

**Fujitsu  
Services****Network Banking MIS Report Design**

Ref: NB/SDS/008

Version: 3.0

**COMMERCIAL IN CONFIDENCE**

Date: 13/12/2004

**Document Title:** Network Banking MIS Report Design**Document Type:** Report Design**Release** S75**Abstract:** This Contract Controlled document details the design of Management Information Reports that are part of the Network Banking Service.**Document Status:** Approved**Authors:** Roger Barnes**Contributors:**

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**0.1 Document Control****0.1 Document History**

Version	Date	Reason for Issue	Associated CP/ PinICL Nos.
0.1	12/09/2001	First draft	
0.2	4/12/2001	Second draft. Pathway document boilerplate added. Changes arising from POL review of first draft incorporated. Reports re-designed to get most benefit from Business Objects.	
0.3	14/12/2001	Changes arising from comment from internal review.	

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1.0	20/3/2002	Un-approved baseline for first drop of code from development to System Test.	
1.1	12/4/2002	Changes arising from comment from external review. Changes due to changes in requirements introduced by CP.	CP3208 CP3209 CP3221
1.2	24/05/2002	Removal of POL Organisational Analysis Report	Removal of requirement for this Report from N05
2.0	12/07/2002	Minor comments from POL applied and issued for approval. Initial definitions of Value Bands and applicable Product Types add to definition of the Bank Analysis report.	
2.1	20/10/2004	Change to Bank analysis Report to include sub-reports for DCS chargeable and network banking transactions  Addition of Outlet Opening and Outlet Exceptions Report  Exclusion of Electronic Top Up transactions from Multiple Transactions Report Addition of Transaction Response Time report	CP3431  CP3426  CP3480
2.2	16/11/2004	Addition of Transactions Performed in Fallback and Transactions Performed by Method of Entry reports.	
3.0	13/12/2004	Issued for Approval	

0.2 **Approval Authorities**

Name	Position	Signature	Date
David Johns	APDU Design Manager Fujitsu Services		
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0.3 **Associated Documents**

Ref.	Doc.	Vers.	Title	Author
REQ	NB/SPE/001		Network Banking, Systems Requirements Specification	T.Hayward
N05	BP/CON/266		Codified Agreement Schedule N05 -	

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			NBS Service Management	
DES	TD/SDS/001		System Design Specification for the Network Banking Application	Gareth Jenkins
DAT	NB/SDS/009		Network Banking MIS Data Model	Steve Newman
VOL	NB/SRS/001		Systems Requirements Specification for Business Volumes	James Stinchcombe
AIS	NB/IFS/006		Pathway Data Warehouse to Post Office Ltd Application Interface Specification.	Steve Newman
OPS	CS/PRD/109		Delivery Procedure For Network Banking MIS Reports	John Moran

Unless stated otherwise the documents referred to above are the latest approved versions.

## 0.4 Abbreviations & Definitions

Abbreviation	Definition
Accounting Day	A day within an Accounting Week for POL.
Accounting Week	Period of approx. one calendar week (Thursday to Wednesday), defined by POL for accounting purposes. A collection of Accounting Days
Authorising Source	A body that authorises transactions, might be a Bank but more often an agent such as LINK
Bank	Financial Institution that issues cards to its customers that can be used for NB Transactions. N.B. Bank is a specialisation of the POL Client entity.
Confirmed Amount	Amount confirmed in C2 message. Zero if transaction fails, is declined, or is balance enquiry
DWh	Data Warehouse.
End Date	Identifies the end of a period of time (Date and Time)
FAD Code	A structured code to identify an outlet or a satellite as a cash accounting unit.
Financial Institution	A privately owned entity that collects funds from the public.
Issuer Scheme	Classification of a group of types of cards issued by a Bank
Issuer Scheme ID	Unique (POL) system generated code identifying an Issuer Scheme
Money Laundering Threshold	A cut off value below which 'Cash Deposit' transactions are not likely to be of interest from a money laundering perspective.
Month	A calendar month
NB	Network Banking
NB Transaction	Record of an attempted Network Banking Transaction, regardless of its <i>Outcome</i>
NBE	Network Banking Engine
NBS	Network Banking Service
Outcome	Classification of the result of a <i>NB Transaction</i>
Outcome Code	Unique code indicating the <i>Outcome</i> of a Transaction.
Transaction Result	Classification of <i>Outcome</i> , e.g. 'Transaction Completed OK', 'Abandoned by Clerk', 'Decline Confirmed', 'Transaction Failed'
Transaction Result Code	Unique code indicating the <i>Transaction Result</i> of a NB Transaction.
Outlet	Place where Horizon system is installed for conducting transactions with the general public
PAN	Primary Account Number
Posting Date	The date of the last complete POL Trading Day (ending at 19:00) preceding the harvesting run producing the Transmission Files in which the transactions were sent to TIP and the DWh.
POL	Post Office Limited
Product	Classification of <i>NB Transaction</i> identifying the combination of Product Type and Bank
Product Code	Identifies a POCL Product
Product Type	A classification of <i>Product</i> , e.g. 'Cash Withdrawal', 'Cash Deposit', 'Balance Enquiry', etc. Equivalent to Item Type in POLs logical data model.
Product Type ID	Unique (POL) system generated code identifying an Product Type, e.g. Cash Withdrawal, Cash Deposit, etc.



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RDMC	Reference Data Management Centre
Settlement Date	The date of a <i>NB Transaction</i> for settlement purposes, determined by <i>Authorising Source</i>
Start Date	Identifies the Start of a period of time (Date and Time)
TPS	Transaction Processing System. Fujitsu Services application that collects transaction data from Outlets and forwards it to POL.
Trading Date	Date identifying a period of approximately one calendar day that is the interval between two End of Day markers written at Outlets at a time determined by reference data.
Receipt Date	The local date and time of a transaction as recorded on the receipt.
Transaction Value	Measure (sum) of the confirmed value of transactions in a collection.
Transaction Volume	Measure (count) of volume of transactions in a collection
User Name	User Name entered by Clerk at logon

## **0.5 Changes in This Version**

### **0.5.1 Changes Expected**

None

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## 1 Introduction

Fujitsu Services's Data Warehouse (DWh) will be used to provide all Management Information reports. These are characterised by the use to which they are put and the timeliness in which they need to be produced. A management information report is used to inform strategic decision making rather than day-to-day operational decisions. Usually the reports are produced some time after the fact and report on events that took place over a period of days, weeks and months, or even years, rather than hours.

