

Manual
ENVIRO-STABILITY
Version 1.0.0.1

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1. Introduction

The ENVIRO-STABILITY is an application suitable for continuous monitoring and recording of Enviro and Scanner with various parameters like temperature, humidity etc. ENVIRO-STABILITY provides tamper proof files and encrypted electronic records, equipped with software that provides a spectrum of functionality including downloading, displaying, analysing, reporting of data and 24*7 multistage alarm notification.

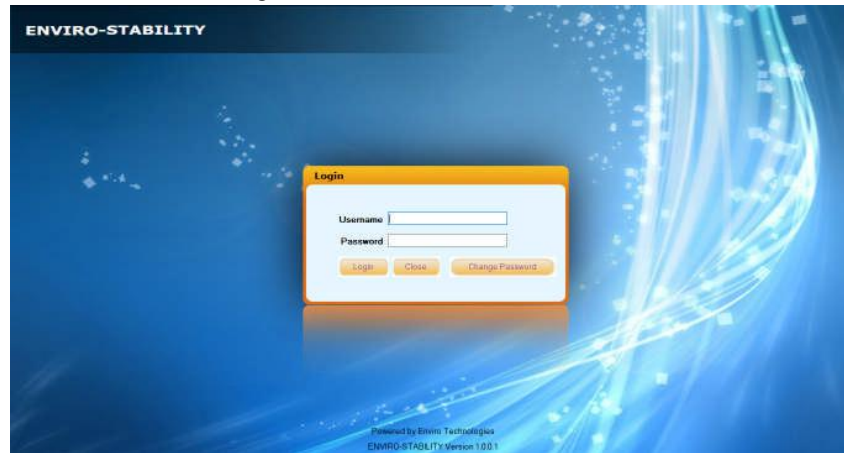
1.1 System Specifications:

1. Platform : Windows10 Professional (64 bit)
2. PC Hardware : Core I3 and above, 8GB RAM
3. COM Port : RS-485 COM Port for Controller Connectivity
4. CD drive : For installation only
5. Hard Disk : 50 GB Installation space + 500 GB data storage space
6. USB Port : For USB Communication.
7. Mouse : For connectivity
8. Colour monitor : Monitor Desktop Resolution-: 1024 X 768 Pixels.

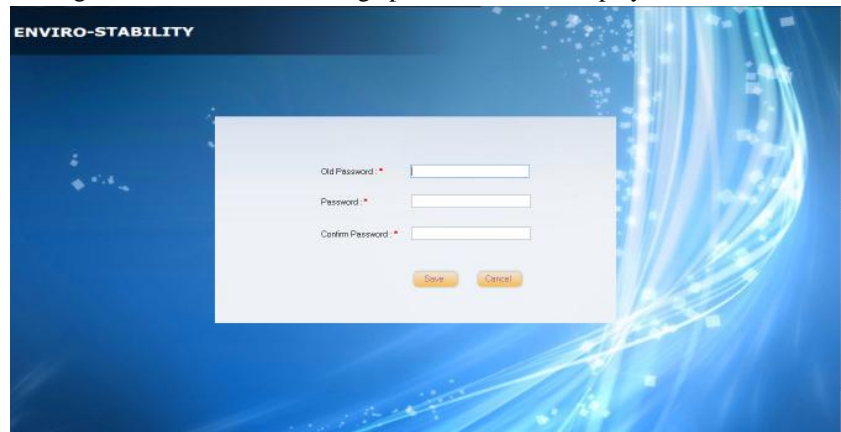
2. Software functionality: -

2.1. Login Screen: -

Before login Read Installation and Read me file. After Double clicking on Shortcut Application starts and login page display, where the user has to enter valid User name and Password. It displays the login page of your Application. As shown in below image

