



SMS ALARM APPLICATION



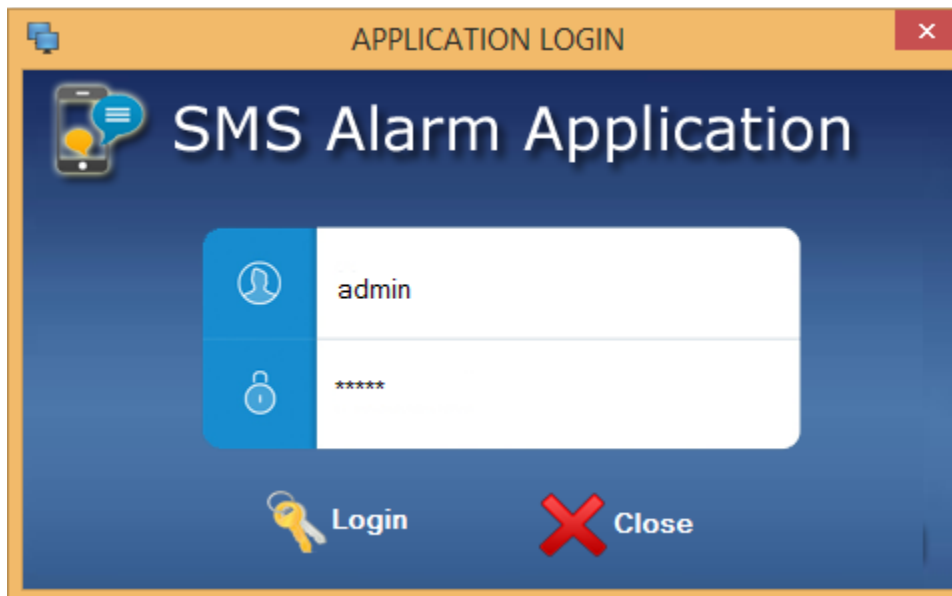
1. Activation Screen



1. **Activate:** Click on activate to activate the license version of the application.
2. **Continue Demo:** Click on continue Demo to run the demo version of application.

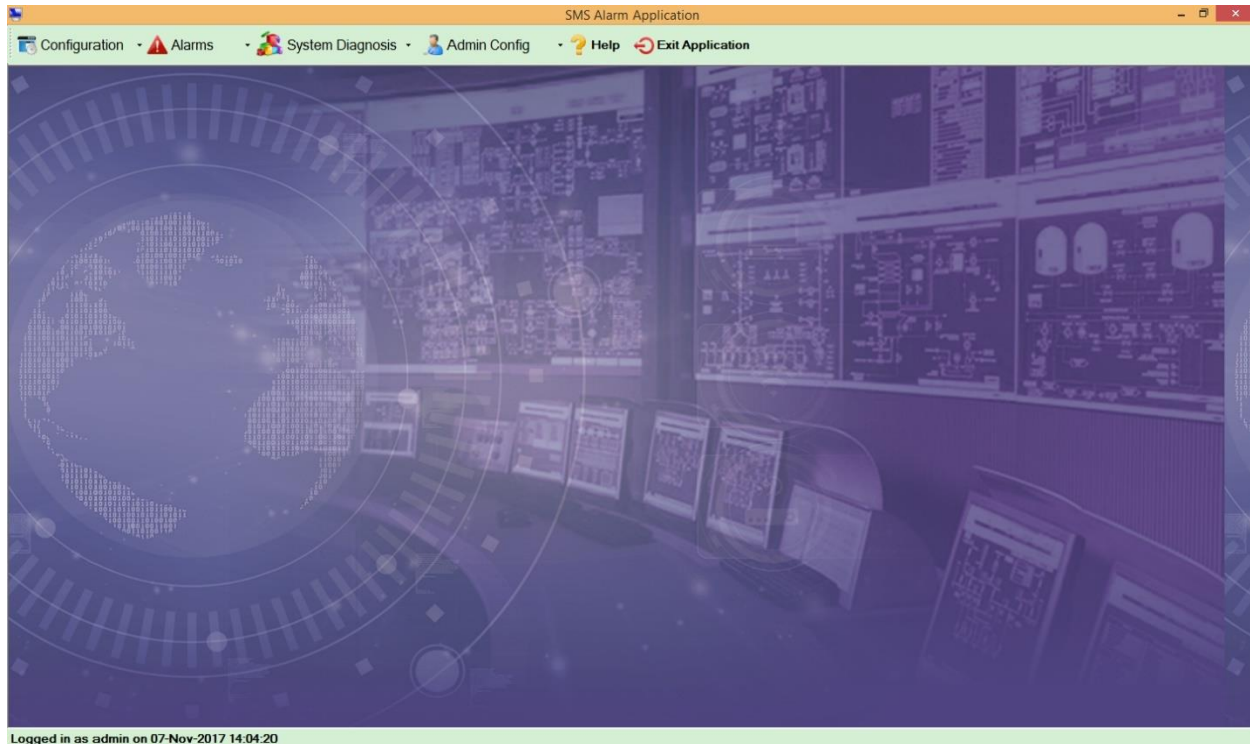
2. Login Screen

Enter the appropriate id and password and then click on login button.



NOTE: BY DEFAULT, ID WILL BE “admin” AND PASSWORD WILL BE “admin”.

3. Home Screen

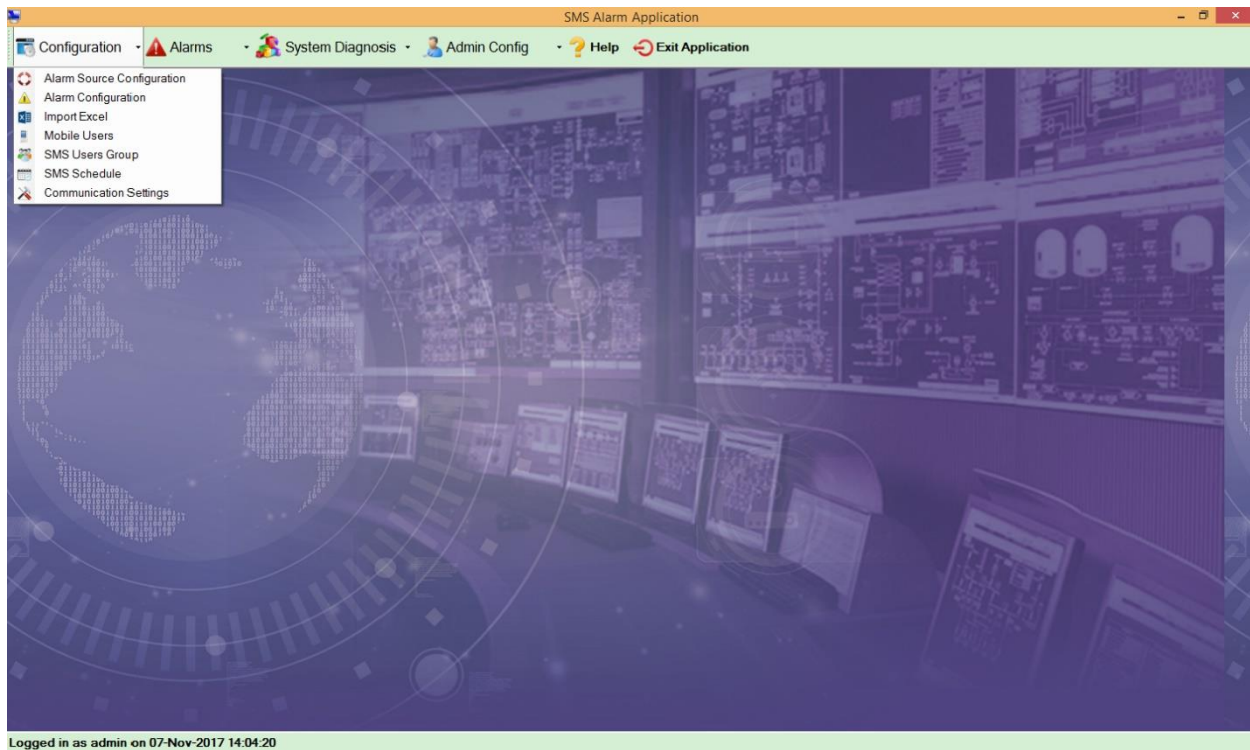


1. **Configuration:** It is used for setting SMS alarm configuration. It has the following menu items:
 - a. Alarm Source Configuration
 - b. Alarm Configuration
 - c. Import Excel
 - d. Mobile Users
 - e. SMS Users Group
 - f. SMS Schedule
 - g. Communication Settings
2. **Alarm:** It is used to get the details of the alarm logs and pending alarms. It has the following menu items:
 - a. Alarm Logs
 - b. Pending Alarm
3. **System Diagnosis:** It is used to diagnose the system for testing and monitoring. It has the following menu items:
 - a. SMS Testing
 - b. Application Diagnosis
 - c. Tag Monitoring
4. **Admin Config:** It is used for the admin configuration settings like backup or restore database etc. It has the following menu items:

- a. Application User
 - b. Backup Database
 - c. Restore Database
 - d. Data Deletion
5. **Help:** It will help you with the usage of application by opening the help file.
6. **Exit Application:** It will exit the application.