## 2 Requirements

These reports do not support contractual service levels but are provided for the use of POL to support the management of their business. This is a new service to POL.

Five Trend Analysis reports are required:

- Transaction Outcome by Outlet
- Bank Analysis
- Outlet Opening
- P.O. Opening Exceptions
- Transaction Response Time

## 3 Method of Distribution

Pathway's Management Support Unit will refresh each report shortly after the period covered by the report has ended. This will create a new Business Objects report file for each report. These files will be made available to Post Office Limited, for example by CD-ROM or by placing them on a server to which they have access. The method of delivery will be specified in Delivery Procedure for Network Banking MIS Reports (CS/PRD/109) [OPS].

Once a week the new Business Objects report files for the Transaction Outcome by Outlet and Bank Analysis will be delivered to POL.

The Bank Analysis report will normally be delivered to POL on the working day following the end of the reporting period. Other reports will normally be delivered to POL within five working days after the end of the reporting period.

Post Office Limited will need to provide one or more Windows NT Workstations running BusinessObjects 5.1 to view, print and manipulate the reports provided.

## 4 Design

This section describes the format and content of the Network Banking MIS reports as they will be delivered. It also shows some examples of how the reports can be customised by the user to meet his or her own individual requirements.

This document follows BusinessObjects convention of considering attributes of objects as either Dimensions or Measures. Dimensions are attributes by which it is possible to specify what is being reported. They determine things like **What** happened, **When** something happened, **Where** something happened. It is not normal to perform arithmetic on dimensions. Measures are quantitative attributes like how many or how much. Arithmetic is routinely performed on Measures.

## 4.1 Principles

The following conventions will be applied to all reports unless there is a specific requirement otherwise. Reports will:

- Cover a single instance of a period of time defined in either the Calendar or Accounting Calendar hierarchies.
- Be delivered as Business Objects report files.
- Use Arial font sized at 10 point or above.
- Be able to be printed full width on normal A4 paper either landscape or portrait.
- Column widths must, wherever possible be large enough to display the longest data item without truncation or text wrapping.
- Have a repeating page header that contains the report title, date last refreshed, the period of time covered, and any text required to show the values of any selection criteria used.
  - Where the scope of a report is a *Month* the page header will display the *Month Name* and *Year* in a single field. e.g. August 2001.
  - Where the scope of a report is an *Accounting Week* the page header will display *Accounting Week ID*, *Accounting Period Id*, and *Financial Year* in a single field separated by " / ". e.g. "4 / 5 / 2000" which represents the fourth *Accounting Week* in the Fifth *Accounting Period* in the *Financial Year* that began in *Year* 2000.
- Have a repeating page footer that contains page number in Page n of nn format.
- Object descriptions or names are displayed in preference to codes. N.B. The data providers must include codes so that they are available to users.
- Dates are displayed in DD-Mmm-YY format, left justified.
- Times of events are displayed in hh24:mm:ss format, left justified.
- Times, which are measurements of intervals between events, are displayed in ss.mmm, i.e. seconds and milliseconds.
- Currency amounts are displayed in £#,##0.00 format, right justified.
- Transaction volumes are displayed in #,##0 format, right justified.

## 4.2 Dates

Requirements have been identified to use four dates:

- **Receipt Date** - Calendar Date (and Local Time) when the transaction was recorded. *Receipt Date* will be used for any reports where the details of individual transactions are required.
- **Trading Date** - Identifies *Trading Day*. This is the unit by which the Transaction Processing Service packages transactions for delivery to both TIP and the Data Warehouse. The Data Warehouse will maintain aggregates with Trading Day granularity and this will be the default unit of aggregation for all MIS reports.
- **Settlement Date** - The requirement for the Bank Analysis report explicitly states that *Settlement Date*, which is determined by the *Authorising Source*, is to be used. This attribute will be included in the data passed from TPS to DWh.

- **Posting Date** - This is the date that transactions were posted to the Data Warehouse. It is the date of the *Trading Day* that ended immediately prior to the transactions being harvested by TPS for delivery to TIP.

### 4.3 Hierarchies

Business Objects is a powerful user tool for manipulating data. A full description of the facilities it provides is beyond the scope of this document. Some features however depend on the end users use of them being anticipated and catered for by the designer. This is particularly true when considering the different levels of detail, or abstraction, that a user might require. There are two basic ways to do this:

**Drilling:** This is where the user is interested in looking in more detail at a subset of data from a report. e.g. A user looking at a report showing volumes of transactions by *Bank* and wishes to see how a *Bank's* transactions are distributed by the *Bank's Issuer Schemes*. By selecting the 'Drill' control, the *Bank* Dimension, and the 'drill down' option a new version of the report is displayed showing only the selected *Bank's* transactions broken down by its *Issuer Schemes*. Both the scope and the level of abstraction of the report are changed. This facility depends on hierarchies being defined and made available in reports.

**Dimension Swapping:** This is where a user is interested at looking at a report at a different level of abstraction. e.g. A user is looking at a report showing the volume of Network Banking Transactions by Territory and wishes to look at the same data by Head of Area. By 'dragging' the Head of Area dimension from the Report Manager section of the report and 'dropping' it over the 'Territory' dimension in the report body these dimensions are swapped. The report will change to show the volume of Network Banking Transactions by Head of Area. Changing the dimensions used in a report only changes the level of abstraction and cannot be used to change the scope.

Business Objects is a complex tool and it is possible to manipulate reports in many ways. It is not possible make reports foolproof without removing all the flexibility available. Drilling up and down predefined hierarchies, and swapping a reported dimension for another in the same hierarchy, will be supported.

To support this a number hierarchies have been defined for Network Banking MIS reports. It should be noted that while hierarchies can add greatly to the usefulness of Business Objects reports they are not cost free. The cost comes in three forms 1) The length of time it takes to regenerate reports increases, 2) The size of delivered files increases, 3) The time taken to display the results of changes made to the report by the user increases, reducing its responsiveness. If it is found that any of these is unacceptable in use then consideration should be given to reducing the use of hierarchies.

The convention used in this document for defining hierarchies is top (or most abstract, least detail) to bottom (or least abstract, most detail). Unless restricted by the scope of the report the user will be allowed to navigate both up and down hierarchies.

