7  Name : FALLBACK_MODE                  Column 7  Value: N
Column 8  Name : QUANTITY                       Column 8  Value: 0
Column 9  Name : AMOUNT                         Column 9  Value: 0
Column 10 Name : RIPOSTE_NUM                    Column 10 Value: 574110
Column 11 Name : START_DATE                     Column 11 Value: 26-Oct-200611:01:57
Column 12 Name : START_TIME_FRACTION            Column 12 Value: 3
Column 13 Name : BALANCE_PERIOD                 Column 13 Value: NULL
Column 14 Name : CASH_ACCOUNT_PERIOD            Column 14 Value: NULL
Column 15 Name : TRANSACTION_SEQUENCE_NUMBER    Column 15 Value: 1
Column 16 Name : USER_NAME                      Column 16 Value: YKH002
Column 17 Name : CONTAINER                      Column 17 Value: BB
Column 18 Name : SESSION_SEQUENCE_NUMBER        Column 18 Value: 741101
Column 19 Name : GROUP_ID                       Column 19 Value: 128006
Column 20 Name : COUNTER_POSITION               Column 20 Value: 3
Column 21 Name : REVERSAL                       Column 21 Value: 0
Column 22 Name : REVERSAL_SU                    Column 22 Value: NULL
Column 23 Name : REVERSAL_SESSION_NUMBER        Column 23 Value: NULL
Column 24 Name : REVERSAL_TRANSACTION_NUMBER    Column 24 Value: NULL
Column 25 Name : TRANSACTION_MODE_ID            Column 25 Value: 5
Column 26 Name : TRANSACTION_MODE_VERSION_NO    Column 26 Value: 6
Column 27 Name : TRADING_DATE                   Column 27 Value: 26-Oct-200600:00:00
Column 28 Name : APPLICATION_TYPE               Column 28 Value: BDC1
Column 29 Name : BUREAU_REGION                  Column 29 Value: NULL
Column 30 Name : COMMISSION                     Column 30 Value: NULL
Column 31 Name : CURRENCY                       Column 31 Value: BEF
Column 32 Name : EFFECTIVE_EXCHANGE_RATE        Column 32 Value: NULL
Column 33 Name : EXCHANGE_RATE                  Column 33 Value: NULL
Column 34 Name : MARGIN                         Column 34 Value: NULL
Column 35 Name : MARGIN_PRODUCT                 Column 35 Value: NULL
Column 36 Name : PURCHASED_QUANTITY             Column 36 Value: 0
Column 37 Name : PURCHASED_VALUE                Column 37 Value: 0
Column 38 Name : STOCK_QUANTITY                 Column 38 Value: -100
Column 39 Name : POUCH_ID                       Column 39 Value: NULL

Total records in report = 1
*** END OF REPORT ***
```

Along with the exception details briefing the reason for the rejection by the TPS harvester, the report also shows the contents of the corrupted or incomplete riposte message as laid out in the message store and also split up into columns.

An "END OF REPORT" message will appear at the end of the report even if there are no errors reported.

End to End Reconciliation Reporting

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5.3 TPSC257 – POLFS Incomplete Summaries Report

This report identifies all Post Office branches on a daily basis in which the net total of transactions (debits/credits) does NOT net to a value of zero.

This report also contains any branch that has had a harvester exception as on the TPSC254 report.

