Registration Processor Process Flow

Pre-Processing

- Start
- Perform Sanity Check on Request (Refer NOTE for Sanity Check*)
- Sanity Check was Successful?
  - No → Reject Packet and Send Error Message in Response to Client
  - Yes ↓

Virus Scanner

- Perform Virus Scan on Encrypted Packet
- Virus Scan was Successful?
  - No ↓
  - Yes → Decrypt and Unpack Packet
- Decryption was Successful?
  - No ↓
  - Yes → Perform Virus Scan of Decrypted Packet
- Virus Scan was Successful?
  - No ↓
  - Yes → Move Decrypted Packet to Packet Store
- Move Encrypted Packet with Time Stamp Embedded for Archival
- Unpack Packet in Packet Store

Update Status to RESEND Packet for 3 attempts & then Update as RE-REGISTER

Structural Validation

- Packet Integrity Validation (Perform Check Sum Validation)
- Packet Integrity was Successful?
  - No ↓
  - Yes → File and Doc. Val. (Check if all the Documents based on Type of Registration are available in Packet)
- File & Doc. Val was Successful?
  - No ↓
  - Yes → Extract Data From the Packet
- Store Identity Object and Meta Info in Data Base → A

Data Quality Check

Packet Data Validation

- A → Validate
  - If Users, Center and Machine Mapping is same as when Packet was created
  - If Packet was created in Center Working Hours
  - If GPS was captured when Packet was created
  - If Structure of ID Object is Correct
  - If Master Data is captured correctly in ID Object
- Validation Successful?
  - No ↓
  - Yes → Operator and Supervisor were Authenticated (using Finger Print/Iris/Face/Static PIN/Password Auth./OTP)
- Officer and Supervisor Auth Successful?
  - No → Reject and Notify Admin and Resident
  - Yes → Introducer (Parent/Guardian) Validation (using Finger Print/Iris/Face/Static PIN)
- Introducer (Parent/Gaurdian) Auth Successful?
  - No → Reject and Notify Admin and Resident
  - Yes →
- If Packet Rejected by Supervisor during EOD Process
  - Yes → Reject Packet and Notify Resident
  - No ↓

Individual Data Validation

- Validate If Photo, Gender and Age are in Sync (Part of v2)
- Photo/Gender/Age Val. Successful?
  - No ↓
  - Yes → Validate the Documents vs the Data using OCR (Part of v2)
- Validation Successful?
  - No ↓
  - Yes → Check the Quality of the Resident's Biometrics Images with the Threshold Configured
- Validation Successful?
  - No ↓
  - Yes → Perform Finger Quality Checks like Real finger or of the same person (Part of v2)
- Validation Successful?
  - No → Reject Packet and Notify Resident
  - Yes → B

Reject Packet and Notify Resident

Deduplication and UIN Generation

Demographic Deduplication

- B → Perform Demo Dedupe using Name, Date of Birth and Gender
- Duplicates Found?
  - No →
  - Yes → Perform 1:1 Biometric Match using IDA
- Match Found?
  - No →
  - Yes → Reject Packet and Notify Resident

Biometric Deduplication

- Perform Bio Dedupe using ABIS i.e. 1:N Match
- Receive Scores from ABIS
- Calculate Composite Biometric Deduplication Score
- Duplicates Found?
  - No →
  - Yes → Reject Packet and Notify Resident

Manual Verification

- On Hold for Manual Verification
- Manual Verifier Rejects Packet?
  - Yes → Reject Packet and Notify Resident
  - No →

