

Maputo City & Province Conversion Report 2nd Iteration/ Cycle

SIGEM CMS Project

Data Conversion

EDM

Mozambique

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| MODIFICATIONS TO PRIOR DOCUMENT |
| Issue for approval |

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# Introduction

This document will be used as the main statistical report for the Maputo city and Maputo province data migration from Galatee and Eclipse EE to CMS. The report compares statistical entities from the source and what was migrated into the target database. The report will also state the differences if the source and target databases have different values.

The conversion statistics focuses on the following major areas:

* Contract statistics by count
* Contract debt balances by status and tariff
* Subscriber deposit balances per district
* Areas with issues to highlight to EDM

For the purpose of the highlighted results it should be noted that, the data received from Galatee and Eclipse EE was from the Maputo database which has both Maputo City and Maputo Province customers. The data used was extracted in June 2013. The financial data used was only for period between January and March, 2013. All accounts were considered and conversion rules were used to pick only the customers eligible for conversion.

# Statistics Summary

## Converted Services



The following conversion rules were used;

* All active accounts in post paid were converted.
* Inactive accounts in post paid with a non-zero balance were converted.
* All active meters in prepaid were converted.
* *One prepayment account failed to be converted because it did not have meter installation date. This should be checked from Eclipse and corrected for future conversions.*
* *Five active post paid accounts were not converted because they have tariff “23”**in Galatee. This tariff was not mapped to any CMS tariffs. The tariff description is “Por Favor, N~OD~o Utilisar”*

## Converted Services with Cadastramento Data

Post Paid



From the table above we can see that only 10.8% of post paid customers have Cadastramento data.

Prepaid



Only 49.2% of prepaid customers in Maputo have data in Cadastramento. Also we have meter numbers in Maputo which are appearing in provinces which are not in Maputo. These needs to be investigated further as this may mean that there are duplicate meter number in EDM prepaid.

*The data which was used for this conversion from Cadastramento is from the previous data extraction. This data may contain errors and was not in the requested formats. There is need for EDM to provide data from Cadastramento in the requested format for the next cycle.*

## Converted Services by Tariff



All prepaid customers were converted under one tariff code in CMS. This is due to the fact that Eclipse currently has 46 tariffs which will require to be mapped to the tariffs in CMS.

## Converted Debts



As mentioned earlier on, the data on the debts converted is only for one billing month in Galatee. It has been resolved that the billing should take historical billing for a period of 24months from the conversion month. Galatee has provided the data for 24months and that will be used in the next conversion.

Also in the next conversion they will be required data of all the unpaid amounts from Eclipse to be converted as unpaid bills these will be paid during the normal vending. A history of every token purchase (vend) by the customer will also be converted for a period of 24 months.

## Converted Security Deposits



The security deposits which were considered during this migration were taken from a previous data extraction. This data is not in the required format for conversion. In the next cycle of conversion there will be need for the data to be extracted and loaded according to the conversion formats.

There is no security deposits for inactive customers since this is supposed to have been refunded to the customer when the account became inactive.

For prepaid customers they will be no security deposits to convert since these customers are not charged security deposits.

EDM does not pay interest on security deposits which were paid by the customer, and such data does not exist and will not be converted to CMS.

# Converted Database Entities

## Geographical Structure



During conversion there were created bairros for customers which were not in the Cadastramento. These customers had no mapping to the streets since the streets/ bairros for conversion were provided by data gathering. For every centre (logical grouping of accounts) in Galatee it was created a bairro with the name as “UNDEFINED – *centre number”.*  For prepaid customers bairros were created for Maputo city and Maputo province.

## Converted Premises by Office



## Installed Meters by Usage Type



A total of 57,390 services have no meters from the current system, of this number 57,096 services are for active accounts. No meter manufacturer data is available for Galatee customers, these were converted with manufacturer as “UNKNOWN”.

## Meter Stores Meters by Status and Usage Type

* *Data for meter stores was not available for this test. However all installed meters exists in the meter stores system. A campaign to collect stores data is required before data conversion.*

## Converted Services by Economic Activities



# Issues Encountered And Resolutions

During the data conversion for with the statistics herein, it was observed some issues which will require attention from both EDM and the Indra conversion team. Some of the items are discussed under the statistical tables within the document however, below are some of the issues.

1. The Galatee and Cadastramento data used for conversion is from the previous data extraction. This data may not reflect the current number of accounts for these two systems. Cadastramento provided another set of data for conversion, however the provided data could not be used during this conversion because it was missing some essential data.
2. The bairros used for conversion did not have proper linking to the commercial centres. This information was provided by EDM and will be used in the next conversion since it was provided late for this conversion cycle. We tried mapping a few bairros to some agencies but this is not entirely correct.
3. The reading routes used in EDM may not be optimized to be read within a single day. There may be need to split them and reorganize them into manageable itineraries. During this conversion this optimization was not considered. There will be need to optimize such and it will be required from the implementation team such information.
4. Prepaid customers are not in any itinerary in EDM, these they will be required to be put in reading itineraries which will be read once every four months. It is important to have these put in itineraries.
5. The conversion did not consider meters which are not installed. These will be provided during go live and the missing data may not affect this and subsequent data conversions.
6. There is need for EDM to provide the routes and itineraries to be used for prepayment customers for the purposes of meter reading. This information is not available in the Eclipse and should be provided for efficiency in meter reading for prepaid.

# Conversion Errors Detected In Previous Cycle and Corrected

From the first conversion cycle the development and testing teams encountered some issues which needed to be corrected during conversion. These issues were corrected from previous conversion cycle;

1. Datos – The values for column DATOS was converted in the wrong formats for the tables CLIENTES, SUMCON and FINCAS. This was corrected.
2. Zero meter constants – Some meters in Galatee have zero meter constant. This constant multiplier is wrong and such values were this time around converted as one and not zero.
3. Meter digits less than readings – We had cases of meter digits/ dials which were smaller than the length of the meter readings supplied. These were corrected so that it will be used the maximum length of meter reading if the digits are less.
4. Cod\_Nas – This is a value in the table of premises. It was supposed to be converted with left padding of 17 zeros, this change was done in the current cycle.
5. Itineraries – Prepaid and post paid accounts should be in different reading routes. However in the first round of conversion these were in the same itinerary. Also the prepaid itinerary is supposed to be read once quarterly, these changes were done in this cycle.
6. Billing dates – The billing date to be used for CMS energy bills is supposed to be the same as the latest reading date. This was corrected in this cycle.