



Hewlett Packard
Enterprise

MicroStrategy PharmaSales QuickStart

HPE Vertica Analytic Database

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What is a QuickStart Application?

The HPE Vertica QuickStarts are sample applications that show how complementary technologies can work together to deliver outstanding benefits to end users. Each QuickStart uses a different BI client tool with the HPE Vertica Analytic Database. Each BI client is a product of a Vertica technology partner.

The QuickStarts are available for download free of charge on the [HPE Big Data Marketplace](#) in the QuickStart Examples category.

About this Document

This document explains how to deploy and use the Vertica QuickStart for MicroStrategy Pharma App. The document includes the setup information that you need to get up and running, and it provides an overview of the MicroStrategy dashboards and the Vertica data sources.

HPE Vertica QuickStart for MicroStrategy Overview

The Vertica QuickStart for MicroStrategy is a Pharma Sales application based on iOS, implemented as a set of MicroStrategy Pharma App dashboards powered by Vertica Analytic Database. The dashboards presents Pharma Sales application for mobiles and tablets. The QuickStart shows how companies could use Vertica and MicroStrategy to quickly explore, visualize, and gain insight into their data stored in Vertica.

Download the QuickStart

To download the QuickStart:

- 1. Go to the [HPE Big Data Marketplace](#) and log in with your Marketplace credentials.**
- 2. Select QuickStart Examples.**
- 3. Select HPE Vertica QuickStart for MicroStrategy Partner.**
- 4. Click Download.**

The contents of the QuickStart package

Navigate to the folder where the downloaded compressed file exists and extract the contents. The QuickStart package contains the following folders:

- **PharmaSales_Vertica**

- **PharmaSales(Compressed folder)**

The first folder contains script files to create and populate required tables. It contains: Tables_DDL_Pharma.sql, PharmaSalesInserts.sh and Table data files. The script file and Table data files are located in the folder Table_Data.

The second compressed folder contains TEMPMD.bak and folder PharmaSales. The folder PharmaSales contains required files for dashboard.

- **TEMPMD.bak:** This is a backup file for the metadata database. It is based on SQL server 2102.
- **Tables_DDL_Pharma.sql:** This sql file contains the DDL statements needed to create datawarehouse into Vertica
- **PharmaSalesInserts.sh:** This is a script file to populate the Pharma Sales app datawarehouse.
- **Table data files:** These files are in .txt format. They are needed by PharmaSalesInserts.sh script file to populate tables.

Requirements

The Vertica QuickStart for Pharma Sales app, requires Vertica database server 8.0, Vertica's odbc driver, SQL Server 2012 and MicroStrategy 10.5.

Pre-Requisite

To install the software that is required for running the QuickStart, follow these steps:

- 1) Install the vertica database server.
- 2) Download and Install Vertica ODBC Client drivers.
- 3) Install MicroStrategy 10.5 Server. (Include MicroStrategy Mobile)
- 4) Install SQL Server 2012

Commented [AJ1]: Is it a good idea to mention where the Microstrategy needs to be install. Is it a Server or desktop? Where should be SQL Server installed

Commented [RH2R1]: We need to install MSTR server and include MSTR mobile server. SQL Server can be installed anywhere. That will host Metadata for PharmaSales.

Install Vertica Database Server

The Vertica database server runs on Linux platforms. If you do not have Vertica, you can download the RPMs or a virtual machine free of charge from the Vertica Community Portal at my.vertica.com/.

To download and install Vertica Community Edition:

1. On my.vertica.com, click Community Edition to register for a Community Edition Account.
2. Provide your information and click signup.
3. Follow the on-screen instructions to download and install Vertica Community Edition.

Creating Database "Vertica_PharmaSales" In Vertica:

To create database in Vertica, follow the steps as per given link [creating vertica db](#).

The Vertica quickstart for Pharma Sales connects to a datawarehouse. The data is provided in txt files.

Following are the instructions to create the database and load the data from the txt file into the Pharma Sales datawarehouse in your Vertica database.

Follow the steps:

Step-1) To load the data you need to create a database "Vertica_PharmaSales" (User is free to give any db name).

Place the folder 'PharmaSales_Vertica' as per user preference.

Run Table DDL sql file as per command:

```
$ /opt/vertica/bin/vsql -p xxxx -U xx -w xx -A -f /path/Tables_DDL_Pharma.sql
```

This file will create all the tables in the above created vertica database. Edit the above command as per valid port number, user, password and sql file location.

Step-2) After executing the above statement check whether the tables are created, by using command `"/d"` in vsql and using the command below:

```
grep -i "create" /path/Tables_DDL_Pharma.sql | sed 's/CREATE TABLE public./ /g'
```

Compare the table names.

Commented [AJ3]: There are no instruction below for creating the database.
Please get the reference to the Vertica document on creating the database.

Commented [RH4R3]: ok

Commented [RH5R3]: A link 'creating vertica db' is provided

Commented [RH6R3]:

```
g1=> \d
```

List of tables				
Schema	Name	Kind	Owner	Comment
public	DrugMarkets	table	g1	
public	DrugPhase	table	g1	
public	DrugsPrices	table	g1	
public	F_DailyAll	table	g1	
public	F_DailyAll_bkp	table	g1	
public	F_DailyCompetition	table	g1	
public	F_DailyGower	table	g1	
public	F_DailyTouchPoints	table	g1	
public	F_DailyTouchPoints_bak	table	g1	
public	LU_AccountExecutive	table	g1	
public	LU_Accounts	table	g1	
public	LU_Companies	table	g1	
public	LU_Dates	table	g1	
public	LU_DatesHolidays	table	g1	
public	LU_DrugPhase	table	g1	
public	LU_Drugs	table	g1	
public	LU_Geography	table	g1	
public	LU_InsCompanies	table	g1	
public	LU_InsPlans	table	g1	
public	LU_Practitioners	table	g1	
public	LU_PractitionersPhoto	table	g1	
public	LU_PractitionersSchool	table	g1	
public	LU_PractitionersSpecialty	table	g1	
public	LU_Touchpoint_Type	table	g1	
public	PractitionerSpecs	table	g1	
public	TR_Comments	table	g1	
public	Task_Transaction	table	g1	
public	Touchpoint_Log	table	g1	

(28 rows)

Loading data from txt into Vertica_PharmaSales database Tables :

Step-1) Open the folder Table_Data. **This folder will be inside the folder**
 '....\PharmaSales_QuickStart\PharmaSales_Vertica\PharmaSales_Scripts'

Step-2) Grant the 'execution' permission to the file 'PharmaSalesInserts.sh'.

Step -3) Run the command

Edit the script file as per valid port number, user and password. Run the script file for populating the tables.

\$./PharmaSalesInserts.sh

Step -4) Check the table whether the data is loaded into the table . For example take Table 'DrugMarkets' . The sample data will look like:

```

ql=> select * from DrugMarkets;
-----
Therapy      | Therapy_ID | Market_ID | Market
-----
Cardiology / Vascular | CVAS      | AAF SPAF  | Afib & SPAF
Cardiology / Vascular | CVAS      | ACS       | Acute Coronay Syndrome
Cardiology / Vascular | CVAS      | CAD       | Chronic Coronary Artery Disease
Cardiology / Vascular | CVAS      | HF        | Heart Failure
Cardiology / Vascular | CVAS      | PAD       | Peripheral Arterial Disease
Cardiology / Vascular | CVAS      | PAH       | Pulmonary Hypertension
Cardiology / Vascular | CVAS      | STK       | Stroke
Cardiology / Vascular | CVAS      | VT        | Venous Thrombosis

```

Verify the number of rows loaded by the script for each table as per below table:

DrugMarkets	37
DrugPhase	146
DrugsPrices	3696
F_DailyAll	1136802
F_DailyAll_bkp	1136802
F_DailyCompetition	30816
F_DailyGower	1105986
F_DailyTouchPoints	276811
F_DailyTouchPoints_bak	276811
LU_AccountExecutive	295
LU_Accounts	198
LU_Companies	6
LU_Dates	2557
LU_DatesHolidays	70
LU_DrugPhase	3
LU_Drugs	132
LU_Geography	51
LU_InsCompanies	5
LU_InsPlans	22
LU_Practitioners	6139
LU_PractitionersPhoto	108
LU_PractitionersSchool	167
LU_PractitionersSpecialty	71
LU_Touchpoint_Type	4
PractitionerSpecs	6757
TR_Comments	9
Task_Transaction	1499

Commented [AJ7]: What is the output for?

Commented [RH8R7]: That was snapshot of script file.
Snapshot removed.

MicroStrategy 10.x

MicroStrategy runs on Windows or Linux. If you do not have MicroStrategy 10.x, you can download and install it as follows:

1. Go to the [MicroStrategy website](#).
2. Review the [system requirements](#).
3. Download the installation file that matches your operating system.
4. Launch the executable.
5. Follow the prompts to install Tableau.

ODBC Client Driver

MicroStrategy uses ODBC to connect to Vertica. The ODBC drivers for Vertica are part of a Vertica client package.

Download and Install the ODBC Driver on Windows

1. Go to <https://my.vertica.com/download/vertica/client-drivers/>.
2. Download the Vertica client package that matches your operating system (32- or 64-bit) and your version of the Vertica database.
3. As Windows Administrator, launch the installer and follow the prompts to install ODBC.

Download and Install the ODBC Driver on Linux

For Vertica 7.1 SP2 and later:

1. Go to <https://my.vertica.com/downloads/>.
2. Download the Vertica client package for Linux.
3. Launch the installer and follow the prompts to install ODBC.

Restore Metadata database on SQL Server 2012

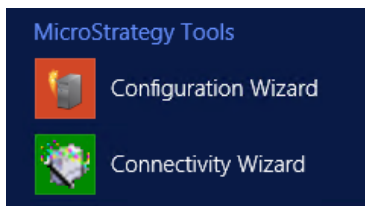
To restore the metadata database on SQL Server 2012, use file TEMPMD.bak:

1. Open the sql server. Authenticate yourself
2. Right click and choose 'Restore Database' and follow the prompt.

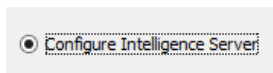
Configure Intelligence Server to Connect to Pharma Sales App:

Open Configuration Wizard under MicroStrategy tools. To open the 'Configuration Wizard' client follow as below:

1. Click windows 'Start' icon
2. Under the 'MicroStrategy Tools' ,click 'Configuration Wizard' client

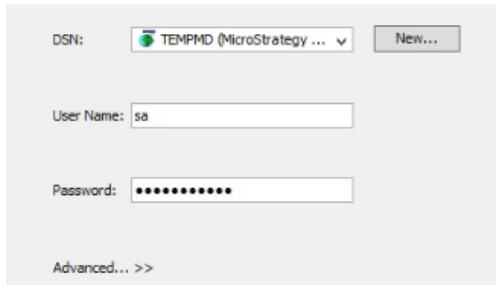


3. Select 'Configure Intelligence Server'. Click 'Next'



User needs to configure the intelligence server to point the server to TEMPMD(Metadata repository of Pharma Sales).

