# Application Design
# COIN and Bank Interface

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| **Author** | Brendan Treacy |

## Table of contents

# 1 Introduction

## 1.1 Application Design Purpose

The purpose of this document is to provide an overall technical solution for the replication of the following two interfaces from the existing Lynx Mortgage system in Coates :-

1. Lynx/COIN interface - Transfer of files, which contain Mortgage Account Details, Interest rate details, product details and fees charged.
2. Bank Interface – Transfer of a file from Summit to STB via Coin containing impending loan details.

It will define its purpose scope and context as well as its components, its interfaces, the IT environment in which it runs and any other technical details that are pertinent to the application.

## 1.2 Sign-Off and Review

The Review will consist of a number of stages

1. It will be initially reviewed internally by the project team members and project consultant.

2. The Application Design will be issued to all people listed on the circulation list for review/signoff.

3. Key stakeholders will signoff the Application Design.

# 2 Application Purpose

## 2.1 Lynx/COIN Interface

The current Lynx/Coin interface consists of a daily feed of fourteen sequential files from the existing Lynx Mortgage System to Coates Online Integrated Network (COIN) system. The feed includes Mortgage a/c details, Interest rate details, Product details and Fees charged. COIN stores and provides Coates customer information to all branches in an easily readable format.

The following downstream systems receive mortgage data from the COIN system :-

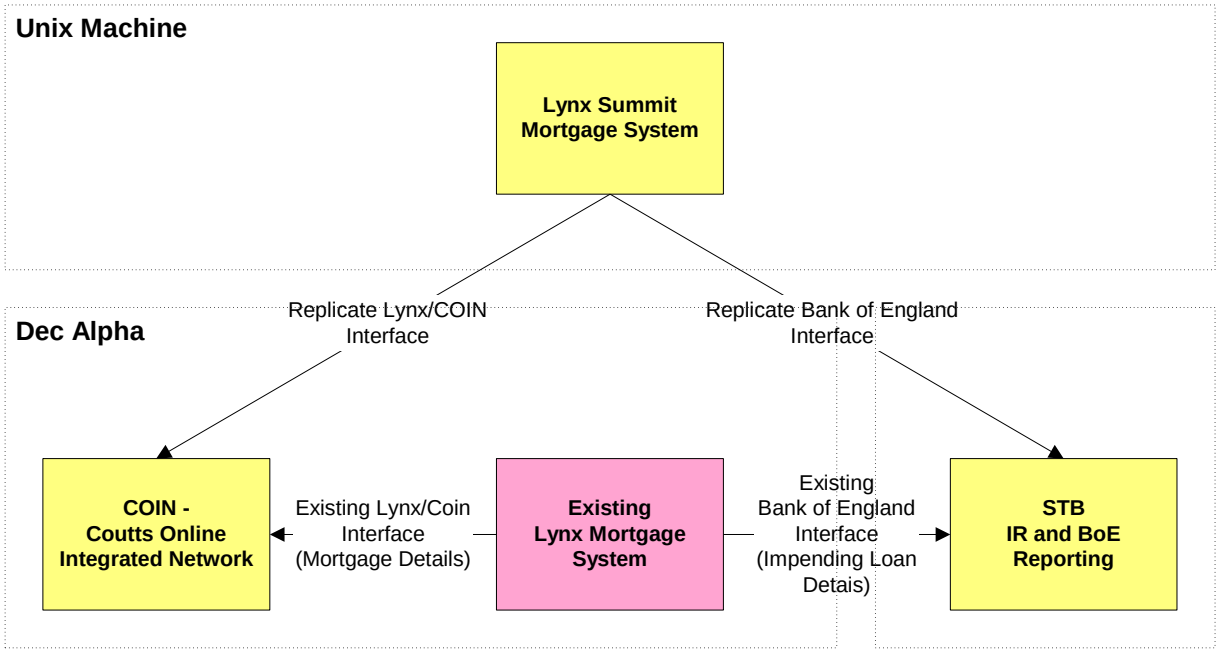
GCMS (CRM System)
UKMI (Statutory and Regulatory Reporting System)
GRACE (Liabilities System)
STB (Inland Revenue Reporting System)
Asset & Liability system

## 2.2 Bank Interface

Currently, there is a daily feed of a single file, CTS01, from the Lynx system to the Coates STB system via COIN. This file contains details of impending loan details i.e applications where a mortgage offer has been submitted to a client, but the funds have not yet been advanced.