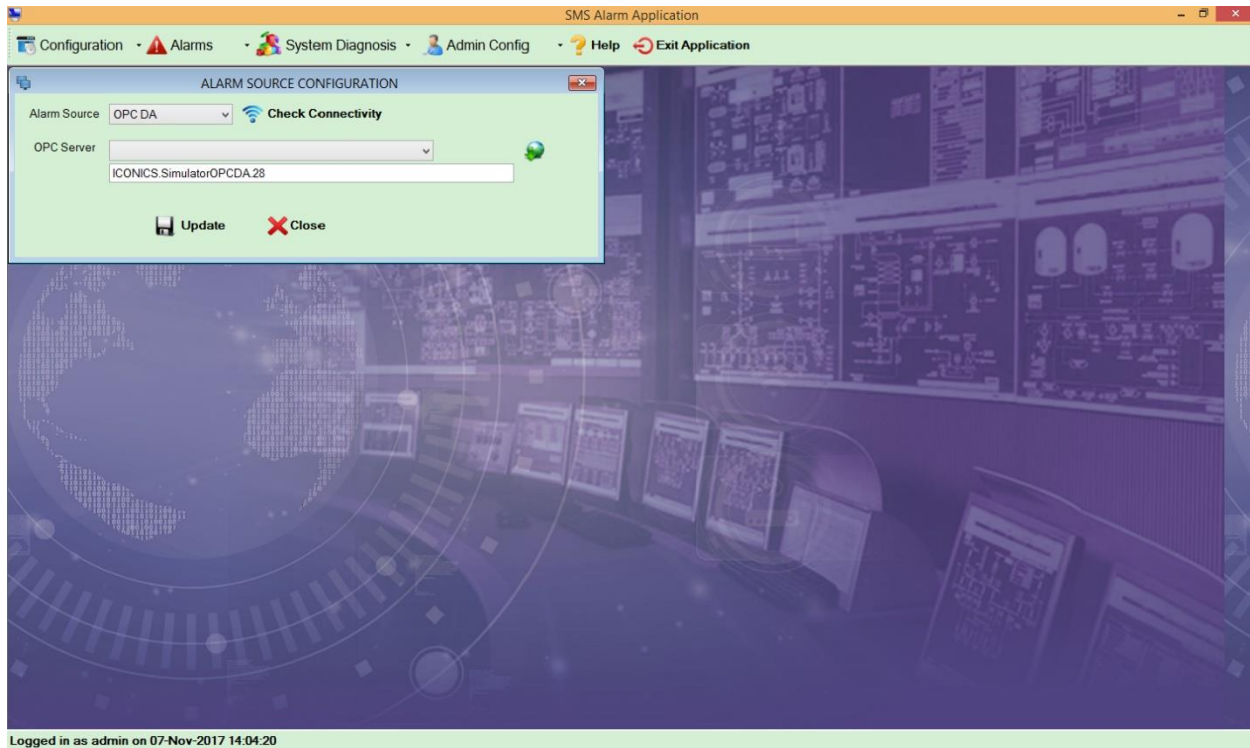
4. Configuration Menu Items


Click on Configuration to view its menu items




1. **Alarm Source Configuration:** It is used for connecting to the OPC Servers.
2. **Alarm Configuration:** It is used for alarm configuration settings i.e. for adding tags manually.
3. **Import Excel:** It is used for importing excel file which consist of multiple tags.
4. **Mobile Users:** It is used for adding a new mobile user name and number or edit the previous data
5. **SMS Users Group:** It is used to create a new group or edit previous group
6. **SMS Schedule:** It is used to schedule the SMS i.e. how frequently and at what time SMS should be sent
7. **Communication Settings:** It is used to set the communication settings

1. Alarm Source Configuration

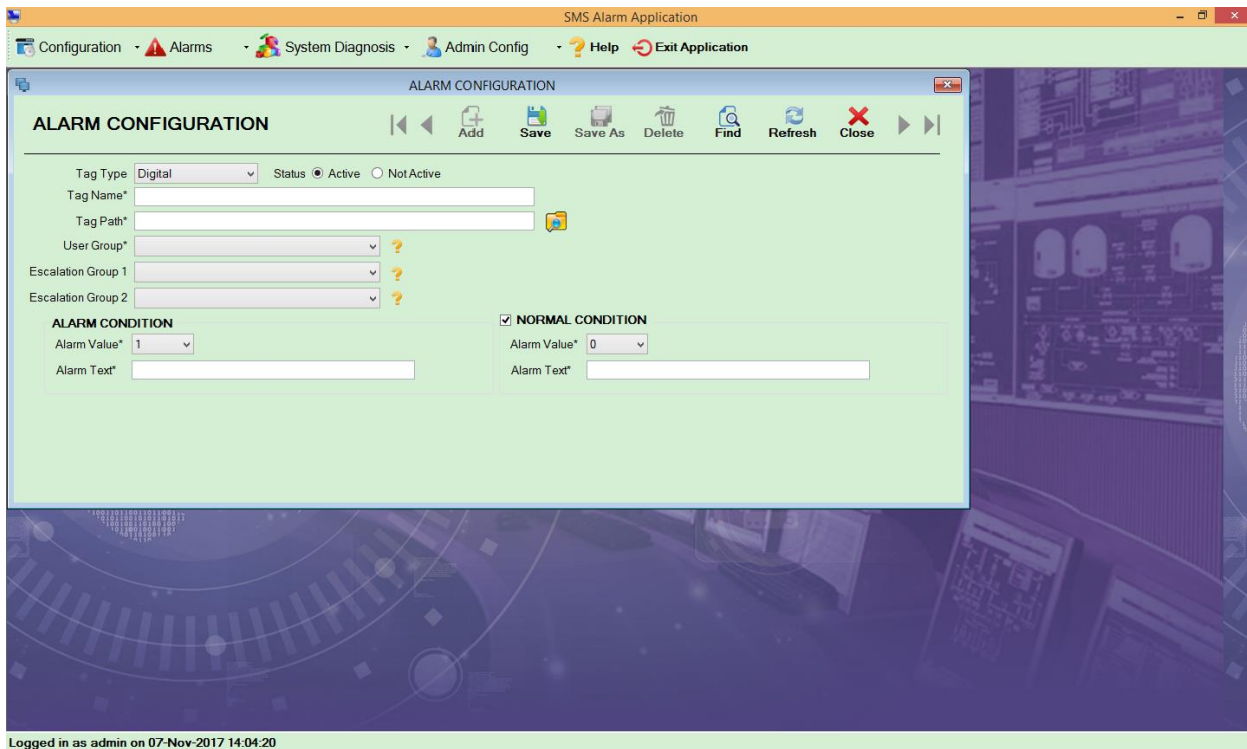


1. **Alarm Source:** It consists of following types of OPC:
 - a. **OPC DA:** OPC Data Access
 - b. **OPC UA:** OPC Unified Architecture
 - c. **OPC AE:** OPC Alarm & Event
2. **Check Connectivity:** To check the connectivity of OPC Server, Click on Check Connectivity.
3. **OPC Server:** To populate the OPC Servers Click on  icon, Select the appropriate OPC Server from the dropdown.
4. **Update:** After Configuring all details and checking connectivity, Click on Update button which will update all the details.
5. **Close:** Click on close to close the screen.

2. Alarm Configuration

1. **Tag Type:** Select Tag Type from the dropdown i.e. either digital or analog. If Digital Tag Type selected, then digital screen will appear and if analog tag is selected then analog screen will be appear with high and low conditions.
2. **Status:** Select the status whether active or not active. If tag is not in used, then the tag can be made not active.
3. **Tag Name:** Enter the tag name.
4. **Tag Path:** Enter the tag path or click on  button to browse the path.
5. **User Group:** Select the user group from dropdown if the tag is critical. It is mandatory
6. **Escalation Group 1:** It is optional. If there's a delay and tag is still in alarm condition and not ack then it will be escalated to escalation group 1
7. **Escalation group 2:** It is optional. If there's a delay and tag is still in alarm condition and not ack then it will be escalated to escalation group 2

If tag type selected as Digital



The screenshot displays the 'SMS Alarm Application' window. The 'ALARM CONFIGURATION' sub-window is active, showing a form for setting up an alarm. The 'Tag Type' is set to 'Digital' and 'Status' is 'Active'. The 'Tag Name' and 'Tag Path' fields are empty. The 'User Group', 'Escalation Group 1', and 'Escalation Group 2' are also empty. The 'ALARM CONDITION' section has 'Alarm Value' set to '1' and an empty 'Alarm Text' field. The 'NORMAL CONDITION' section is checked, with 'Alarm Value' set to '0' and an empty 'Alarm Text' field. The background of the application window shows a blurred image of a control room with multiple monitors.

Logged in as admin on 07-Nov-2017 14:04:20

Alarm Condition: It specifies when alarm value will be high

1. **Alarm value:** Select the alarm value from 0 or 1.
2. **Alarm Text:** Enter the alarm Text.

Normal Condition: It specifies when alarm value is low. If it is not checked, then alarm text for normal condition will not appear

If Tag Type Selected as Analog

ALARM CONFIGURATION

Tag Type: Analog Status: ☒ Active ☐ NotActive

Tag Name*

Tag Path*

User Group*

Escalation Group 1

Escalation Group 2

LOW CONDITION

Alarm Value*

Alarm Text*

HIGH CONDITION

Alarm Value*

Alarm Text*

☒ **LOW LOW CONDITION**

Alarm Value*

Alarm Text*

☒ **HIGH HIGH CONDITION**

Alarm Value*

Alarm Text*

Logged in as admin on 07-Nov-2017 14:04:20

Low Condition: It specifies the low condition.