Provide the DSN, Host, port, db user details during configuration. User either can create DSN at the Windows level or click 'New'



DSN: TEMPMD (MicroStrategy ... New...

User Name:

Password:

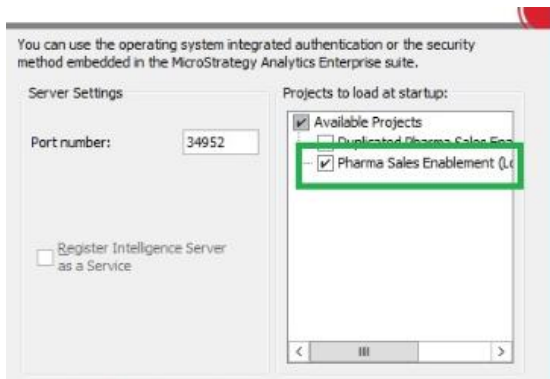
Advanced... >>

Commented [AJ9]: What are they executing to get the window that you have displayed here

Commented [RH10R9]: Configuration Wizard is a client

Keep on clicking 'Next'.

Under available projects, check 'Pharma Sales Enablement' project



You can use the operating system integrated authentication or the security method embedded in the MicroStrategy Analytics Enterprise suite.

Server Settings

Port number:

☐ Register Intelligence Server as a Service

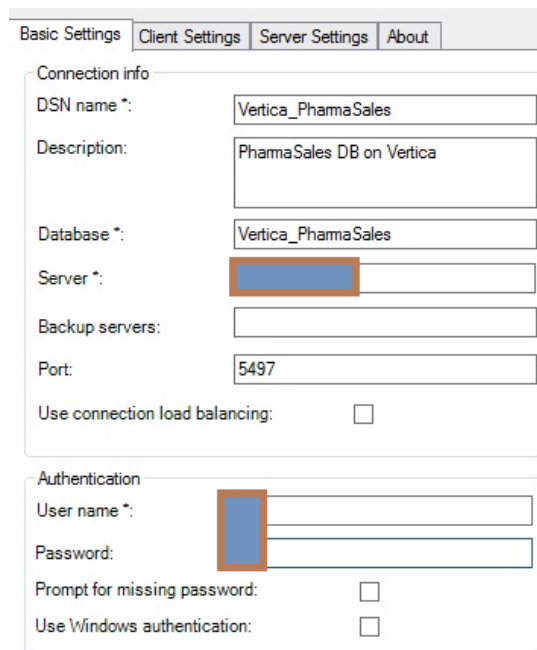
Projects to load at startup:

- ☒ Available Projects
- ☐ Duplicated Pharma Sales Enablement
- ☒ Pharma Sales Enablement (Local)

Click Next and finally Click Finish.

Create DSN for Vertica_PharmaSales database on Local Machine for MicroStrategy:

Create DSN for vertica database on the machine which hosts the MicroStrategy tool. User can use any port. The below screenshot is for indicative purpose only.



Basic Settings | Client Settings | Server Settings | About

Connection info

DSN name *: Vertica_PharmaSales

Description: PharmaSales DB on Vertica

Database *: Vertica_PharmaSales

Server *: [Redacted]

Backup servers:

Port: 5497

Use connection load balancing: ☐

Authentication

User name *: [Redacted]

Password: [Redacted]

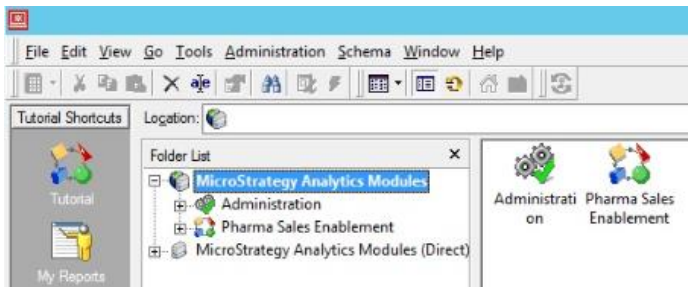
Prompt for missing password: ☐

Use Windows authentication: ☐

Configure Project Pharma Sales Enablement on MicroStrategy Developer:

Project Pharma Sales Enablement needs to be configured before running the dashboards. It can be configured in following steps:

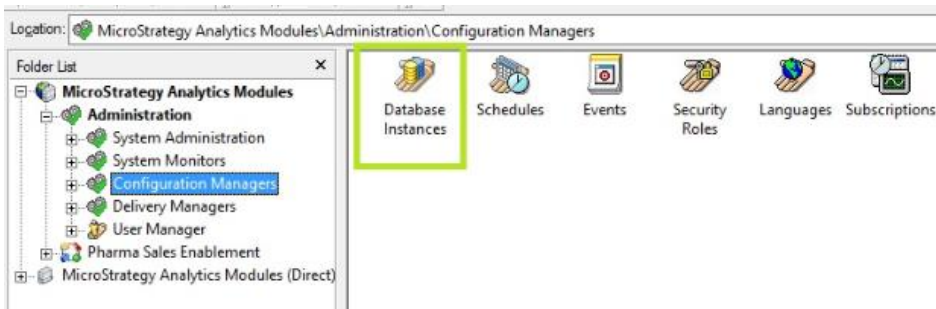
Step 1: Open MicroStrategy Developer client and connect to the intelligence server where Pharma Sales Enablement Project was configured.

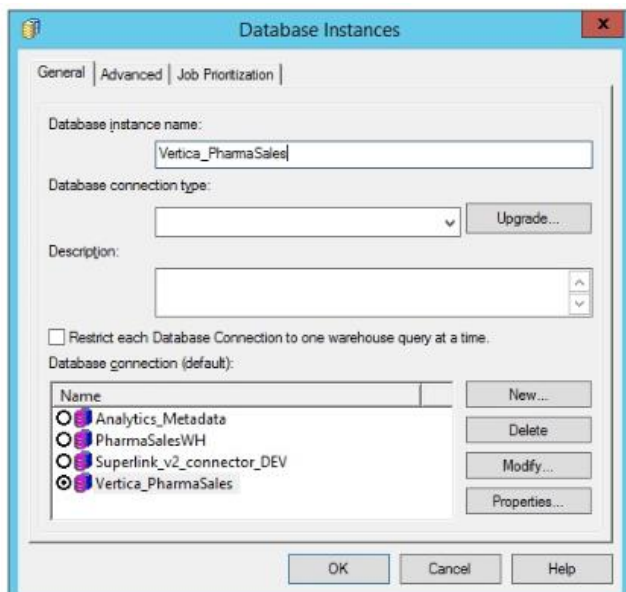
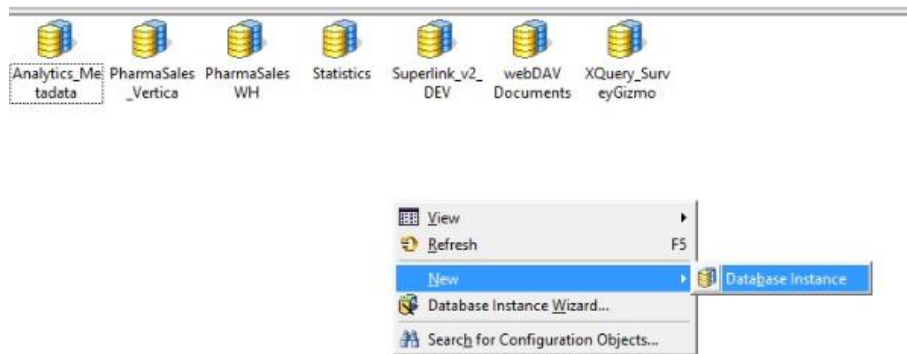


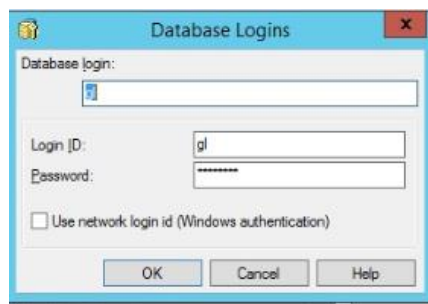
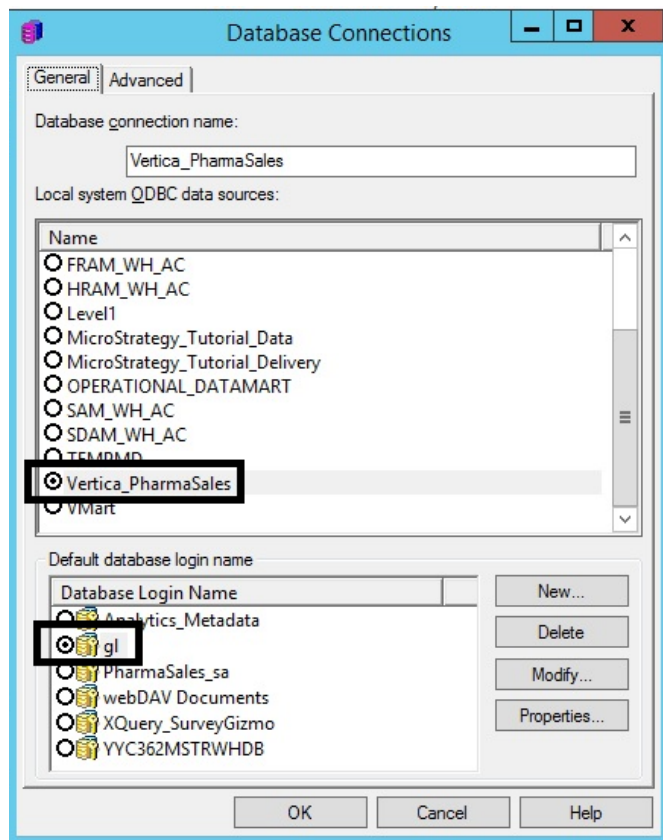
Step 2: Create the Database instance for Vertica database.

