Appendix A – Prescriptions Data Flow and Data Warehouse Process Diagram

Prescriptions Data Flow

Prescribing Organisations
- GP Practice
- Hospital
- Dental Practice
- ISHP (Independent Sector Healthcare Provider)

Dispensing Organisations
- GP Practice (Dispensing Practice)
- GP Practice (Personally Administered)
- Community Pharmacy
- Appliance Contractor

Payment Systems
- DPC (Direct Payments to Contractors)
- LAP (Locally Authorised Payments)
- Exeter (Maintained by Capita)
- Integra

Dispensing Organisations
- Paper Prescription Form
- Paper Prescription Batch

Paper Batch Processing
- Scanning
- ICR (Intelligent Character Recognition)

Prescription Pricing Rules – CIP (Capacity Improvement Programme)
- Prescription Forms
- Pricing Rules
- Exception Handler

Raw Transactional Prescription Data

CIP Copy of Database Tables for Information Systems*

Data Warehouse Load Process

External Datasets
- Leaked Data (Scotland / Wales)
- ONS Data
- PDS (Personal Demographic Service)
- Practice List Size
- QOF (Quality Outcomes Framework)
- Other Supporting Datasets

Medicines and Devices Data
- CDR (Common Drug Reference)
- MDR Ong (Master Data Replacement)

Organisational Data
- MDR Org (Master Data Replacement)

Prescription Data
- CIP Copy of Database Tables for Information Systems

Landing Area
- Various Landing Schemas
- External Table Schema

Historical Data Storage
- SCD2 Schema

Staging Area
- STG Schema
- STG View (Mapping Layer)

Dimensions
- Drug / Appliance Data
- Organisational Data

Facts
- Prescriptions Fact Data

Post DIM/FACT Data (Performance Layer)
- Aggregate Tables
- PCA Data

Dimensions
- Area where transformed dimensions data is stored based on dispensing month. This layer is permanent and used in final reporting.

Facts
- Prescriptions Fact Data

Post DIM/FACT Data (Performance Layer)
- Aggregate Tables
- PCA Data

Data is held in the exact format as the source system. Data is version controlled by creation of "Start date", "End date", "Date created", and "Date updated" fields. This is a permanent layer, no data is ever removed, but instead has the "End date" field populated.

Data is held here in the exact format as the source system. This is a temporary layer that is replaced with each monthly refresh.

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After the creation of the fact and dimension tables further tables are created, including aggregate tables, prebuilt reporting, and 12 month rolling tables. This is a performance layer, designed to make production systems more performant; PCA data is included here.

* CIP Copy of Database Tables for Information Systems

Verification Check

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