Low Low Condition: It is optional, but its alarm value should be low then low condition alarm value.

High Condition: It specifies the high condition. Its alarm value should be more than Low condition alarm value.

High High Condition: It is optional, but its alarm value should be high then high condition alarm value.

1. **Alarm value:** Enter the appropriate alarm value.
2. **Alarm Text:** Enter the alarm Text.

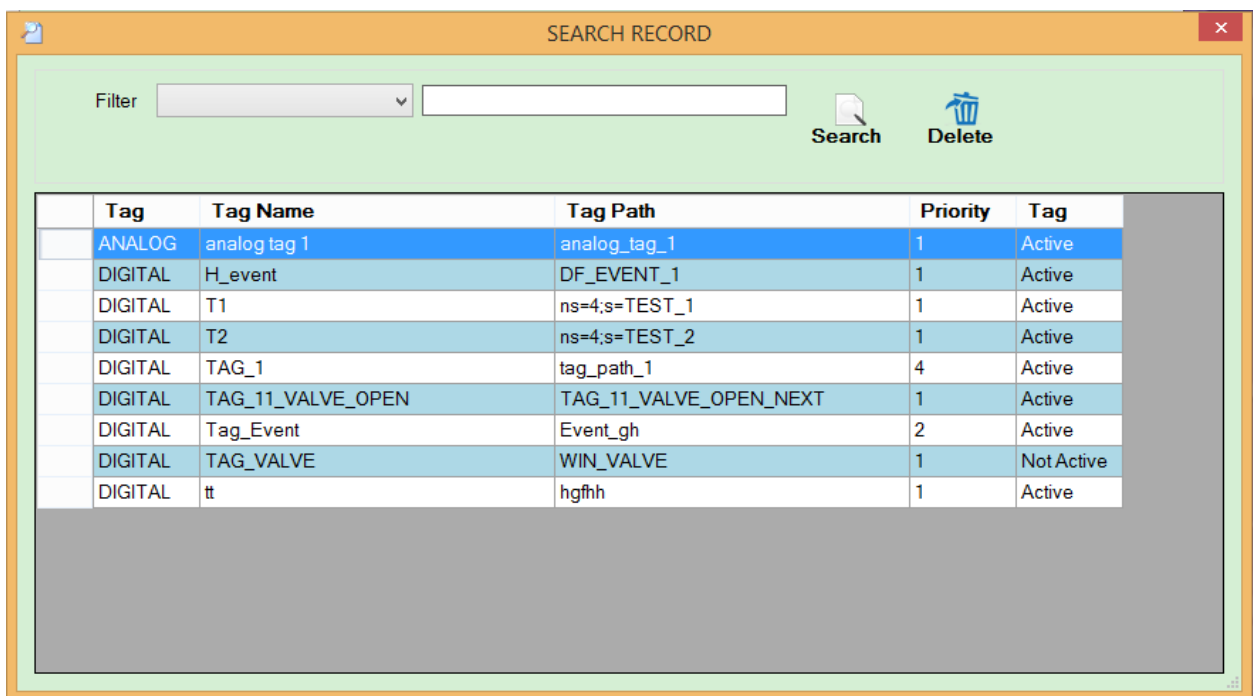
Menu



1. **Add:** It is used to add new alarm configuration details.
2. **Save:** It is used to save the file with the tag name mentioned.
3. **Save As:** It is used to save the file as per the new name user wants.

4. **Delete:** It is used to delete the entire tag file.
5. **Find:** It is used to find the previous records.
6. **Refresh:** It is used to reload the entire the screen.
7. **Close:** It is used for closing the screen.
8. **First Record:** Click on it to go to first record.
9. **Last Record:** Click on it to go to last record.
10. **Next Record:** Click on it to view next record.
11. **Previous Record:** Click on it to view previous record.

Find Screen



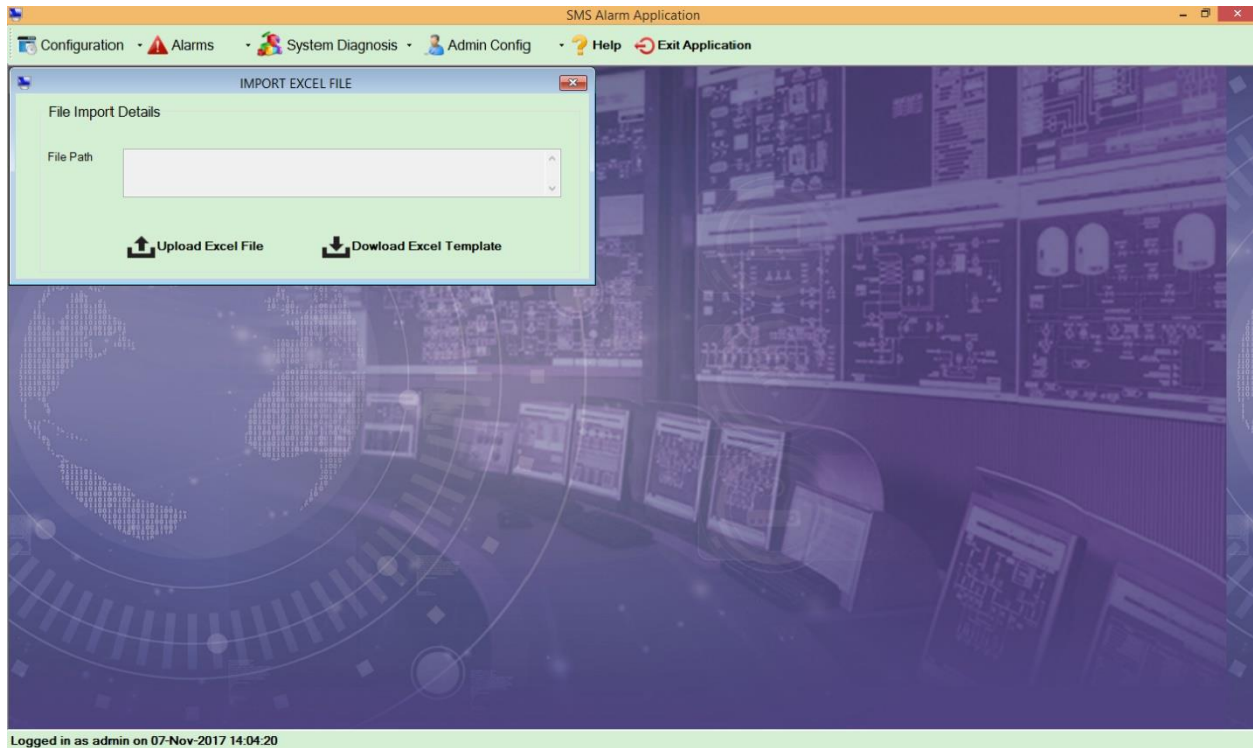
The screenshot shows a window titled "SEARCH RECORD" with a close button in the top right corner. Below the title bar, there is a "Filter" section with a dropdown menu and a text input field. To the right of the filter are two buttons: "Search" (with a magnifying glass icon) and "Delete" (with a trash can icon). Below these elements is a table with the following data:

	Tag	Tag Name	Tag Path	Priority	Tag
	ANALOG	analog tag 1	analog_tag_1	1	Active
	DIGITAL	H_event	DF_EVENT_1	1	Active
	DIGITAL	T1	ns=4;s=TEST_1	1	Active
	DIGITAL	T2	ns=4;s=TEST_2	1	Active
	DIGITAL	TAG_1	tag_path_1	4	Active
	DIGITAL	TAG_11_VALVE_OPEN	TAG_11_VALVE_OPEN_NEXT	1	Active
	DIGITAL	Tag_Event	Event_gh	2	Active
	DIGITAL	TAG_VALVE	WIN_VALVE	1	Not Active
	DIGITAL	tt	hgfh	1	Active

1. **Filter:** It is used to filter the search as per the selected filter and the text in the textbox next to it. It has following type of filter:
 - a. Tag Name
 - b. Tag Path
 - c. Status
2. **Search:** Click on search to search the record from grid as per the filter.
3. **Delete:** Click on delete to delete the record.

Select the record from the grid by double click on it, the entire details will be shown in alarm configuration screen.