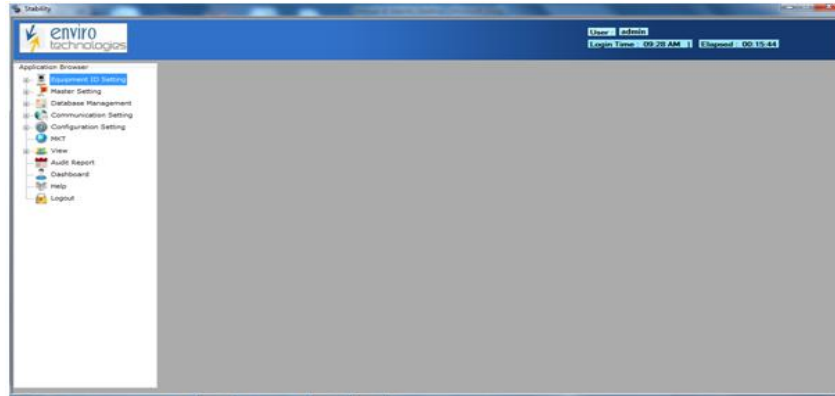


If user want to change password, then before login user need to click on “Change Password” button. Change password screen displays as shown below:



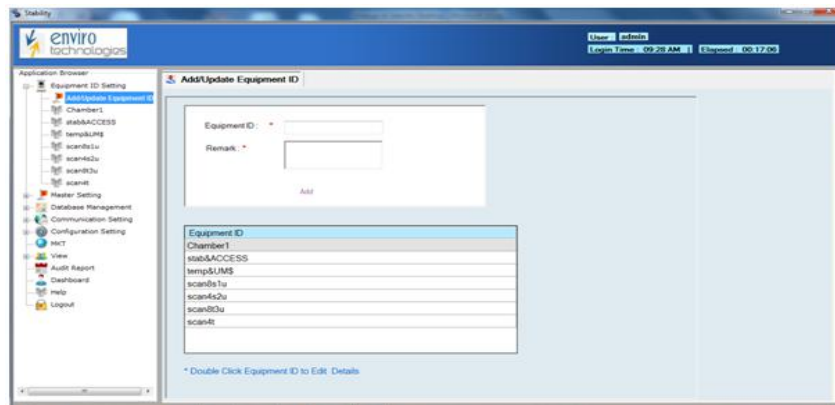
2.2. Index Page:

This index page comes after successful user login. It displays the vertical left tabs which provide navigation for various settings like Equipment ID settings, Master setting, Database management, communication setting, configuration setting, MKT, Reports, Graph, Audit Trail report, Dashboard and Help.



2.3 Equipment ID Setting

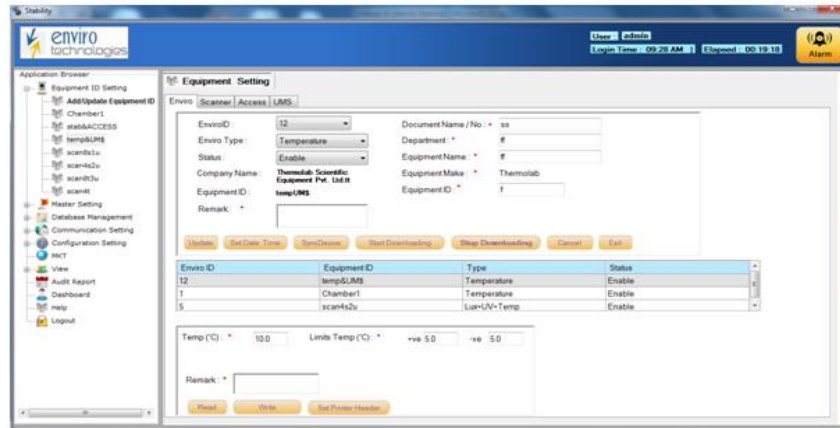
In the vertical left first tab is Equipment ID setting. On clicking the Equipment ID setting user can add new Equipment ID with remark. On clicking the 'Add' button new Equipment ID gets added and display in below list as well as in tree view below the Equipment ID setting form. Also if user wants to update the Equipment ID then click on "Update" Button.



