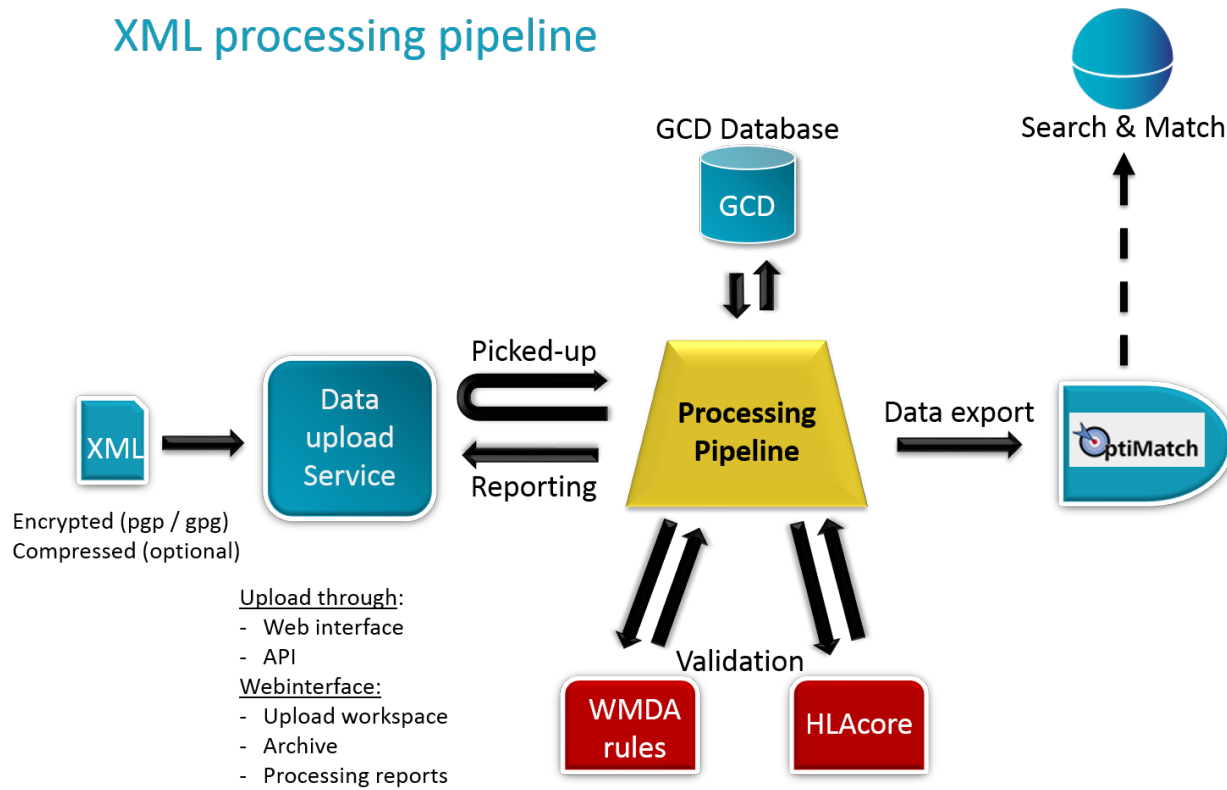


XML Pipeline workflow

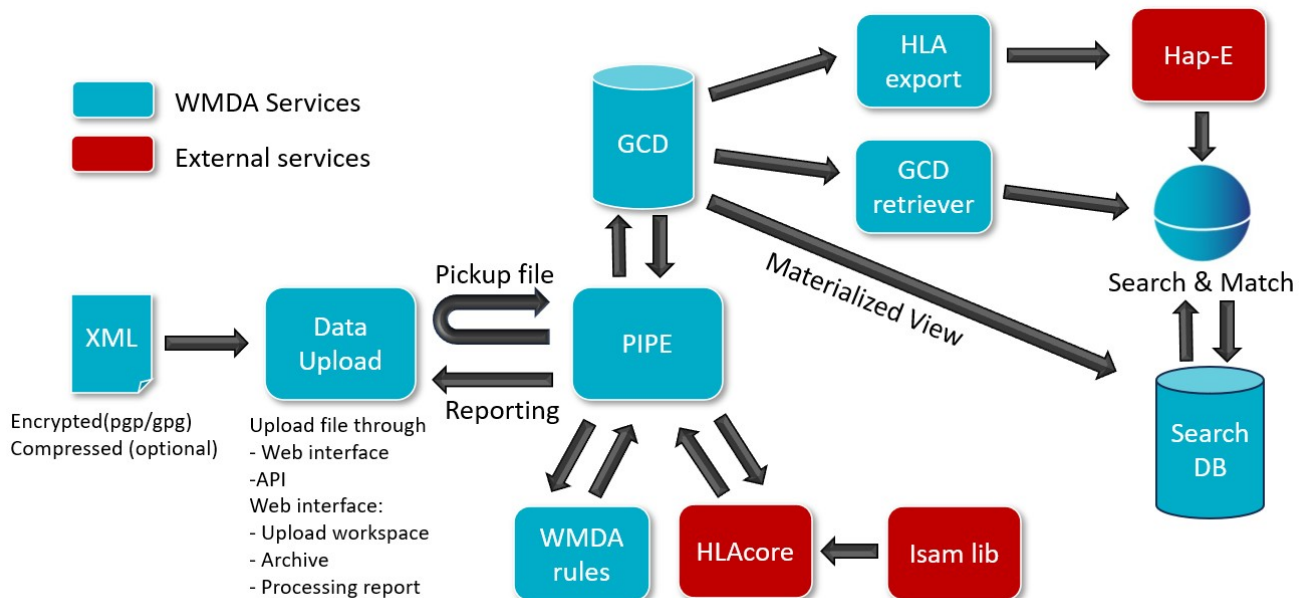
Legacy pipe with OptiMatch
OptiMatch is terminated on 31st, 2022

XML processing pipeline



Legacy pipe and new search & match

New Search & Match started from 1st, July, 2022



1. **Upload XML file** by user through manual upload or API connection to the data upload service
2. **Pick-up file:** The processing pipeline pick-up the file from the upload service Through API connection
3. **Validations:** Check file name
4. **Decrypt/ decompress:** Decrypt file and if necessary unzip file
5. **XML structure validation:** Check XML file structure based on XSD files
6. **File / Inventory validation:**
 - Check ION LISTING_ORGANIZATION and POOL and if LISTING_ORGANIZATION is allowed to send for POOL (affiliated organisations)
 - CONTENT_TYPE vs file name and inventory type
 - UPDATE_MODE
 - SCHEMA_VERSION
 - CREATION_TME and SNAPSHOT_TIME
7. **Record validation:**
 - WMDA business rules: required fields
 - WMDA business rules: reject record status=DE; HIV=pos
 - HLA validation by HLA core through API call
 - WMDA business rules: minimal required HLA fields
 - WMDA business rules: optional fields or combination of optional fields
8. **Save records:**
 - Save valid records in database (GCD)
 - End of processing: check number valid records with number of records previously saved in database: if new number is 90% of the previously saved number of records -> replace previous records by new records from this POOL.
9. **Create report:**
 - Create report from records in database with warnings and rejections specified, total numbers of accepted, rejected, warnings
 - Export report to data upload service through API connection
10. **Create export file:**
 - Create export CSV file if no processing of files/records is running (once a day)
 - Compress file
 - Encrypt file
 - Export file to data upload service through API connection