

**S**oftware **R**equirement **S**pecification

DWF Data Analyzer

Version 1.0

August 18, 2018

Document Information and Revision History

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| --- | --- | --- | --- |
| **Version** | **Changed by** | **When** | **Change description** |
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# Introduction

Irancell vision is “to lead the delivery of a bold, new, digital world to our customer” and based on this vision Irancell wants to provide a service, to be a reference in Interconnect reconciliation with other telecom operators. In this regard, according to a monthly routine, Finance is providing CDR details, separated by provinces, operators, MVNO, etc. as evidence that attached with monthly invoices.

# Overview

Based on Irancell finance team requirement, Parstasmim technical team will develop application to report CDR detail to Irancell finance team systematically and facilitate and accurate this manual job.

This report and relate documents will be generated and delivered by scheduled process to Irancell finance team.

The way of generating report by this tools is based on defined rule by Irancell finance team.

According to importance of information and reports generated by this tools, this tools has facility to manage chain of responsibility.

# Scope

The scope of this SRS can breaks down into following hierarchy:

1. Business functionality
   1. End to end business processes
   2. End to End technical processes
2. Technical functionality
   1. Software architecture and components definition
      1. Application functionalities

## Business functionalities

Following diagram shows end to end processes flow to deliver final service result to MTNIrancell finance team. Gray items shows out of project scope and others items are project scope.

### End to End business processes



### End to End technical processes



## Technical functionalities

### Software architecture and components definition



#### Application functionalities

Aplication functionalities breaks down to below sections:

##### Manage users and groups and their accesses actions

###### Create user (Application user)

Here owner can create users for authentication and authorization with below information:

1. User ID
2. Display name
3. Email
4. Password
5. Group memberships
6. Action accesses

###### Edit user

Owner can edit following informations:

1. User Display name
2. Email
3. Password
4. Group memberships
5. Action accesses

###### View user details and accesses

Owner can view all user informations and activities performed by him/her.

###### Disable user

Owner can disable user, after user disabled all user accesses and group memberships will be deleted.

###### Create group (Application group)

Owner can create groups in order to categorize user accesses and simplify authentication and authorization managements.

###### Add/remove members to/from groups

Owner can manage group memberships in single and bulk with user ids.

###### Delete group

Owner can delete group, then all its members will be removed.

###### Grant/Revoke access to/from user/group accesses

Owner can grant or revoke access to users or groups in order to authorization and access to application actions.

##### Manage reports actions

###### Define rule template

Owner can define rule templates to speed up rule definition and reduce fault when defining rules.

###### View rule template

Owner can view rule template definitions.

###### Edit rule template

Owner can edit rule definition and conditions.

###### Copy & edit rule template

Sometimes owner wants to apply some small change in rules and save as new rule template, this action do this requirement.

###### Delete rule template

Owner deletes rule templates and all of its definitions.

###### Create report definition

After requesting for specific report was raised report definition will be created by owner, here we have two steps:

1. Approve rules definition

Rule definitions includes list of rules to be defined or rule templates defined before and now just need to copy them to current report definition.

Defined rules will be validate by owner and approve for next step.

1. Approve run scheduled report
   1. Report with specified information (Rules definition and scheduled date time) will be run at scheduled date time.

###### Edit undone report definition

By this action report can be edited in every step, notice every steps owner approves, only owner can edit that step.

###### Approve report definition

This action will approve report definition by the owner and only owner can edit his/her approved steps.

###### Approve run reporting

By this action owner will accept all report definitions and approves to run report at scheduled date time.

###### Schedule reporting

Owner can schedule reporting at specified date and time.

###### Rerun reporting

Owner can rerun former reporting with specified information in first run.

###### View report history result

Owner can view below report information:

1. Date time run
2. User who scheduled the reporting
3. Users whose approved reporting steps (Approve rule definitions and approve run)
4. Summary of reporting result
5. Storage pathes where the exported documents stored.

#### Roles and ACLs

###### User

* + User can do following functionalities:
    - Define rule template
    - View rule template
    - Edit rule template
    - Copy & edit rule template
    - Delete rule template
    - Create report definition
    - Schedule reporting
    - Rerun reporting
    - View report history result

###### Manager

* + Plus user functions, manager also can do following actions:
    - Approve report definition
    - Approve run report