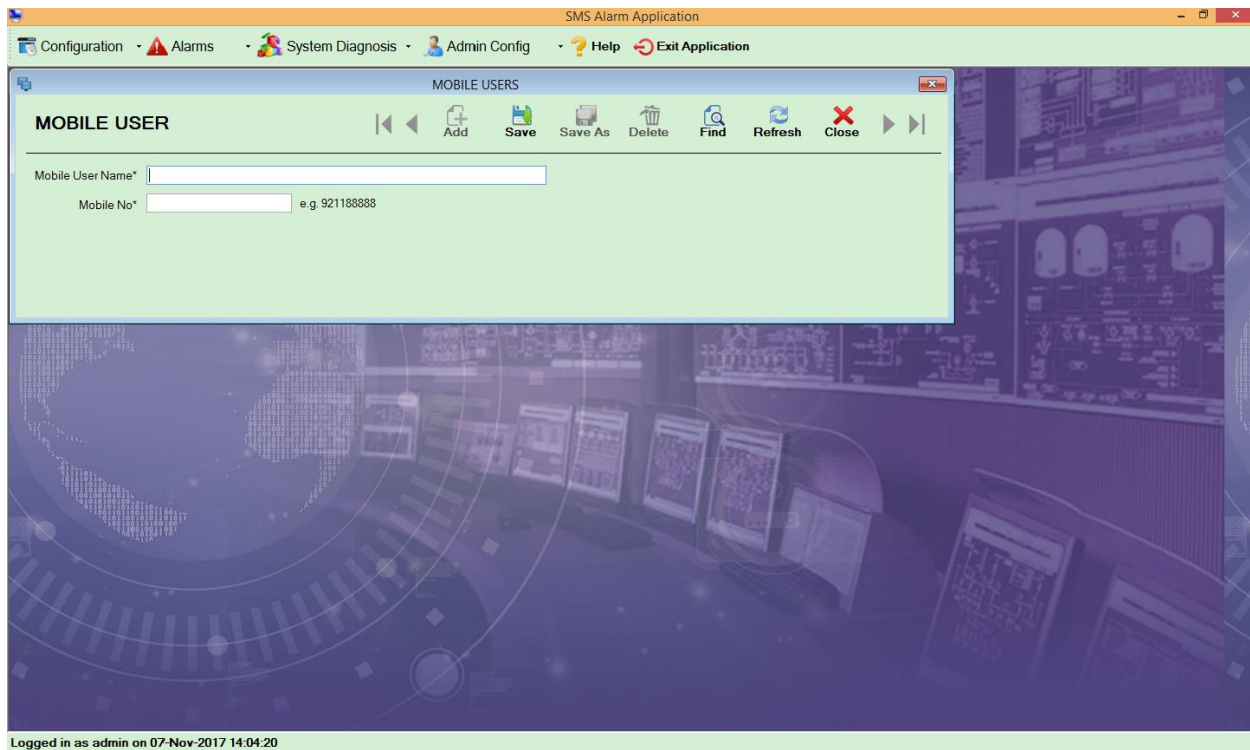
3. Excel Import



It is used to import the excel file

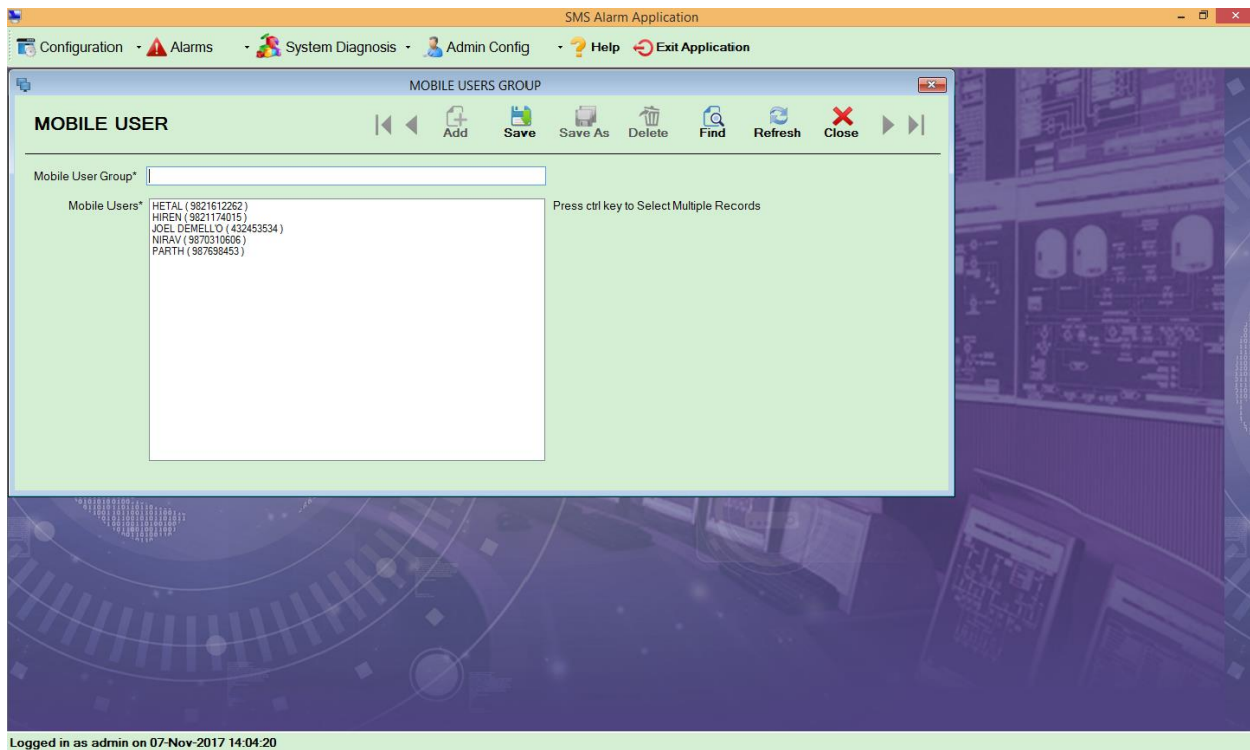
Download Excel Template: Once clicked on download excel template, it will create a sample excel file at the path specified by the user and it will get open by itself. Enter all the details in opened file only and then save it. Once you close the file, selected file path will appear in the file path field. Click on upload excel file to process the selected file. If File Path is blank, then you can select the path by clicking on Upload Excel.

4. Mobile Users



1. **Mobile User Name:** Enter the name of the mobile user.
2. **Mobile Number:** Enter the mobile number of the user whose user name is entered.

5. SMS Users Group



1. **Mobile User Group:** Enter the mobile user group name.
2. **Mobile Users:** Select the mobile users whom you want to add to the group. Multiple mobile users can be selected.

6. SMS Schedule

SMS SCHEDULER

Schedule Name* Status ☒ Active ☐ Not Active

Schedule Time* 00:00

User Group*

Frequency*


Header Text HEADER TEXT e.g. DAILY ENERGY GENERATION

Message Format

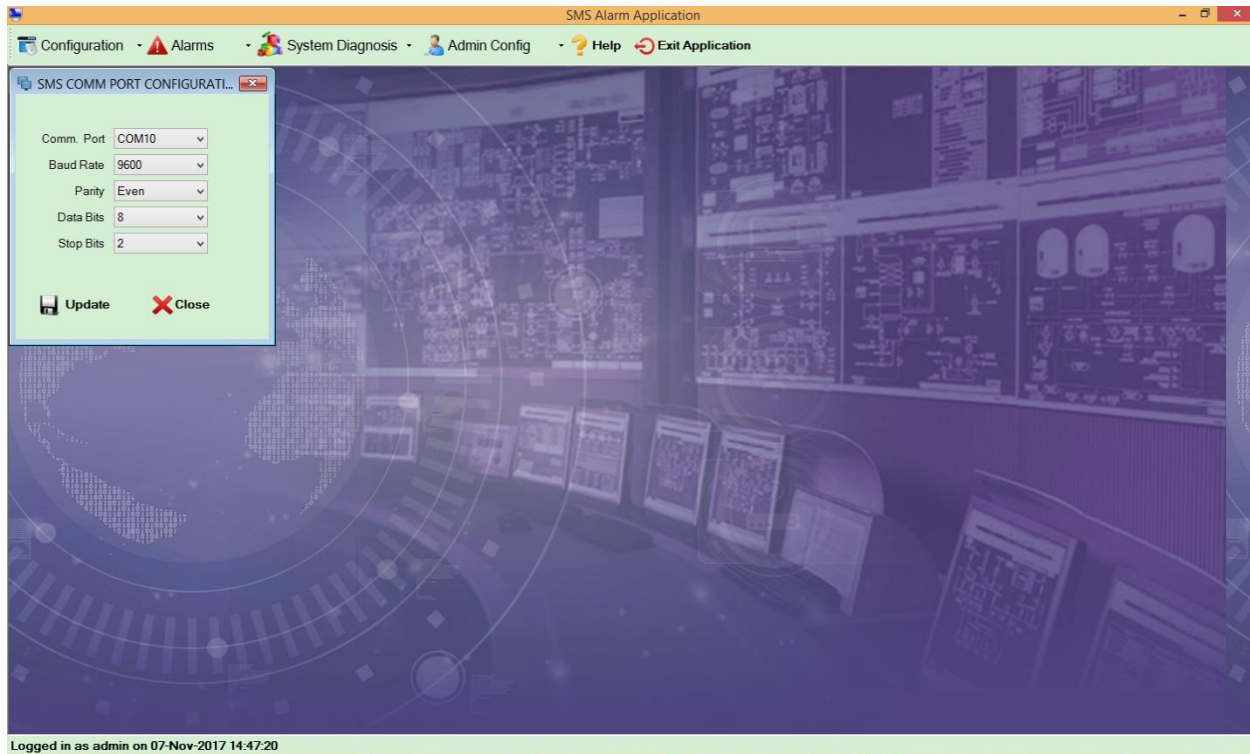
TAG NAME e.g. BOILER TEMP	<input type="text"/>	<input type="button" value="TAG UNIT e.g. °C"/>
TAG NAME e.g. HEATER TEMP	<input type="text"/>	<input type="button" value="TAG UNIT e.g. °C"/>
TAG NAME	<input type="text"/>	<input type="button" value="TAG UNIT"/>
TAG NAME	<input type="text"/>	<input type="button" value="TAG UNIT"/>
TAG NAME	<input type="text"/>	<input type="button" value="TAG UNIT"/>

Footer Text

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1. **Schedule Name:** Enter the schedule name.
2. **Status:** Select the status i.e. either active or not active.
3. **Schedule Time:** Select the time when you want to send the SMS.
4. **User Group:** Select the user group from dropdown to whom you want to send the SMS.
5. **Frequency:** Select the frequency from the dropdown i.e. whether you want to send SMS daily, monthly etc.
6. **Header Text:** Enter the header text that you want to display in header section of SMS.
7. **Message Format:** Enter Tag Name, Tag Path and Tag Unit. At least, one field is mandatory. Click on  to select OPC tag.
8. **Footer Text:** Enter the footer text that you want to display in footer section of SMS.