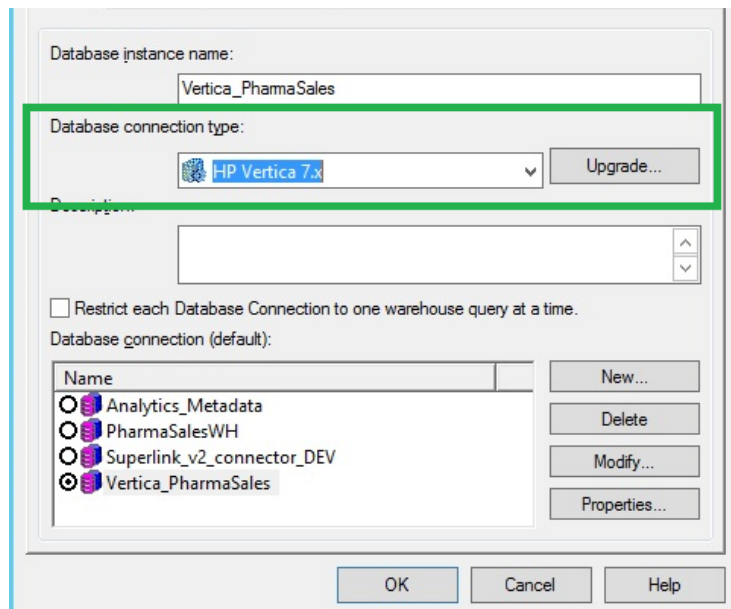
Open Administration->Configuration Manager->Database Instances

Create the instance using HPVertica 7.x. Link to local ODBC connection created for vertica database.



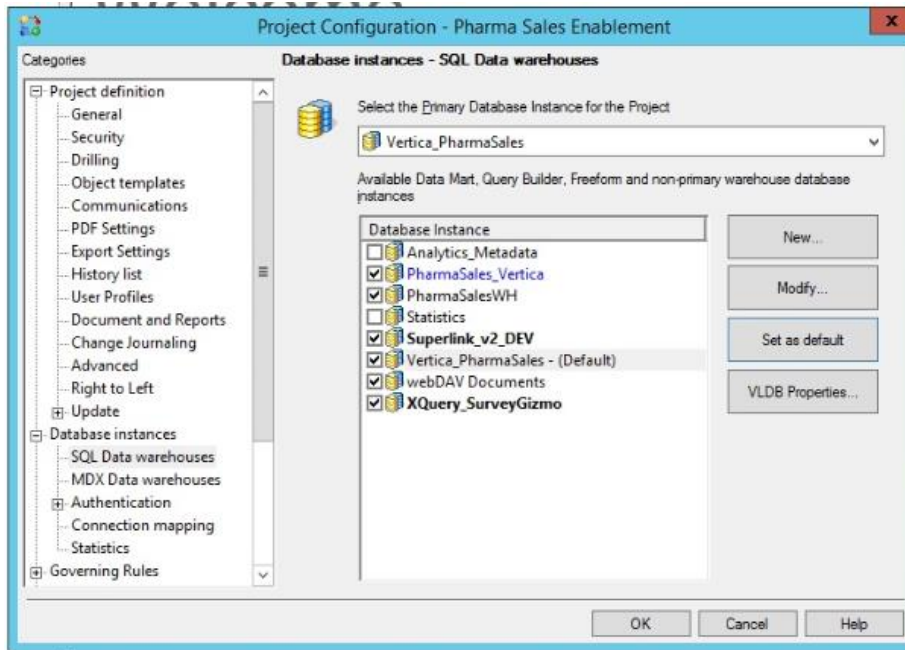






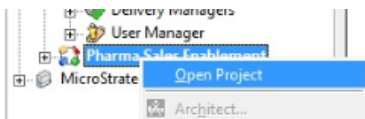
Step 3: Restart the server. Select the Project 'Pharma Sales Enablement'. Right Click and choose Project Configuration->Database Instances.

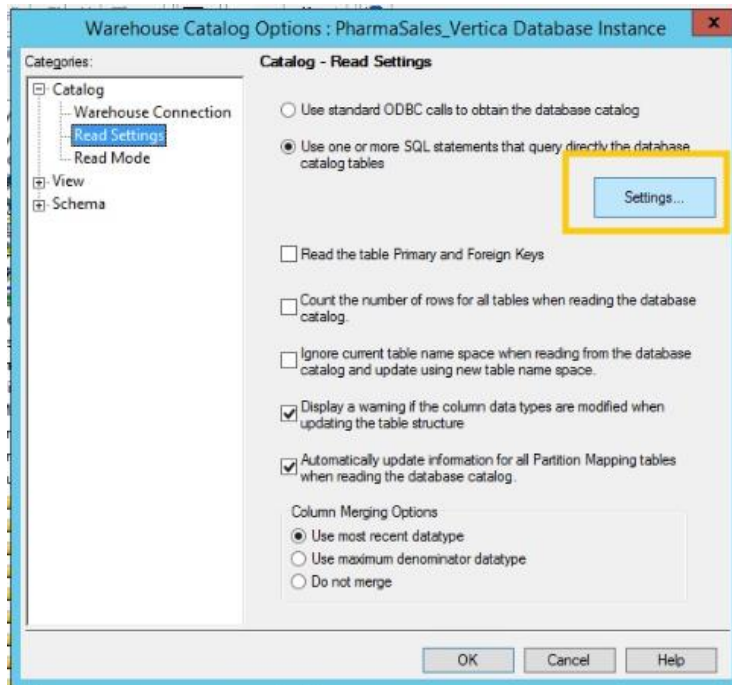
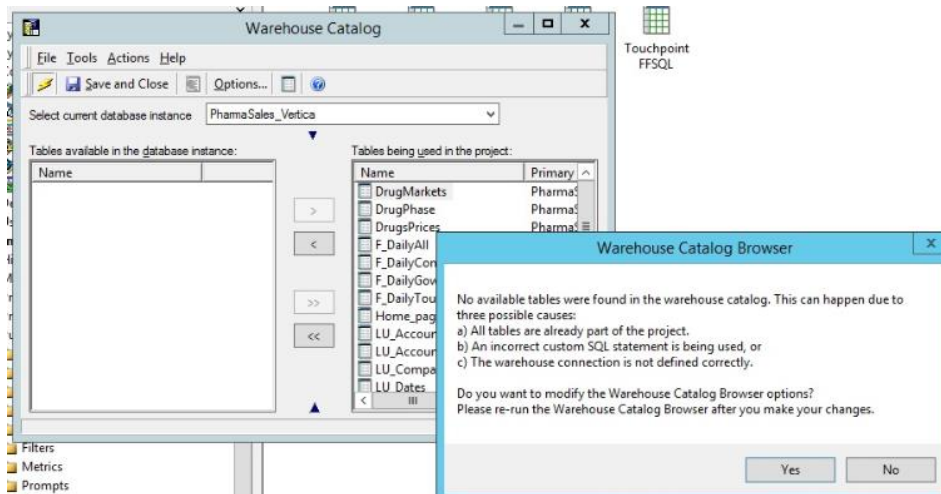
Point Primary database instance to the above created instance. In the list, select the created instance as default.

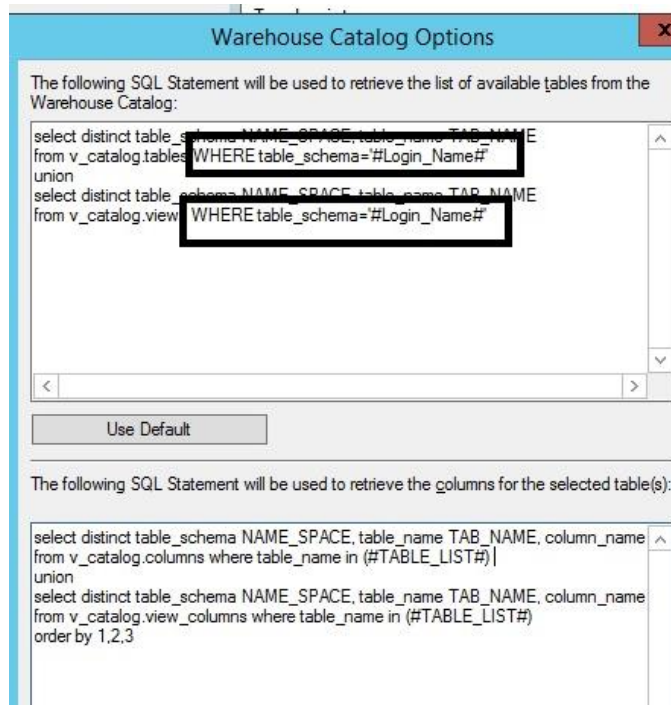


Step 4: Open Project. Go to Schema->Warehouse Catalog. Configure Read settings if asked. Remove the where clause from upper section. All table should be appear in the selection panel. Save and Close.

Choose Update Schema under Schema tab. Restart the server. Cross check the DB instance settings.







The following SQL Statement will be used to retrieve the list of available tables from the Warehouse Catalog:

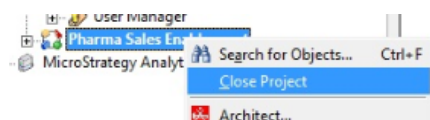
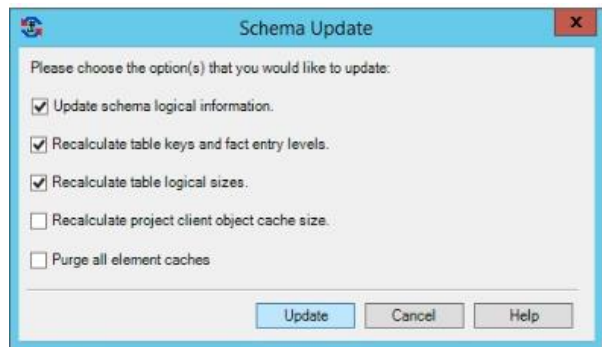
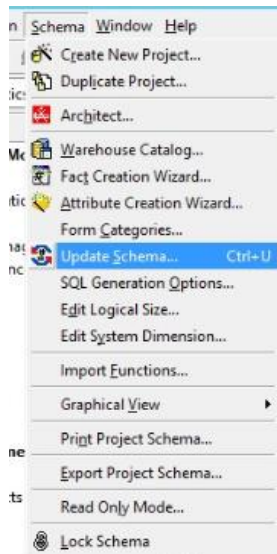
```
select distinct table_schema NAME_SPACE, table_name TAB_NAME  
from v_catalog.tables WHERE table_schema=#Login_Name#  
union  
select distinct table_schema NAME_SPACE, table_name TAB_NAME  
from v_catalog.view WHERE table_schema=#Login_Name#
```

Use Default

The following SQL Statement will be used to retrieve the columns for the selected table(s):

```
select distinct table_schema NAME_SPACE, table_name TAB_NAME, column_name  
from v_catalog.columns where table_name in (#TABLE_LIST#)  
union  
select distinct table_schema NAME_SPACE, table_name TAB_NAME, column_name  
from v_catalog.view_columns where table_name in (#TABLE_LIST#)  
order by 1,2,3
```

