FENIX Project Requirement <u>Analysis</u>:

Level 0:

In Fenix project client wants to acquire third party source Oracle Store. Oracle XStore is a part of X Office Suite. The purpose of Fenix Project is integration of point of Sale with Oracle XStore. Because of Fenix Project, Creation of customer, Credit sales order, Payments, Return and Refund will be handled by Oracle Xstore.

Integration of Historical data and Transactional Data between Oracle XStore and COSACS is required in FENIX Project

In Scope: To push Historical data from Cosacs to Oracle Xstore and to OCR and Trasnactional Data from Oracle XStore to Cosacs.

Level 1

To push historical Data form COSACS to XStore; OCR (Operational Customer Repository) and transactional data from XStore to Csacs requires file in a custom format specified as .MNT files. Because of the .MNT files data will be encapsulated for a system such as point of Sale system. The motive of Fenix project is to handover the Point of Sale system to Oracle XStore and to ensure end to end integration of Business procesess like merchandising, payments and transactions.

Customer data will be shared as form of historical data of last 4 years.
Salesinfo, payment, inventory will be shared as transactional data.

Level 2

.MNT files will ensure data transfer across the application the parameters and data type in .MNT files are as follows:

Field Name	Type	Size
Action Code	String	Variable
Record Identifier	String	30
Retail Location	Integer	
Business Date(PK)	Date	23
Workstation Id(PK)	BigInt	
Transaction	BigInt	
Line Item Sequence	Integer	
Tax Item Sequence	Integer	
Void Flag	Boolean	5
Taxable Amount	BigDecimal	17.6
Tax Percentage	BigDecimal	17.6
Tax Amount	BigDecimal	17.6
Tax Exemption Id	String	60
Tax Exemption	BigDecimal	17.6
Tax Group ID	String	60
Tax Location ID	String	60
Tax Rule Sequence	Integer	
Authority Id	String	60
Authority Name	String	50
Authority Type Code	String	30
Tax Override Flag	Boolean	5
Tax Override	BigDecimal	17.6
Tax Override	BigDecimal	10.8
Tax Override	String	30

API gateway will be used to transfer the data across system and update the information related to stock in Merchandising (Product Enquiry) on real time basis.

KT Session 1: By Sravani
Part 1: In the Fenix Project client wants to acquire third party source Oracle X Store. XStore is a part of office Suite.
CSR asks if delivery is required if yes, in client application the entry will be Stored.
If No, web POS will process, refunds will be handled in respective systems

All the cash sales order will be handled in XStore POS -> Not Credit only Cash Sales
Only Shipment will be handled in client/web Cosacs

CSR -> Customer comes in for Cash & Go or Delivery
XStore POS -> Create Customer; Create Sales Order; Payment; Return & Refund
Cosacs client/Web -> Shipment & Delivery

 Part 2: As of today, we're integrating cosacs with XStore. XStore needs pre historical data from Cosacs so that it can be revealed for usage of the customer, CSR or Cashier should be able to use it. Secondly, whenever sales order is created on XStore, it has to come to Cosacs i.e Transactional Data. Currently, Team is working on historical data push inform of .MNT files. XStore will have the updated data.
Q. Where will the update take place?
{Onboarding, Credit sales order, Payment, Return & Refund, Reconciliation will happen in XStore}
Transaction data and historical data is about cosacs and XStore integration – only this is in Scope of IGT

Similarly there are other application/Ecosystem in Unicomer here are OCR and Data Lake (Reporting)

OCR-> Operational Customer Repository: Whatever data we have of customer in Cosacs we have to push it in OCR and post integration with XStore, Xstore will push data to OCR {Customer Data} and data to Cosacs {Order Data} for delivery and Shipment purpose.
[When new customer is created on XStore it has to sent to OCR and OCR will send to Cosacs]
Only for customer cosacs has to depend on Order, and transaction related cosacs has to depend on XStore]
Currently, we are working on Pushing Historical Data to Oracle X Store and Partially we have started to analyse pushing Historical data to OCR.

