

Welcome To  
Presentation & Demo  
Of





Industrial **Critical Alarm Management** by  
SMS and Email



## Features of Application

 **Email Alert Based on Alarm Condition**

 **SMS Alert Using GSM Modem or Web API Based on Alarm Condition**

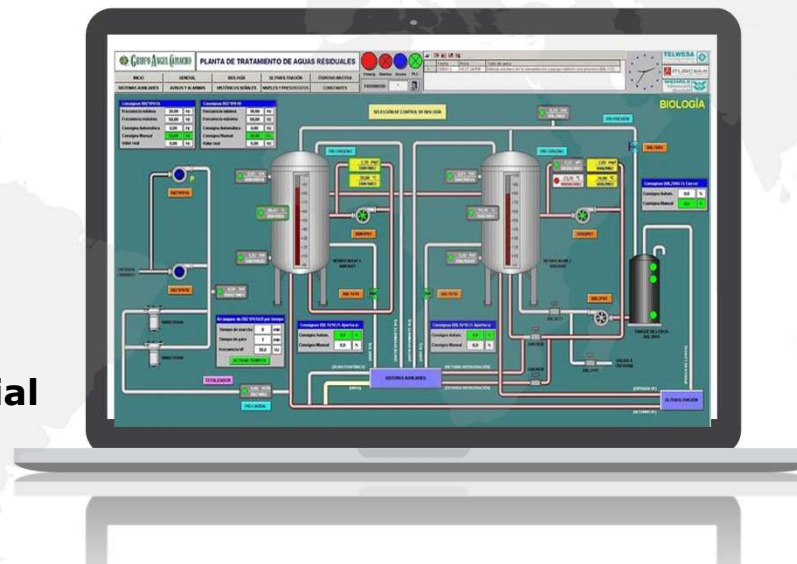
 **Supports Different Sources for Alarm Interface**

 **Scheduled SMS / Email**

 **Easy to Install**

 **Alarm Analysis & Audit Trail**

 **Light Application with SQLite DB**



**In Built Backend Data Engines – Pre Connected**



**MS SQL Database**

**Emerson's eJournal Database**



**OPC UA, OPC DA & OPC AE**

## Successfully Implemented in Various Industries



Pharmaceutical & Biotech



Process Automation



Life Science



Manufacturing



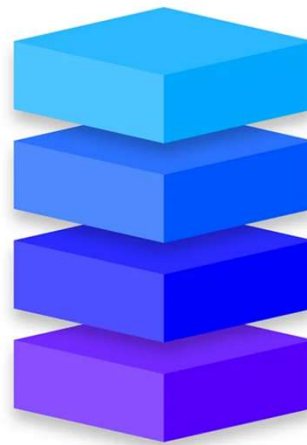
BAS / BMS



Transport - Metro

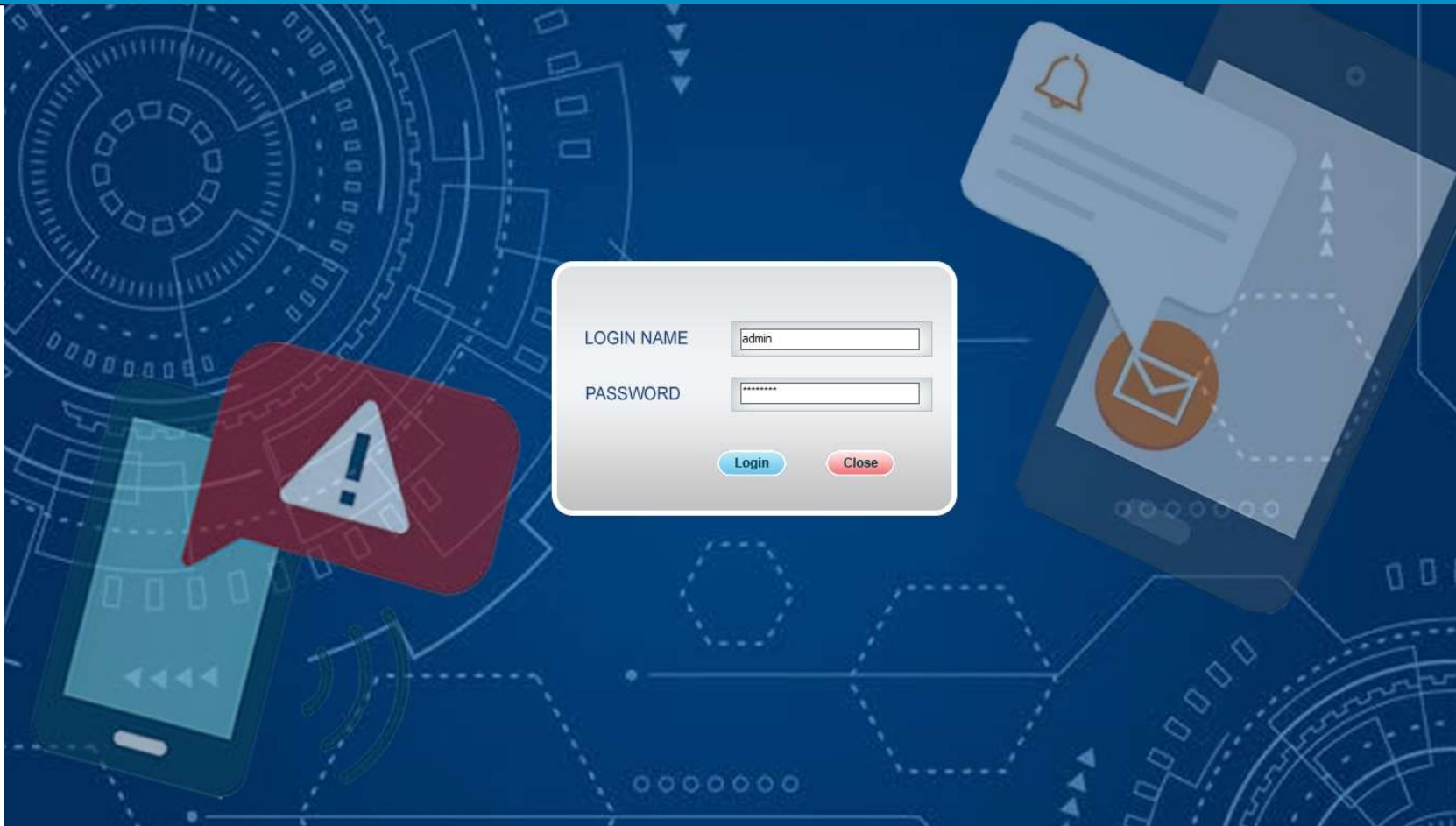
## Add on Custom Layer Possibility ; SQLite For Config Database