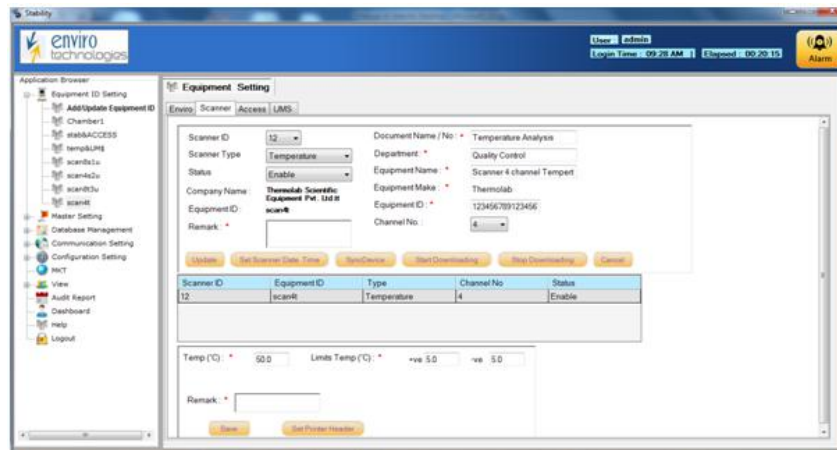
After adding new Equipment ID user can add devices to the new Equipment ID appeared below Equipment ID setting tab. For one Equipment ID user can attach one Enviro, Scanner, Access, and UMS device. As shown in following images.

Note:- At the time of adding Devices, click on stop downloading, after adding the device we need click sync device button & then click on start Downloading.