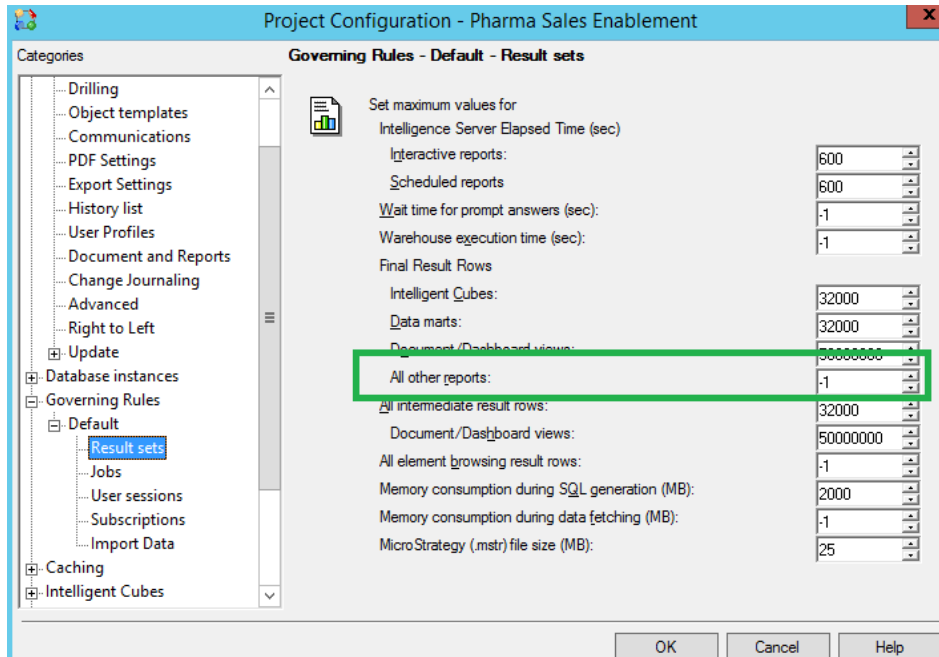
The image shows a 'Warehouse Catalog Options' dialog box. It contains two sections for SQL statements. The first section is for retrieving a list of available tables, and the second is for retrieving columns for selected tables. Both sections have a 'Use Default' button. The SQL statements use placeholders like #Login_Name# and #TABLE_LIST#.



Step 5: Open the Project.

Right Click and choose Project Configuration->Governing Rules->Result Sets

For option, 'All other reports:' edit the value to '-1'



Close the project and reopen.

Step 6: Go to Public Objects->Reports->Mobile Apps->iOS.

There will be two folders:

- Phone
- Tablet

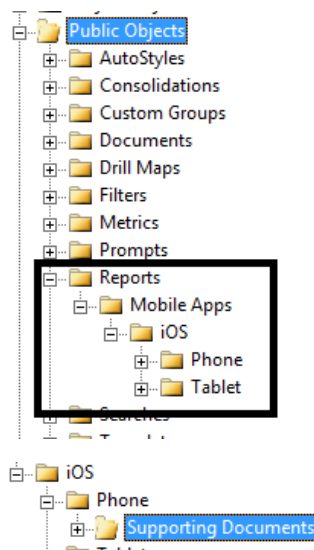
For 'Phone' folder, choose supporting documents folder. We need to edit two reports.

- Phone_TASK_FFSQL
- Touchpoint FFSQLPhone

For 'Tablet' folder, choose supporting documents folder. We need to edit three reports under folder 'Datasets'.

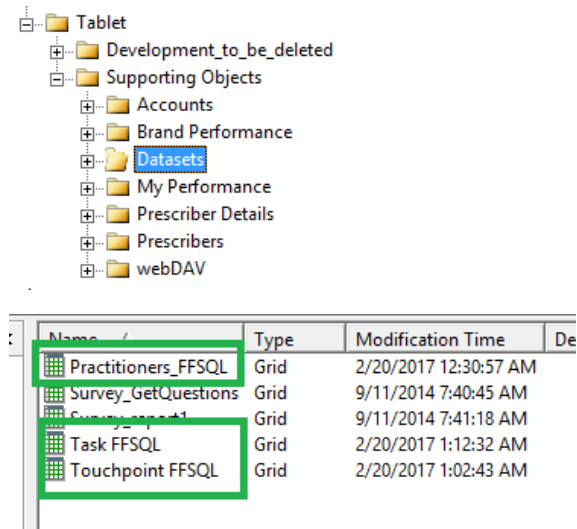
- Practitioners_FFSQL
- Touchpoint_FFSQL
- TASK_FFSQL

PHONE FOLDER REPORTS:



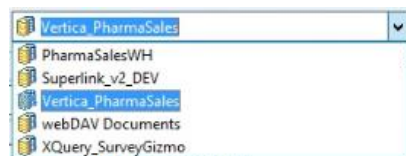
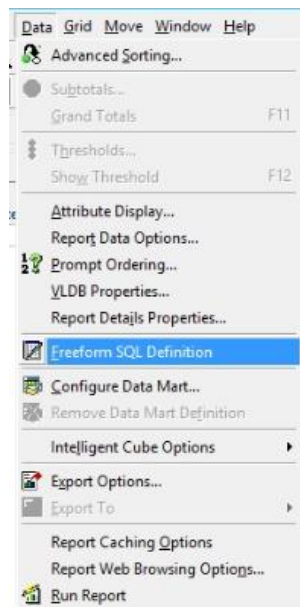
Name	Type	Modification Time	Descripti...
Promts	Folder	9/11/2014 7:43:28 AM	
InserTaskPhone	Transaction	8/7/2014 7:39:52 AM	
InserTouchpointPhone	Transaction	8/7/2014 7:39:52 AM	
Phone Task FFSQL	Grid	2/20/2017 2:22:20 AM	
Task Logger	Document	9/11/2014 7:47:17 AM	
Touchpoint FFSQLPhone	Grid	2/20/2017 2:26:05 AM	
Touchpoint Log	Document	8/7/2014 7:38:54 AM	
Touchpoints Logger	Document	8/7/2014 7:38:54 AM	

TABLET FOLDER REPORTS:



Follow the below steps to edit the above mentioned reports:

1. Select the report and choose edit by right clicking on it.
2. Under tab 'Data' , select 'Freeform SQL Definition' option.
3. Change the default database instance 'PharmaSalesWH' to Vertica based database instance.
4. Rewrite the Freeform SQL as per vertica database.
5. Click OK
6. Click Save and Close



```
SELECT t.Task_TransactionID, t.DoctorID, p.Practitioner_DESC, t.DueDate, t.Assignment, t.BrandID, d.Drug_Desc, RTRIM(Signature)
FROM Task_Transaction as t
LEFT OUTER JOIN LU_Practitioners as p
ON t.DoctorID=p.Practitioner_ID
LEFT OUTER JOIN LU_Drugs as d
ON t.BrandID=d.Drug_ID
where Device_ID LIKE '[Mobile ID]' OR Device_ID LIKE 'I'
```

Either create own custom sql or use the below sqls for replacing the existing Freeform SQL

<<PHONE Folder>>

##Phone_TASK_FFSQL

```
SELECT t.Task_TransactionID, t.DoctorID, p.Practitioner_DESC, t.DueDate, t.Assignment,  
t.BrandID, d.Drug_Desc, RTRIM(t.Signature)  
  
FROM Task_Transaction as t  
  
LEFT OUTER JOIN LU_Practitioners as p  
ON t.DoctorID=p.Practitioner_ID  
  
LEFT OUTER JOIN LU_Drugs as d  
ON t.BrandID=d.Drug_ID  
  
where Device_ID LIKE '[?58753AB549FDEEFA26A60F84B3E10FD8[?' OR Device_ID LIKE '1'
```

##Touchpoint FFSQLPhone

```
SELECT  
  
    DATE(t.TP_Date) AS DATE  
  
    ,t.Prescriber_ID  
  
    ,p.Practitioner_DESC  
  
    ,t.Touchpoint_Type  
  
    ,d.Drug_ID  
  
    ,d.Drug_Desc  
  
    ,t.Quantity  
  
    ,t.Comments  
  
    ,t.Transaction_ID  
  
    ,c.Touchpoint_Type_DESC
```

```
,RTRIM(t.Signature)

FROM Touchpoint_Log t
LEFT OUTER JOIN
    LU_Practitioners p
ON      t.Prescriber_ID= p.Practitioner_ID

LEFT OUTER JOIN
    LU_Drugs d
ON      t.Brand_ID=d.Drug_ID

LEFT OUTER JOIN
    LU_Touchpoint_Type as c
ON      t.Touchpoint_Type=c.Touchpoint_Type
where t.Device_ID LIKE '[?58753AB549FDEEFA26A60F84B3E10FD8[?]' OR t.Device_ID LIKE
'1'

ORDER BY t.Transaction_ID DESC
```

<<TABLET Folder>>

##Practitioners_FFSQL

```
select Practitioner_ID,Practitioner_DESC from LU_Practitioners order by Practitioner_ID desc
limit 20
```

##Touchpoint_FFSQL

```
SELECT
```

```
DATE(t.TP_Date) AS DATE
,t.Prescriber_ID
,p.Practitioner_DESC
,t.Touchpoint_Type
,d.Drug_ID
,d.Drug_Desc
,t.Quantity
,t.Comments
,t.Transaction_ID
,c.Touchpoint_Type_DESC
,RTRIM(t.Signature)
,SYSDATE
FROM Touchpoint_Log t
LEFT OUTER JOIN
    LU_Practitioners p
ON      t.Prescriber_ID= p.Practitioner_ID

LEFT OUTER JOIN
    LU_Drugs d
ON      t.Brand_ID=d.Drug_ID

LEFT OUTER JOIN
    LU_Touchpoint_Type as c
ON      t.Touchpoint_Type=c.Touchpoint_Type
where t.Device_ID LIKE " OR t.Device_ID LIKE '1'
```

ORDER BY t.Transaction_ID DESC

##TASK_FFSQL

SELECT t.Task_TransactionID, t.DoctorID, p.Practitioner_DESC, t.DueDate, t.Assignment,
t.BrandID, d.Drug_Desc, RTRIM(t.Signature)

FROM Task_Transaction as t

LEFT OUTER JOIN LU_Practitioners as p

ON t.DoctorID=p.Practitioner_ID

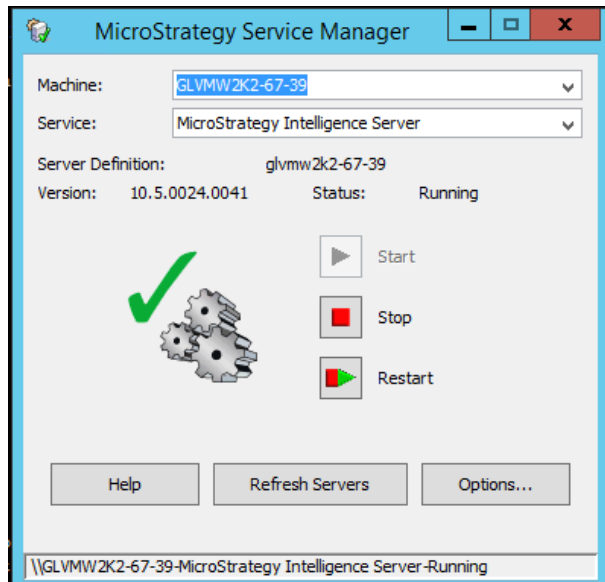
LEFT OUTER JOIN LU_Drugs as d

ON t.BrandID=d.Drug_ID

where Device_ID LIKE '[?58753AB549FDEEFA26A60F84B3E10FD8[?]' OR Device_ID LIKE '1'

Running the Dashboards on MicroStrategy Web:

Open 'Service Manager' located under 'MicroStrategy Tools'. Restart the MicroStrategy Intelligence server.