- Report Application Scalable for Future Enhancement ; **Add on of Customized Layer** is possible as per Client Requirements










Custom Layer Add On


## Presentation of Application With Screens



## Home Screen

SMS\_Application\_3\_0 (UNREGISTERED VERSION TIME LEFT: 59 MINS)

 Administration  Configuration  Alarm Management  Alarm Analysis  Audit Trails  Application Diagnosis 



Login Name: - Administrator



## Administration Menu



The screenshot shows a web application interface for SMS management. The title bar reads "SMS\_Application\_3\_0 (UNREGISTERED VERSION TIME LEFT: 54 MINS)". The navigation menu includes: Administration, Configuration, Alarm Management, Alarm Analysis, Audit Trails, and Application Diagnosis. A dropdown menu under "Administration" lists: User Access Group, Application Users, Application Setup, SMTP Config, SMS Comm Config, Restore DB Backup, and Database Backup. The background features a hand holding a smartphone with a network overlay and an @ symbol. The status bar at the bottom left shows "Login Name: - Administrator".

**Administration Menu > User Access Group**

SEARCH RECORD

Filter

Search Delete

Group Name	Group Details
Administrator	
Manager	
Operator	Operator
Superwiser	Superwiser

User Access Group

Add Save Delete Find Refresh Close

DELETE RECORDS

GROUP DETAILS


Group Name\*

Group Detail

	Form Menu	View	Add / Create	Modify / Update	Delete	Print
<b>Administration</b>						
▶	User Access Group	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Application Users	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Application Setup	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
	SMTP Config	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
	SMS Comm Config	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
	Restore DB Backup	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
	Database Backup	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
<b>Configuration</b>						
	Alarm Source	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Mobile Users	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Email Users	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Alert User Group	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Alarm Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Fault Category	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Faults Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Shift Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	


**Administration Menu > Application Users**


Application Users



User Name\*

Login Name\*


Password\*  

User Group\* Operator 

Password Freq\*  Months ( Min 1 to Max 99 )

Status  Active  NotActive  Blocked

SEARCH RECORD



Filter

User Name	Login Name	User Type	User
Administrator	admin	Administrator	Active
User	User	Operator	Active

**Administration Menu > Application Setup**

Application Setup
✕

Company Name\*  a<sup>A</sup>

Department Name\*  a<sup>A</sup>

Header Note\*  a<sup>A</sup>

Footer Note\*  a<sup>A</sup>

Auto DB Backup\*  Select Folder Path

User Lock Count\*  Auto Logout Time\*  Backup Time  Header Cell Bg Color

**DATA LOG DATE TIME FORMAT**

Date Format\*  /  /

Time Format\*  dd/MM/yyyy HH:mm

**AUDIT / TIME STAMP DATE TIME FORMAT**

Date Format\*  /  /

Time Format\*  dd/MMM/yyyy HH:mm:ss

**a<sup>A</sup> Report Name Font**

Alert Group SMS Time Delay\*  Minutes ( Min 1 to Max 999 )

Escalation Group 1 SMS Time Delay\*  Minutes ( Min 1 to Max 999 )

Escalation Group 2 SMS Time Delay\*  Minutes ( Min 1 to Max 999 )

**a<sup>A</sup> Report Header Section**

Regenerate Similar Alarms\*  Hours

SMS Option\*  Yes / No

Email Option\*  Yes / No

📁 Browse Logo  
200 px x 100 px  
 **Display Logo**

💾 Save ✕ Close

## Administration Menu &gt; SMTP Config

SMTP Config

SMTP Address \*  ?

