

**273803**

Aptean Ltd  
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## 2 273803 - KM-82CDLY / Quote for MIS extracts for CON

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## 3 FUNCTIONAL OVERVIEW

### 3.1 Client Requirement

Provide standard MIS extracts from Consumer Networks as per Staples and Aramco.

Providing users with timely MIS information

### 3.2 Solution

The suite of functions developed to extract new and updated transactions will be applied to the Consumer Networks MTS database. Any data added or updated in the last 4 days will be extracted. The data set will be formatted into delimited flat text files which will be moved to a folder ready to be pulled into the MIS infrastructure by ftp. The file transfer will be controlled by the MIS solution. The scope of tables and data referenced and created for transfer into the MIS solution will be documented in the specification of the MIS extract solution. Most of the tables in scope already have insert and update date and time stamps but those that do not will be changed to include these fields. This will avoid full table transfers on all tables included, including the master data like locations. OBS will analyse the current data map provided that was created from the existing UK Secondary MIS solution (to be superseded) and document all data structure differences on the Consumer Networks data model. The Consumer Networks system does not require additional tables to be included for a booking module (unlike Saudi Aramco). OBS will where appropriate apply new database indexes on the insert and created columns to improve the efficiency of data extract queries depending on volumes. N.B. This MIS extract will be based on the current MIS extract set up for UK Secondary and Healthcare databases. Any changes to the format of the current MIS extract may incur additional costs.

Provide data extraction run on a number of Oracle DMBS\_JOB that will produce delimited flat files that will be collected from the MTS server(s) from the following tables. The MIS solution will manage the file transfer on a pull basis and it is assumed will delete the files it collects or moves them to an archive store on the OBS database server.

### 3.3 Focus Area

#### Business Area Trip

SCH\_HAULAGE\_ACTIVITY

SCH\_TRIP

SCH\_TRIP\_STOP

#### Business Area Resources

IMP\_DECODE\_ENTRY

ORG\_CUSTOMER

RES\_CARRIER

RES\_CARRIER\_TYPE

RES\_PERSON

RES\_TRAILER\_TYPE

#### Business Area Orders

SCH\_ORD

SCH\_ORD\_NON\_CONFORM

SCH\_ORDER\_LINE

#### Business Area Locations



GEO\_LOCATION

GEO\_LOCATION\_USAGE

#### **Business Area Contracts**

CNT\_CHARGE

CNT\_CHARGE\_TIER

CNT\_CONTRACT

CNT\_TARIFF

#### **Business Area Bookings**

INT\_BOOKING\_DETAIL

SAP\_PRODUCT\_ITEM

SCH\_BOOKING

SCH\_PRODUCT\_SUMMARY

SCH\_REASON\_CODE

#### **Business Area Schedule**

SCH\_SCHEDULE

The export will include all columns on the above tables.

## **3.4 Scope**

This development will be applied to system version 10.5 on CONTST and once approved CONPRD.

The basic building blocks used for CMLV will be re-used in this instance.

The MTS extract will form an intrinsic module of the transport solution and any future development / release of MTS must consider the impact on data extract for the MIS solution, in particular table changes or additions to the underlying data structure.

A data take on exercise will be conducted that will create the same file formats but for historic date ranges. It is anticipated that this data will be sent to VM as a one-off using DVD media. The larger tables might need to be split down and provided as monthly history to keep the take-on file size manageable.

## **3.5 Data**

The number of files, file content and frequency of extract will be controlled by a new suite of administration data tables. This means that should the scope of the solution be changed, this can be managed through data configuration rather than re-coding of the solution. The new system tables (MIS\_EXTRACT\_HEADER, MIS\_EXTRACT\_DETAILS and MIS\_EXTRACT\_RUN\_DETAIL) will be created to control what tables and columns are to be exported

Database packages DP\_MIS.sql and DP\_MIS\_ALL.sql, currently used in CMLV, will be applied to CONPRD. Any alterations required will be done but all changes will be made to keep the package as generic as possible so that it can be applied to all databases when required. The packages should, however, be generic, as it is the data in the new MIS tables (outlined above) that will change per database.

DBMS\_JOB(s) will be created to call either one or a number of extracts to be run at a specific time. It is envisaged that there could be a number of jobs depending on the number of extracts needed.



For example, if the MIS system only requires an extract, for example, from GEO\_LOCATION once a day but they want to extract data from SCH\_ORD once every hour these will be on a different DBMS\_JOB, extracts can be grouped on the DBMS\_JOB.



## 4 FUNCTIONAL DESCRIPTION

The data for the export will be based upon all columns in the following tables for the COLV database.

The following tables will be required:

CNT\_CHARGE  
 CNT\_CONTRACT  
 CNT\_CHARGE\_TIER  
 CNT\_TARIFF  
 GEO\_LOCATION  
 GEO\_LOCATION\_USAGE  
 IMP\_DECODE\_ENTRY  
 INT\_BOOKING\_DETAIL  
 ORG\_CUSTOMER  
 RES\_CARRIER  
 RES\_CARRIER\_TYPE  
 RES\_PERSON  
 RES\_TRAILER\_TYPE  
 SAP\_PRODUCT\_ITEM  
 SCH\_BOOKING  
 SCH\_HAULAGE\_ACTIVITY  
 SCH\_ORD  
 SCH\_ORD\_NON\_CONFORM  
 SCH\_ORDER\_LINE  
 SCH\_PRODUCT\_SUMMARY  
 SCH\_REASON\_CODE  
 SCH\_SCHEDULE  
 SCH\_TRIP  
 SCH\_TRIP\_STOP

The tables are listed in ?Appendix A? any new columns with database triggers required highlighted in red. It is expected that each column will be delimited with a '@' symbol (except ?INT\_BOOKING\_DETAIL? which will use a '¤') and that the extract will be run for records created or updated in the last 4 days.

It should be noted that the column positions in the tables may be changed so that the sequence of the extract may be maintained as required.

The extract may also include extra columns not contained on the tables, for example, ?SPARE\_DECIMAL?, ?SPARE\_TEXT? and ?SPARE\_DATE?. These extra columns may be maintained as required for each table extract.





## 5 REFERENCES

Ref No	Document Title & ID	Version	Date
1	EST-273803 KM-82CDLY Quote for MIS extracts for CON v1.0.doc	1.0	08/02/09



## 6 DOCUMENT HISTORY

Version	Date	Status	Reason	Initials
0.1	10/02/10	Draft	Initial version	PDR
1.0	15/02/09	Issue	Reviewed and Issued	MJC



## 7 AUTHORISED BY

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