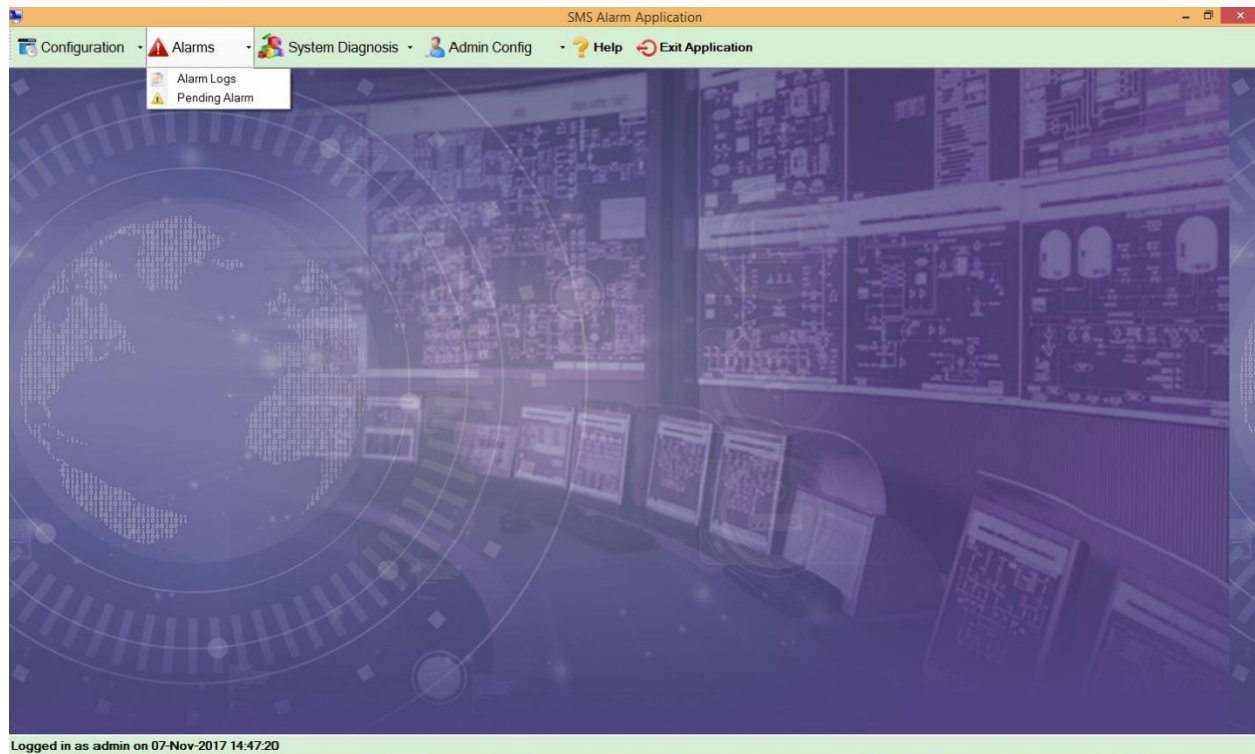
7. Communication Settings



1. **Comm. Port:** Select the appropriate comm port from dropdown as per your port settings in the system.
2. **Baud Rate:** Select the baud rate from dropdown as per your port settings in the system.
3. **Parity:** Select the parity from dropdown as per your port settings in the system.
4. **Data Bits:** Select the data bits from dropdown as per your port settings in the system.
5. **Stop Bits:** Select the stop bits from dropdown as per your port settings in the system.

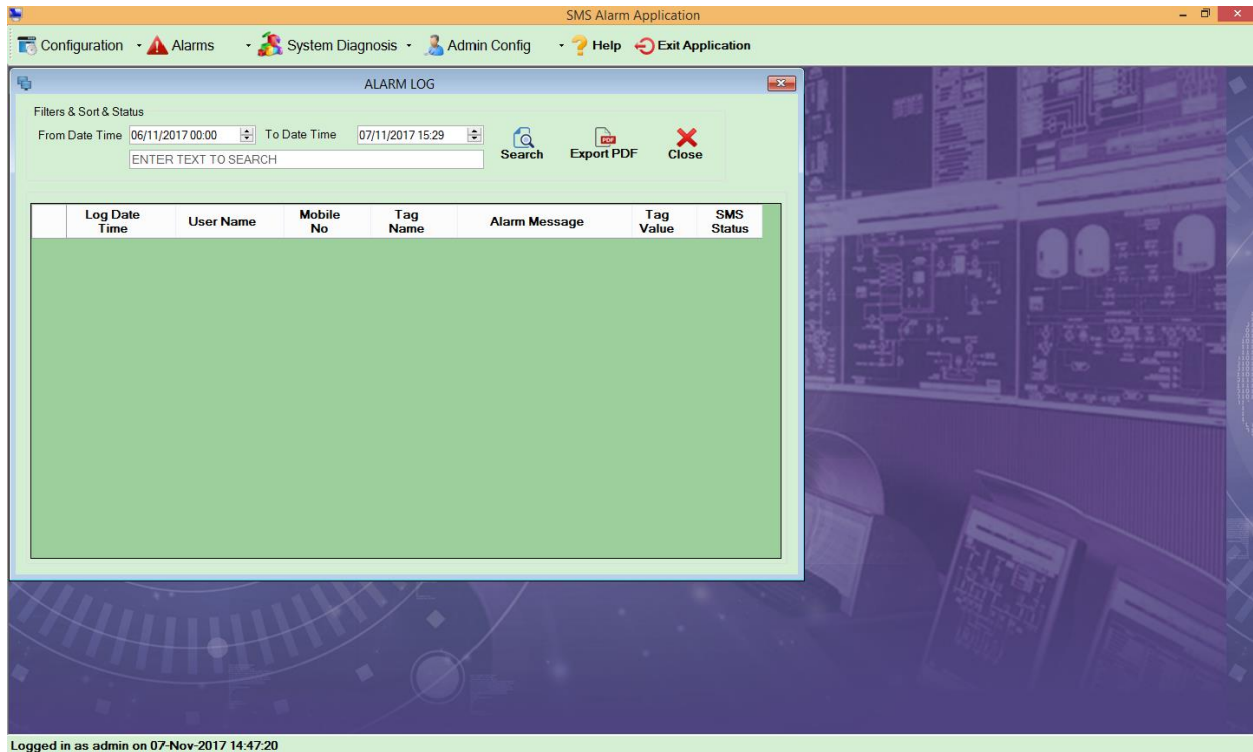
5. Alarm Menu Items

Click on Alarm to view its menu items

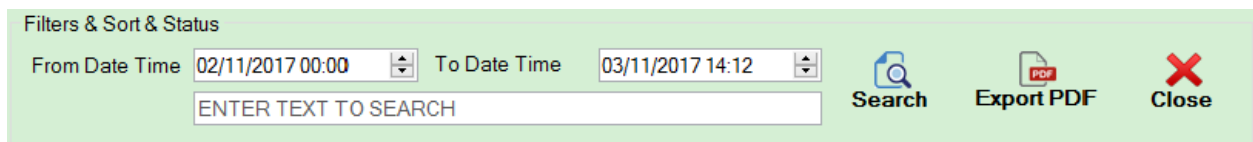


1. **Alarm Log:** It will Display the alarm logs between From date & time - To date & time.
2. **Pending Alarms:** It will display the pending alarm logs.

1. Alarm Log



It will display the alarm log information between the From Date & Time – To Date & Time.



1. **From Date Time:** Select the from date time from when you want to view the logs.
2. **To Date Time:** Select the To Date Time till when you want to view the logs.
3. **Search:** Enter the text you want to search and click on search. It will show the data in grid for the searched result.
4. **Export PDF:** In order, to view the whole data in pdf file, click on Export PDF.
5. **Close:** Click on close to close the screen.