The COIN system makes minor changes to the file and it is then transferred to the STB system where regulatory reports are produced for the Bank.

# 3 Application Context

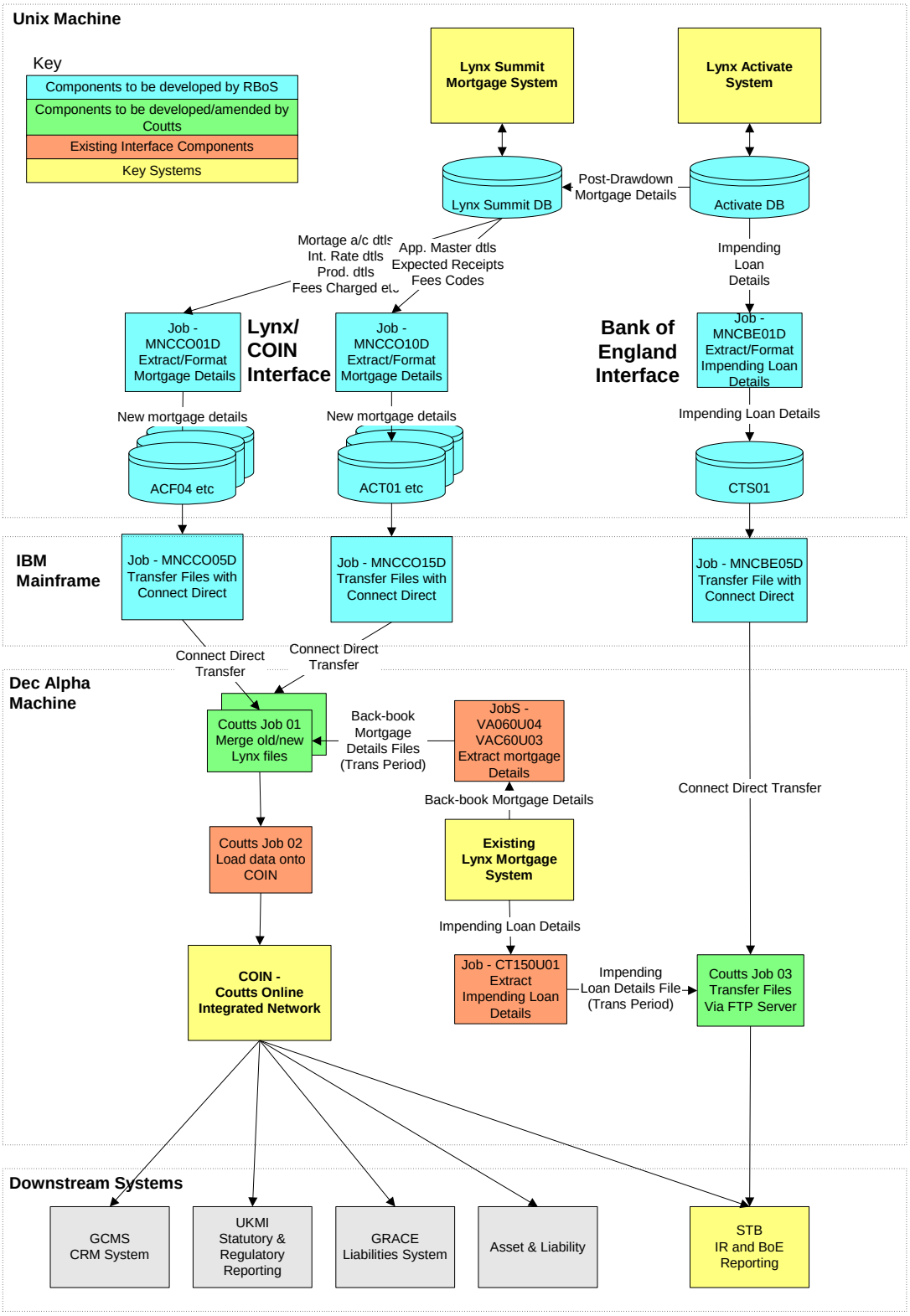


Currently on the Dec Alpha machine, the two existing interfaces from the existing Lynx Mortgage system i.e Lynx/COIN and Bank, transfer Mortgage Details and Impending Loan details to their respective systems. These two interfaces will be replicated between the new Lynx Mortgage System as shown above.