The following hierarchies are defined:



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Hierarchy: SLA Calendar	Dimension
Level 1	SLA Year
Level 2	SLA Quarter
Level 3	Month
Level 4	Trading Day

Hierarchy: Accounting Calendar	Dimension
Level 1	Financial Year
Level 2	Accounting Period
Level 3	Accounting Week
Level 4	Accounting Day

Hierarchy: Settlement Calendar	Dimension
Level 1	Financial Year
Level 2	Accounting Period
Level 3	Accounting Week
Level 4	Settlement Date

Hierarchy: Bank	Dimension
Level 1	Bank
Level 2	Issuer Scheme

Hierarchy: Product	Dimension
Level 1	Product Type
Level 2	Product

Hierarchy: Outcome	Dimension
Level 1	Transaction Result
Level 2	Outcome

#### **4.4 Report Design**

The design of each report will be expressed in terms of the entities and attributes in [DAT]. For convenience brief descriptions of the entities and attributes employed are reproduced in Section 0.4 Abbreviations and Definitions.

#### 4.4.1 Transaction Outcome Analysis by Outlet

This weekly report [R258] shows a summary of the Network Banking transactions performed in each *Outlet*. The scope of this report will be an *Accounting Week*.

For each *Outlet* there will be one row, showing *Transaction Volume* and *Transaction Value*, for each combination of *Product* and *Outcome*. The sort sequence for this report will be ascending *FAD Code*, *Product* and *Outcome*. Page breaks will be inserted to ensure that each *Outlet* starts on a new page.

##### Rules:

1. *Trading Date* between *Accounting Week.Start Date* and *Accounting Week.End Date*.

##### Measures:

- *Transaction Volume*
- *Transaction Value*

##### Dimensions:

- *Outlet*
- *FAD Code*
- *Accounting Week*
- *Product*
- *Outcome*
- *Method of Entry*

##### Other Details Available:

- *Outlet ID*
- *Product Code*
- *Outcome Code*

##### Hierarchies:

- This is a very large report that is required to show a great deal of detail. No drilling down is possible but drilling up in the *Product* and *Outcome* hierarchies will be supported.

#### 4.4.2 Bank Analysis

A weekly report showing, for each *Bank*, the daily count and sum of *Confirmed Amount* of Network Banking system transactions. [R261]. Network Banking system transactions will include DCS and E-Top Up transactions

Each page will, in addition to the standard page header items, show the date of latest *Posting Date* posted by the Data Warehouse at the time the report was produced (or refreshed). This is included to indicate to the user that the Data Warehouse had posted transactions for each *Posting Date* within the *Accounting Week*.

The scope of this report a week will be an *Accounting Week*. A single report will be produced each week containing all *Banks*.



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Each *Bank* will start on a new page, and within *Bank* there will be separate sections for each *Issuer Scheme*.

Within *Issuer Scheme* there will be one row for each combination of *Posting Date*, *Settlement Date*, *Product Type Value Band* and *Transaction Result* recorded during the reporting period.

The sort sequence for the report will ascending *Bank*, *Issuer Scheme*, *Posting Date*, *Settlement Date*, *Product Type Value Band* and *Transaction Result*.

N.B. Value Bands and the Product Types that they apply to are soft configured. The initial configuration will be that specified in "Codified Agreement Schedule N05 - Service Management" [N05], section 6.1.2. i.e. For each of the Product Types "Cash Withdrawal", "Cash Withdrawal with Balance" and "Cash Deposit" there shall be three value bands. The three value bands will be: (i) zero value transactions; (ii) transactions of greater than zero that are less than or equal to £250; and (iii) greater than £250.

Rules:

1. *Posting Date* between *Accounting Week.Start Date* and *Accounting Week.End Date*.

Additional sub-reports have been added to this report to report on:-

Chargeable DCS Transactions - Showing only those DCS transactions defined to be chargeable on the basis of their outcome code as specified in CR 0339.

Network Banking Transactions - Showing only NBS transactions

These are filtered versions of the main report.

Measures:

- *Transaction Volume*
- *Transaction Value*

Dimensions:

- *Bank*
- *Issuer Scheme*
- *Posting Date*
- *Settlement Date*
- *Product Type Value Band*
- *Transaction Result*
- *Method of Entry*

Other Details Available:

- *Bank ID*
- *Issuer Scheme ID*
- *Product Type ID*

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- *Product Type*
- *Value Band*
- *Value Band ID*
- *Transaction Result Code*
- *Issuer Scheme*
- *Issuer Scheme ID*
- *Product*
- *Product Code*
- *Outcome*
- *Outcome Code*

Hierarchies:

- Settlement Date (up only)
- Bank
- Product
- Outcome

#### **4.4.3 Outlet Opening Report**

A report normally run monthly showing for each trading date in a selectable time period the count of outlets expected to be open, the count of outlets trading, the count of outlets expected to be open but not trading and the count of outlets expected to be closed but trading.

Measures

- Count of Outlets Expected to be Open
- Count of Outlets Trading
- Count of Outlets Expected to be open but NOT Trading
- Count of Outlets Expected to be closed but Trading

Dimensions

- Trading Date
- Day of Week or Bank Holiday

Rules

1. *Trading Date between Start Trading Date and End Trading Date*

#### **4.4.4 P.O.Opening Exceptions Report**

A report run for a selectable period, normally a month, showing for given days the outlets which were expected to be open but did not trade.

The sort sequence will be by trading date and then by FAD Code

## Data

- Trading date
- FAD Code
- Outlet Name

## Rule

1. *Trading Date between Start Trading Date and End Trading Date*

**4.4.5 Transaction Response Time Report**

A report to be run monthly showing details for the peak hour only per FI per week within the month as follows:-

1. The 90<sup>th</sup> percentile and mean transaction response time for the Financial Institution (FI) portion of the total transaction time. Additional or alternate percentages may be required on this report.
2. Per branch connection type, the 90<sup>th</sup> percentile and mean transaction response time for the Horizon portion of the total transaction time. Additional or alternate percentages may be required on this report.
3. Per branch connection type, the 90<sup>th</sup> percentile and mean transaction response time for the total transaction time. Additional or alternate percentages may be required on this report.
4. Per branch connection type, the total transaction volumes within the hour specified.

**Notes:**

1. The 'peak hour' will be a specified time period, and we will not need to run a query to find the hour with the highest number of transactions.
2. There may be more than one hour specified for each FI for each week, and the hour specified may be different for the three different FI's (Link, Alliance and Leicester, and CAPO).
3. These time periods will be set and changed by a DCR. This would need to be done on a month boundary in order that the monthly report should contain consistent data.
4. The 'hour' will be a specified elapsed hour, and these time periods may be longer or shorter than an hour.
5. Only Network Banking transactions which are successful will be included. Successful is determined as specified in the outcome table as defined in NB/SDS/009 which represents full successful message transfer.
6. No additional data (e.g. value) will be required in this report, only times and volumes as specified.
7. The time taken as the time for the transaction will be the start time of the transaction.