2. Pending Alarms

PENDING ALARM LOG

Refresh Ack All Close

Unique key	Log Date Time	Tag Name	User Name	Mobile No	Message
B8036FA1	2017/10/27 15:11:52	NA	HETAL	9821612262	TESTING
155BFAFF	2017/10/27 15:11:52	NA	HIREN	9821174015	TESTING
1F5634	2017/10/27 15:11:52	NA	JOEL DEMELL'O	432453534	TESTING
FEDD104B	2017/10/27 15:11:53	NA	NIRAV	9870310606	TESTING
FC0F12F1	2017/10/27 15:11:53	NA	PARTH	987698453	TESTING
FC1812FD	2017/10/27 15:11:53	NA	NA	88888888	TESTING
83297CEA	2017/10/27 15:14:34	NA	HETAL	9821612262	TESTING
9B321F22	2017/10/27 15:14:34	NA	HIREN	9821174015	TESTING
F487674B	2017/10/27 15:14:35	NA	JOEL DEMELL'O	432453534	TESTING
7F2B39B0	2017/10/27 15:14:35	NA	NIRAV	9870310606	TESTING
AF3C7E1B	2017/10/27 15:14:35	NA	PARTH	987698453	TESTING
9136FE07	2017/10/27 15:14:36	NA	NA	983456678	TESTING
9127FE04	2017/10/27 15:14:36	NA	NA	98765443	TESTING
BE754517	2017/10/27 15:14:36	NA	NA	99765	TESTING
59F3F310	2017/10/27 15:18:50	NA	HETAL	9821612262	Test
6265EB0F	2017/10/27 15:18:50	NA	HIREN	9821174015	Test
6267EB0C	2017/10/27 15:18:50	NA	JOEL DEMELL'O	432453534	Test
626AEB15	2017/10/27 15:18:50	NA	NIRAV	9870310606	Test
793F475F	2017/10/27 15:18:51	NA	PARTH	987698453	Test

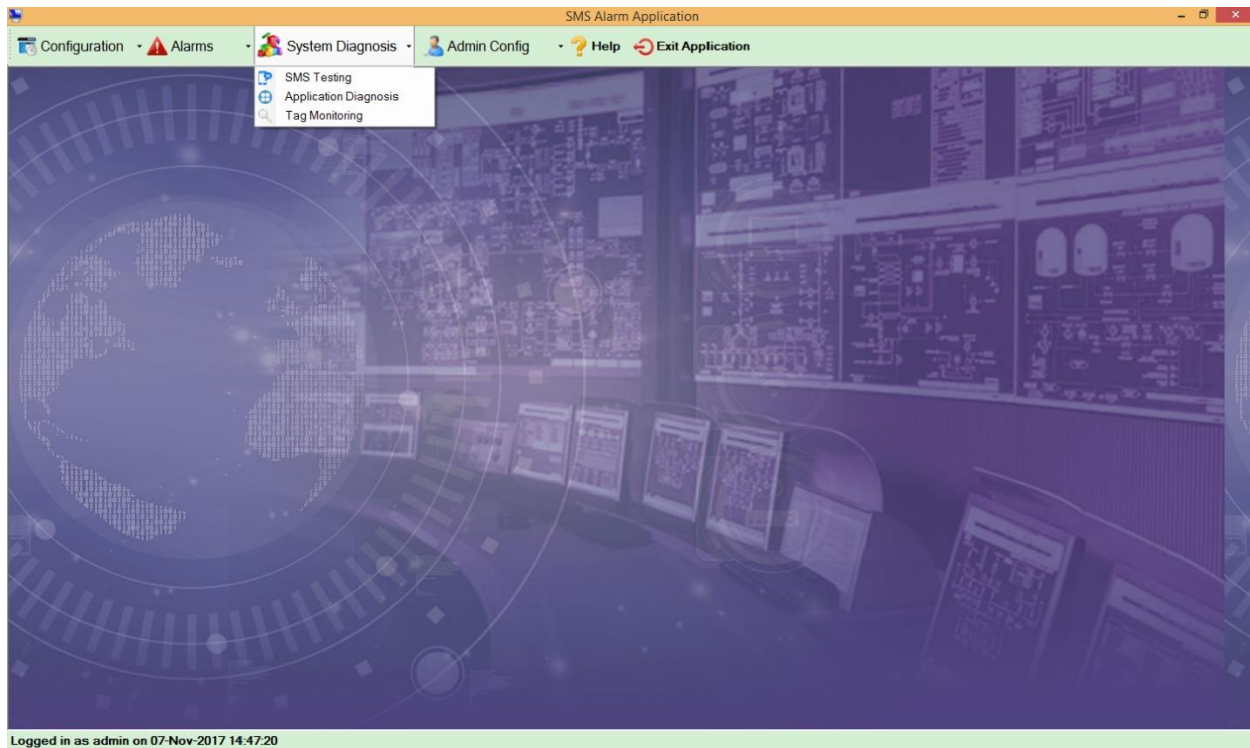
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It will display the log information for the pending alarms

1. **Refresh:** Click on refresh to reload the whole data.
2. **Ack All:** Click on Ack All to acknowledge all the logs. Once you acknowledge, its status will be changed to acknowledge.
3. **Close:** Click on close to close the screen.

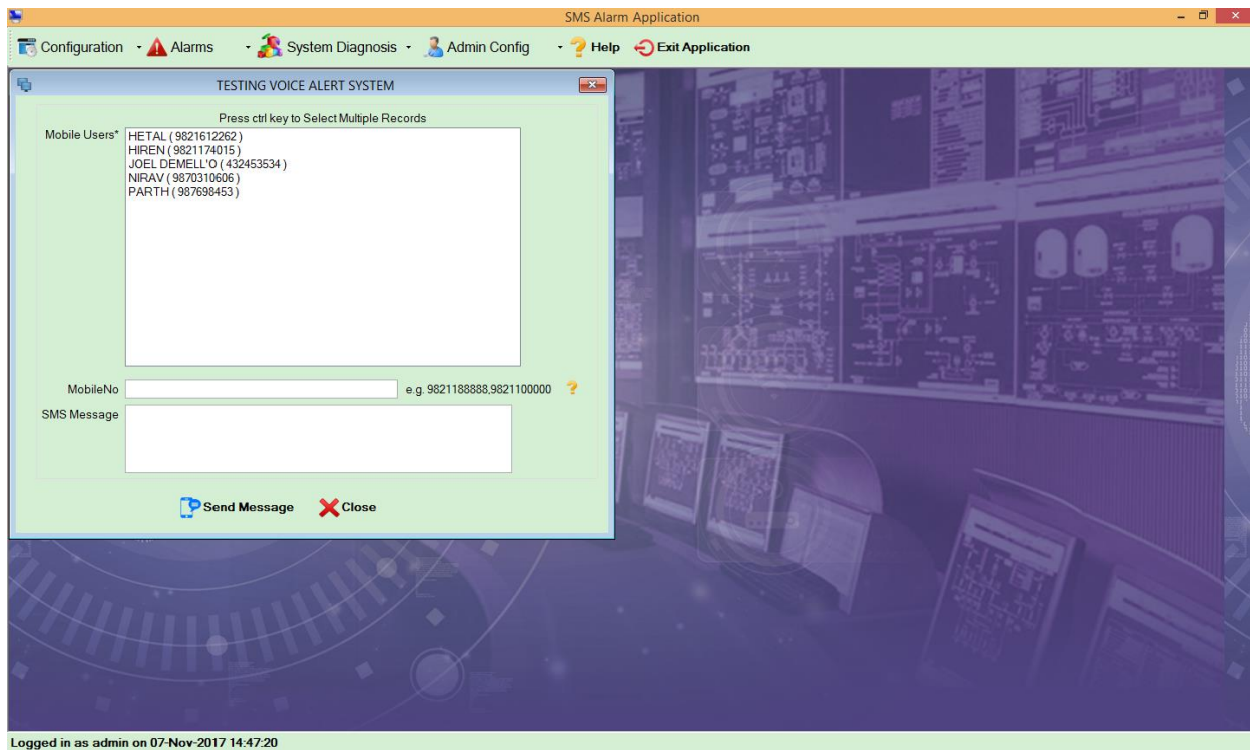
6. System Diagnosis Menu Items

Click on System Diagnosis to view its menu items



1. **SMS Testing:** It is used for the testing SMS.
2. **Application Diagnosis:** It will diagnose i.e. show the status of the service.
3. **Tag Monitoring:** It is used to monitor all the tags.

1. SMS Testing

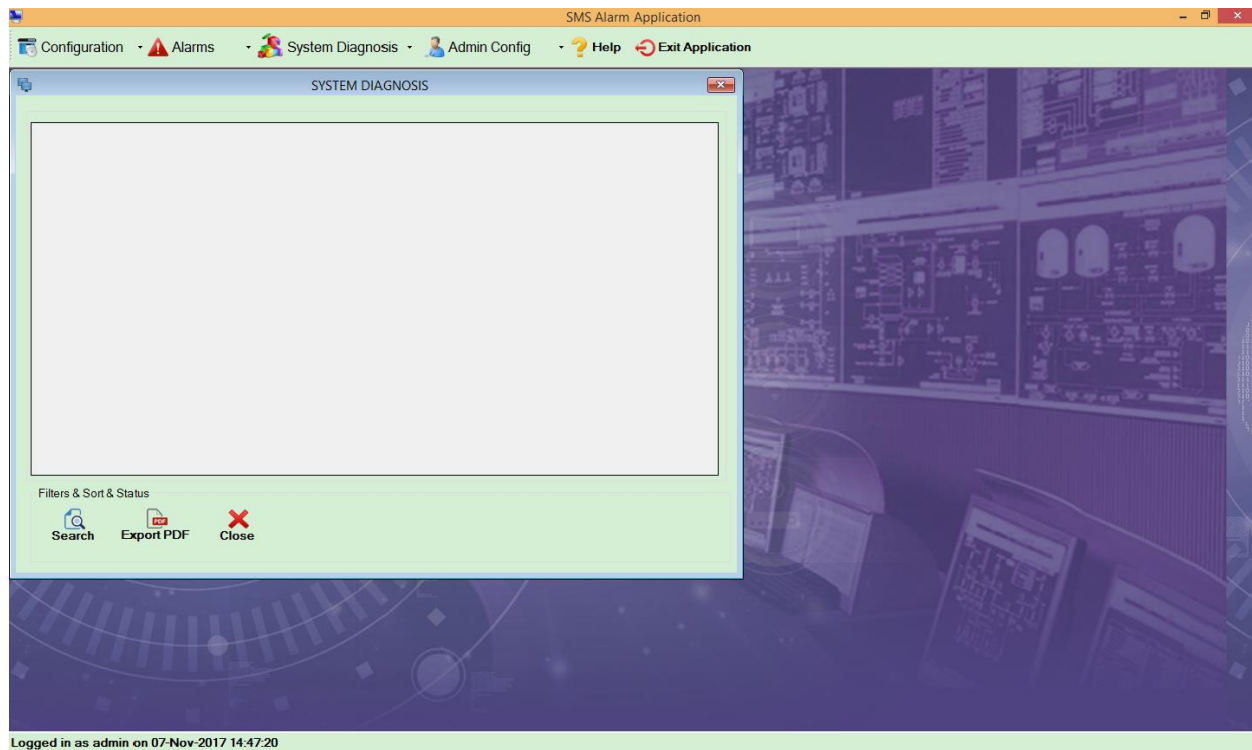


It is used for testing selected audio files

1. **Mobile Users:** Select the mobile users to whom you want to send the SMS.
2. **Mobile No.:** Enter the mobile numbers by comma separated.
3. **SMS Message:** Enter the message you want to send to the respective number.