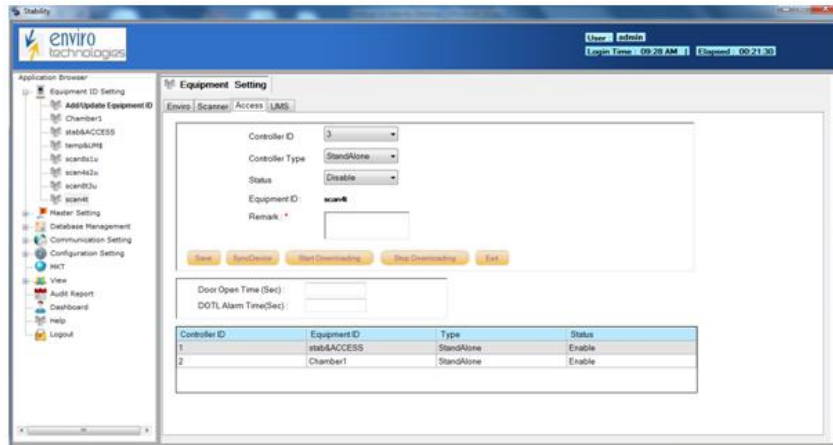
Enviro



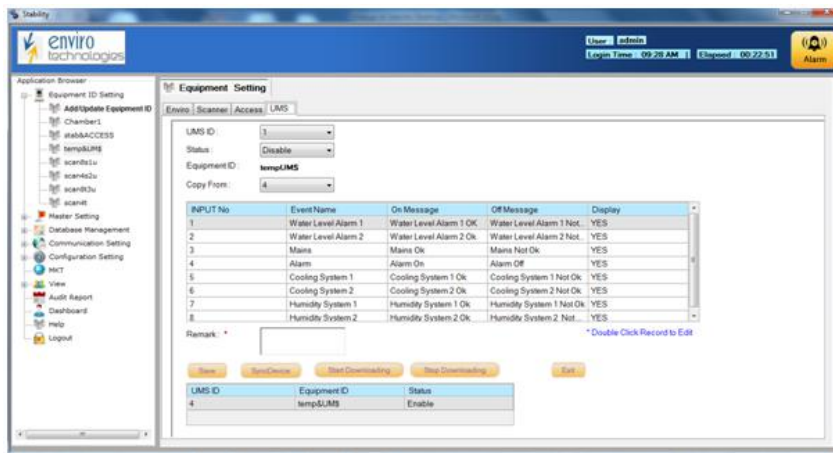
Scanner



Access



UMS



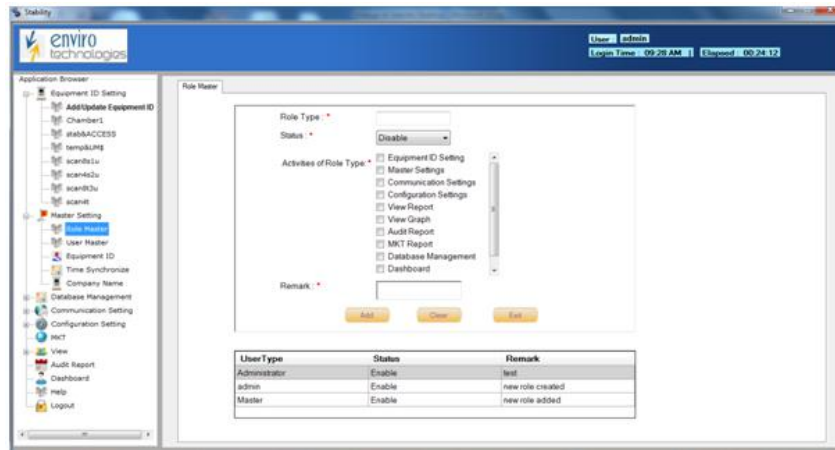
Note: While set type on device, downloading should be stopped (on clicking “Stop Downloading” button) and after set type on device successfully need to click on “Sync Device” button and “Start Downloading” button.

2.4 Master Setting

Next tab is Master Setting tab which provide the navigation like Role Master, User Master, Equipment ID, Time Synchronization, Company name setting.

2.4.1 Role Master

On clicking the Role Master, user can add the new Role like Admin, General Master etc. with their activity like Equipment ID setting, Master setting, Communication setting etc., which provides the access right for respective user. On clicking 'Add' button new user type is added and display in below grid. As shown in below image: -



2.4.2 User Master

On clicking the User Master, user can add the new user by filling the detail provided in the form. User can select the Role of user from dropdown list provided on the form. On clicking 'Add' button new user is added and display in below grid. As shown in below image.

The screenshot shows the 'User Master' form in the Stability application. The form has the following fields:

- Role Type: Administrator (dropdown)
- Employee Code: 111 (text)
- User Name: sushant (text)
- Employee Name: Sushant (text)
- Old Password: (text)
- New Password: (text)
- Confirm Password: (text)
- Status: Enable (dropdown)
- Remark: (text)

Buttons: Update, Reset Password, Cancel

UserMasterID	UserName	UserTypeName	EmpCode	EmpName	CardNo	Status
2	sushant	Administrator	111	Sushant	000036378	Enable

2.4.3 Equipment ID

On clicking the Equipment ID the list of Equipment ID is populated and user can also edit/update the Equipment ID on clicking the Equipment ID.

The screenshot shows the 'Equipment ID Setting' form in the Stability application. The form has the following fields:

- Equipment ID: (text)
- Remark: (text)

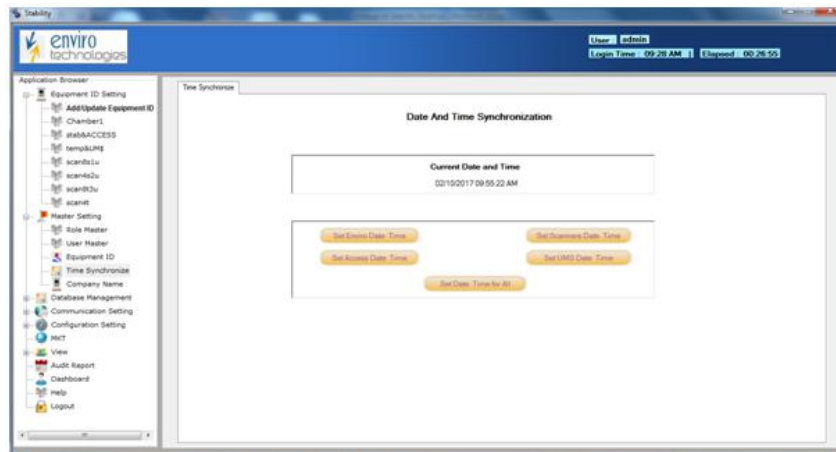
Buttons: (None visible)