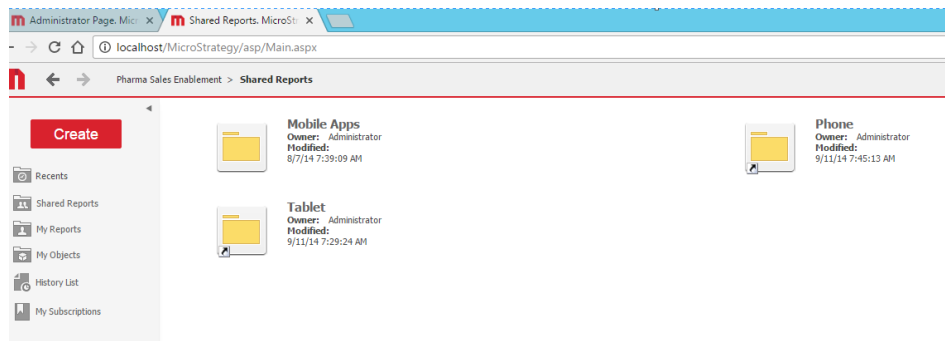


Open the project in Web. Before opening the 'Web' client, open the 'Web Administrator' (Under MicroStrategy Tools) client. Add the intelligence server name in case not displayed.

Commented [AJ11]: What server one needs to start?

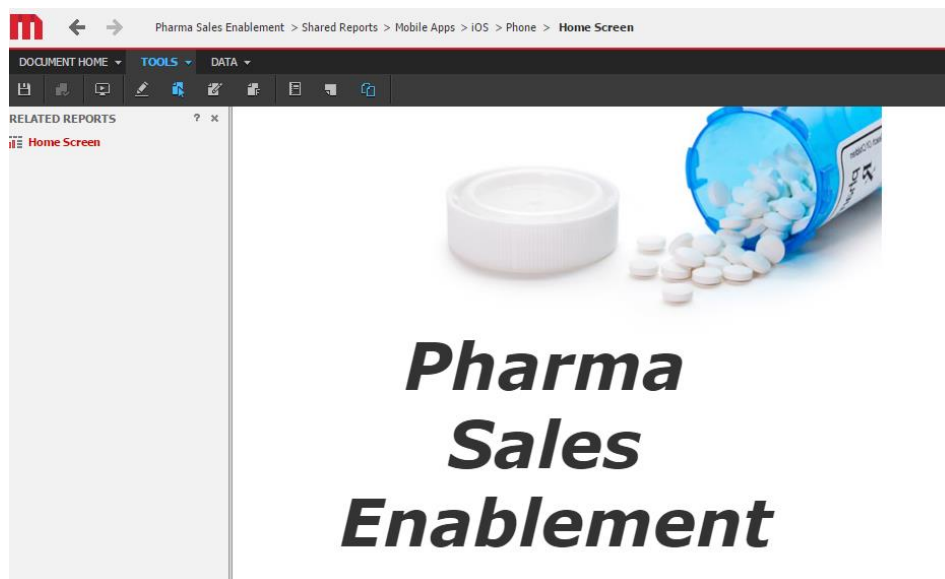
Connected servers:						
Cluster	Server name	Connect mode	Loaded	Maximum pool size	Action	Properties
1	GLVMW2K12-67-199	User manually connects Web to Intelligence Server	0	50	Disconnect	

After this configuration, open 'Web Client'. (Under MicroStrategy Products)

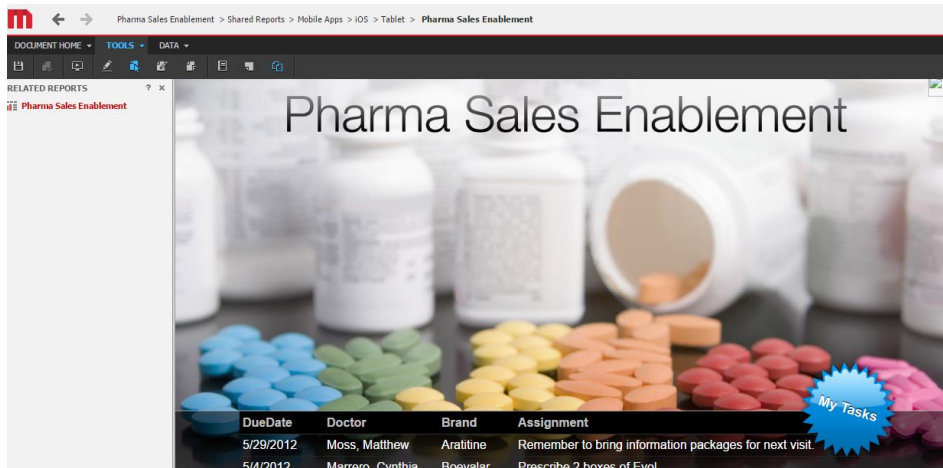


Dashboards are located under 'Shared Reports'. You can run any dashboard located inside Mobile Apps folder. It contains folder iOS. Phone & Tablet are two sub-folders inside iOS.

When you will run the dashboard Home Screen, you will see as below:



When you will run the dashboard Pharma Sales Enablement, you will see as below:



Running the Pharma App on MicroStrategy Mobile:

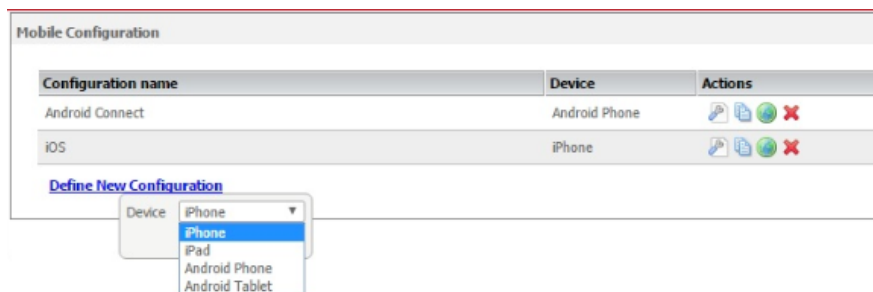
Pharma App is primarily mobile based application on iOS. User need to configure Mobile server to use the application.

Install the MicroStrategy Mobile in case not installed. Connect to Web Server and connect the intelligence server where Pharma app has been hosted. Open Mobile server and connect to the server.



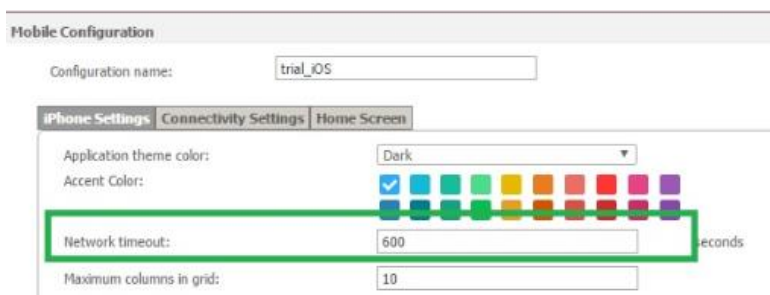
Click 'Mobile Configuration' option. Select 'Define New Configuration'. Under 'Device' dropdown, choose the option as per hardware. We have used iPhone for the purpose.

It should be noted that, the device must have the MicroStrategy mobile client. If intelligence server needs vpn to connect, device must be connected through vpn to reach mobile server.



Follow the below steps:

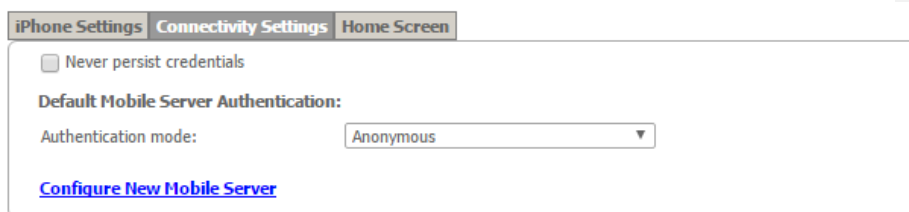
- Under 'iPhone Settings' tab, provide the Configuration name and put 'Network timeout' as 600.



- Under 'Connectivity Settings' tab, select 'Authentication' mode as 'Windows'. Click 'Configure New Mobile Server'. Provide the Mobile Server ip in 'Mobile Server name'. Uncheck 'Use default

authentication'. Provide 'Authentication mode' as 'Windows'. Provide Windows login credentials.

Under 'Default Project Authentication', provide 'Authentication mode' as 'Standard' and provide MicroStrategy credentials.



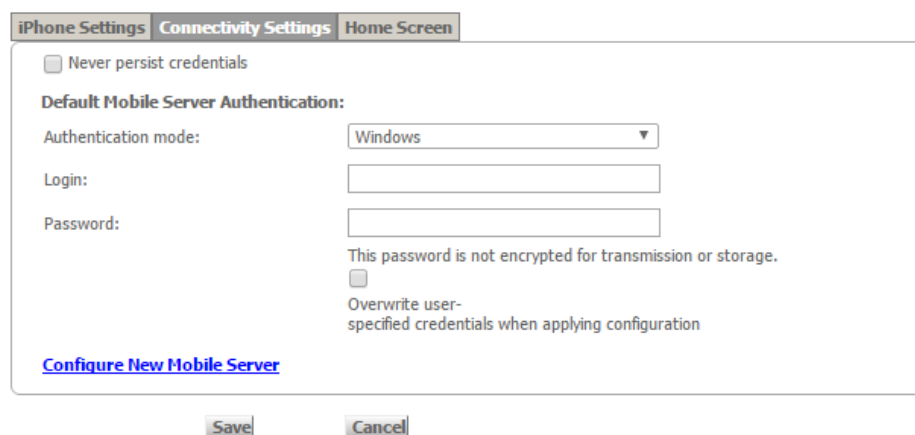
iPhone Settings Connectivity Settings Home Screen

☐ Never persist credentials

Default Mobile Server Authentication:

Authentication mode: Anonymous ▼

[Configure New Mobile Server](#)



iPhone Settings Connectivity Settings Home Screen

☐ Never persist credentials

Default Mobile Server Authentication:

Authentication mode: Windows ▼

Login:

Password:

This password is not encrypted for transmission or storage.