NOTE: EITHER SELECT MOBILE USERS OR ENTER MOBILE NUMBER.

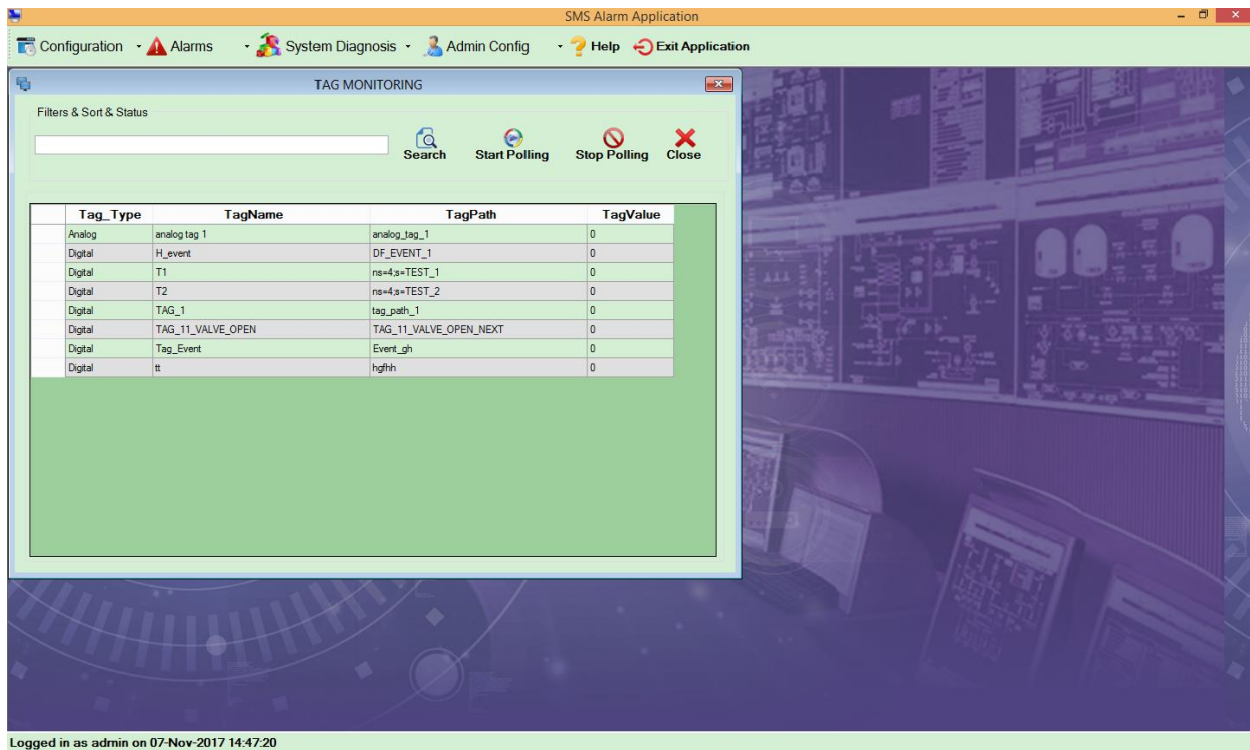
2. Application Diagnosis



It will display the current service status

1. **Search:** Click on search to search for a text.
2. **Export PDF:** Click on Export PDF to export entire diagnosed data to pdf.
3. **Close:** Click on close to close the screen.

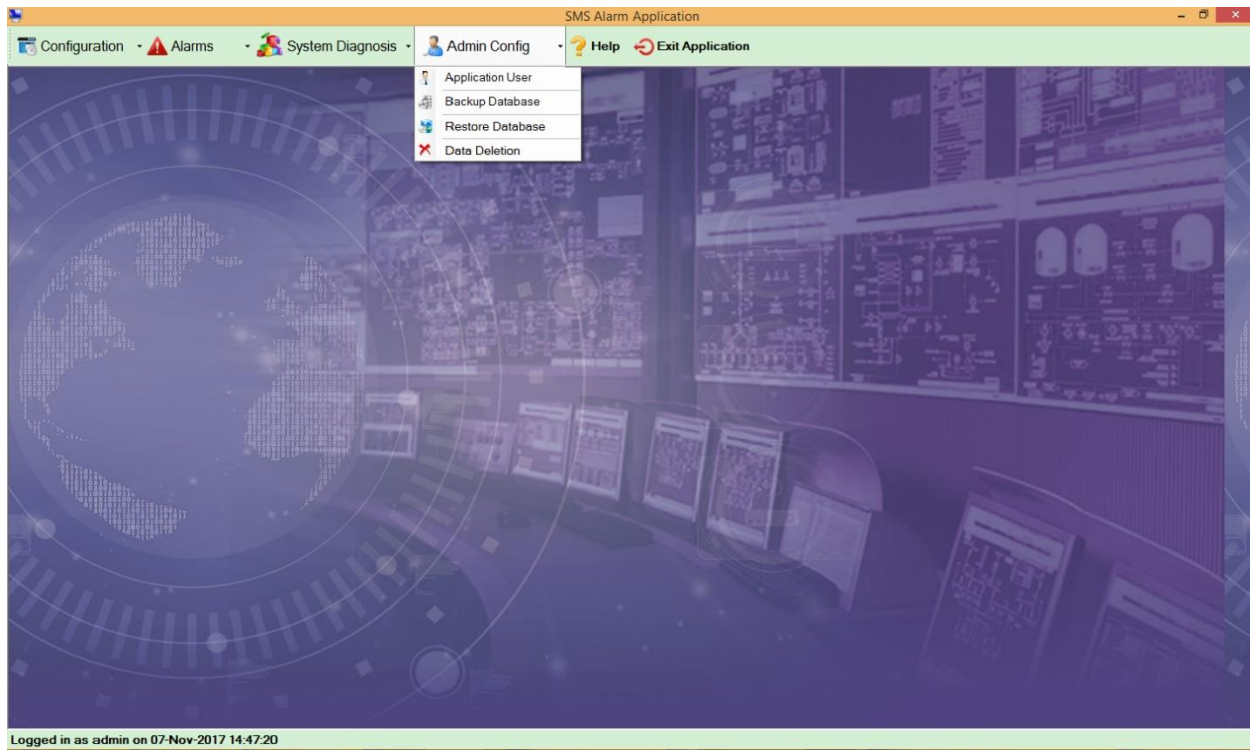
3. Tag Monitoring



1. **Search:** Click on Search to search as per the text enter in search text box.
2. **Start Polling:** Click on Start Polling to start fetching values for all the tags.
3. **Stop Polling:** Click on Stop Polling to stop fetching values for the all the tags.
4. **Close:** Click on Close to close the screen.

7. Admin Config Menu Items

Click on Admin Config to view its menu items



1. **Application User:** It is used to create a new user.
2. **Backup Database:** It is used to take backup of a database.
3. **Restore Database:** It is used to restore the database.
4. **Data Deletion:** It is used to delete the alarm log data.

1. Application User

APPLICATION USER

User Name*

Login Name*

Password*

User Type* ?