When the Lynx Summit Mortgage System goes into operation, there will be a transitional period when both the existing and replicate interfaces will be in operation. After the transitional period, the existing Lynx Mortgage system and interfaces will become redundant leaving the new Lynx Summit Mortgage system and its replicate interfaces in operation only.

# 4 Application Component Architecture

## 4.1 Components and Interfaces



### 4.1.1 Existing Lynx/COIN Interface

There are two jobs used in the existing Lynx system to create the feeds. The job names are as follows:

**VA060U04**
This job is used to create the following extract files:-

| File Name | Description |
|---|---|
| ACF04.SQ | Account Transactions making up a single payment |
| ACF94.SQ | Mortgage Master File |
| ACF95.SQ | Mortgage Accounts by Mortgage Inversion File |
| ACM01.SQ | Mortgage Accounts |
| ACM02.SQ | Product Master File |
| ACM03.SQ | Product Tier Structure |
| ACM06.SQ | Payment Link |
| ACM29.SQ | Repayment Calculation Profile |
| ACT13.SQ | Mortgage Account Transaction File |
| ACW32.SQ | Account details at Required Date |
| MAT15.SQ | Fees Charged Against Application File |

The mortgage selection criteria is ALL, i.e. all mortgages as at the current date are included. This selection of all mortgages includes the following :-

- Pending Mortgages
- Normal Mortgages
- Redeemed Mortgages
- Arrears Mortgages

**VAC60U03**
This job is used to create the following extract files:-

| File Name | Description |
|---|---|
| ACT01.SQ | Application Master File |
| ACT10.SQ | Expected Receipts – Detail |
| MAM26.SQ | Fee Codes File |

This job runs directly after the job VA060U04 has completed. This job selects ALL mortgages as described above.

The jobs VA060U04 and VAC60U03 are run in this order to enable the COIN processing to begin at an earlier time in the overnight schedule, as the files created in the job VAC60U03 are used at a later time in the COIN overnight batch run. E.g. upon completion of the job VA060U04 the 11 files detailed above are copied to the COIN system, whilst the job VAC60U03 is running on the Lynx system. This means that any COIN jobs that do not utilise files ACT01, ACT10, or MAM26 can begin.

### 4.1.2 Replicate Lynx/COIN Interface

The design of the extract components within this interface will be based on the existing Lynx/COIN interface processes detailed in section 4.1.1 above.

The function of the two existing extract jobs VAO6OU04 and VAC60U03, which extract mortgage details from the existing Lynx mortgage system, will be replicated by the new jobs MNCCO01D and MNCCO10D. These replicate jobs will extract mortgage details from the Lynx SUMMIT and Activate databases, apply the data mapping rules to the data extracted and populate the appropriate field in the interface file layouts.

The selection criteria for the extract jobs will be as for the existing jobs in 4.1.1 above and will be embedded with the job itself.

Header and Trailer records will be added to each interface file so that the no of records in each file can be checked against the trailer count to ensure that the file is complete. See Appendix 1 for details of header/trailer record layouts for each file.

The interface files will be transferred from the Unix machine to the Dec Alpha platform via the IBM mainframe using Connect Direct. On the IBM Mainframe, the two jobs MNCCO05X and MNCC015X will pull the interface files from the Unix machine and the two jobs, MNCCO10X and MNCCO020X will push the files from the IBM Mainframe to the Dec Alpha machine. These jobs will be set-up by Batch Services.

### 4.1.3 Existing Bank interface

The following job is used to create the extract file, which is transferred to STB via FTP Server.

**CT150U01**
This function creates the sequential file CTS01, which is output to the mortgages data directory as 'comfac.dat'.

| File Name | Description |
|---|---|
| CTS01.SQ | Impending Loan Details |

The selection criteria for this job is defined by the user maintained static data screen CT150S01.

This screen contains the application stages that are to be included in the extract file. The stages currently included in this extract are as follows:-

| **Stage Number** | **Stage Description** |
|---|---|
| 03 | Preparing for Sign-Off |
| 04 | Preparing for Acceptance |
| 05 | Preparing for Solicitor |
| 06 | Preparing for Drawdown |

All applications that are at one of the above stages at the date the interface file is created will be included in the extract.