☐ Overwrite user-specified credentials when applying configuration

[Configure New Mobile Server](#)

Save Cancel

172.16.67.168

Mobile Server name: 172.16.67.168 [Delete Mobile Server](#)

Mobile clients access this server using the following external names:

Mobile Server port: 80

Mobile Server path: MicroStrategyMobile

Mobile Server type: ASP.NET

Request type: HTTP

☐ Use default authentication

Authentication mode: Windows

Login: Administrator

Password: *****

This password is not encrypted for transmission or storage.

☐

Overwrite user-specified credentials when applying configuration

Default Project Authentication:

Authentication mode: Standard

Login: Administrator

Password:

This password is not encrypted for transmission or storage.

☐

Overwrite user-specified credentials when applying configuration

Click 'Configure New Project'.

[Configure New Project](#)

Pharma Sales Enablement (GLVMW2K2-67-199) Delete project

Project Name: Pharma Sales Enablement (GLVMW2K)

☒ Use default authentication

☐ Use root folder:

Authentication mode: Standard

Select the project 'Pharma Sales Enablement' from drop down against 'Project Name'. 'Authentication mode' should be displayed as 'Standard'.

- Go to the tab 'Home Screen'.

iPhone Settings Connectivity Settings Home Screen

☒ Display the default home screen

☒ Display the contents of a folder

☐ Check subscription

☐ Pre-cache contents at startup

▼ Select light weight reconcile reports/documents

☐ Display a custom home screen

Save Cancel

Choose 'Display the contents of a folder' and click drop down icon at the right side.

Display the default home screen

☒ Display the contents of a folder

☐ Check subscription

☐ Pre-cache contents at startup

▼ Select light weight reconcile reports/documents

☐ Display a custom home screen

Save Cancel

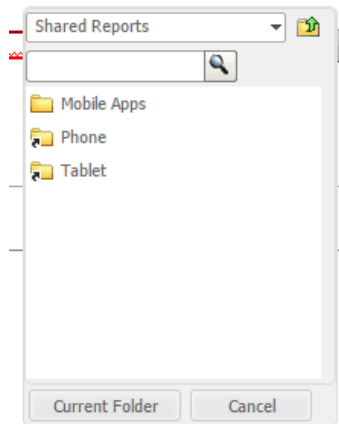
Project: Pharma Sales Enablement(GLVMW2K2-67-199)

User name:

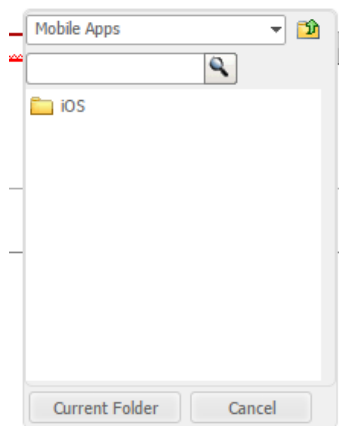
Password:

Login Cancel

Provide the MicroStrategy Project credentials and click 'login'.




Click the folder 'Mobile Apps'.



Click 'Current Folder'. The path of the folder will be displayed against 'Display the contents of a folder' radio button. Finally Click on 'Save'

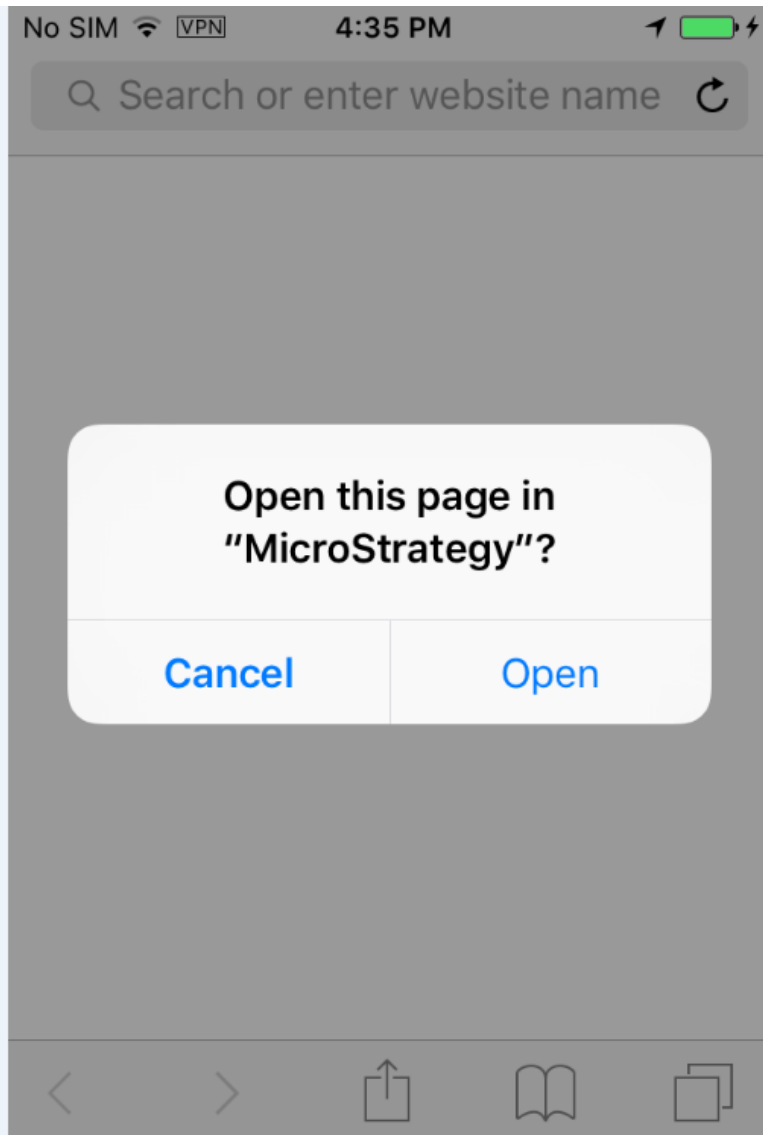
4. Saved configuration will be listed as shown below:

Mobile Configuration		
Configuration name	Device	Actions
Android Connect	Android Phone	  
iOS	iPhone	  

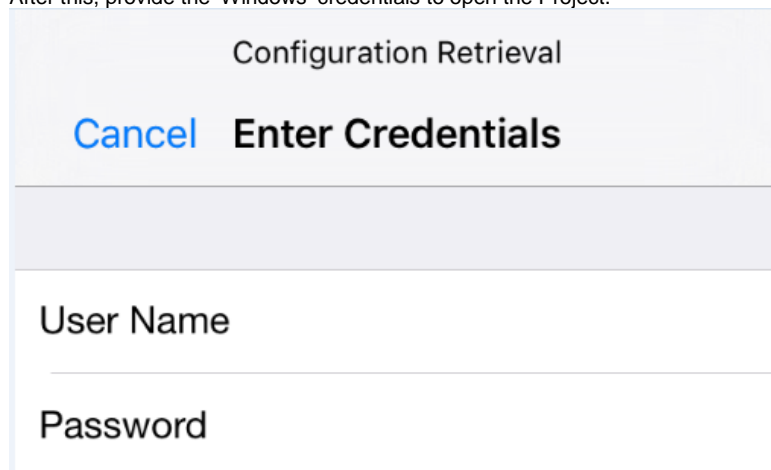
Click 'Generate URL' third shape icon as circle.

Check the entries. All entries should match as shown above. Finally Click 'Generate URL' button.

Copy the URL and paste in browser. A pop up will ask user 'Open this page in "MicroStrategy"?'. Click 'Open'.

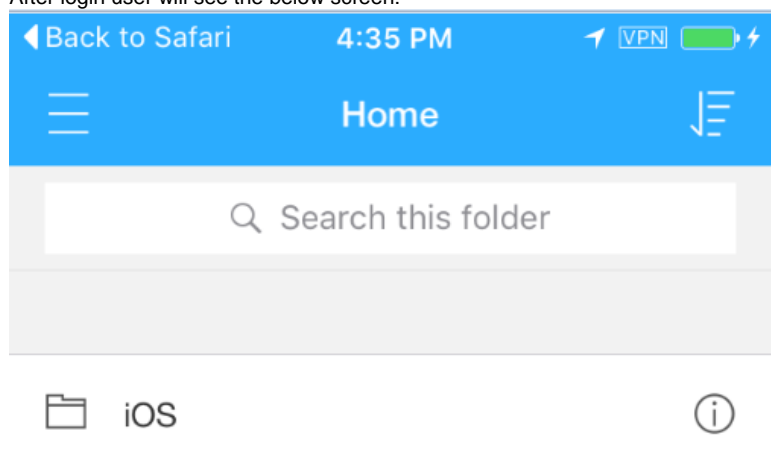


After this, provide the 'Windows' credentials to open the Project.

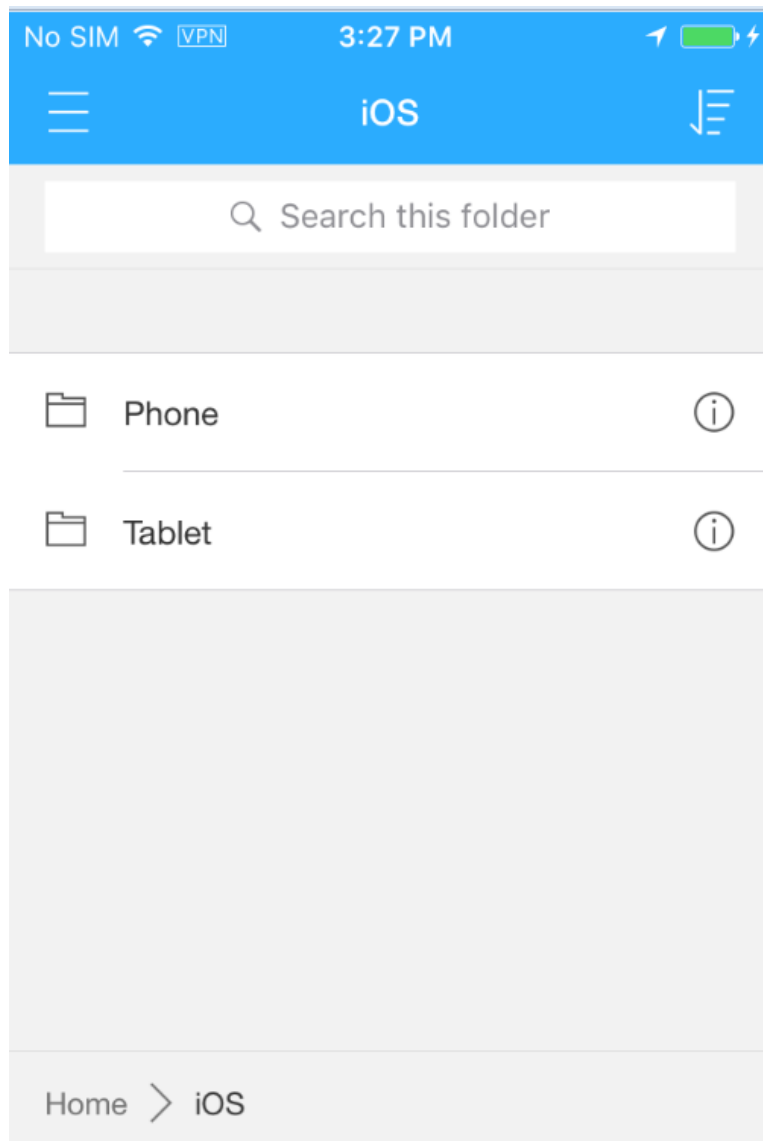


A dialog box titled "Configuration Retrieval" with two buttons at the top: "Cancel" in blue and "Enter Credentials" in black. Below the buttons is a light gray horizontal bar. Underneath is a form with two input fields: "User Name" and "Password".