SMTP Email\*

SMTP Authentication\*  Yes  No

SMTP User\*


SMTP Password\*




SMTP Port\*

SMTP SSL Enabled  Yes  No

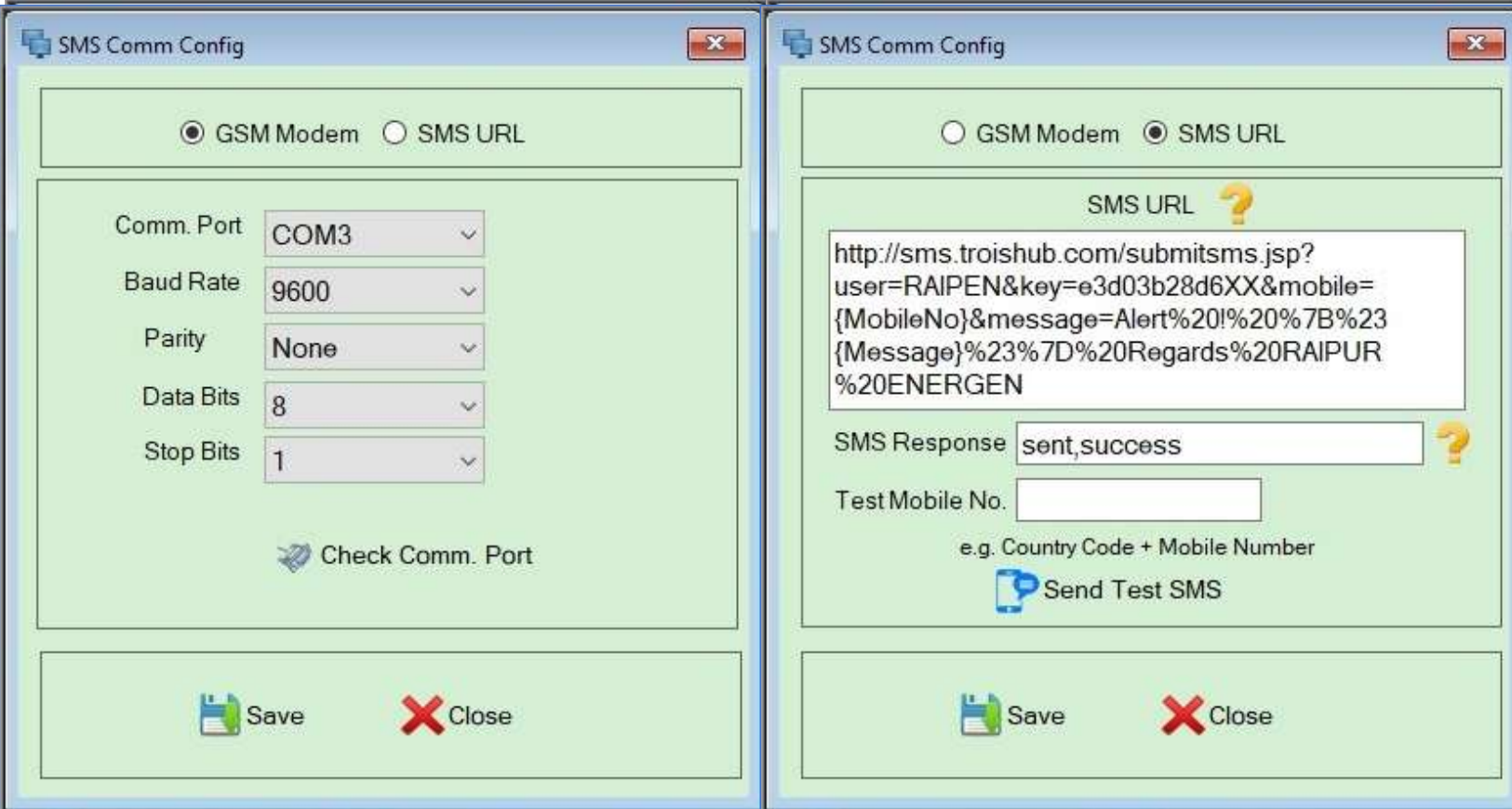
Test Email

Signature\*

 **Send Test Mail**

 Save Settings  Refresh  Close

## Administration Menu &gt; SMS Comm Config



**SMS Comm Config**

GSM Modem  SMS URL


Comm. Port:



Baud Rate:

Parity:

Data Bits:


Stop Bits:


 Check Comm. Port

 Save  Close

**SMS Comm Config**


GSM Modem  SMS URL



SMS URL 

SMS Response:  

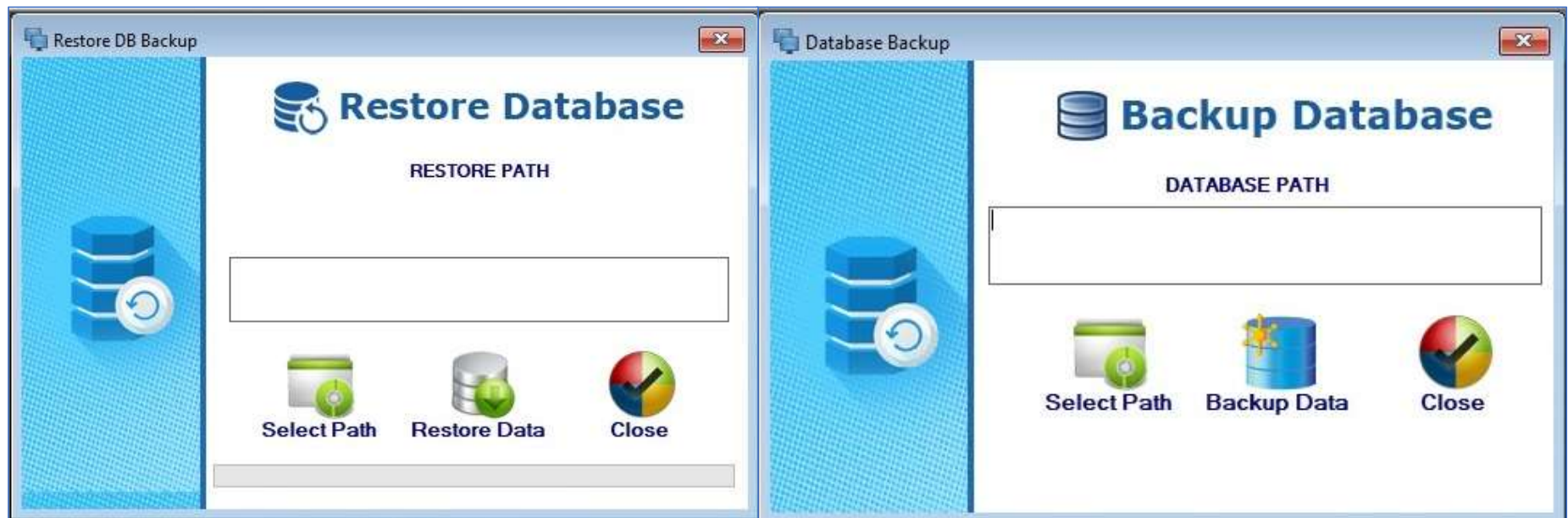
Test Mobile No.

e.g. Country Code + Mobile Number

 Send Test SMS

 Save  Close

Administration Menu > Database Restore and Backup



## Configuration > Alarm Source

**Alarm Source** ✖

Alarm Source: SQL DB ▾

Authentication: SQL ▾ 📶 Check Connectivity

SQL Server: DESKTOP-BS0KI13\SQLEXPRESS2019

Database: EJournal

User Name: sa

Password: \*\*\*\*\*

Table Name: Zelenka\_View ▾ 🔄 Get Table

Compare Field: AlarmText ▾ ?

Where Fields

<span style="border: 1px solid #ccc; padding: 2px;">Ord</span> ▾		>	<span style="border: 1px solid #ccc; padding: 2px;">613221</span>	?
<span style="border: 1px solid #ccc; padding: 2px;"> </span> ▾		=	<span style="border: 1px solid #ccc; padding: 2px;"> </span>	?
<span style="border: 1px solid #ccc; padding: 2px;"> </span> ▾		=	<span style="border: 1px solid #ccc; padding: 2px;"> </span>	?
<span style="border: 1px solid #ccc; padding: 2px;"> </span> ▾		=	<span style="border: 1px solid #ccc; padding: 2px;"> </span>	?
<span style="border: 1px solid #ccc; padding: 2px;"> </span> ▾		=	<span style="border: 1px solid #ccc; padding: 2px;"> </span>	?