UIN Generation

- Generate and Allocate UIN
- Send ID Object to ID Repository
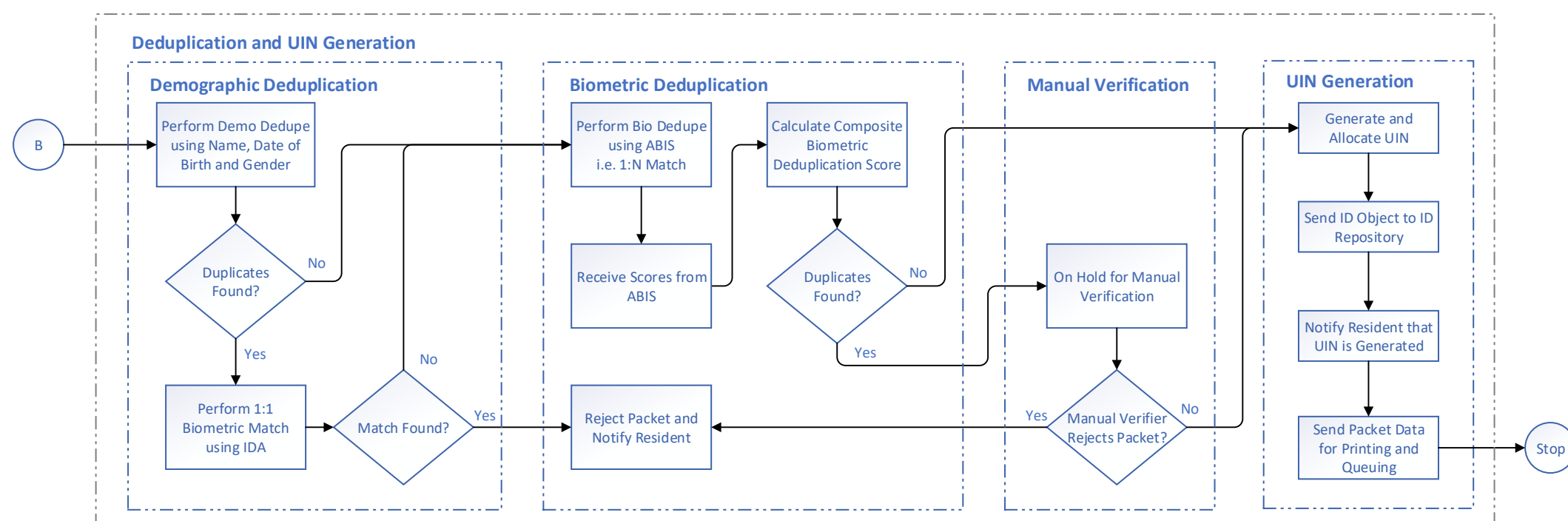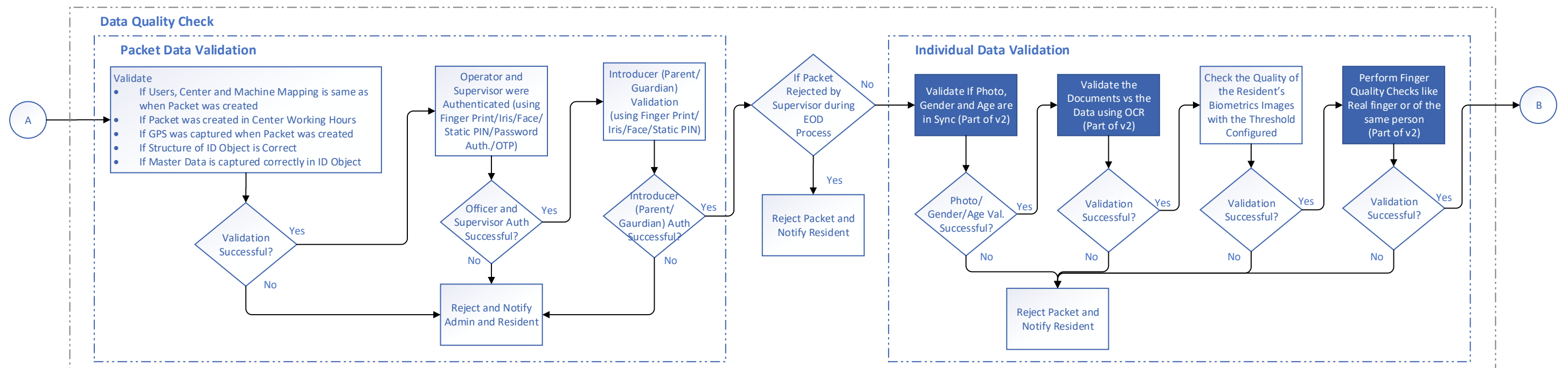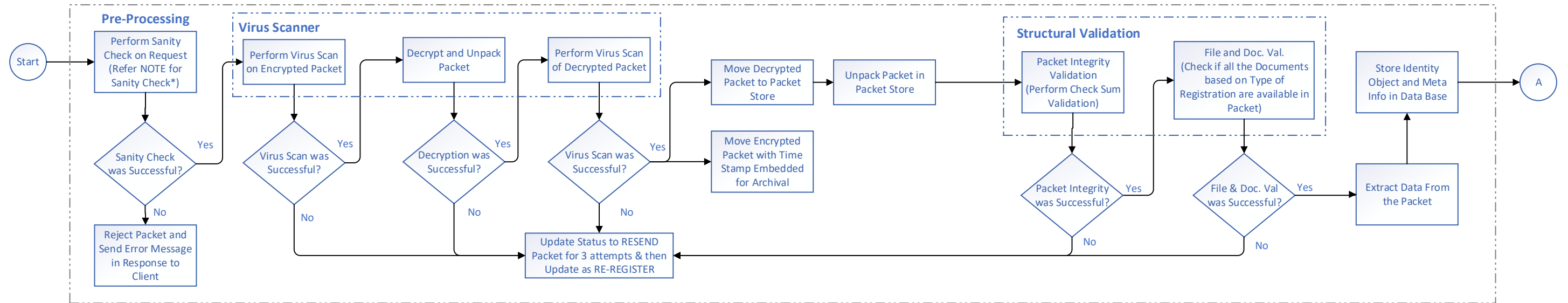- Notify Resident that UIN is Generated
- Send Packet Data for Printing and Queuing
- Stop