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8. The week reported on will be the standard reporting week of Sunday to Saturday. The actual report
9. Maximum transaction volumes in a peak hour for all three FI's is 700,000.
10. POL might want to choose additional percentiles – e.g. 99%
11. The mean is defined as the 50<sup>th</sup> percentile – i.e. the time for the transaction which represents the top of the first half of the transactions ordered by the relevant transaction response time.
12. In order to allow for bank holidays it is likely that there will be a requirement to report peak hours for both Monday and Tuesday.

**4.4.6 Banking and DCS Transactions Performed in Fallback**

A new report “Banking and DCS Transactions Performed in Fallback” will be produced.

1. The report will show details selected by trading date for a week and runnable for any selectable week.
2. The report will show, for each of NBS and DCS, the FAD Code and Post Office Name, the number of transactions performed in fallback (entry\_method = 3) and the percentage of the total number of similar types of transactions (NBS or DCS) at that branch or for that issuer scheme as appropriate for the selected week.
3. An additional sheet on each of NBS and DCS reports will show, Issuer Scheme and description, the number of transactions performed in fallback (entry\_method = 3) and the percentage of the total number of similar types of transactions (NBS or DCS) at that branch for the selected week.
4. A total of transactions and the percentage that represents of the total transactions of that type will appear at the bottom.
5. There will be four tabs or separate sheets on the report, two for Network Banking transactions and two for DCS transactions. These will show the same transaction data by FAD code on one and by Issuer Scheme on the other.
6. Approximate sample layouts of this report are attached hereunder.
7. The file name for this report will be:  
Banking\_and\_DCS\_Transactions\_Performed\_in\_Fallback\_dd/mm/yy\_Vx.rep  
where dd/mm/yy represents the date and x the version number.
8. This report will normally be delivered on Thursdays.

**4.4.7 Card Account Transactions by Method of Entry**

A new report “Card Account Transactions by Method of Entry” will be produced.

1. The report will show details selected by trading date for a month and be runnable for a selectable month.
2. The report will have details of Card Account (CAPO) transactions as follows.
3. The report will contain two sections

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4. Section 1 will show the total number of outlets which undertook at least one CAPO transaction using chip entry – i.e. Method of Entry 4 - ICC PIN Pad Read. - for each week in the period.
5. Section 2 will show for all outlets which performed CAPO transactions but did not do any by chip entry, for each FAD the Post Office Name, the total number of transactions and the number of transactions for each method of entry. By definition the number performed by method of entry ICC PIN Pad Read (chip) will always be 0, but I am leaving this in as it was requested, and it might prove useful in the future.
6. This will be sorted in FAD code order.
7. The report name for this report will be:  
Card\_Account\_Transactions\_by\_Method\_of\_Entry\_dd/mm/yy\_Vx.rep  
where dd/mm/yy represents the date and x the version number.
8. This report will normally be delivered on the fifth working day after the end of the month.

## ***4.5 Report Layouts***



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## 4.5.1 Transaction Outcome Analysis by Outlet

## Outcome Analysis

Last Refreshed: 25-Aug-01 11:19:26

FAD Code : FAD 38

Outlet 1

Accounting Week: 3 / 6 /  
2001Accounting Week End  
Date: 22-Aug-01

Product Desc	Outcome	Method of Entry	Transaction Volume	Transaction Value
Barclays Deposit Cash	Completed OK	Manual Entry	16	£685.00
Barclays Deposit Cash	Completed OK	Non ICC Magnetic Stripe Read		
Barclays Deposit Cash	Completed OK	ICC Swipe Fallback		
Barclays Deposit Cash	Completed OK	ICC PIN Pad Read		
Barclays Deposit Cash	Decl - Usage Violation - amt	ICC PIN Pad Read	2	£0.00
Barclays Deposit Cash	Failed by Agent Inside ICL-P	ICC PIN Pad Read	4	£0.00
Barclays Withdraw Cash	Completed OK	ICC PIN Pad Read	4	£180.00
Barclays Withdraw Cash	Failed By NBE	ICC PIN Pad Read	5	£0.00
NatWest Bank Balance Enquiry	Completed OK	ICC PIN Pad Read	4	£0.00
NatWest Bank Balance Enquiry	Decline - Impound Card	ICC PIN Pad Read	6	£0.00
NatWest Bank Balance Enquiry	Decl - Trans not supported	ICC PIN Pad Read	5	£0.00
NatWest Bank Balance Enquiry	Decl - Usage Violation - amt	ICC PIN Pad Read	9	£0.00
NatWest Bank Balance Enquiry	Failed by Agent Inside ICL-P	ICC PIN Pad Read	5	£0.00
NatWest Bank Deposit Cash	Abandoned - APACS checks	ICC PIN Pad Read	9	£0.00
NatWest Bank Deposit Cash	Decline - Impound Card	ICC PIN Pad Read	8	£0.00
NatWest Bank Deposit Cash	Failed by Agent Inside ICL-P	ICC PIN Pad Read	5	£0.00
NatWest Bank Deposit Cash	Failed by Agent Outside ICL-P	ICC PIN Pad Read	6	£0.00
NatWest Bank Withdraw Cash	Abandoned - Clerk	ICC PIN Pad Read	10	£0.00
NatWest Bank Withdraw Cash	Completed OK	ICC PIN Pad Read	9	£450.00
Unv. Bank Balance Enquiry	Abandoned - Signature failed	ICC PIN Pad Read	6	£0.00
Unv. Bank Balance Enquiry	Decline - Insufficient Funds	ICC PIN Pad Read	3	£0.00
Unv Bank Take All	Decline - Insufficient Funds	ICC PIN Pad Read	9	£0.00
Unv Bank Take All	Decl - Trans not supported	ICC PIN Pad Read	7	£0.00
Unv Bank Take All With Balance	Decl - Usage Violation - freq	ICC PIN Pad Read	2	£0.00
Unv Bank Take All With Balance	Failed by Agent Inside ICL-P	ICC PIN Pad Read	9	£0.00



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## Network Banking MIS Report Design