Update
 Close

**Alarm Source** ✖

Alarm Source: SQL DB ▾

Authentication: SQL ▾ 📶 Check Connectivity

SQL Server: DESKTOP-BS0KI13\SQLEXPRESS2019

Database: EJournal

User Name: sa

Password: \*\*\*\*\*

Table Name: Zelenka\_View ▾ 🔄 Get Table

Compare Field: AlarmText ▾ ?

Where Fields

<span style="border: 1px solid #ccc; padding: 2px;">Ord</span> ▾		>	<span style="border: 1px solid #ccc; padding: 2px;">613221</span>	?
<span style="border: 1px solid #ccc; padding: 2px;"> </span> ▾		=	<span style="border: 1px solid #ccc; padding: 2px;"> </span>	?
<span style="border: 1px solid #ccc; padding: 2px;"> </span> ▾		=	<span style="border: 1px solid #ccc; padding: 2px;"> </span>	?
<span style="border: 1px solid #ccc; padding: 2px;"> </span> ▾		=	<span style="border: 1px solid #ccc; padding: 2px;"> </span>	?
<span style="border: 1px solid #ccc; padding: 2px;"> </span> ▾		=	<span style="border: 1px solid #ccc; padding: 2px;"> </span>	?

Update
 Close



## Configuration &gt; Mobile Users &amp; Email Users

SEARCH RECORD

Filter

User Name	Mobile No
Abhishek	+917720087019
Nirav Sir	+919870310606
Rajesh	+918097493388
Roshni	+918097492299
Umesh	+919823986013

SEARCH RECORD

Filter

User Name	Email Address
Abhishek	abhishek@dreamsoftindia.com
Nirav Sir	nirav@dreamsoftindia.com
Rajesh	rajesh@dreamsoftindia.com
Roshni	roshni@dreamsoftindia.com
Umesh	umesh@dreamsoftindia.com

## Configuration &gt; Alert User Groups

Alert User Group

MOBILE / EMAIL USER

Navigation: Add Save Delete Find Refresh Close

User Group\* Critical

Press ctrl key to Select Multiple Records

Mobile / Email Users\*

<input checked="" type="checkbox"/>	Abhishek ( +917720087019 )	<input type="checkbox"/>	Abhishek ( abhishek@dreamsoftindia.com )
<input checked="" type="checkbox"/>	Nirav Sir ( +919870310606 )	<input type="checkbox"/>	Nirav Sir ( nirav@dreamsoftindia.com )
<input checked="" type="checkbox"/>	Rajesh ( +918097493388 )	<input type="checkbox"/>	Rajesh ( rajesh@dreamsoftindia.com )
<input checked="" type="checkbox"/>	Roshni ( +918097492299 )	<input type="checkbox"/>	Roshni ( roshni@dreamsoftindia.com )
<input checked="" type="checkbox"/>	Umesh ( +919823986013 )	<input type="checkbox"/>	Umesh ( umesh@dreamsoftindia.com )

SEARCH RECORD

Filter: [dropdown] [input]

Search Delete

Group Name
Critical
GROUP 1
GROUP 2
Manager
Operato
Supervisor

Alarm Config

## ALARM CONFIGURATION

◀◀ Add Save Delete Find Refresh Close ▶▶

Status  Active  NotActive

SQL Text\* %High Alarm%

Message Text

Keep Message Text Blank incase you want SQL Text to be Transmitted

Priority\* 5

Alert Group Critical ?

Escalation Group 1 ?

Escalation Group 2 ?


## Configuration > Import Alarms via Excel

**Import Alarm**

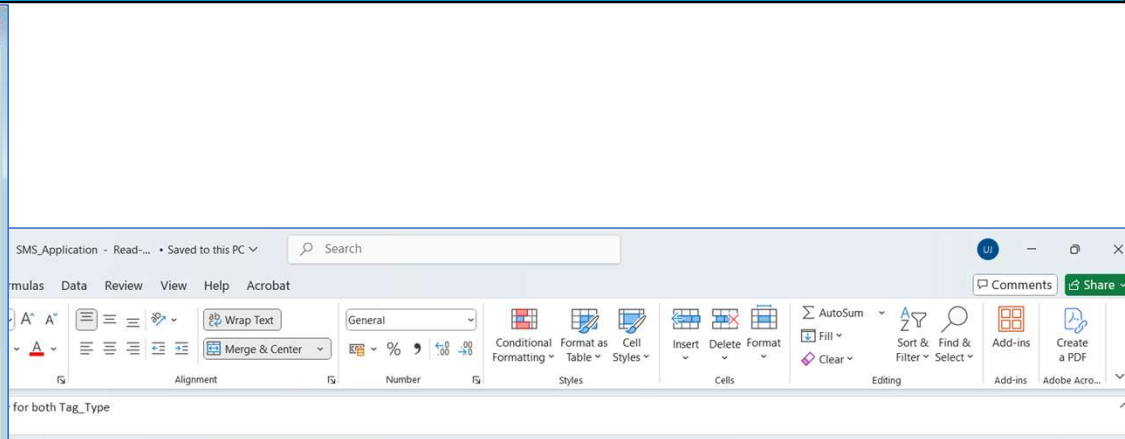
File Import Details

File Path

[Select File Path](#)  
[Download Blank Template](#)  
[Download Data Loaded Template](#)  
[Clear File Selection](#)