Equipment ID
Chamber1
sta&ACCESS
temp&UMS
scan&7a
scan&2a
scan&3a
scan&4

* Double Click Equipment ID to Edit Details

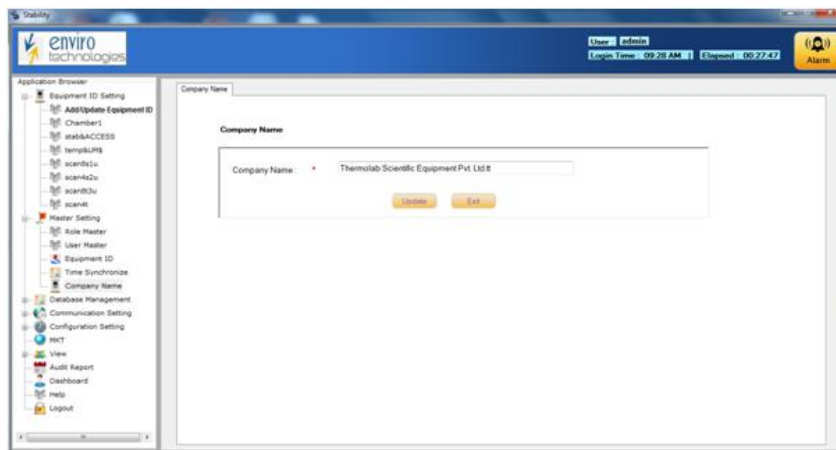
2.4.4 Time Synchronize

On clicking Time Synchronize user can set the date and time for each device individually or for all device at one time. As shown in below image.



2.4.5 Company Name

On clicking Company Name user can set Company name which will reflect across the software.

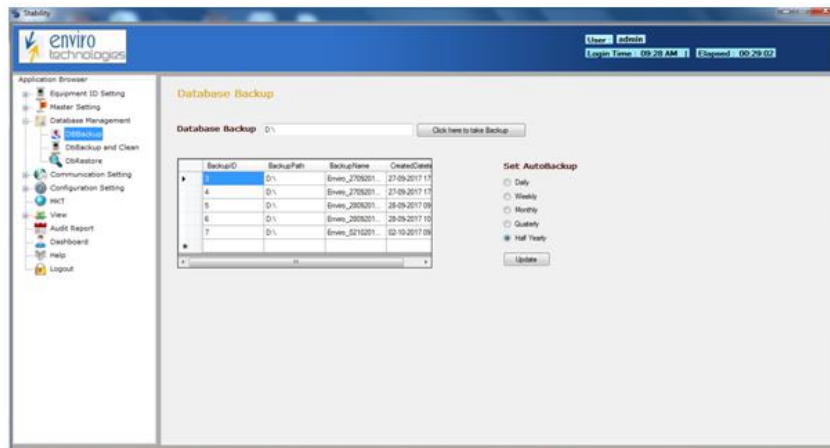


2.5 Database management

Next tab is Database management tab which provide the navigation like Database Backup and Auto Backup, Database backup clean and Database Restore.

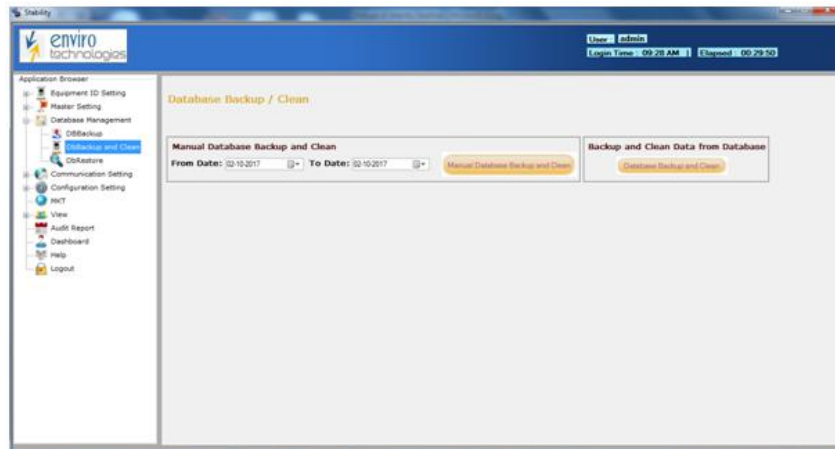
2.5.1 Database Backup and Auto Backup setting

On clicking Database Backup, user can take backup manually to settable path. Also, user can set the Auto backup setting. After set Auto backup, database backup automatically creates in defined backup path. Database backup and Auto backup setting shown in below image: -