Status ☒ Active ☐ NotActive

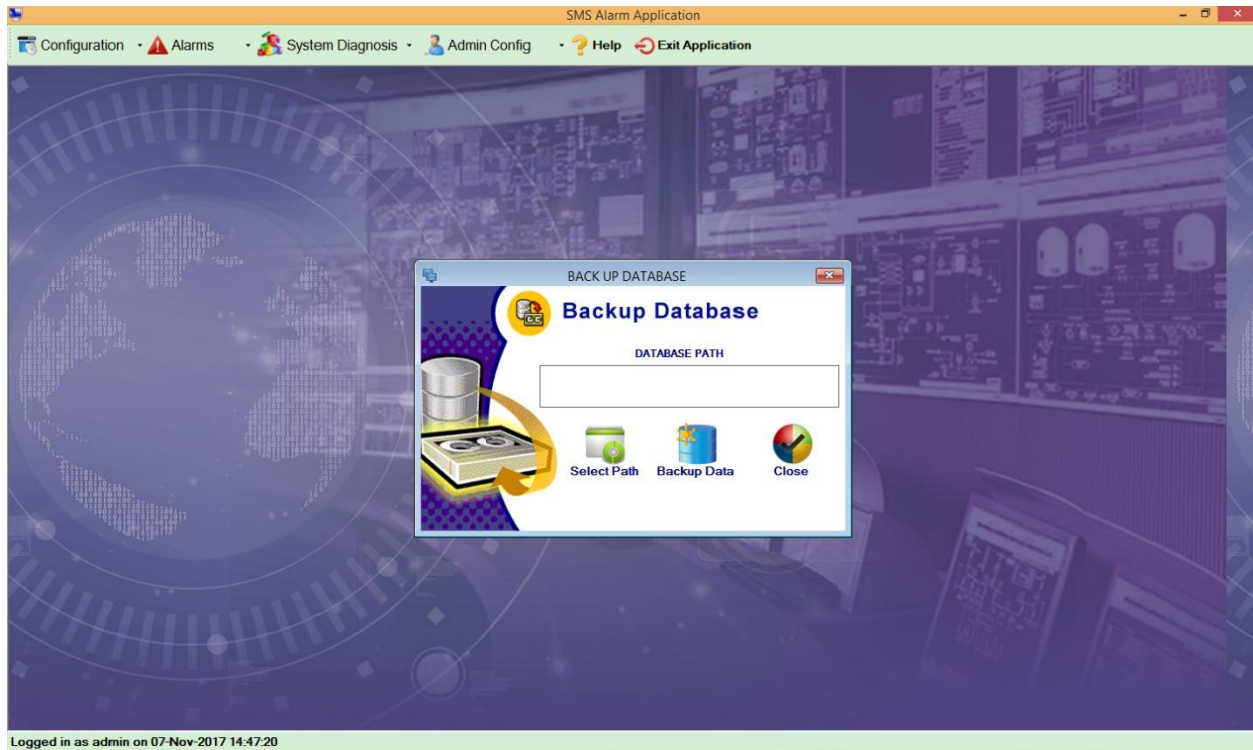
Logged in as admin on 07-Nov-2017 14:47:20

It is used to add a new user or edit or delete the existing user



1. **User Name:** Enter the name of the user.
2. **Login Name:** Enter login name.
3. **Password:** Enter the password.
4. **User Type:** Select the user type from the dropdown as show in above screen: It has two types as shown below:
 - a. Admin
 - b. Operator
5. **Status:** Select the status whether active or not active.

NOTE: ADMIN USER TYPE WILL HAVE COMPLETE ACCESS TO APPLICATION WHILE OPERATOR WILL NOT HAVE ACCESS TO CONFIGURATION AND ADMIN UTILITY

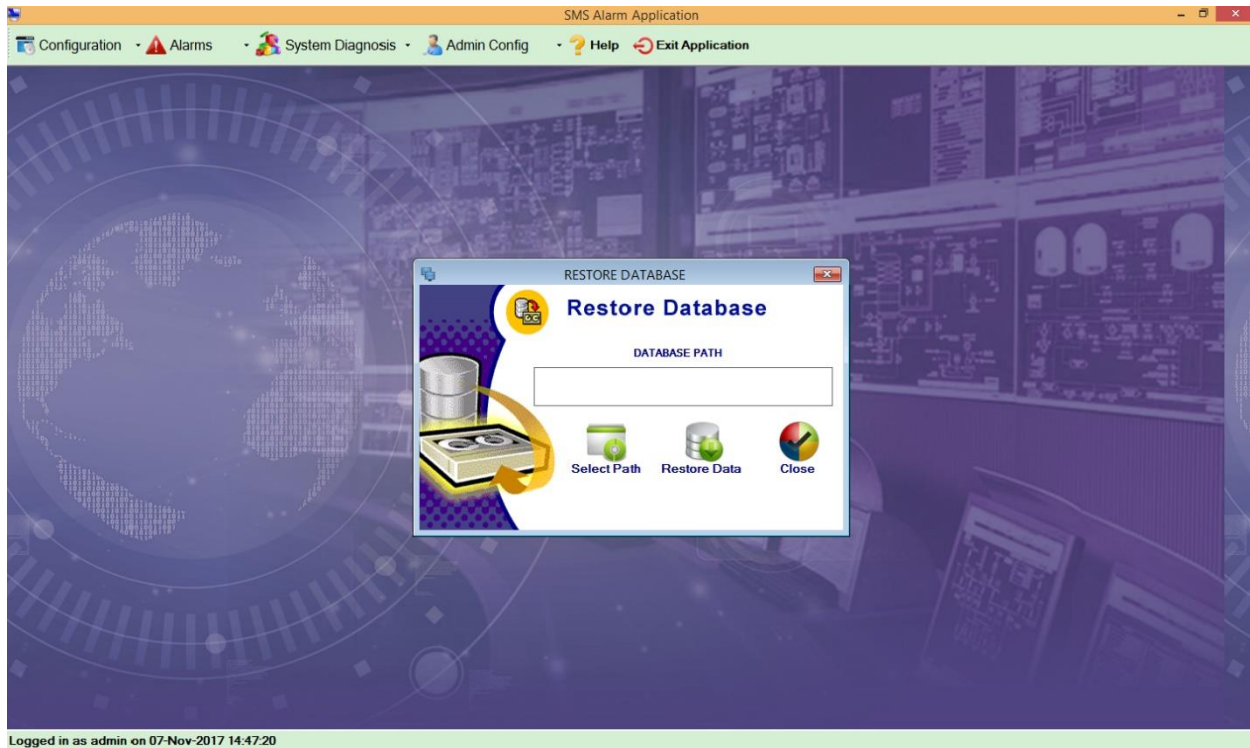
2. Backup Database





It is used to take the database backup

1. **Select Path:** Click on  [Select Path](#) where you want to take database backup.
2. **Backup Data:** Click on  [Backup Data](#) to take the database backup.
3. **Close:** Click on Close to Close the screen.

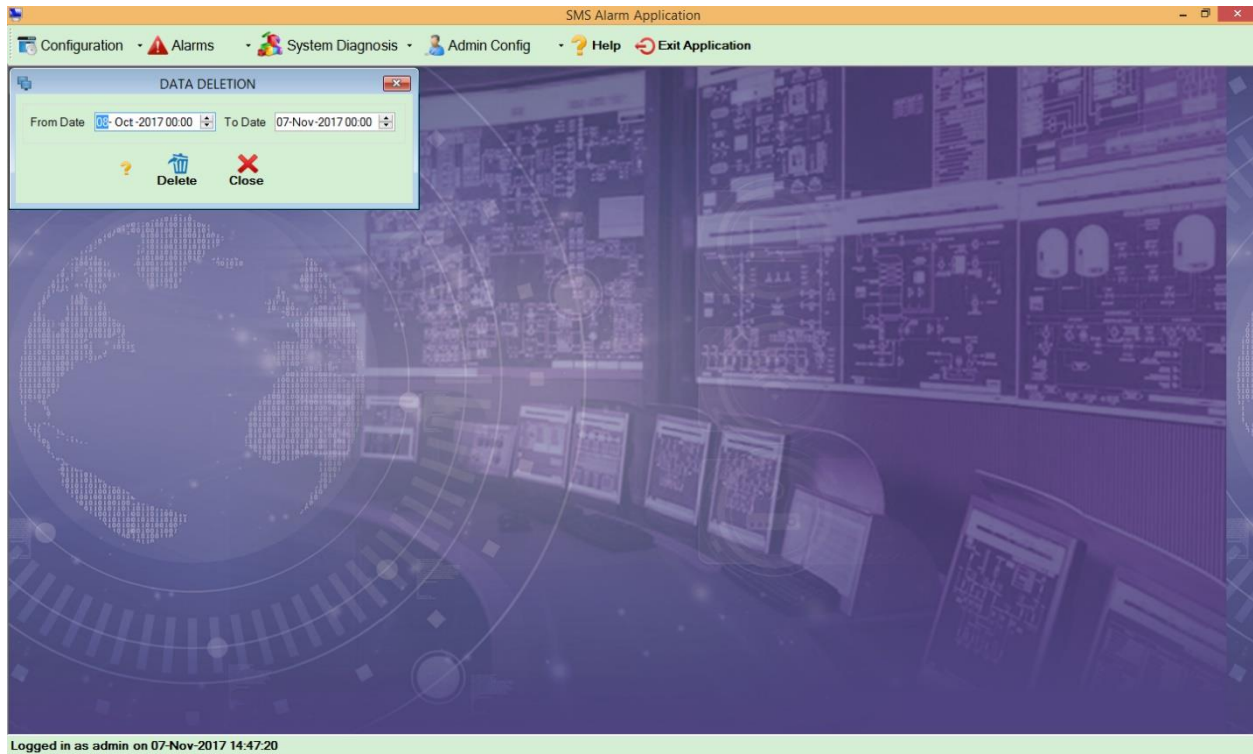
3. Restore Database



It is used to restore the database

1. **Select Path:** Click on  [Select Path](#) from where you want to restore the database.
2. **Backup Data:** Click on  [Restore Data](#) to restore the database.
3. **Close:** Click on Close to Close the screen.

4. Data Deletion



It is used to delete the log data for the selected date

1. **Delete:** Click on delete to delete the data for the selected date & time.
2. **Close:** Click on close to close the screen.