 **Process File**

File Upload Status : -



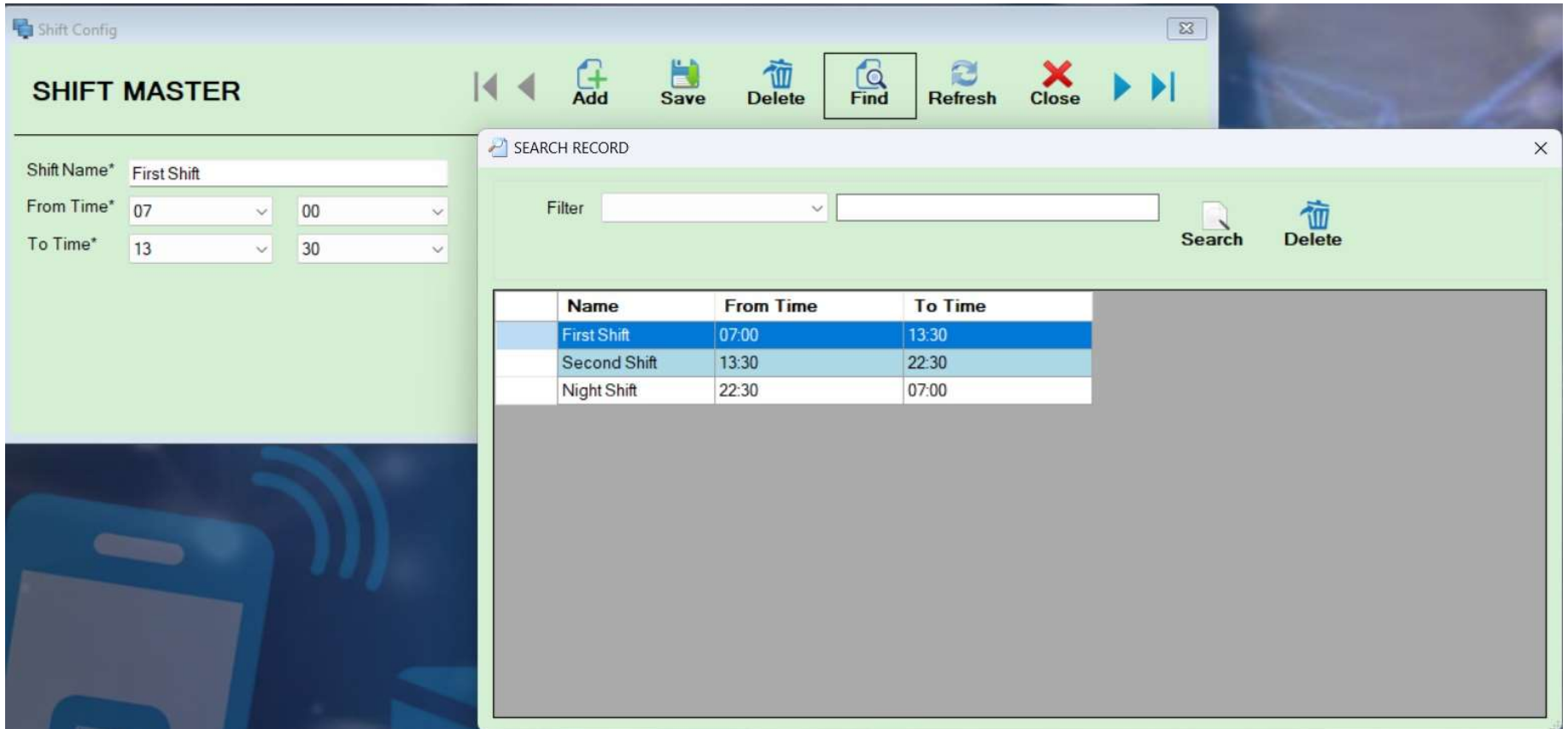
SMS\_Application - Read-... • Saved to this PC

Formulas Data Review View Help Acrobat

for both Tag\_Type

Tag_Type	Tag_Name	Tag_Path	User Group	Escalation group 1	Escalation group 2	Alarm Value	Alarm Text	Alarm Value	Alarm Text	
Digital/Analog	Any text is required	Any unique text is required	Compulsory for both Tag_Type	Optional for both Tag_Type.User group and Escalation group 1 name should not be same	Optional for both Tag_Type.User group, Escalation group1 and Escalation Group 2 name should not be same	Compulsory for both tag_type For Alarm Condition 0 or 1 For Low Condition Any numeric value	Any text with no special character	For Normal Condition 0 or 1 For Low Low Condition 1. Any numeric value 2. Less than Low condition value	Any text with no special character	Compulsory High Condi Greater th

## Configuration &gt; Shift Configuration

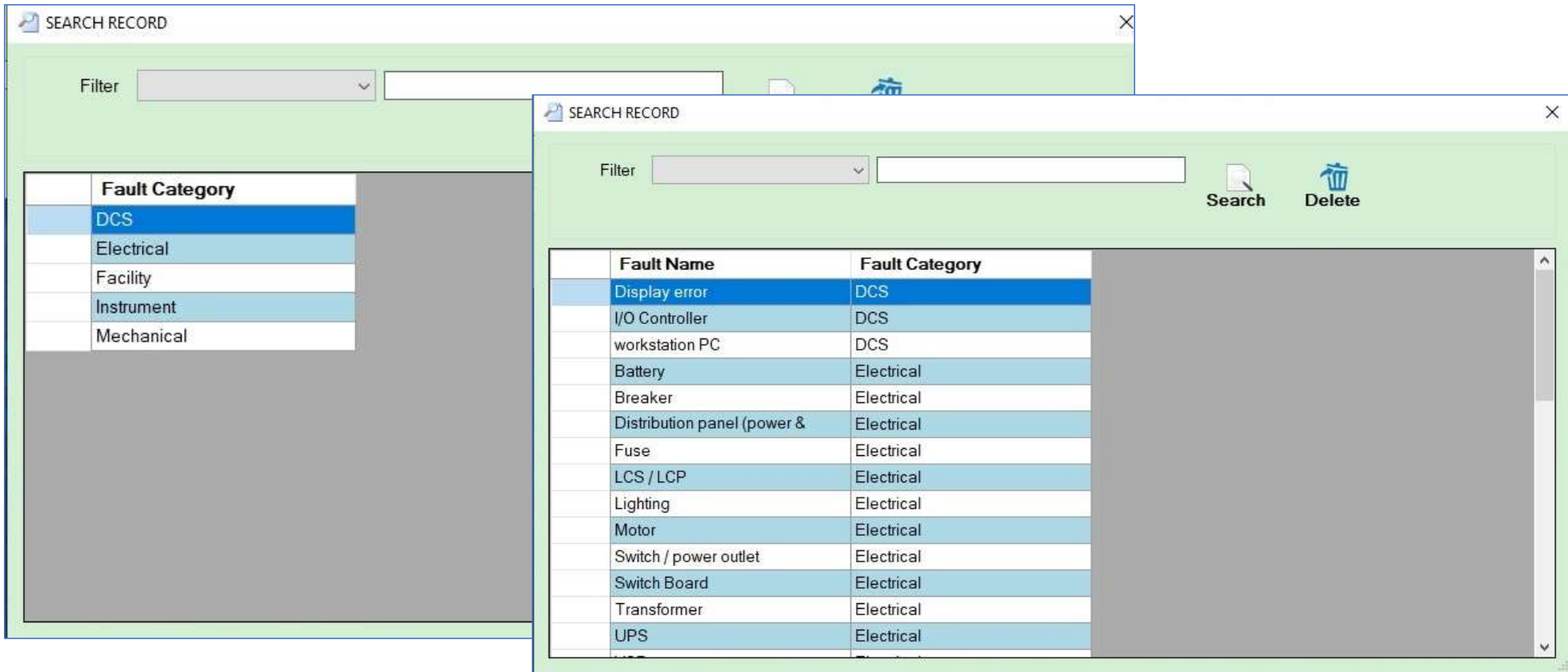


The screenshot displays the 'SHIFT MASTER' configuration window. On the left, there is a form with the following fields:

- Shift Name\*: First Shift
- From Time\*: 07:00
- To Time\*: 13:30

On the right, a 'SEARCH RECORD' window is open, showing a table of shift records:

Name	From Time	To Time
First Shift	07:00	13:30
Second Shift	13:30	22:30
Night Shift	22:30	07:00

**Configuration > Fault Category & Fault Config**


The screenshot shows two overlapping 'SEARCH RECORD' windows. The background window displays a list of fault categories, with 'DCS' selected. The foreground window displays a detailed list of fault names and their corresponding categories.

Fault Category	
DCS	
Electrical	
Facility	
Instrument	
Mechanical	

Fault Name	Fault Category
Display error	DCS
I/O Controller	DCS
workstation PC	DCS
Battery	Electrical
Breaker	Electrical
Distribution panel (power &	Electrical
Fuse	Electrical
LCS / LCP	Electrical
Lighting	Electrical
Motor	Electrical
Switch / power outlet	Electrical
Switch Board	Electrical
Transformer	Electrical
UPS	Electrical

**Configuration > Alarm Management > Acknowledge Alarm**

Acknowledge Alarm Refresh

	Log DateTime	Alarm Type	Tag Name	Alarm Message	Value	Priority	Shift	Action
▶	2023-01-27 15:57:47	Auto		Aqua Line 3 Alert Station: MIDC Equipment: LV UPS2 Alarm: UPS OFF STATE Time:27 Jan 2023 15:56:51		1	Second Shift	Acknowledge
	2023-01-27 16:02:04	Auto		Aqua Line 3 Alert Station: MIDC Equipment: LV UPS2 Alarm: UPS OFF STATE Time:27 Jan 2023 16:01:43		1	Second Shift	Acknowledge
	2023-01-27 16:04:36	Auto		Aqua Line 3 Alert Station: MIDC Equipment: LV UPS2 Alarm: UPS OFF STATE Time:27 Jan 2023 16:04:32		1	Second Shift	Acknowledge
	2023-01-27 16:25:38	Auto		Aqua Line 3 Alert Station: MIDC Equipment: LV UPS2 Alarm: UPS OFF STATE Time:27 Jan 2023 16:25:29		1	Second Shift	Acknowledge
	2023-01-27 16:46:14	Auto		Aqua Line 3 Alert Station: MIDC Equipment: LV UPS2 Alarm: UPS OFF STATE Time:27 Jan 2023 16:46:01		1	Second Shift	Acknowledge
				Aqua Line 3 Alert				