### 4.1.4 Replicate Bank Interface

The design of the extract components within this interface will be based on the existing Lynx/COIN interface processes detailed in section 4.1.3 above.

The function of the existing extract jobs CT150U01, which extracts impending loan details from the existing Lynx mortgage system, will be replicated by the new job MNCBE01D. This replicate job will extract impending loan details from the Lynx Activate database, apply the data mapping rules to the data extracted and populate the appropriate field in the CTS01 interface file layout.

The selection criteria for the extract job will be where the stage no on Activate is either '40' or '50'.

Instead of inputting the selection criteria via a user maintained static data screen, the selection criteria will be passed into the job as parameters. If the user area wishes to change the selection criteria, this may be done through a change request.

Header and Trailer records will be added to the interface file so that the no of records can be checked against the trailer count to ensure that the file is complete. See Appendix 1 for details of header/trailer record layouts for each file.

The interface file will be transferred from the Unix machine to the Dec Alpha platform via the IBM mainframe. On the IBM Mainframe, the job MNCBE05X will pull the interface files from the Unix machine and the job, MNCBE10X will push the files from the IBM Mainframe to the Dec Alpha machine. These jobs will be set-up by Batch Services.

### 4.2 Component Summary

The components which are documented below are only those to be developed by RboS Group Technology Mortgage Interfaces team which will be run on the Unix machine. Coates will be developing the new processes required on the Dec Alpha machine. See Application Component Architecture diagram above.

| Job | Program | Description | New/ Amend | Component Design Document |
|---|---|---|---|---|
| MNCCO01D..sh | | Unix Shell script to execute the extract program MNCOEXT1. Selection criteria can be specified as parameters. | New | WIP |
| | MNCOEXT1 | PL/SQL program to extract mortgage data from Summit database and write out to the 11 files as listed in 4.1.1 above. | New | WIP |
| MNCCO05X | | JCL program to transfer the 11 files output by program MNCOEXT1 to the IBM Mainframe | New | WIP |
| MNCCO10X | | JCL program to transfer the 11 files from the IBM Mainframe to the Dec Alpha. | New | WIP |
| MNCCO10D.sh | | Unix shell script to execute extract program MNCOEXT2. | New | WIP |
| | MNCOEXT2 | PL/SQL program to extract data for remaining 3 files. | New | WIP |
| MNCCO15X | | JCL program to pull the 3 files output by program MNCOEXT2 to the IBM Mainframe. | New | WIP |
| MNCCO20X | | JCL program to transfer the 3 files from the IBM Mainframe to the Dec Alpha. | New | WIP |
| MNCBE01D.sh | | Unix Shell script to execute the program MNBEEXT1. | New | WIP |
| | MNBEEXT1 | PL/SQL program to extract impending loan details and output to a single file – CTS01 | New | WIP |
| MNCBE05X | | JCL program to transfer the file CTS01 to the IBM Mainframe. | New | WIP |
| MNCBE10X | | JCL program to transfer the file CTS01 from the IBM mainframe to the Dec Alpha platform. | New | WIP |

# 5 Application Interface Design

The interface file layouts and data mapping rules, including values and meanings, to extract the data from the SUMMIT database are documented in :-

\\ridubbldfd01\ADFODB\General Teams\Mortgage Platform And Operations\Conduct\Team1\Coates\COIN Interface file layouts mapped to SUMMIT DB fields v0.1.xls