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Date: 13/12/2004

## 4.5.2 Bank Analysis

<b>Bank Analysis</b>					Last Refreshed: 23-Aug-02 09:43:01	
Accounting Week: 3 / 6 / 2002					Last date posted: 22-Aug-02	
Bank: Barclays Bank Limited					From: 15-Aug-02	
Scheme: Scheme A					To: 21-Aug-02	
Posting Date	Settlement Date	Product Type	Transaction Result	Transaction Volume	Transaction Value	
15-Aug-02	13-Aug-02	Withdraw Cash <= £250	Transaction Completed OK	824	£99,591.00	
15-Aug-02	14-Aug-02	Withdraw Cash <= £250	Transaction Completed OK	2,753	£537,747.00	
15-Aug-02	15-Aug-02	Withdraw Cash <= £250	Transaction Completed OK	183,069	£13,058,799.00	
16-Aug-02	06-Aug-02	Withdraw Cash <= £250	Transaction Completed OK	1	£267.00	
16-Aug-02	14-Aug-02	Withdraw Cash <= £250	Transaction Completed OK	285	£52,775.00	
16-Aug-02	15-Aug-02	Withdraw Cash <= £250	Transaction Completed OK	3,904	£951,719.00	
16-Aug-02	16-Aug-02	Withdraw Cash <= £250	Transaction Completed OK	232,927	£38,630,053.00	
16-Aug-02	17-Aug-02	Withdraw Cash <= £250	Transaction Completed OK	2	£431.00	
21-Aug-02	21-Aug-02	Withdraw Cash <= £250	Transaction Completed OK	171,108	£11,843,895.00	
Sum:				1,784,622	£195,525,831.00	

<b>Bank Analysis</b>					Last Refreshed: 23-Aug-02 09:43:01	
Accounting Week: 3 / 6 / 2002					Last date posted: 22-Aug-02	
Bank: Barclays Bank Limited					From: 15-Aug-02	
Scheme: Scheme B					To: 21-Aug-02	
Posting Date	Settlement Date	Product Type	Transaction Result	Transaction Volume	Transaction Value	
15-Aug-02	15-Aug-02	Balance Enquiry	Transaction Completed OK	53,468	£0.00	
15-Aug-02	15-Aug-02	Cash Withdrawal - zero value	Decline Confirmed	4,362	£0.00	
15-Aug-02	15-Aug-02	Cash Withdrawal <= £250	Transaction Completed OK	102,223	£15,035,413.00	
15-Aug-02	15-Aug-02	Cash Withdrawal > £250	Transaction Completed OK	616	£433,557.00	
15-Aug-02	15-Aug-02	Cash Withdrawal with Balance - zero value	Transaction Failed	23	£0.00	
15-Aug-02	15-Aug-02	Cash Withdrawal with Balance <= £250	Transaction Completed OK	54,433	£563,401.00	
15-Aug-02	15-Aug-02	Cash Withdrawal with Balance > £250	Transaction Completed OK	2,206	£802,728.00	
21-Aug-02	21-Aug-02	Cash Withdrawal with Balance > £250	Transaction Completed OK	95	£65,412.00	
21-Aug-02	21-Aug-02	Change PIN	Transaction Completed OK	883	£0.00	
21-Aug-02	21-Aug-02	Withdrawal Limit	Transaction Completed OK	8,439	£155,232.94	
Sum:				680,244	£51,167,231.82	

<b>Bank Analysis</b>					Last Refreshed: 23-Aug-02 09:43:01	
Accounting Week: 3 / 6 / 2002					Last date posted: 22-Aug-02	
Bank: Barclays Bank Limited					From: 15-Aug-02	
Scheme: Scheme C					To: 21-Aug-02	
Posting Date	Settlement Date	Product Type	Transaction Result	Transaction Volume	Transaction Value	
16-Aug-02	16-Aug-02	Balance Enquiry	Transaction Completed OK	37,781	£0.00	
16-Aug-02	16-Aug-02	Balance Enquiry	Transaction Abandoned by Clerk	582	£0.00	
21-Aug-02	21-Aug-02	Withdrawal Limit	Signature Fail	26	£0.00	
21-Aug-02	21-Aug-02	Withdrawal Limit	Fee Declined	3	£0.00	
21-Aug-02	21-Aug-02	Withdrawal Limit	Card Check Failed	1	£0.00	
21-Aug-02	21-Aug-02	Withdrawal Limit	Decline Confirmed	182	£0.00	
21-Aug-02	21-Aug-02	Withdrawal Limit	Transaction Failed	116	£0.00	
Sum:				116,073	£0.00	



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## Bank Analysis Chargeable DCS Transactions Only

BusinessObjects - Bank\_Analysis\_with Data.rep - [roger]

File Edit View Insert Format Tools Data Analysis Window Help

Bank Analysis - Chargeable DCS Transactions Only

Accounting Week: 4/6/2001

Bank: Barclays Bank Plc.

Scheme: Barclays Connect

Last Refreshed: 17-Jul-2003 14:54:22

Last date posted: 18-Aug-2001

From: 18-Aug-2001

To: 22-Aug-2001

Posting Date	Receipt Date	Product Type	Transaction Result	Transaction Volume	Transaction Value
18-Aug-2001	18-Aug-2001	DCS Payment	Card Check Failed	1	£0.00
18-Aug-2001	18-Aug-2001	DCS Payment	Card Check Failed	1	£0.00
18-Aug-2001	18-Aug-2001	DCS Payment	Card Check Failed	1	£0.00
18-Aug-2001	18-Aug-2001	DCS Payment	Decline Confirmed	1	£0.00
18-Aug-2001	18-Aug-2001	DCS Payment	Transaction Completed OK	22	£785.56
18-Aug-2001	18-Aug-2001	DCS Payment	Transaction Failed	1	£0.00
18-Aug-2001	18-Aug-2001	DCS Payment	Transaction Failed	1	£0.00
18-Aug-2001	18-Aug-2001	DCS Refund	Card Check Failed	1	£0.00
18-Aug-2001	18-Aug-2001	DCS Refund	Transaction Completed OK	7	£371.76
Sum:				36	£1,157.32

Note: OUTCOME\_CODE filter can be changed by the Filters option on the Format menu.