Configuration > Alarm Management > Acknowledgement Screen

Acknowledge Screen

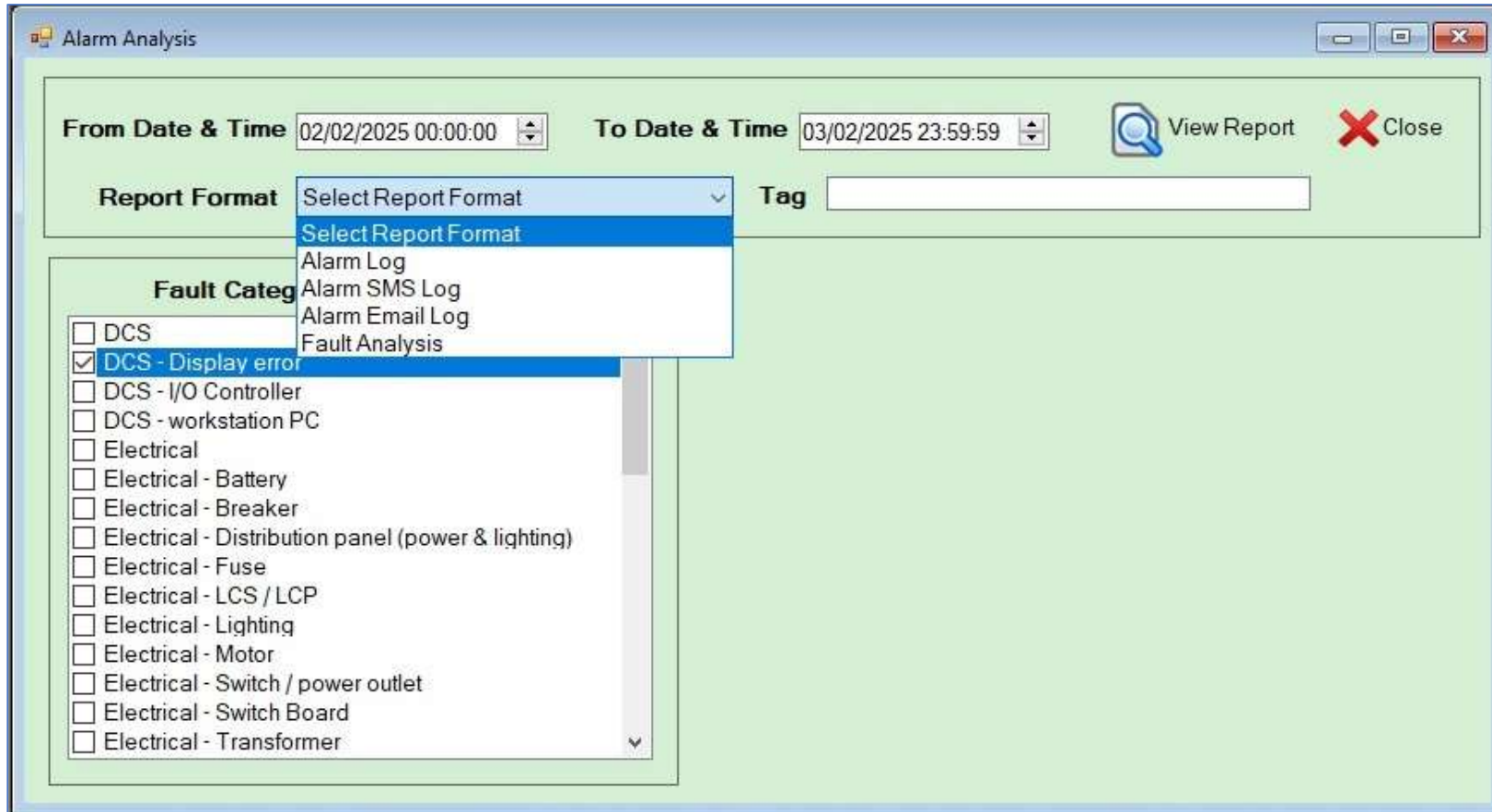
Log Date Time: 2023-01-27 15:57:47

Alarm Message: Aqua Line 3 Alert  
Station: MIDC  
Fault Category\*:  
Fault\*:  
User Comments\*:  
Priority\*: 1  
Alarm Type: Auto  
Alarm Value:

Save Close



## Configuration &gt; Alarm Analysis



The screenshot shows the 'Alarm Analysis' configuration window. At the top, there are two date and time pickers: 'From Date & Time' set to '02/02/2025 00:00:00' and 'To Date & Time' set to '03/02/2025 23:59:59'. To the right of these are 'View Report' and 'Close' buttons. Below the date pickers is a 'Report Format' dropdown menu currently showing 'Select Report Format', and a 'Tag' input field. On the left side, there is a 'Fault Category' section with a list of categories, each with a checkbox. The 'DCS - Display error' category is checked. The list includes: DCS, DCS - Display error, DCS - I/O Controller, DCS - workstation PC, Electrical, Electrical - Battery, Electrical - Breaker, Electrical - Distribution panel (power & lighting), Electrical - Fuse, Electrical - LCS / LCP, Electrical - Lighting, Electrical - Motor, Electrical - Switch / power outlet, Electrical - Switch Board, and Electrical - Transformer.

Configuration > Audit Analysis

Audit Analysis

From Date & Time: 02/02/2025 00:00:00 To Date & Time: 03/02/2025 23:59:59

View Report Close

Report Format: Select

- Select
- User Audit Trail
- User Audit Trail User Wise

Login Name:

- User
- admin

Configuration > Application Diagnostics > SMS Testing



SMS Testing ✕

Press ctrl key to Select Multiple Records

Mobile Users\*  
Abhishek (+917720087019)  
Nirav Sir (+919870310606 )  
Rajesh (+918097493388 )  
Roshni (+918097492299 )  
Umesh (+919823986013 )

MobileNo  e.g. 9821188888,9821100000 ?

SMS Message

 Send Message  Close

Configuration > Application Diagnostics > System Diagnostics

System Diagnosis
✖

Sr. No.	Parameter	Value	Last Update Date Time
1	Service Status	CONFIGURATION PARAMETERS (OnStart)	2025-02-03 12:35:25
2	Source Status	PollSQLDB	2025-02-04 11:26:07
3	Tag Status	TAG CHANGE FOUND:- 0	2025-02-04 11:26:07
4	Email SMS	EMAIL SMS POLLING	2025-02-04 11:25:32
5	SMS Connection	COMM PORT CLOSED SUCESSFUL (OpenPort)	2025-02-03 12:41:09
6	SMS Status	SMS To:- +917720087019 SUCESSFUL	2025-02-03 12:40:54
7	Email Status	EMAIL TO:- abhishek@dreamsoftindia.com SUCESSFUL	2025-02-03 12:41:09
8	Backup Status	-	2025-02-03 12:35:23
9	Task Poll	Task Service Working	2025-02-03 17:08:34

**SERVICE STATUS:- Running**

Filters & Sort & Status

  
 Start Polling

  
 Stop Polling

  
 Start Service

  
 Sop Service

  
 Restart Service

  
 Close

**Configuration > Reports**

## Alarm Log Report

**End Client Company Name**
**BMS**

Header Note

**Alarm Log**
**Filter From** : 01/02/2025 00:00  
**Records From** : 03/02/2025 12:35

**Filter To** : 04/02/2025 23:59  
**Records To** : 04/02/2025 12:17

Sr. No	Alarm Log Date Time	Tag Name	Alarm Message	Shift	Alarm Value
1	03/02/2025 12:35		04-RPM-101 RPM Feedback LOW Low Alarm Value 4.61207 Limit 5	First Shift	
2	04/02/2025 12:17		02-LC-101 Radar Level Sensor LOW Low Alarm Value 3.60691 Limit 10	First Shift	
3	04/02/2025 12:17		04-RPM-101 RPM Feedback LOW Low Alarm Value 4.61207 Limit 5	First Shift	
4	04/02/2025 12:17		02-LC-101 Radar Level Sensor LOW Low Alarm Value 3.60691 Limit 10	First Shift	

**Configuration > Reports**

## Alarm Email Log Report

**End Client Company Name**
**BMS**

Header Note

**Alarm Email Log**
**Filter From** : 01/02/2025 00:00

**Filter To** : 04/02/2025 23:59

**Records From** : 03/02/2025 12:35

**Records To** : 04/02/2025 12:17

Sr. No	Alarm Type	Alarm Log Date Time	Alarm Details	Ack Details	Fault Details	User Details	Status	Status Details
1	Alarm	03/02/2025 12:35	TN: AM: 04-RPM-101 RPM Feedback LOW Low Alarm Value 4.61207 Limit 5 SN: First Shift AV:-		FC:	UN: Rajesh EA: rajesh@dreamsoftindia.co m	Sent	
2	Alarm	03/02/2025 12:35	TN: AM: 04-RPM-101 RPM Feedback LOW Low Alarm Value 4.61207 Limit 5 SN: First Shift AV:-		FC:	UN: Umesh EA: umesh@dreamsoftindia.co m	Sent	