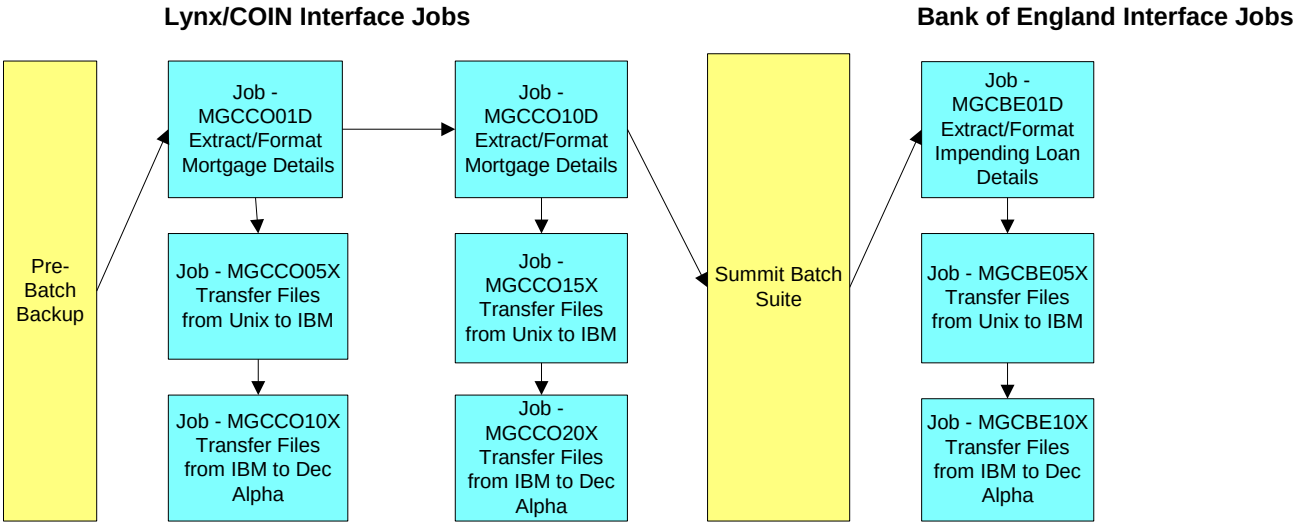
It is intended that no changes will be made to these layouts/mapping rules/values and meanings as otherwise this would have an impact on COIN, STB or other Coates downstream systems if the data was not exactly the same as it is currently receiving from the existing Lynx mortgage system.

In the event that any aspect of the interface files does not exactly match the existing system, further analysis will have to be carried out, and a decision on a solution or workaround will be required. Mismatches will be documented on a mismatch report for Coates which will be called \\ridubbldfd01\ADFODB\General Teams\Mortgage Platform And Operations\Conduct\Team1\Coates\COIN Interface Mismatches.doc/BoE Interface Mismatches.doc.

# 6 Batch Run Details

## 6.1 Jobs and Dependencies

The following diagram shows the sequence of the batch jobs and the dependencies between them indicated by the arrowhead lines.




**Note:** For Coates, it is necessary to run the Lynx/COIN interface jobs before Lynx SUMMIT batch suite begins.

| Job | DESCRIPTION | FREQ | Start Time | DEPENDENCY |
|---|---|---|---|---|
| **Pre-Batch Backup** | Backup taken after the online day ends at 20:00 and before the overnight batch begins. | Daily | 20:00 | Dependent on the Summit on-line systems being closed down. |
| **MNCCO01D** | Extract/Format mortgage details – Part 1 | Daily | 20:20 | Dependent on **Pre-batch backup** on Unix machine. |
| **MNCCO05X** | Transfer 11 files from Unix machine to IBM Mainframe. | Daily | --- | Dependent on files being present in /data/upload directory on Unix Machine within specific timeframe. |
| **MNCCO10X** | Transfer 11 files from IBM Mainframe to Dec Alpha | Daily | --- | Dependent on all files being received by job **MNCCO05X** |
| **MNCCO10D** | Extract/Format mortgage details – Part 2 | Daily | 21:40 | Dependent on job **MNCCO01D** |
| **MNCCO15X** | Transfer remaining 3 files from Unix machine to IBM Mainframe | Daily | --- | Dependent on files being present in /data/upload directory on Unix within specific timeframe |

| | | | | |
|---|---|---|---|---|
| **MNCCO20X** | Transfer remaining 3 files to from IBM Mainframe to Dec Alpha | Daily | --- | Dependent on files being received by job **MNCCO15X** |
| **Summit Batch** | Summit Batch | Daily | 22:00 | First job is dependent on job **MNCCO10D** |
| **MNCBE01D** | Extract/Format impending loan details. | Daily | 21:00 | Dependent on the last job of the Summit Batch schedule. |
| **MNCBE05X** | Transfer file from Unix machine to IBM Mainframe | Daily | --- | Dependent on file being present in /data/upload directory on Unix within specific timeframe |
| **MNCBE10X** | Tranfer file to Dec Alpha | Daily | --- | Dependent on file being received from job **MNCBE05X** |

### 6.2 Scheduling COIN Extract Jobs before Summit batch

For the existing Lynx Mortgage System, the COIN extract runs after the online day is complete and before the end of day batch begins. To find out if the replicate COIN extract can be run at the same point in the SUMMIT batch it is necessary to compare the status of the existing Lynx database with the Summit database using various criteria as shown in the table below.

