**Teradata Active System Management**

They store current and historical data in one single place and are used for creating analytical reports for knowledge workers.

**PURPOSE**

To identify the EDWS from an Optum SOW perspective, flagging or even fixing bad data.

**Data Sources**

- Optum System
- FADS
- MARS
- FADS and MARS
- FADS
- MARS

**Data Acquisition**

- Extract data from one or more DMAS sources.
- Validate data.

**Extract – Transform – Load (ETL)**

- Ingestion Tier
  - Real-time / Batch / Scheduled
- Distribution Tier
- Data Storage / Repository Processing Tier

**Transform Data**

- Data integration, data enrichment, clean, apply business rules, data integrity checks, aggregate or disaggregate, standardize, etc.

**Load Data**

- Data warehouse/vault.
  - Single Source of Truth for Analytics.
  - Central repository for all DMAS data.
  - Loads data into specified target systems and/or to the warehouse.
  - Enriched data loaded monthly.

**Metadata**

- Data Warehouse
  - Teradata Cloud Data Warehouse
    - Analytics / Visualization
    - Rule Engine
    - Data Aggregation and Consolidation
  - SOW p508 of 521

**Data Marts**

- Data loading utility that uses Teradata SQL
  - SOW p517

**ETL Process** (SOW p15)

- Data acquisition (real-time and scheduled), and business rules, and data enrichment.

**EDWS Production**

- System Monitoring
  - Symantec Server Management Suite 8.0 powered by Altiris® technology
- Auditing
  - LogRhythm
- Source Code and Version Control
  - BMC Software
- Change Control and Help Desk Reporting
  - BMC FootPrints
- Data Monitoring
  - Informatica
- Data Quality
  - Information

**Document Management and Metadata Tagging and Repository** (SOW p16/p17)

- Change Management
  - Application Lifecycle Management
- Quality Assurance and Testing

**Committee for Quality Assurance (CQA)**

Audit and Abuse Detection System (FADS)

Management and Administrative Reporting System (MARS)

Surveillance and Utilization Review (SURS)

Teradata Active System Management (TASM)

Optum® Triple Aim Analytic Services (OTIAS)

**Committee**

- Robert Kowalke

**Governance**

- FADS and MARS

**Business Intelligence**

- Visualization Tools
  - Reporting (MARS, SURS, FADS)

**Business Intelligence**

- Executive Users
  - Business Users
  - Data Analysts

**Data Delivery**

- User Access Layer
  - User Presentation
  - Data Views

**Data Warehouse**

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**Data Integration**

- ETL Process (SOW p15)

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