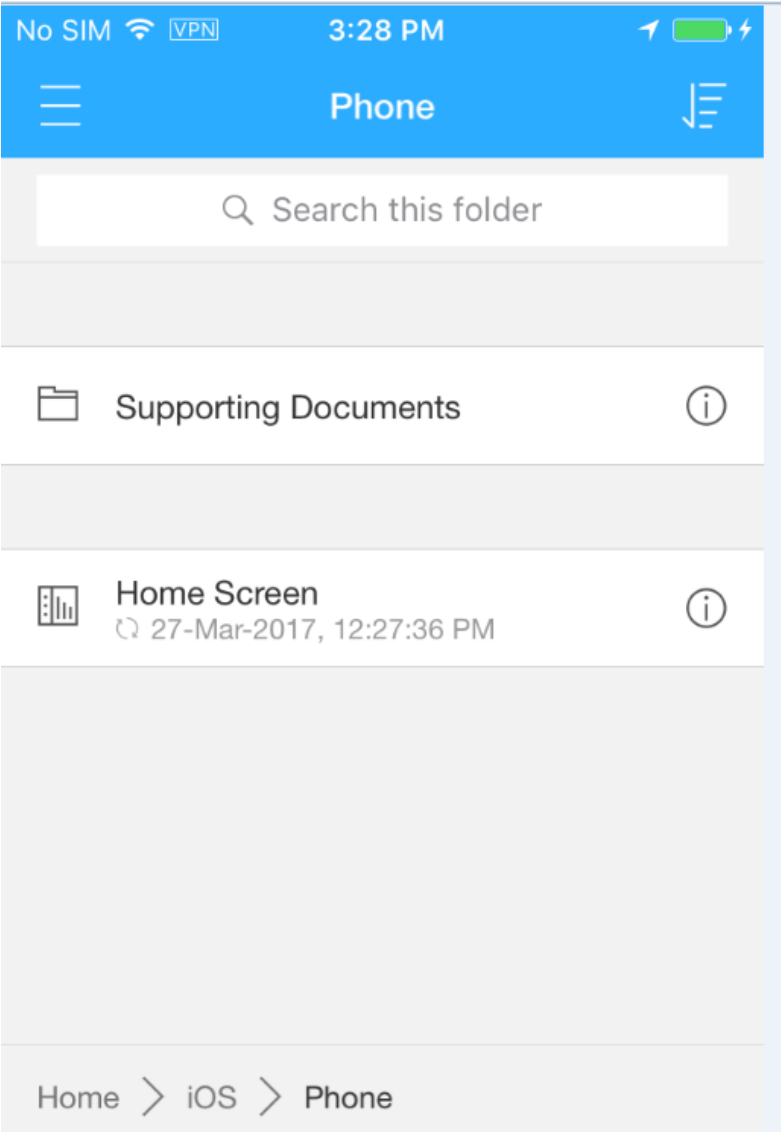
After login user will see the below screen:

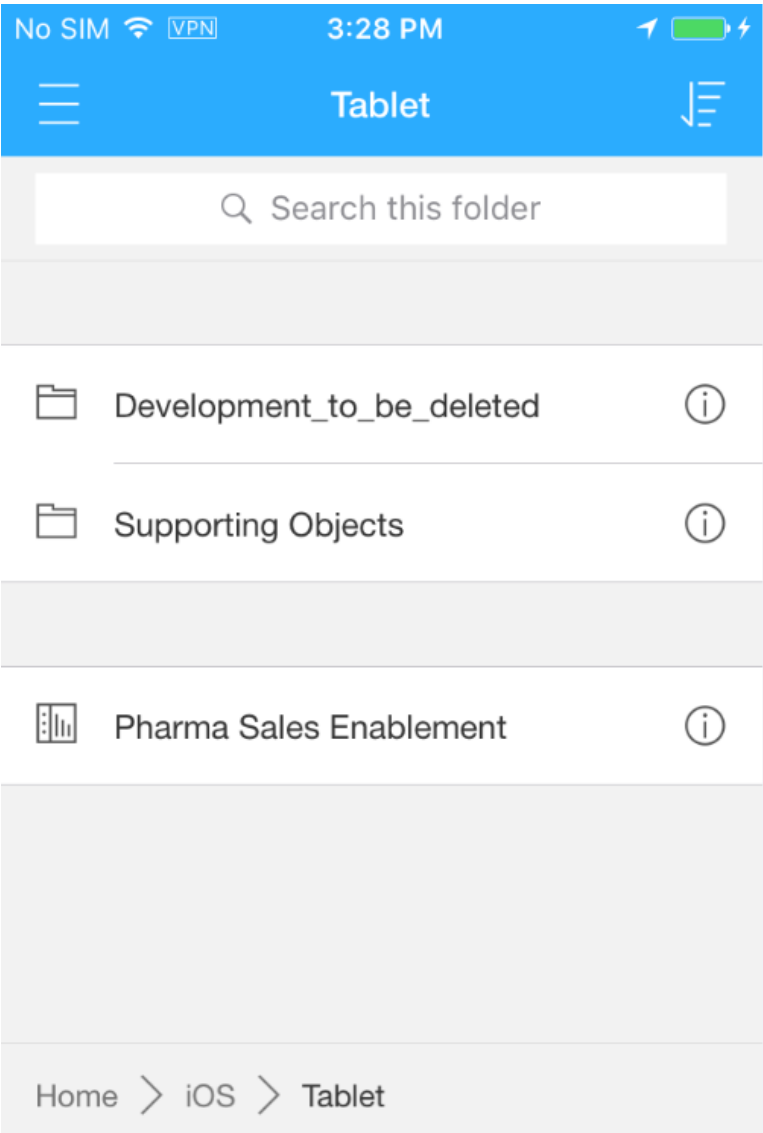


Click iOS. User will see two folders.



User can access respective dashboards from both folders. From below, user can navigate from one path to other.

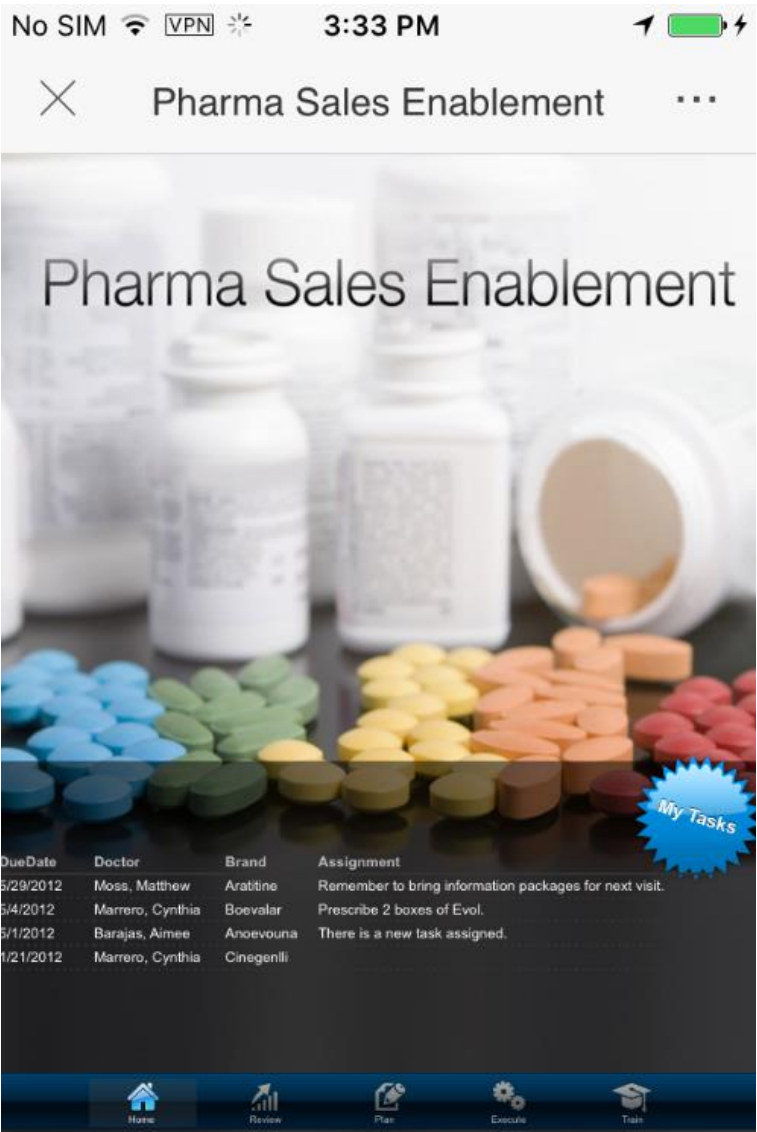




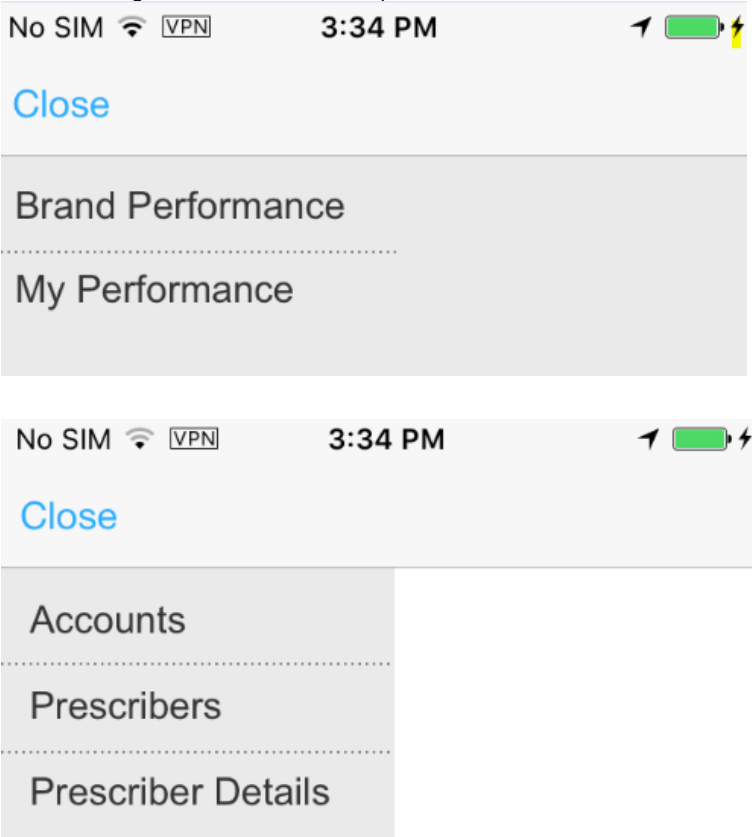
For Phone folder , clicking on 'Home Screen' will open like:

