



# CASE STUDAY







P R O J E C T

# BILLING SYSTEM DATA MIGRATION

C L I E N T

## MOROCCO TELECOM





# **BUSINESS BACKGROUND**

**Business Support and Control System (BSCS) is an end-to-end customer care and billing system, designed to deliver across all wireless and wireline networks in the worldwide marketplace. It supports your move into new territories, such as the Internet and new-generation telecom technologies.**

**Data Migration is Migrate from the Old version of the Billing System BSCSV7 to the recent Version of the Billing System BSCSIXR2.**

**Bscs data migration is focused on migrating the database table from old to new and applying all the required changes/handling.**

**The following table shows different types of Bscs database including 4 types of table as following:**





# KERNEL BSCS TABLES

1

**Baseline data** this table has configured the base BSCS with the data “Baseline setup”. The migration of these tables is done by 2 methods:

- TRANSFER OF THE DATA BY SCRIPTS OF MIGRATION STARTING FROM THE BASELINE TABLES OF THE BASE BSCSV7
- CONFIGURATION OF NEW TABLES BSCS IXR2 BY SQL SCRIPTS, THE INSERTED DATA ARE COLLECTED

2

**Business Configuration data** this table integrates commercial offers. After the configuration from the Baseline data there are two types of commercial offers are possible:

- NEW COMMERCIAL OFFERS WOULD RESULT FROM THE GAP ANALYSIS OF THE OLD APPLICATIONS OR THE NEW NEEDS EXPRESSED BY THE MARKETING TEAM: THESE OFFERS MIGHT BE IMPLEMENTED BY ONLINE MODULES (PX, SEMI, ETC...) OR VIA SQL SCRIPTS
- OFFERS THAT ARE BEINGS MIGRATED STARTING FROM THE OLD BSCS BY SCRIPTS OF MIGRATION

3

**Customer dynamic data** this tables has the dynamic data correspond to the customer information, contracts, finance etc..

- TRANSFER OF THE DATA BY INFORMATICA ETL TOOL

# NON KERNEL BSCS TABLES

1

**Customer dynamic data** these objects, related to applications not kernel, are analyzed as well as the applications.





# SCOPE OF WORK

- Migrate Morocco telecom billing system “BSCS” from BSCS7 to BSCSIX  
Dynamic customer data

1

KERNEL BSCS TABLES (OVER 220 TABLES)

2

NOT BSCS TABLES (OVER 250 TABLES)

3

RTX TABLES (MIGRATING 6 MONTHS OF RTX HISTORY DATA)

- Develop ETL process to the prepare purging list. i.e. (Customer, Contract, Bills/Payments) that will purge 40% of unused BSCS Data
- Apply the required purging rules cascaded for all impacted scoped tables “Dynamic Customer Data Tables”
- Assigned new segmentation rules for Morocco Customers ‘Price Group’ special handling for new BSCSIX commercial offers configuration impact on “Dynamic Customer Data Tables”
- Handle Services/Service Parameter new configurations impact on the contract Services tables
- Services-TO-TMCODE inconstancy fix



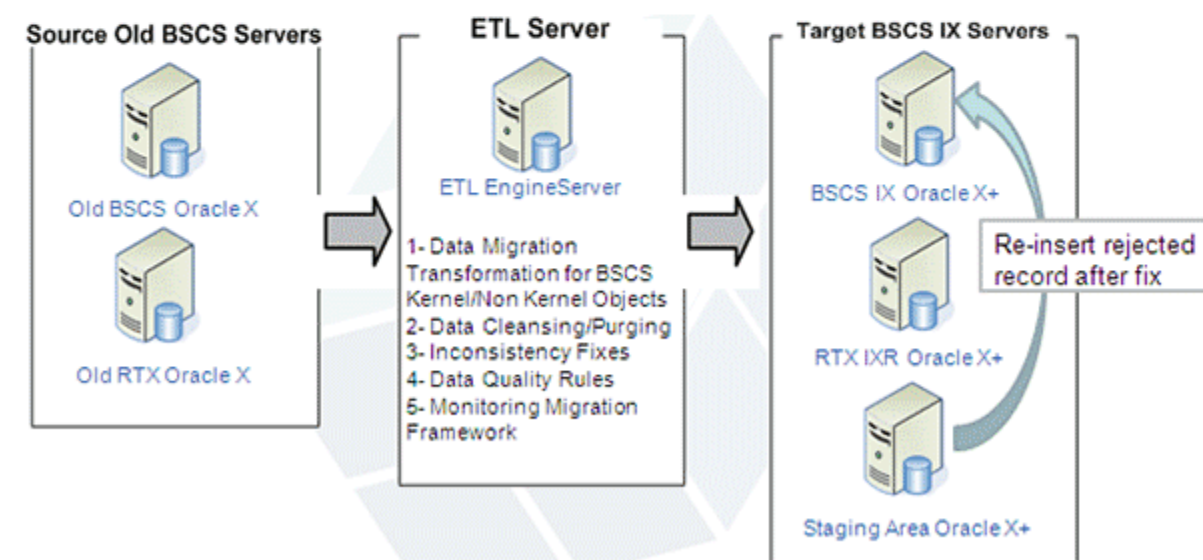


# SOLUTION OVERVIEW

## 1.1 ARCHITECTURE HIGH-LEVEL OVERVIEW

For BSCS Data Migration a new staging area will be created in the target database

- Prepare purging rules in staging schema
- Prepare segmentation tables in staging schema
- Prepare services/parameters configuration tables in staging schema
- Select data from old version BSCSV7
- Apply the business rule on data selected from BSCSV7
- Insert the data in the new version BSCSIX
- The Inconsistencies records Load in staging area through Data Migration then fix it and re-insert to BSCSIX database







# END RESULTS





**1** A total of 90 dynamic data tables have been migrated including 6.36 billion records.

**2** Purged Customers Statistics:

Number of BSCS7 Customers 43,733,610 Customers.

Successfully Migrated customers to BSCSIXR2 28,333,685 Customers.

15,399,925 Customers have been purged based on business requirements.

**3** Purged Contracts Statistics:

Number of BSCS7 Contracts 44,689,568 Contracts.

Successfully Migrated Contracts to BSCSIXR2 29,000,891 Contracts.

15,688,677 Contracts have been purged based on business requirements.

**4** Purged Billing/Payments Statistics:

Number of BSCS7 Bills 37,775,961 Bills.

Successfully Migrated Bills to BSCSIXR2 13,524,061 Bills.

24,251,900 Bills have been purged based on business requirements.





**THANK YOU**