| No | Criteria | Existing Lynx System status before batch | SUMMIT System Status before batch |
|---|---|---|---|
| 1. | Financial Txns posted and a/c balances updated | Before the COIN extract is run, a Lynx service routine is run which builds a workfile containing the up-to-date balances. This table is then extracted by the COIN extract job.<br><br>Arrears balances not updated until End-of-day batch is run by Bacs update process | Financial txns are posted online and are immediately reflected against balance.<br><br>Arrears balances as for Existing Lynx system |
| 2. | Static data updated ? i.e customer/account details, bank details etc | All updates are applied immediately during online day. | As for Existing Lynx system |
| 3. | System Date | The system date is flipped to next business day after end-of-day batch is completed. | As for Existing Lynx system |
| 4. | Forward Scheduled Transactions reflected in a/c balance | As for 1 above, forward scheduled transaction are included in the balance calculations by the Lynx service routine. | The last job of the previous days End of day batch looks for any pending transactions due on the next working day. If found, they will be applied to the relevant accounts and update balances accordingly. |
| 5. | Interest applied | Applied during end-of-day batch | As for Existing Lynx system |
| 6. | Rate Changes applied | Rate changes are input and applied before extract is run. | Applied during start of day processing if one has been scheduled to become effective on the new business date. |
| 7. | Running total fields updated e.g Gross Int. to Date | Updated during the End of Day batch. | As for Existing Lynx system |

The outcome of the above comparison is that the two databases will be in the same state with regard to the criteria selected. This means that the replicate COIN Extract can be run at the same point in the Summit batch schedule i.e before the Summit batch begins.

## Component Interactions

### 6.3 Replicate Lynx/COIN Interface

The SUMMIT/COIN extract/format programs MNCOEXT1 and MNCOEXT2 are responsible for extracting the mortgage details, which includes Mortgage Account Details, Interest rate details, product details and fees charged, from the SUMMIT database. The extracted details are formatted into the COIN interface file format by applying the data mapping rules and the resulting details are then output to the appropriate extract file.

The File Transfer jobs, MNCOC05X/10X/15X/20X are responsible for transferring the interface files from the Unix Machine to the Dec Alpha machine via the IBM Mainframe. For the transitional period, when both the old and new systems will be in operation, the files will be merged with the files from the existing extract jobs VA060U04 and VAC60U03.

### 6.4 Replicate Bank Interface

The Bank extract/format program MNBEEXT1 is responsible for extracting the impending loan details from the SUMMIT database. The extracted details are formatted into the Bank interface file format by applying the data mapping rules and the resulting details are then output to the extract file.

The File Transfer jobs, MNCBE05X/10X are responsible for transferring the interface file from the Unix Machine to the Dec Alpha machine via the IBM Mainframe. For the transitional period, the file will be merged with the file from the existing extract job CT15OU01.

# 7 IT Environment

### 7.1 Technical Platform

This Lynx/COIN interface will operate between the Unix machine, where the Lynx SUMMIT systems resides, and the Dec Alpha machine where the COIN systems resides. The Bank Interface will operate between the same platforms, but after the file is transferred to the Dec Alpha machine it is subsequently transferred to the NT platform where the STB system resides.

**Hardware:**

UNIX Sun Solaris machine running Lynx SUMMIT and ACTIVATE systems

Dec Alpha machine running COIN system

**Software:**

Connect Direct to transfer interface files from the Unix Platform to the Dec Alpha platform via the IBM mainframe, (UNIX to be configured with a Connect Direct CD NODE ID)

PL/SQL programs to extract the data and create the interface files.

Unix Shell scripts to execute the PL/SQL programs.

**Data:**

The source databases are Lynx SUMMIT database for the Lynx/COIN interface and Lynx ACTIVATE database for the Bank interface.

## 7.2 Capacity and Performance

See section 3.1.1.6 Capacity Requirements in the Coates Business Requirements/Functional Specification document.