There are two activities not yet started Transaction data and OCR to Cosacs New Customer Data because OCR is yet to be built. <u>Data Lake</u>: Whatever data is created, it should come and dumped here. Used for Report purpose. Data lake is used for Reporting Purpose. Reports generated with OCR will be shared with XStore

POS – TO-BE
Architecture – Corpo

We need to find the dependency of cosacs, piece by piece.

Q. In oracle, XStore we're adding an entry this data should be updating to cosacs?
Whenever there is status update, on the transaction like order has been placed, later we have to assign truck, driver, list according to this oracle XStore has also to be updated.

Part 3: We are getting response from APIGEE. In API Code Base we have segregated APIs into transactional and Non Transactional APIS, Non Transaction API -> Historical Data
Transactional API -> Post Integration Data

These APIs needs to hit the cosacs db at the same time Generated .MNT files.

Q. Where is our team currently?
Our team is currently, building APIs using .MNT files shared by client. 14 APIs we are supposed to deliver. 12 APIs are done, test by client done, team is working to optimize the code. Daily call with client for data validation for these 14 APIs belonging to XStore integration with prehistorical data. Need to take 2 .MNT iles for Xstore integration Historical data.
TO OCR team, present our specifications (Cosacs_ and then be flexible for them to move adjustments since cosacs is legacy system and OCR is New system.

Date: 09th May – Pre – Requisite Discussion

    1)   All the fields in data file shared by client are not there in Cosacs.

{Fenix Interfaces: 15 excel sheet} shared by client to do data mapping}

P Narayan: We need to do walkthrough for the fields in 15 excel sheets data mapping and where to find those on Cosacs.
Many of the fields might not be present in Cosacs and we might need to figure out how we will provide them to XStore.

We need to find how we will put default value there.
- Be specific with field (we need clarification)

API's impact on Cosacs and detailed Impact Analysis

Biren's expectation: Give the information related to .MNT no manipulation in Cosacs, we run a query, create file and share it with XStore.

    2)   Most of the data in .MNT files is of warranty, items, Pricing, transaction

{All the information related to POS is not in .MNT file}, .MNT files is the standard POSt that XStore has asked

3) We need the structure for .MNT files -> format available in price_Update_2(2)
In logic_Unicomer INT Mapping excel sheet we have 12 fields the structure is defined in Price-Update-2(2) file. Price update 2 is the default value for record identifier

Q. Buren: Any file that you have 100% data mapping?
We will use the same configuration for the country deplayment

4) some of the data may not be common for all the country. We are sure few fields in some country in cosacs database is not same for other country.

Code has to be same for all country and not to rewrite.
A core entity of cosacs 'Customer data' wjen we're moving customer data from cosacs to Xstore will have impact on Cosacs.
Biren: we don't want customer's data inside cosacs except that for delivery. But once integration is done, XStore will handle the customer in Cosacs.

We want the data to be centralized, for POS, delivery, Credit.
API in contract will be called to upload the .MNT files

Question from Denis: Did you check Postman collection. We will need permission for API to send the files from Cosacs to XStore.

Data Transfer Approaches.
1) Using stored Procedure and SQL tables
2) Using API service to fetch the data fro table and generate the MNT files same will be uploading.
3) DTS – Data Transfer from database to files.

.MNT files will be used daily?
Should be able to be automated. For files to be generated Automatically, we have windows job scheduler or API with some Trigger points.
Other approach is welcome as well.
We need a list of files which will be used periodically.

For very first installation time we will transfer the .MNT files, other things needs to be periodic.
As per Biren when centralized database will be deployed, the price update should be spontaneous.

A web page manual where we will update the price
Architecture Diagram needs to be shared with Client.
The fields should be updated periodically or automatically should be configurable as simply as changing yes to no. for Periodic to non periodic.

We might need database of last 4 years with filter of last 6 months of transaction with Warranty code.