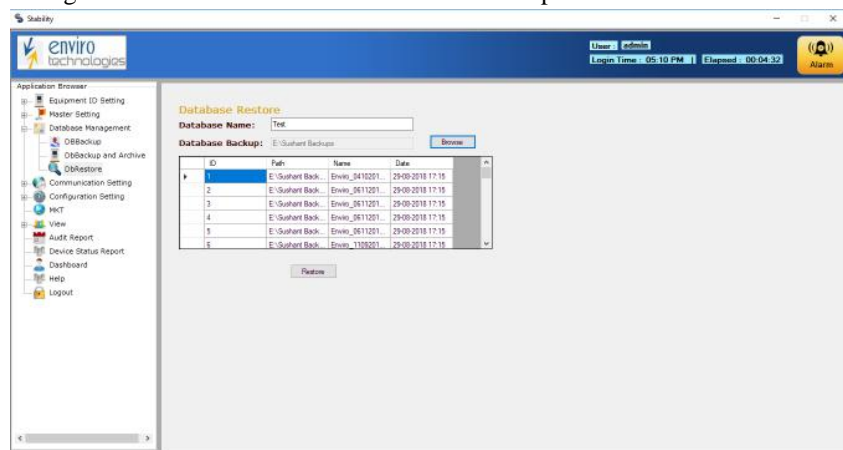
2.5.2 Database Backup and Clean

On clicking “Manual Database backup and clean”, user can take the backup and delete the data with selected date range. And also, user can clean the data except last date data will store in database clicking on “Database Backup and clean”.



2.5.3 Database Restore

On clicking Database Restore, user can restore database with user configurable database name which user take backup.

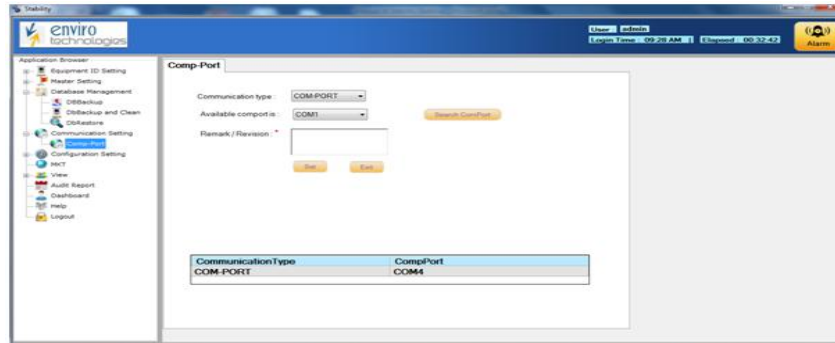


2.6 Communication Setting

On clicking the Communication Setting user can set the communication type.

2.6.1 Comp-Port

On clicking Comp-Port user can set communication Serial port. On selecting the COM-PORT it shows the available com port. If com port is not available it displays Communication Error. As shown in below image.

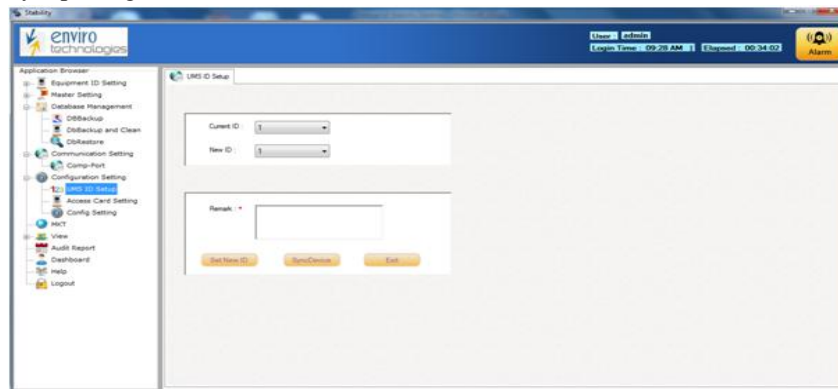


2.7 Configuration Setting

On clicking Configuration Setting provide the navigation like UMS ID Setup, Access Card Setting and Config setting.

