

ETL, DW & BI solution for Hutchison UK [Globetouch] a global Telco MVN Operator and Enabler



BUSINESS NEED

- Creating a comprehensive BI solution for analyzing CDR data - Voice, SMS, GPRS and Top-up
- Needed Sigma to understand Master data like Country, Call type, Service types, Subscribers, etc.
- Understanding ETL mapping specs, ETL Design & Development, DW Modeling



ENGAGEMENT

- Performance test for ETL scripts and Reports
- Automation of test cases and alerts if there are any errors/exceptions
- Validation for the following:
 - ✓ DW Model - surrogate keys, dimensions and fact
 - ✓ CDR and file naming conventions as per UK standards
 - ✓ CDR files frequency checks, sequence numbers and count checks
 - ✓ Null values and inconsistency checks between source CDR file record and DW tables
 - ✓ Dimension and fact tables data as per source data received
 - ✓ Reports for- Empty report, Data correctness, Current date report creation, Missing numeric value, Filter conditions, Exclusions, Report dependencies
 - ✓ Delivery of the reports to end users as per the frequency
- Validation of ETL Scripts
- **# of ETL Jobs /Transformations written** : 300+
- **# of Data sources** : 3
- **Data extracted from:** CDR files, CSV and Excel



BENEFIT

- Identify Fraud events
- Customer expired and activation status
- Analytics about SIM stocks and voucher stocks by resellers
- Network Utilization across all subscribers and country.
- Reconciliation of raw data, billing data and reporting data
- Automation of report generation



TECHNOLOGY

- Pentaho BI Suite
- PDI
- Oracle
- Solaris