NOTE

*Sanity Check of Request** includes the following:
1. Validate if Request is coming from an Authentic Source.
2. Validate if the RID in the Packet is present in SYNC list of RIDs.
3. Validate if the Request is not a Duplicate Request.
4. Validate if the Packet is within the configured size.
5. Validate if the Packet is as per the configured format/extension.

Part of v2

Update Process Flow

B → Check if UIN of Resident and Introducer (for Child) in ID Repository → UINs are Present?

UINs are Present? → No → Reject and Notify if Contact Details Available

UINs are Present? → Yes → Authenticate the Resident(if Adult) and Introducer(if Child) → Authentication Successful?

Authentication Successful? → No → Reject and Notify Resident

Authentication Successful? → Yes

Update Name/Gender/DOB → Update Record in Demo-Dedupe Table → Perform Demo Dedupe using Name, Date of Birth and Gender → Duplicate Found?

Duplicate Found? → Yes → Perform 1:1 Biometric Match using IDA → Duplicate Found?

Duplicate Found? → No → Update UIN Master Database for Demo-Data → Notify Resident and Send UIN for Printing → Stop

Duplicate Found? → Yes → Revert Changes in Demo-Dedupe Table → Reject and Notify Resident

Update Demo Data other than Name/Gender/DOB → Update UIN Master Database for Demo-Data

Update Biometric Data → Perform Bio Dedupe using ABIS i.e. 1:N Match → Receive Scores from ABIS → Calculate Composite Biometric Deduplication Score → Duplicate Found?

Duplicate Found? → Yes → Reject and Notify Resident

Duplicate Found? → No → On Hold for Manual Verification → Manual Verifier Rejects Packet?

On Hold for Manual Verification → Update UIN Master Database for Bio Data

Manual Verifier Rejects Packet? → Yes → Reject and Notify Resident

Manual Verifier Rejects Packet? → No → Update UIN Master Database for Bio Data