# ETS-Compas Interface Technical Documentation

## Introduction

Purpose of this document is to provide an overview of the ETS vs. Compas Interface, to briefly explain how it works and to document the installation procedure.

## Overview

ETS is currently under “test on field” phase. Due to its distributed nature, the system has to be tested across several logistic offices. The current chosen region is Pakistan.

In the chosen offices a copy of local Compas station has been created and linked to the main ETS system. This test environment is both the object of this document and the target of the implemented solution.

Once the test environment is copied from production, a set of new objects are installed on the cloned schema in order to establish a read/write communication channel between ETS and Compas.

Data being read from Compas through database views is: EPIC\_LOSSDAMAGEREASON, EPIC\_PERSONS, EPIC\_STOCK, EPIC\_LTI and EPIC\_GEO.

Data being pushed to Compas is waybill dispatch and waybill receipt and this is achieved through two specific oracle stored procedure.

## How it works

The test environment is created starting from a full oracle export. Having Karachi as the target station and COMPAS\_KARX001 as the origin oracle production schema, a new oracle schema named TESTQ\_KARX001 is created and an oracle import from user COMPAS\_KARX001 to user TESTQ\_KARX001 is performed.

Once the schema copy is complete, the following new objects are created:

* Database views:
  + EPIC\_LOSSDAMAGEREASON
  + EPIC\_PERSONS
  + EPIC\_STOCK
  + EPIC\_LTI
  + EPIC\_GEO
* Stored procedure:
  + Package WRITE\_WAYBILL

These newly created objects inside TESTQ\_KARX001 are not being directly accessed. A new oracle user/schema named TESTW\_KARX001 is created and it is granted of read/execute privileges.

## Installation procedure

Download the required software to the destination server. Latest software can be found on GitHub at the following URL: <https://github.com/WFP-Dubai/ETS-Compas>

Connect locally to the destination server with a remote connection tool (i.e. TeamViewer).

Open a command prompt window and change the current directory to SCRIPTS folder inside ETS-Compas.

Enter the following command replacing XXXXNNN and YYYYMMDD with needed Compas station code and timestamp and press ENTER:

0\_install XXXXNNN YYYYMMDD

I.e.:

0\_install KARX001 20120301

Press any key when prompted after having taken notes of any error. Press CTRL-C if there is any blocking error.

The procedure ends leaving the user inside SQLPLUS connected with user TESTW\_XXXXNNN

## Installation procedure explained

The above mentioned procedure is composed of 5 steps each one performed by its own script.

1. Full export
   1. Script name: 1\_full\_export.bat
   2. Parameters:
      1. XXXXNNN (Compas code station i.e. KARX001)
      2. YYYYMMDD (timestamp i.e. 20120301)
   3. This script will call the oracle export utility and will perform a full export of the local database. The produced file will be named compas\_XXXXNNN\_YYYYMMDD.dmp (i.e.: compas\_karx001\_20120301.dmp). This file will be reused in step 3.
2. Destroy and create current environment
   1. Script name: 2\_create\_testq.bat
   2. Parameters:
      1. XXXXNNN (Compas code station i.e. KARX001)
   3. This script will log into Oracle with user sys and SYSDBA privilege. It will drop both TESTQ\_XXXXNNN and TESTW\_XXXXNNN users with all the associated objects. Finally it will create again a brand new user TESTQ\_XXXXNNN along with the necessary privileges.
3. Import
   1. Script name: 3\_import.bat
   2. Parameters:
      1. XXXXNNN (Compas code station i.e. KARX001)
      2. YYYYMMDD (timestamp i.e. 20120301)
   3. This script read the file compas\_XXXXNNN\_YYYYMMDD.dmp and will import every objects that belongs to user COMPAS\_XXXXNN to user TESTQ\_XXXXNN
4. Fix
   1. Script name: 4\_fix.bat
   2. Parameters:
      1. XXXXNNN (Compas code station i.e. KARX001)
   3. This script will handle the know problems occurring during a regular Compas import. It will perform the necessaries “after import steps” and it will compile every objects marked as invalid. At the end of this step the user should ensure that no others invalid objects are left.
5. New objects
   1. Script name: 5\_create\_testq\_newobjs.bat
   2. Parameters:
      1. XXXXNNN (Compas code station i.e. KARX001)
   3. This script will log into Oracle with user TESTQ\_XXXXNNN and it will create the following new objects:
      1. View EPIC\_LOSSDAMAGEREASON
      2. View EPIC\_PERSONS
      3. View EPIC\_STOCK
      4. View EPIC\_LTI
      5. View EPIC\_GEO
      6. Package WRITE\_WAYBILL
   4. This script will also create new roles EPIC\_VIEWONLY and EPIC\_ALL
   5. This script will finally create again the user TESTW\_XXXXNNN assigning to it roles EPIC\_VIEWONLY and EPIC\_ALL
6. Synonyms
   1. Script name: 6\_create\_testw\_syn.bat
   2. Parameters:
      1. XXXXNNN (Compas code station i.e. KARX001)
   3. This script will log into Oracle with user TESTW\_XXXXNNN and it will create database synonyms for TESTQ\_XXXXNNN needed objects.