Page: 2 of 5

Bank Analysis Chargeable DCS only NBS only

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Date: 13/12/2004

## Bank Analysis Report – NBS Transactions Only

BusinessObjects - Bank_Analysis_with Data.rep - [roger]					
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Bank Analysis - NBS Transactions Only					
Accounting Week: 4/6/2001			Last Refreshed: 17-Jul-2003 14:54:22		
Bank: AN Other			Last date posted: 18-Aug-2001		
Scheme: AN Other Bank			From: 18-Aug-2001		
			To: 22-Aug-2001		
Posting Date	Settlement Date	Product Type	Transaction Result	Transaction Volume	Transaction Value
18-Aug-2001	11-Aug-2001	Cash Deposit > £250	Transaction Completed OK	1	£15,000.00
18-Aug-2001	11-Aug-2001	Withdrawal Limit	Transaction Failed	1	£0.00
18-Aug-2001	11-Aug-2001	Balance Enquiry	Transaction Completed OK	1	£0.00
18-Aug-2001	18-Aug-2001	Cash Deposit Zero Value	Transaction Completed OK	1	£0.00
18-Aug-2001	18-Aug-2001	Cash Deposit Zero Value	Transaction Failed	4	£0.00
18-Aug-2001	18-Aug-2001	Cash Deposit <= £250	Transaction Completed OK	3	£300.00
18-Aug-2001	18-Aug-2001	Withdrawal Limit	Transaction Completed OK	3	£156.75
18-Aug-2001	18-Aug-2001	Withdrawal Limit	Transaction Failed	1	£0.00
18-Aug-2001	18-Aug-2001	Cash Withdrawal Zero Value	Transaction Completed OK	1	£0.00
18-Aug-2001	18-Aug-2001	Cash Withdrawal Zero Value	Transaction Failed	3	£0.00
18-Aug-2001	18-Aug-2001	Balance Enquiry	Transaction Completed OK	3	£0.00
18-Aug-2001	18-Aug-2001	Balance Enquiry	Transaction Failed	3	£0.00
18-Aug-2001	18-Aug-2001	Cash Withdrawal <= £250	Transaction Completed OK	3	£300.00
Sum:				28	£15,756.75
Page: 1 of 5					
Bank Analysis Chargeable DCS only NBS only					
Page 1 1/5 Last Exec: 17/7/03 14:54 NUM					



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**4.5.3 Outlet Opening Report****OUTLET OPENING REPORT**

Report Date	Report Filename
11/07/2003	PO Openings

Trading Date	Day or Bank Holiday	Count of Outlets expected to be open	Count of Outlets trading	Count of Outlets expected to be open but NOTtrading	Count of Outlets expected to be closed but trading
8/7/03	Tuesday	18132	16523	1698	89
9/7/03	Wednesday	17375	16298	1444	367
10/7/03	Thursday	18390	0	18390	0

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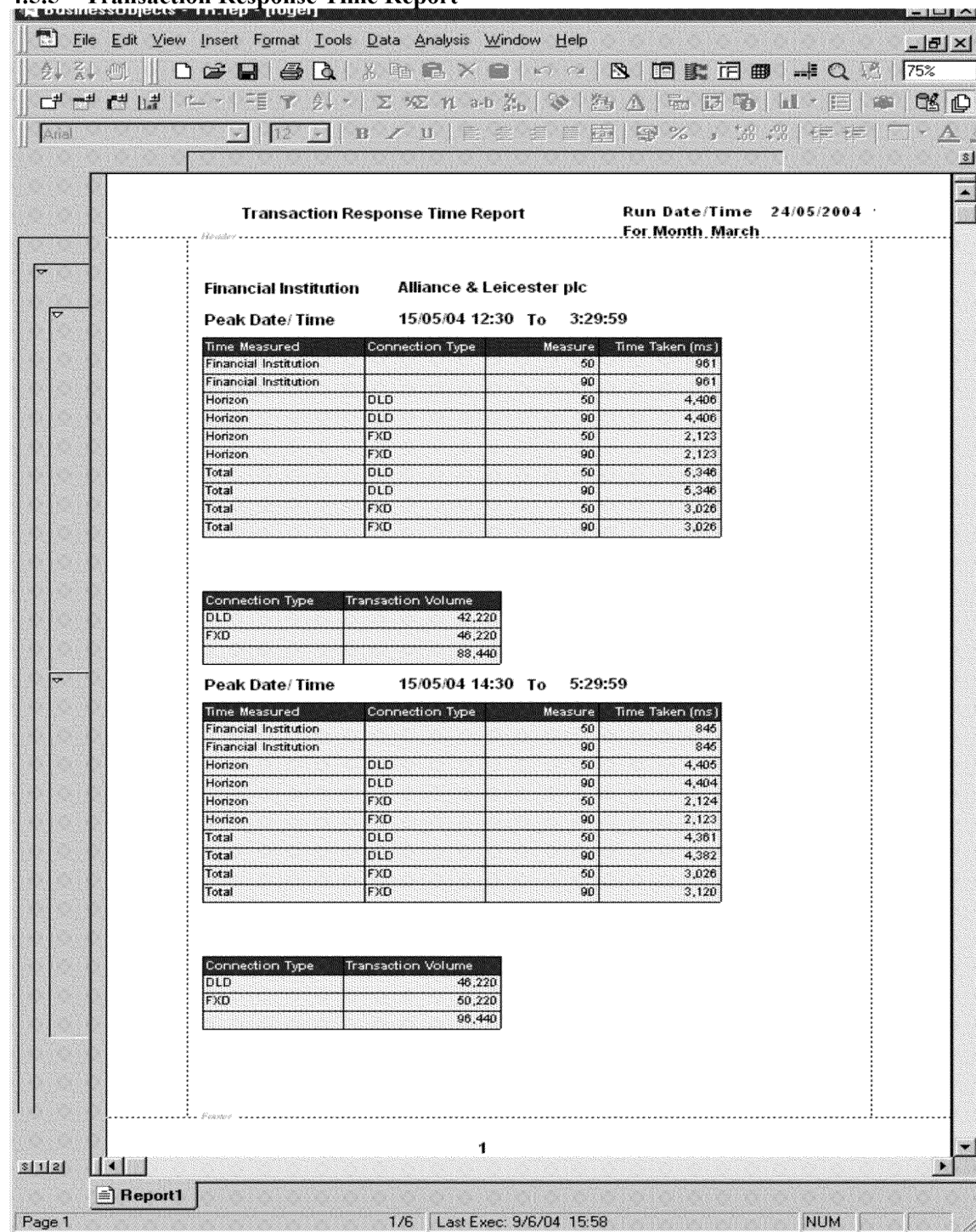
Version: 3.0  
Date: 13/12/2004