**Configuration > Reports**

### Alarm SMS Log Report

<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <b>End Client Company Name</b>  <b>BMS</b>  <small>Header Note</small> </div>								
<b>Alarm SMS Log</b>								
<b>Filter From</b> : 01/02/2025 00:00 <b>Records From</b> : 03/02/2025 12:35			<b>Filter To</b> : 04/02/2025 23:59 <b>Records To</b> : 04/02/2025 12:17					
Sr. No	Alarm Type	Alarm Log Date Time	Alarm Details	Ack Details	Fault Details	User Details	Status	Status Details
1	Alarm	03/02/2025 12:35	TN: AM: 04-RPM-101 RPM Feedback LOW Low Alarm Value 4.61207 Limit 5 SN: First Shift AV:-		FC:	UN: Rajesh MN: +918097493388	Sent	2025-02-03 12:36:29 OK
2	Alarm	03/02/2025 12:35	TN: AM: 04-RPM-101 RPM Feedback LOW Low Alarm Value 4.61207 Limit 5 SN: First Shift AV:-		FC:	UN: Umesh MN: +919823986013	Sent	2025-02-03 12:36:32 OK
3	Alarm	03/02/2025 12:35	TN: AM: 04-RPM-101 RPM Feedback LOW Low Alarm Value 4.61207 Limit 5 SN: First Shift		FC:	UN: Roshni MN: +918097492299	Sent	2025-02-03 12:39:36 OK

**Configuration > Reports**

## Alarm Fault Analysis Report

**End Client Company Name****BMS**

Header Note

**Fault Analysis****Filter From** : 03/02/2025 00:00**Filter To** : 04/02/2025 23:59**Records From** : 14/Oct/2023 12:43:48**Records To** : 04/Feb/2025 13:29:06

Sr. No	Fault Category	Fault	Count
1	DCS	Display error	3
2	Electrical	Motor	2
3	Instrument	Flow Indicator	2
4	Mechanical	penstock	1
5	Facility	Lighting	2



## Configuration &gt; Reports

## User Audit Trail Report

End Client Company Name

BMS

Header Note

## User Audit Trail

Filter From : 01/Feb/2023 00:00:00

Filter To : 04/Feb/2025 23:59:59

Records From : 14/Oct/2023 12:43:48

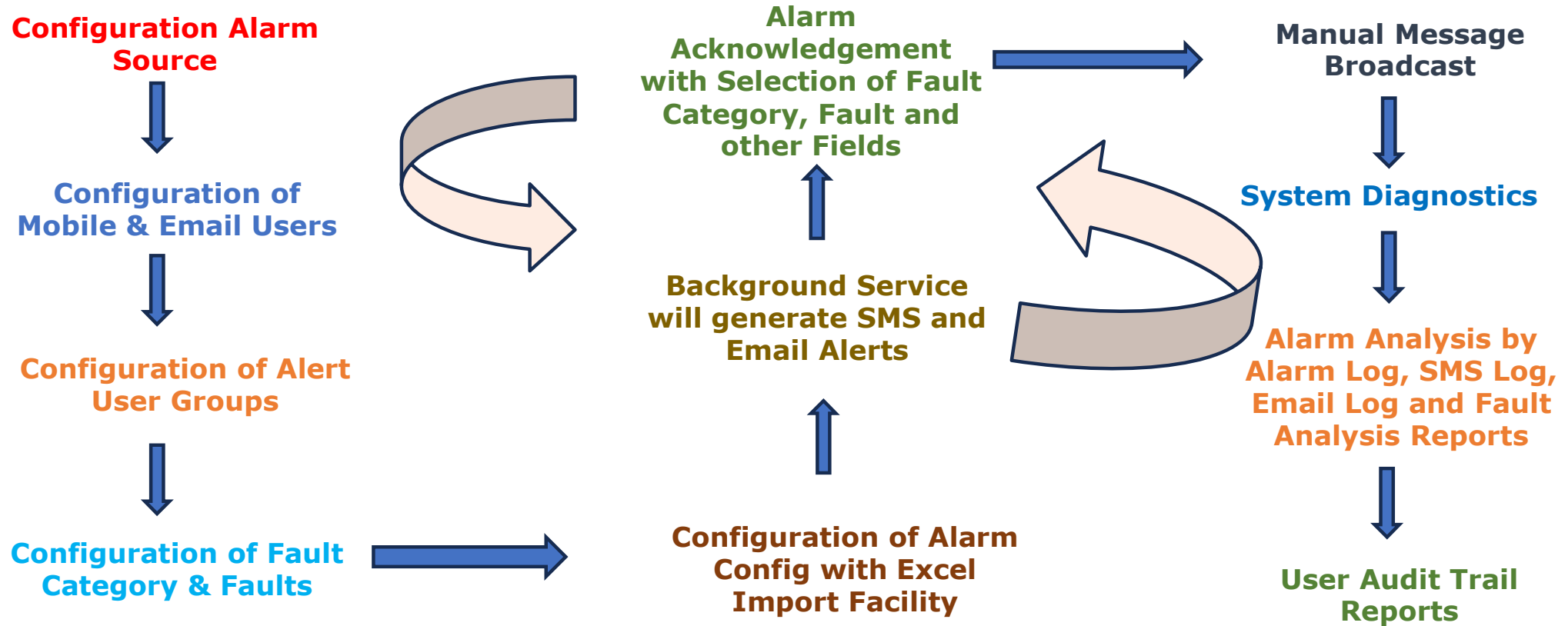
Records To : 04/Feb/2025 13:29:06

Sr. No	Log Date Time	Login Name	Event
1	14/Oct/2023 12:43:48	admin	User Logged in Successfully
2	14/Oct/2023 12:44:00	admin	Password Changed Successfully
3	14/Oct/2023 12:44:00	admin	User Logged Out Successfully
4	14/Oct/2023 12:44:14	admin	User Logged in Successfully
5	14/Oct/2023 13:03:17	admin	User Exited Application
6	31/May/2024 14:39:59	admin	User Logged in Successfully
7	31/May/2024 14:40:14	admin	Password Changed Successfully
8	31/May/2024 14:40:14	admin	User Logged Out Successfully
9	31/May/2024 14:40:28	admin	User Logged in Successfully
10	30/Jan/2025 12:36:58	admin	User Logged in Successfully

## Application Architecture



## Application Flow





**Thank You**

**Experts in Industrial Automation Software Products & Solutions**

**| Quality | Commitment | Innovation | Service Excellence |**