## 7.3 Operations and System Management

### File Transfer Mechanism

The normal route for the transfer of the interface files will be from the Unix machine to the Dec Alpha machine via the IBM Mainframe. On the Unix machine the extract jobs will create the interface files in a directory called /data/upload. When the interface files have been produced, the extract job will create a trigger file in the same directory to indicate that the extract files are ready to be transferred. There will be a separate trigger file per extract job. On the IBM Mainframe at the scheduled time, the file transfer job will poll for the presence of each trigger file. When a trigger file is found, then the transfer job will transfer the interface files to the mainframe. If a trigger file is not present the file transfer job will retry a specified no. of times and will eventually report an error if no trigger file is found. When the files are transferred, CA7 will schedule the next transfer job, which will transfer the corresponding interface files to the Dec Alpha machine.

### Problem Management

If a file transfer job fails, the AutoPMR application creates an initial Incident Request (IR) on the Peregrine system which will be followed up by the operations support area. The system operator refers to a job procedure document that specifies the actions required and who to contact in the event of the failure of the job.

Event Monitor[1], which is used to alert the system operators of delays in batch jobs, will be set-up to ensure that the file transfers occur at pre-determined times. If the file transfers don't occur within the time specified, either due to a delay on the Unix machine in running the extract jobs or because of an error occurring within connect direct, the job is highlighted on the Event Monitor Screen in Green, Yellow or Red depending on how late it is as the following table shows :-

| Status | Description | System Operator Action | Coates Action |
|---|---|---|---|
| **Green** (Suggested time 22:00 for each batch) | Interface files will be transferred on-time. | None | None |
| **Yellow** (Suggested time 22:30 for each batch) | Interface files will be late | Depending to the reason for the delay contact the appropriate support area e.g if the file transfer job is late because the files are not in the /data/upload directory on the Unix machine then contact SUMMIT System Support.<br><br>Contact Coates Operations COIN Support to inform them that the files will be late due to reason determined above.<br><br>Re-submit transfer job | Delay running COIN Mortgage Refresh job until files arrive. |

[1] Event Monitor - Critical S390 batch progress and BACS response files are monitored, and displayed, on a single screen similar to the CICS monitor.

| | | | |
|---|---|---|---|
| | | manually when informed by SUMMIT System support that files are now in /data/upload directory on Unix machine. | |
| **Red**<br>(Suggested time : 23:30 for each batch) | Interface files will be critically late. | Contact appropriate support area depending on the reason e.g if the files will be critically late due to a problem with connect direct, then contact Network Support.<br><br>Contact Coates COIN Support to inform them that files may not be available until tomorrow morning. | Coates Ops to consider running COIN Batch without refreshing the mortgage details from the interface files. |

## 8 Other Technical Details

Not applicable.

# 9 Appendices

## 9.1 Appendix 1 – File Header/Trailer Layouts for each interface file

### 9.1.1 ACF04.SQ Account Transactions making up a single payment

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACF04" |
| Filler | X(18) | All spaces |

| Trailer Record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X(22) | All spaces |

### 9.1.2 ACF94.SQ Mortgage Master File

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACF94" |
| Filler | X(970) | All spaces |

| Trailer Record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X(974) | All spaces |

### 9.1.3 ACF95.SQ Mortgage Accounts by Mortgage Inversion File

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACF95" |
| Filler | X(1) | All spaces |

| Trailer Record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X(5) | All spaces |

### 9.1.4 ACM01.SQ Mortgage Accounts

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage Account Number | X(10) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACM01" |
| Filler | X(1457) | All spaces |

| Trailer Record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage Account Number | X(10) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X(1461) | All spaces |

### 9.1.5 ACM02.SQ Product Master File

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |

| | | |
|---|---|---|
| Product Code | X(3) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACM02" |
| Filler | X(210) | All spaces |

| Trailer Record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Product Code | X(3) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X(214) | All spaces |

### 9.1.6 ACM03.SQ Product Tier Structure

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Product Code | X(3) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACM03" |
| Filler | X(38) | All spaces |

| Trailer Record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Product Code | X(3) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X(42) | All spaces |

### 9.1.7 ACM06.SQ Payment Link

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACM06" |
| Filler | X(341) | All spaces |

| Trailer Record |
|---|

| Field Name | Type | Description |
|---|---|---|
| Mortgage/Loan Reference | X(10) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X352) | All spaces |

### 9.1.8 ACM29.SQ Repayment Calculation Profile

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage Account Number | X(10) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACM29" |
| Filler | X(73) | All spaces |

| Trailer Record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage Account Number | X(10) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X(77) | All spaces |