## 4.5.4 P.O. Opening Exceptions Report

PO OPENING EXCEPTIONS REPORT			Report Date	Report Filename
Outlets expected to be open but which did not trade			03/05/2003	PO Exceptions
Trading Date	Fad Code	Outlet Name		
30/4/03	002001X	Balham		
30/4/03	0020044	Crouch End		
30/4/03	0020060	Acton		
30/4/03	0020079	Abbey Wood		
30/4/03	0020095	Albemarle Street		
30/4/03	0020109	Marchmont Street		
30/4/03	0020117	Eccleston Street		
30/4/03	0020125	Beckenham		
30/4/03	0020141	Dartford		
30/4/03	0021121	Thetford		
30/4/03	002113X	Haverhill		
30/4/03	002130X	Felixstowe		
30/4/03	0022012	Acocks Green		
30/4/03	0022063	Crewe Town		
30/4/03	0022071	Alfreton		
30/4/03	0022268	Daventry		



## 4.5.5 Transaction Response Time Report



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Version: 3.0

Date: 13/12/2004

businessobjects - rpt.rep - [roger]

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Transaction Response Time Report

Run Date/Time 24/05/2004

For Month March

Header

Peak Date/ Time 16/05/04 12:30 To 3:29:59

Time Measured	Connection Type	Measure	Time Taken (ms)
Financial Institution		50	981
Financial Institution		90	891
Horizon	DLD	50	4,406
Horizon	DLD	90	2,123
Horizon	FXD	50	4,406
Horizon	FXD	90	2,123
Total	DLD	50	4,360
Total	DLD	90	4,410
Total	FXD	50	3,026
Total	FXD	90	3,035

Connection Type	Transaction Volume
DLD	46,220
FXD	50,220
	96,440

Footer

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Report1

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## Network Banking MIS Report Design

Ref: NB/SDS/008

COMMERCIAL IN CONFIDENCE

Version: 3.0

Date: 13/12/2004

BusinessObjects - T1Rep - [Roger]

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**Transaction Response Time Report** Run Date/Time 24/05/2004  
For Month March

Financial Institution CAPO

Peak Date/ Time 15/05/04 12:30 To 3:29:59

Time Measured	Connection Type	Measure	Time Taken (ms)
Financial Institution		50	891
Financial Institution		90	961
Horizon	DLD	50	4,406
Horizon	DLD	90	4,406
Horizon	FXD	50	2,123
Horizon	FXD	90	2,123
Total	DLD	50	3,024
Total	DLD	90	3,036
Total	FXD	50	4,370
Total	FXD	90	4,380

Connection Type	Transaction Volume
DLD	42,220
FXD	46,220
	96,440

Peak Date/ Time 16/05/04 12:30 To 3:29:59

Time Measured	Connection Type	Measure	Time Taken (ms)
Financial Institution		50	891
Financial Institution		90	861
Horizon	DLD	50	4,406
Horizon	DLD	90	4,406
Horizon	FXD	50	2,123
Horizon	FXD	90	2,120
Total	DLD	50	991
Total	DLD	90	991
Total	FXD	50	991
Total	FXD	90	991

Connection Type	Transaction Volume
DLD	42,220
FXD	46,220
	96,440

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Report1

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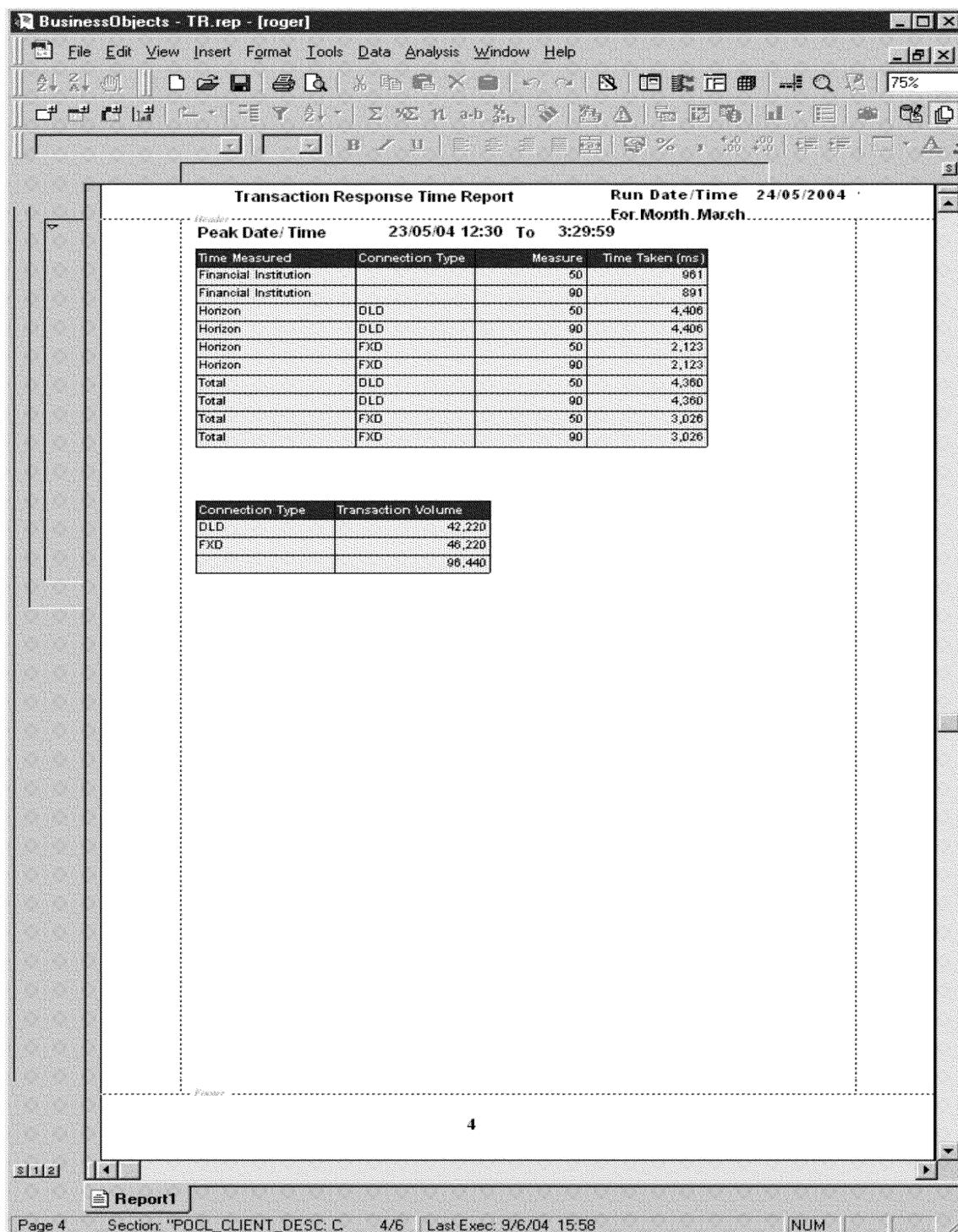
## Network Banking MIS Report Design

