FMS integration details

Roles with their access rights management will be created in FMS.

Roles will be auto assigned to users fetch from SMS based on their Designation and Department.

Users will also be tagged to TCF HO, Region, Area or school. And they will only be able to access vehicle belonging to their respective tagged entity.

**1. SMS authorization**

a.

For FMS web portal we will use Windows AD authentication for user id and password authorization.

Please implement AD integration authentication in the FMS web application.

b.

For FMS mobile app we will use the below API mechanism for user/password authentication. And will be implemented in Phase 2 with the app.

User id/password authentication API -> SMS

LogIn Api Url

[**https://siswebsrv2.tcf.org.pk:4443/api/register**](https://siswebsrv2.tcf.org.pk:4443/api/register)

Type  = Post

Body Json below sample data:

    {

     "DeviceId": "096e58a3f7aca57b",

     "NotificationKey" : **null**,

     "appDatetime" : "2021-03-05 12:29:00 PM",

     "appVersion" : "1.18",

     "token" : "tcf12345",

     "username":"[principal.24681@tcf.org.pk](mailto:principal.24681@tcf.org.pk)"

    }

For FMS web portal login - pass following values from application login screen:

     "DeviceId": "999"

     "NotificationKey" : **null**

     "appDatetime" : "2021-03-05 12:29:00 PM" /\*replace with current system date/time\*/

     "appVersion" : "0"

     "token" : "tcf12345" /\*replace with password of login user\*/

     "username":"principal.24681@tcf.org.pk” /\*replace with User ID of login user\*/

**2. SMS – Hierarchy (user wise entity (TCF HO, region, area, school) assigned and entity ID (region code, area code, school code). This is to restrict user access to their respective vehicles in FMS.**

User – Area – Region – HO

TCF\_Heirarchy table

User ID | Entity | Entity ID

HO NULL

Region 3

16 Area 16

16 Area 15

/\*create new view in SMS

FMS\_UserHierarchy

select

    a.id, a.userid, a.tcf\_hierarchy\_id as entityID, b.object\_name as entityName, a.objectId as entityCode

from

    userHierarchyTagging a

    left outer JOIN tcf\_hierarchy b on a.tcf\_hierarchy\_id = b.id

WHERE

    isActive = 1

/\*

This view will provide active Hierarchy list for users.

UserID =

userid related in Point# 3 (users list)

entityCode =

* + description is related with respective table in point# 4 (school structure)
  + sms\_Region, sms\_Area, sms\_School

You need to update your FMS logic accordingly and update/remove/add record as per the query result.

**3. User table**

SMS users view with their designation and department. So that the Role can be assigned accordingly in FMS.

Following view is used to get User information with their respective designation and Department.

Steps to be followed in FMS:

* This will provide only Active Users list.
* Logic to be built in FMS to match with the existing User list and deactivate all those users not available in the latest query result
* Logic to add new Users which are available in query result but not available in FMS

View name: (FMS\_UserList)

/\* new view to be created in SMS

With below query \*/

select

a.userID, CONCAT(a.firstName, ' ', a.lastname) as UserName,

a.designationId, b.HCMDesignation as DesignationName,

a.department\_id, c.Name as DepartmentName,

a.Employee\_Code

from

[User] a

left outer join hcm\_designations b on a.designationId = b.id

left outer join Department c on a.department\_id = c.departmentID

where

a.isActive = 1 and a.isDeleted = 0

**4. SMS school/ organization structure**

All tables, Schools, Area, Region setups

Tables are available in FIS backup DB shared. You will be required to create store procedure to update them from our SMS DB on a nightly daily schedule.

The SP is available in FIS DB. You can review and reuse it if required. We will create link server to SMSDBSERV.SMSDB in your FMS DB.

[dbo].[SP\_SMS\_FIS]

Tables are as follows:

sms\_area

sms\_Campus

sms\_Location

sms\_Region

sms\_School

**5. File upload sample file for Shell and PSO**

Sample file with transaction data provided for fuel txns made via card. This will be used for upload in FMS.

**6. Teacher from HCM view**

- Teachers with Conveyance deduction tagged in HCM.

For tagging teachers to vehicle.

Table in FIS DB – HCM\_Conveyance (this has list of school employee having Conveyance deduction tagged in HCM system) These employee are entitled to use Vehicle. And will be used for tagging with vehicle.

We will create link server into HCM DB and create nightly daily schedule to update this table in FMS. You need to create SP to get and insert this information in your FMS table as per your logic.

Query to get data from HCM:

select \* from hcmdbserv.hcm\_live.[dbo].[DWH\_FIS\_ConvDeduction]

View already available in HCM as DWH\_FIS\_ConvDeduction

Steps to be followed in FMS:

* This view provides all Teachers (school employee only) which are availing conveyance as per HCM and will be tagged to vehicles in FMS.
* In FMS check with already tagged teachers with the list of teachers in this query result. if not available in this query then remove the teacher and their tagging from the vehicle.
* Teachers which are not available in FMS and exist in this query results, will be added in teachers list available for tagging. These will be available for Area team to tag to the respective school vehicle.

**7. Driver**

- list of Driver designation and school assigned

For tagging to vehicle.

This list will be from SMS user and employee data from Point# 3.

For DesignationName = ‘Driver’

DesignationID = 47

**8. create dummy HO and Region for HO employee to manage**

**dummy Region Supply chain will be created in FMS to allow and assign vehicle to HO Admin department to manage vehicles allocated for HO/SC. There are two groups of vehicle in HO, assigned to HO (issued to staff) and Vans for female staff pick/drop and other tasks assigned to HO/SC and manage by Admin.**

- Supply chain cars

HO

\_\_\_\_\_\_\_\_\_

| |

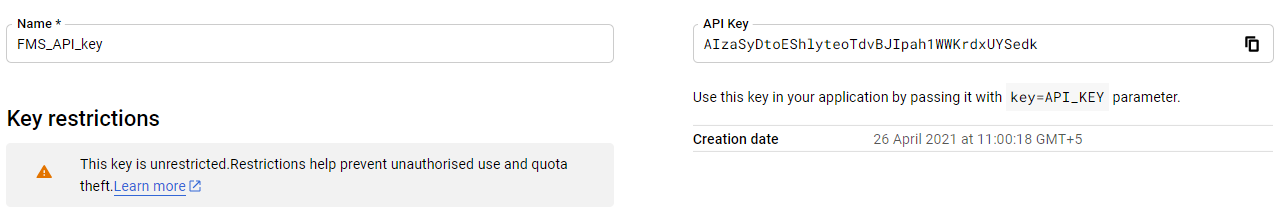
Rx5 HO/SC

**9. Google integration – API**

- API key to be created

- google IT account for TCF mobile App will be used.

Here is the API key to be used for FMS application.



Api Key value (Use this key in your application by passing it with key=API\_KEY parameter)

AIzaSyDtoEShlyteoTdvBJIpah1WWKrdxUYSedk