```
FUJITSU SERVICES TRANSACTION PROCESSING SYSTEM                              Page No: 1
POL FS INCOMPLETE SUMMARIES REPORT FOR 26-OCT-2006
(LIST OF HELD UP POL FS SUMMARIES WHERE THE TOTAL VALUE FROM BRANCH AND TRADING DATE DID NOT BALANCE TO ZERO)
Report No.: TPSC257
Produced on:   26/10/2006 20:52:54
```

Trading Date Reference Id	Group Id	Article Id Client Reference	Article Type	Trans Mode Acronym	Settlement Type	Ledger	Account	Movement Type	Account Value	Account Quantity	Account
26-OCT-2006	128006	CHF	50	RU					-1.49	+0	
26-OCT-2006	128006	CAD	50	RD					+0.02	+0	
26-OCT-2006	128006	PTCH	99			G	552001		-1099.26		
26-OCT-2006	128006	DM00000253	00						-71.78		
26-OCT-2006	128006	SA00000141	40	SC	P	C	120699		+249.35	+10	
26-OCT-2006	128006	SA00000136	40	SC	E	C	120012	251	+0.00	+5	
26-OCT-2006	128006	SA00000115	40	SC	P	C	120740		+99.21	+1	
26-OCT-2006	128006	SA00000056	40	SC	E	C	120007		+90.00	+2	
26-OCT-2006	128006	SA00000055	40	SC	E	C	120007		+66.00	+1	
26-OCT-2006	128006	SA00000053	40	SC	C	C	120184		+830.00	+5	
26-OCT-2006	128006	SA00000052	40	SC	E	C	120003		+0.00	+1	
26-OCT-2006	128006	SA00000050	40	SC	E	C	120003		+3694.78	+4	
26-OCT-2006	128006	SA00000048	40	SC	E	C	120003		+25719.42	+57	
26-OCT-2006	128006	SA00000043	40	SC	C	C	120088		+922.00	+16	
26-OCT-2006	128006	SA00000036	40	SC	C	C	120088		-456.60	+8	
26-OCT-2006	128006	SA00000035	40	SC	C	C	120184		-1916.52	+4	
26-OCT-2006	128006	SA00000031	40	SC	P	C	120008		-3750.62	+33	
26-OCT-2006	128006	SA00000013	40	SC	P	C	120748		+246.00	+15	
26-OCT-2006	128006	SA00000010	40	SC	P	C	121573		+46.80	+57	
26-OCT-2006	128006	QVBO000001	33	DDP	E	C	120012	951	-35.01	-3501	
26-OCT-2006	128006	QVBO000001	33	SC	E	C	120012	251	+114.52	+11452	
26-OCT-2006	128006	QOBO001229	13	SC	P	C	120005	251	+0.00	+22	
26-OCT-2006	128006	QOBO001226	13	SC	E	C	120012	251	+2.56	+4	
26-OCT-2006	128006	QOBO001200	13	SC	E	C	120012	251	+5.76	+8	

```
Total Number of Held Back Sub-file(s) = 1

*This is delta position for the date, not the cumulative position of POL FS Incomplete Summaries

*** End of Report ***
```

The following data is reported for each branch.

Data Attribute	Description
Trading Date	'The Calendar Date that the EOD Marker was written. EOD Marker defines the end of a Trading Day. N.B. The time the EOD Marker is written varies from Branch to Branch.
Group Id	Group Id (Branch Code without the check sum) for the branch.
Article Id	POL FS Article All HNG-X Products will map to a POL FS Article. This may be a dummy article to facilitate the consistent mapping of all HNG-X Products. Dummy articles will be for items such as Cash in hand, cheques etc that will not map to an article in POL FS but actually map to a GL or Agent Account instead.
Transaction Mode Id	HNG-X Mode the product was transacted in, e.g. Sell, Rem In, Revaluation, etc.
Settlement	Defines which data is used to settle with the Client P = Post office data C = Client Data E = Estimated data This is required as there will be a different indicator used within POL FS to differentiate these data types. (Special GL indicator). This is optional as it is only relevant to Client products and transactions that need to feed the Client ledger.
Ledger	Defines which Ledger the POL FS account belongs in G = General Ledger C = Client Ledger (AP) A = Agents Ledger (AR) POL FS uses three different ledgers and needs to know which ledger each account number is part of. This field is optional in the file because records that relate only to stock movements with no financial impact will not map to an account in any ledger.
Account	POL FS account number This is the account number within the Ledger defined above. This field is optional in the file because records that relate only to stock movements with no financial impact will not map to an account in any ledger.
Movement Type	POL FS Movement type This is only relevant for stocked products and allows different movement types such as REM in, REM out, and adjustments to be shown differently in SAP. There will be a consistent mapping between certain modes to movement types but these will only be valid for particular Articles.
Account Reference Id	Transaction Identifier (this field is needed if the information is being sent unsummarised) Controlled by reference data. [DN: This is either the value of TPSTransaction.BlackBoxData.PouchId or TPSTransaction.BlackBoxData.TCReference. These are mutually exclusive and can therefore be harvested into a single NEW attribute in the TPS interface table called AccountReference (or something similar). To be discussed with Rex.]
Client Reference	Client Reference number (supplied by Client) This will only be used for the actioned Transactions Correction being passed back to POL FS against the Client products. [DN: NOT controlled by reference data.

End to End Reconciliation Reporting

COMMERCIAL IN CONFIDENCE

	This is the value of TPSTransaction.BlackBoxData.ClientRef. This can be harvested into a single NEW attribute in the TPS interface table called ClientReference (or something similar). To be discussed with Rex.]

An "END OF REPORT" message will appear at the end of the report even if there are no errors reported.