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Version: 3.0

Date: 13/12/2004



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## Network Banking MIS Report Design

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BusinessObjects - TR.rep - [roger]

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Transaction Response Time Report Run Date/Time 24/05/2004  
For Month March

Financial Institution Link

Peak Date/ Time 15/05/04 12:30 To 3:29:59

Time Measured	Connection Type	Measure	Time Taken (ms)
Financial Institution		50	861
Financial Institution		90	961
Horizon	DLD	50	2,101
Horizon	DLD	90	2,101
Horizon	FXD	50	3,030
Horizon	FXD	90	3,030
Total	DLD	50	4,400
Total	DLD	90	4,400
Total	FXD	50	4,400
Total	FXD	90	4,400

Connection Type	Transaction Volume
DLD	46,220
FXD	42,220
	98,440

Peak Date/ Time 16/05/04 12:30 To 3:29:59

Time Measured	Connection Type	Measure	Time Taken (ms)
Financial Institution		50	1,344
Financial Institution		90	540
Horizon	DLD	50	4,567
Horizon	DLD	90	1,842
Horizon	FXD	50	4,568
Horizon	FXD	90	1,843
Total	DLD	50	4,567
Total	DLD	90	4,567
Total	FXD	50	4,567
Total	FXD	90	4,567

Connection Type	Transaction Volume
DLD	44,220
FXD	44,220
	98,440

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Report1

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businessObjects - MRep - [roger]

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Anal

Transaction Response Time Report

Run Date/Time 24/05/2004

For Month March

Peak Date/ Time 17/05/04 12:30 To 3:29:59

Time Measured	Connection Type	Measure	Time Taken (ms)
Financial Institution		50	892
Financial Institution		90	962
Horizon	DLD	50	3,250
Horizon	DLD	90	3,200
Horizon	FXD	50	2,124
Horizon	FXD	90	2,130
Total	DLD	90	8,814
Total	FXD	50	4,407
Total	FXD	90	4,407

Connection Type	Transaction Volume
DLD	42,220
FXD	44,220
	96,440

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Report1

Page 6 Section: "POCL\_CLIENT\_DESC: Li 6/6 Last Exec: 9/6/04 15:58 NUM

## 4.5.6 Banking Transactions Performed in Fallback

Header		
<b>Banking Transactions Performed in Fallback</b>		Last Refreshed: 13-Jan-2004 13:24:23
<b>Accounting Week: 10-Jan-04</b>		From: 04-Jan-04
		To: 10-Jan-04
Issuer Scheme	Transactions in Fallback	% of Total
Abbey National BCA	19,940	13
Alliance & Leicester	18,170	13
Alliance & Leicester Electron	8,870	13
Bank of Ireland	6,725	3
Barclays Cash Card	6,655	2
Lloyds TSB	4,850	5
LTSB Basic Bank Account	4,690	6
	<b>69,900</b>	<b>8</b>
Footer		
		Page 1 of 1

Header

**Debit Card Transactions Performed in Fallback**

Last Refreshed: 13/01/2003 13:24:23

**Accounting Week: 10-Jan-04**

From: 04/01

To: 10/01

Fad Code	Outlet	Transactions in Fallback	% of Total
3001369	Brockdish	5,255	6
3002055	Sheepy Magna	3,970	5
3002071	Stretton	4,900	8
3002179	Wellinger Way	7,065	5
3002276	Portland Road	6,565	4
3002306	Somersham	6,310	4
3002381	Beverley Drive	6,725	3
3002462	Londonderry	7,505	4
300306X	Halifax Road	6,655	2
3003205	Lee Mount	5,410	3
3003213	Bodmin Road	4,850	5
300323X	Rawdon	4,690	6
Sum:		69,900	5

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**Network Banking MIS Report Design**

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**COMMERCIAL IN CONFIDENCE**

Version: 3.0

Date: 13/12/2004

Last Updated: 13/12/2004 17:49:00

*Header*

**Debit Card Transactions Performed in Fallback**

Last Refreshed: 13/01/2003 13:24:23



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## Network Banking MIS Report Design

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## COMMERCIAL IN CONFIDENCE

Version: 3.0  
Date: 13/12/2004

## 4.5.7 Card Account Transactions by Method of Entry

## Card Account Transactions by Method of Entry

Last Refreshed: 10-Feb-04 12:36

From: 01-Jan-04

Accounting Period End Date: 28-Jan-04

To: 31-Jan-04

Accounting Week Ending 08-Jan-04

Total Outlets Performing Chip Transactions	23,456
--	--------

## Outlets with Card Account Transactions but No ICC transactions

FAD Code	Post Office Name	Total Transactions	No. ICC PIN Pad Read	No. ICC Fallback	No. Mag Stripe mread	No. Manual Entry
3001369	Brockdish	2,300	0	1,150	767	383
3002055	Sheepy Magna	1,200	0	600	400	200
3002071	Stretton	900	0	450	300	150
3002179	Wellinger Way	1,105	0	553	368	184
3002276	Portland Road	1,205	0	603	402	200
3002306	Somersham	50	0	25	17	8
3002381	Beverley Drive	30	0	15	10	5
3002462	Londonderry	700	0	350	233	117
300306X	Halifax Road	1,100	0	550	367	183
3003205	Lee Mount	970	0	485	323	162
3003213	Bodmin Road	890	0	445	297	148
300323X	Rawdon	1,200	0	600	400	200
3003248	East Stockwith	2,300	0	1,150	767	383
3003272	Catcote Road	1,200	0	600	400	200
3003299	Newsham	900	0	450	300	150
300340X	Stocksbridge	1,105	0	553	368	184

Accounting Week Ending 15-Jan-04

Total Outlets Performing Chip Transactions	23,456
--	--------

## Outlets with Card Account Transactions but No ICC transactions

FAD Code	Post Office Name	Total Transactions	No. ICC PIN Pad Read	No. ICC Fallback	No. Mag Stripe mread	No. Manual Entry
3001369	Brockdish	2,300	0	1,150	767	383
3002055	Sheepy Magna	1,200	0	600	400	200
3002071	Stretton	900	0	450	300	150
3002179	Wellinger Way	1,105	0	553	368	184
3002276	Portland Road	1,205	0	603	402	200
3002306	Somersham	50	0	25	17	8
3002381	Beverley Drive	30	0	15	10	5
3002462	Londonderry	700	0	350	233	117
300306X	Halifax Road	1,100	0	550	367	183