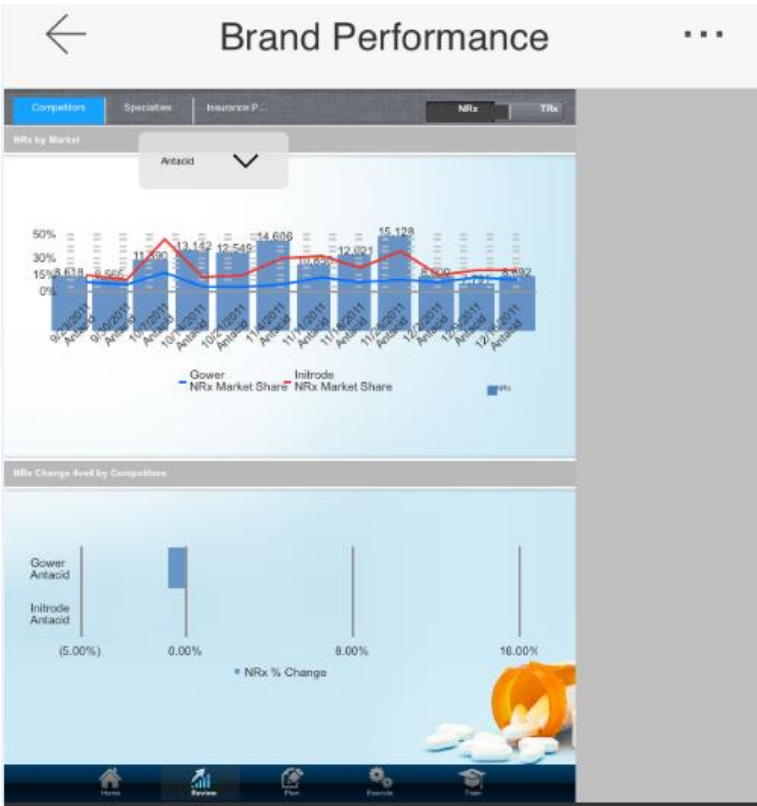


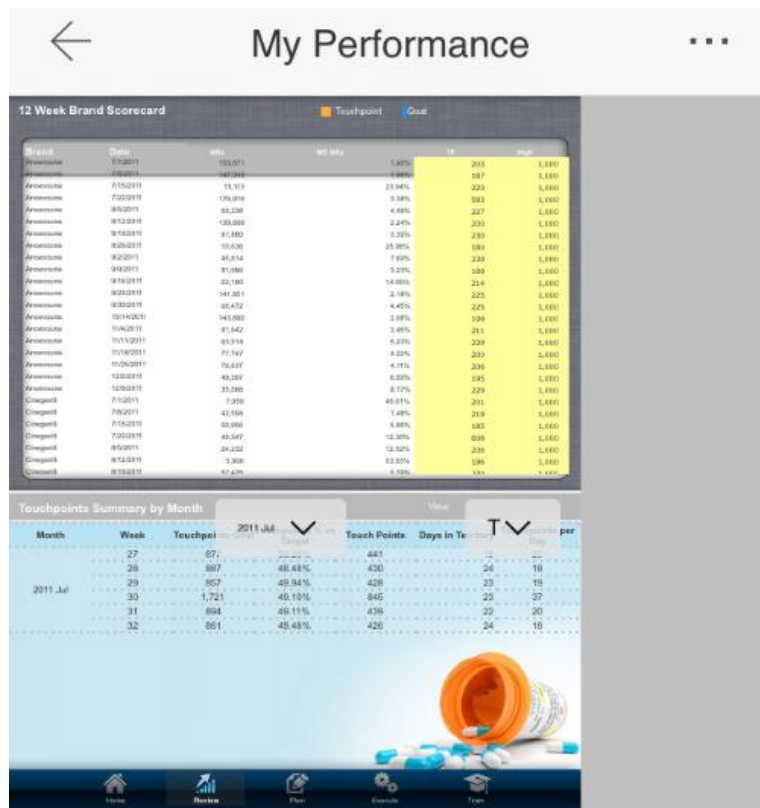
For Tablet folder, clicking on 'Pharma Sales Enablement' will open as below:

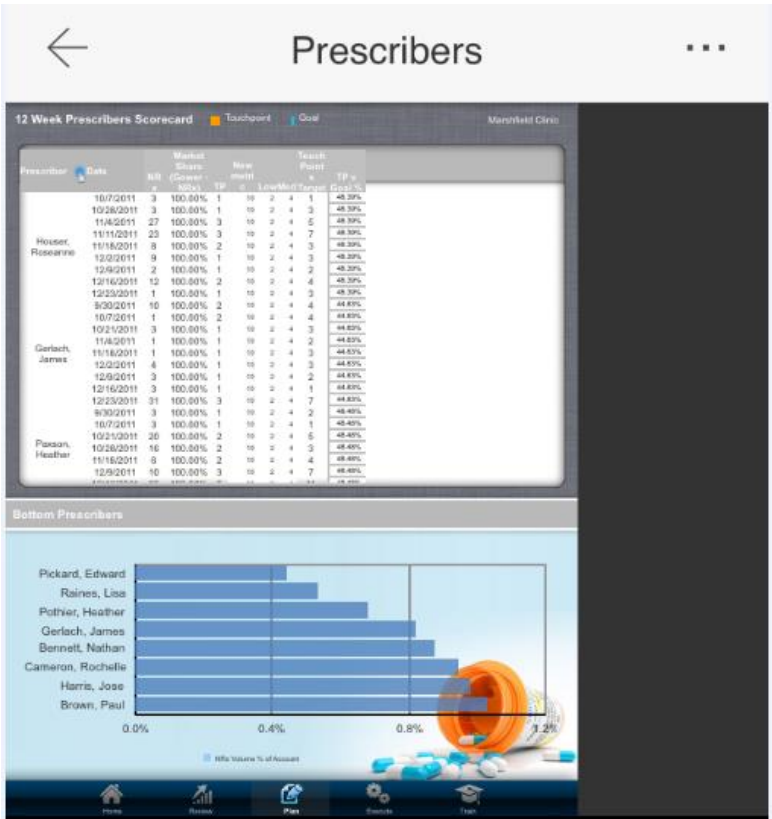


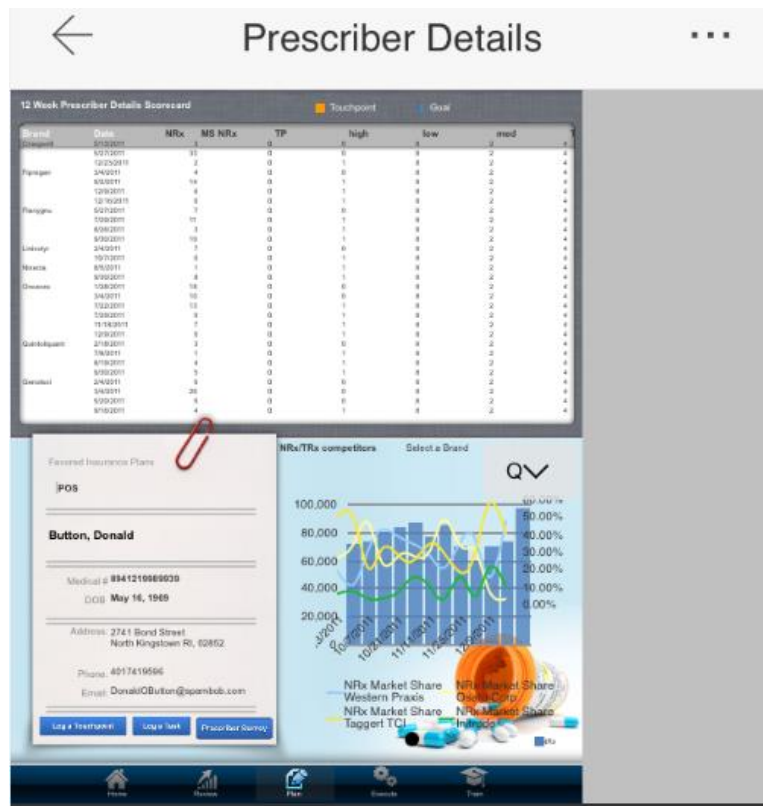
User can navigate the dashboards. Sample screenshots can be seen as:











About the QuickStart:

In this Quickstart it contains Dashboards related to Pharma Sales application. This is mainly an iOS based application for phones and tablets.

Limitations of the QuickStart:

1. Few Dashboards or pages related to 'Tablet' will face screen fitness issue if opened in iPhone.

Touchpoint Logger

TP Date: Required

Prescriber: Required

TP Type:

Drug:

Quantity:

Click below to sign:

	Prescriber	TP Date	Touchpoint Type	Drug	Quantity
2	McCart, Ruth	5/28/2012 12:00:00 AM	In-Person	Acetamin	3
1	Ramsey, Anne	5/24/2012 12:00:00 AM	Call	Acetamin	1

Comments:

Signature:

For example, User can see that Drop downs are misplaced.

2. Touchpoint Logger will not work for submission in either phone or tablet module.

Logger enables user to input data. It does not affect the normal display of dashboards.

Submission is not working properly due to an invalid query prepared while importing metadata to non-Vertica platforms.

3. Xquery based dashboard: 'Prescriber Survey' is not working.