### **Notification of Address**

### Functional Description

#### Introduction

* Legacy systems notifications will be processed by Database batch processes.
* Database will accept notifications from both legacy and non-legacy systems.

#### Purpose

* Database release 2 will receive T008 Address Notification .
* Describes the process, data, and tables modified by this notification.
* Changes in DATABASE data will trigger outbound broadcasts to other systems.
* Outbound broadcasts represent the 'final picture' of data for that day.
* Duplicate notifications of the same data on the same day will not trigger broadcasts.
* Inbound notifications accepted from any system in the notification network.
* Batch job updates customer address records or ends them (creating a DLO status).
* QAS matching and de-duplication process performed on address records.

### Process

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| **Validation Rules** | **Description** |
| Notifications must have correct format. | Validate NI Number. |
| Data must be complete and correct. | Check address formatting, avoid duplicates, valid words. |
| Invalid data will be rejected. | Verify address start/end dates, consecutive punctuation. |

* Address type defaults to Permanent Residential.
* Customer role key defaults to default DATABASE Role.
* Address status type defaults based on notification content.

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| **Rejection Code** | **Rejection Rules** | **Description** | **Rejection Title** |
| 3000 | Account id not on DATABASE | ID not found or deleted on DATABASE. | Non-Match On ID |
| 3002 | Superseded ccounta | NNO in file is Superseded on DATABASE. | Non-Match On Current ID |
| 3014 | Special Characters in Address | Special characters found in address lines. | Invalid Address Characters |
| 3015 | Duplicate Data in Address | Duplicate data found in address lines. | Duplicate Address Lines |
| 3016 | Invalid Word in Address | Invalid words found in address lines. | Invalid Word in Address |
| 3018 | Consecutive Punctuation | Consecutive punctuation characters found. | - |
| 3021 | Address Line 4 Dependency | Address Line 4 populated without Line 3. | - |
| 3017 | Future Address Start Date | Start date cannot be in the future. | - |
| 3020 | Address End Before Start | End date cannot be before start date. | - |

* Failed validations result in record rejection.
* No rejection message sent back to source system.
* Rejected records managed by Application Live Support Team.

#### Matching and De-duplication

* Initial Matching: Compare incoming addresses with DATABASE records.
* Create new records for non-matching addresses.
* Update CUSTOMER\_ADDRESS table for matched addresses.
* QAS Process: Clean up new addresses and remove duplicates.
* Assign appropriate FAX\_CODE\_TYPE based on address type.
* Foreign addresses assigned specific FAX\_CODE\_TYPE.

#### Update Process

* Update ADDRESS and CUSTOMER\_ADDRESS tables with file data.
* Populate fields based on input file and technical audit data.

### Address Matching and Insertion Rules

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| **Step** | **Description** |
| 1.3.15 | Match on first 7 characters of line 1, first 6 characters of line 2, and Pincode for an exact match. |
| 1.3.16 | Incoming file with null end date is processed. |
| 1.3.17 | Compare address lines and Pincode with ADDRESS table. |
| 1.3.18 | If fields match exactly with a PAF compliant address, no new address is created. |
| 1.3.19 | If fields do not match exactly or match with a Non-PAF Compliant address, a new address is created. |
| 1.3.20 | For matched records, no new entries are added to the ADDRESS table. |
| 1.3.21 | For unmatched records, new entries are inserted into the ADDRESS table with specific conditions. |

#### Conditions for Inserting Records into ADDRESS Table:

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| --- | --- | --- | --- |
| **Table** | **Column** | **Change** | **Condition** |
| ADDRESS | Address\_Key | Insert | Unique Random Number generated for address key |
| ADDRESS | Address\_Line\_1 | Insert | Valid address line |
| ADDRESS | Address\_Line\_2 | Insert | Valid address line |
| ADDRESS | Address\_Line\_3 | Insert | Valid address line |
| ADDRESS | Address\_Line\_4 | Insert | Valid address line |
| ADDRESS | Pincode | Insert | Valid Pincode |
| ADDRESS | Country | Insert | Valid Country |
| ADDRESS | Address\_start\_date | Insert | Valid date (format DDMMYYYY) |

* The above table has the rules and conditions for matching addresses and inserting new records into the ADDRESS table based on the incoming T008 address notifications.

### Initial Matching Rules (Incoming File where End Date is not null)

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| **Step** | **Description** |
| 1.3.22 | Incoming T008 address notifications are examined. |
| 1.3.23 | Address Line 1, Address Line 2, and Pincode are compared with ADDRESS table fields. |
| 1.3.24 | If fields match exactly with PAF or Non-PAF compliant address, no new address is created. |
| 1.3.25 | If fields do not match exactly, notification file is dropped without exceptions. |

### Update of Customer Address

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| **Step** | **Description** |
| 1.3.26 | Update of Customer Address begins. |
| 1.3.27 | For matched records, check against CUSTOMER ADDRESS table. Update if customer's current open RESIDENTIAL address matches the incoming file. Otherwise, file is not processed without warnings or exceptions. |
| 1.3.28 | Once ADDRESS table is populated, update CUSTOMER\_ADDRESS table. |

#### Conditions for Updating CUSTOMER\_ADDRESS Table:

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| **Table** | **Column** | **Change** | **Condition** |
| CUSTOMER\_ADDRESS | Address\_Key | Update | Points to correct address in ADDRESS table |
| CUSTOMER\_ADDRESS | Cust\_Addr\_Start\_Date | Update | Valid date |
| CUSTOMER\_ADDRESS | Cust\_Addr\_End\_Date | Update | NULL (if address not ended) or valid date (if address ended) |
| CUSTOMER\_ADDRESS | Address\_Status\_Type | Insert | 0 (if address is ended, indicating Dead Letter Office) |

### Notes:

* No insertion of address data into Address Lines 2-5 on CUSTOMER\_ADDRESS table.
* For non-PAF compliant addresses, certain fields on CUSTOMER\_ADDRESS table remain empty.
* Triggers update address trace fields with appropriate values for PAF compliant addresses during table update.

### QAS Process and De-duplication

* QAS module runs against new entries in ADDRESS table after CUSTOMER\_ADDRESS update.
* QAS module removes newly created addresses that match existing database addresses, updates CUSTOMER\_ADDRESS table to point to original database address.

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