### 9.1.9 ACT13.SQ Mortgage Account Transaction File

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage Account Number | X(10) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACT13" |
| Filler | X(26) | All spaces |

| Trailer Record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage Account Number | X(10) | All 9's |
| Trailer Count | 9(9) | Count of the number |

| | | |
|---|---|---|
| | | of records on the file inclusive of header and trailer. |
| Filler | X(30) | All spaces |

### 9.1.10 ACW32.SQ Account details at Required Date

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Filler | X(8) | All spaces |
| Mortgage Account Number | X(10) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACW32" |
| Filler | X(222) | All spaces |

| Trailer Record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Filler | X(8) | All spaces |
| Mortgage Account Number | X(10) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X(226) | All spaces |

### 9.1.11 MAT15.SQ Fees Charged Against Application File

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "MAT15" |
| Filler | X(26) | All spaces |

| Trailer Record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |

| | | |
|---|---|---|
| Filler | X(30) | Spaces |

### 9.1.12 ACT01.SQ Application Master File

| **Header record** | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACT01" |
| Filler | none | None required as detail record is only 13 bytes long. |

| **Detail record** | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | As field name |
| Application Sequence No | X(2) | As field name |
| Is application further advance. | X(1) | As field name |
| Filler | X(10) | All spaces |

| **Trailer Record** | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X(4) | Spaces |

### 9.1.13 ACT10.SQ Expected Receipts – Detail

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACT10" |
| Filler | X(62) | All spaces |

| Trailer Record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X(66) | All Spaces |

### 9.1.14 MAM26.SQ Fee Codes File

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Fee Code | X(3) | All Zeros |
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "ACT10" |
| Filler | X(87) | All spaces |

| Trailer Record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Fee Code | X(3) | All 9's |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X(91) | Spaces |

### 9.1.15 CTS01 Bank of Engalnd Extract File

| Header record | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All zeros |
| Mortgage Account Number | X(10) | All Zeros |

| | | |
|---|---|---|
| Header Date | 9(8) | "CCYYMMDD" |
| File ID | X(5) | "CTS01" |
| Filler | X(27) | All spaces |

| **Trailer Record** | | |
|---|---|---|
| **Field Name** | **Type** | **Description** |
| Mortgage/Loan Reference | X(10) | All 9's |
| Mortgage Account Number | X(10) | All Zeros |
| Trailer Count | 9(9) | Count of the number of records on the file inclusive of header and trailer. |
| Filler | X(31) | Spaces |

## Document details

Filename & location:

\\ridubbldfd01\ADFODB\General Teams\Mortgage Platform And Operations\Conduct\Application Design\Documents for issue\Coates

Document references:

\\ridubbldfd01\ADFODB\General Teams\Mortgage Platform And Operations\Conduct\Team1\Coates\Coates Interfaces Functional Spec v1.2.doc

| Date | Version | Details |
|---|---|---|
| 12/8/2003 | 1.1 | Second Issue version |
| 27/08/2003 | 1.2 | Changes applied after feedback from Coates |
| 04/09/2003 | 1.3 | Changes to include :-<br>1. Details on where extracts will be scheduled to fit into Summit batch schedule<br>2. Operations and system management updated to include more detail on Problem Management<br>3. Header Trailer Record Layouts added as an appendix. |

## Key Roles

| Role | Name | Acceptance Signature / Date |
|---|---|---|
| Interface Build Technology Project Manager | Danny Shanks | |
| End to End Design | Morag Lamont | |
| Coates Technology Project Manager | John Page | |
| ITS Project Manager | Alan Powell | |

## Circulation

| Name | Reason |
|---|---|
| Ian Wren | Application Configuration Work Stream Leader |

| | |
|---|---|
| Gerry McGrath | Application Configuration Architecture |
| Steve Liles | Implementation Work Stream Leader |
| Mike Millward | Testing Work Stream Leader |
| Greg Cook | Migration Work Stream Leader |
| Stuart Cook | Business Owner, Coates |
| Martin Lewis | Lynx Supplier Management |
| Sara James | Lynx Support |
| Patricia Lipsett | End to End design team |
| Carol Beker | End to End design team |
| Graham Davie | Mortgage Manager Support |
| Clive Stott | Coates Delivery Manager |
| Stevie Kay | Mortgage Manager Support |
| Alison Donaldison | Mortgage Manager Support |

## End of Document