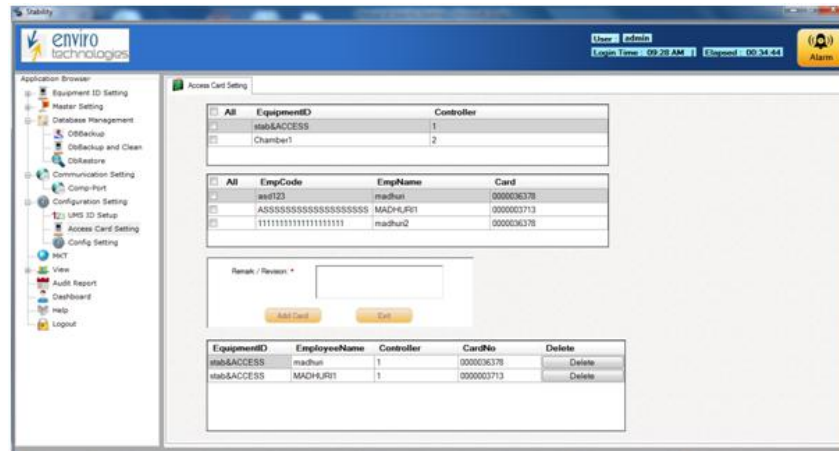
2.7.1 UMS ID Setup

On clicking the UMS ID setup user can setup the new ID for UMS device by replacing Current ID with New ID.



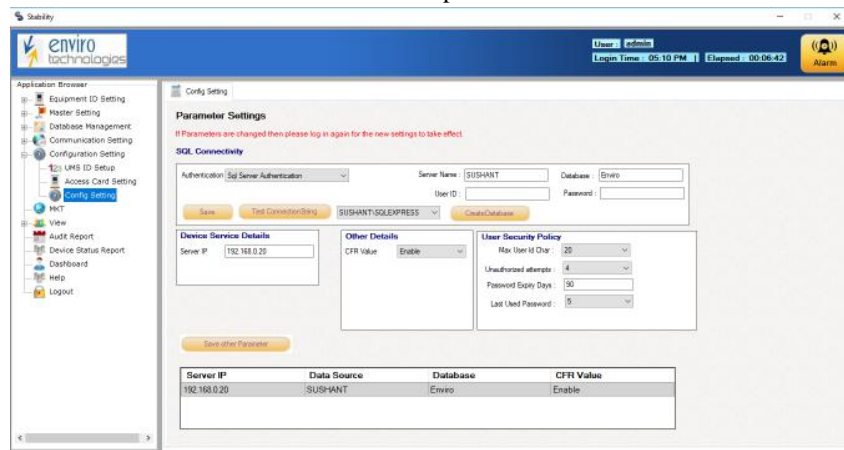
2.7.2 Access Card Setting

On clicking the Access Card Setting user can set the card on Access Controller for respective user on selected Equipment ID. On clicking the Add Card, user with card no is shown in grid view.



2.7.3 Config setting

On clicking on Config setting, user can do the database connection setting and also set the IP address of server with password validation.



2.8 Audit report

On clicking the audit report user can generate the Audit Trail report which shows the user activity with its action like Login, Logout and all other activities. And also, user can view the reports from Restored database by checking “Use Restore Database”. For saving the report set path and click on save PDF button.

The screenshot shows the 'enviro technologies' software interface. The main window displays the 'Audit Trail Report' for 'Thermolab Pvt. Ltd.'. The report includes the following data:

Date	Time	Action	User	Host	New Value	Old Value	Reason
04-10-2018	10:22:33	Service Staffed					
04-10-2018	10:24:01	LOGIN	admin	192.168.0.20			
04-10-2018	10:25:11	Alarm Limits	admin	192.168.0.20			EnviroID: 2, Enviro Type: Stability, EquipmentID: Chamber1, Temperature: 25, MaxTemp: 5, MinTemp: 5

2.9 MKT

MKT generate the report for Mean Kinetic temperature “From date” to “To Date” with selecting particular Equipment ID. And also, user can view the reports from Restored database by checking “Use Restore Database”. For saving the report set path and click on save PDF button.

The screenshot shows the 'enviro technologies' software interface. The main window displays the 'Mean Kinetic Temperature' report for 'Equipment ID: Chamber1'. The report includes the following data:

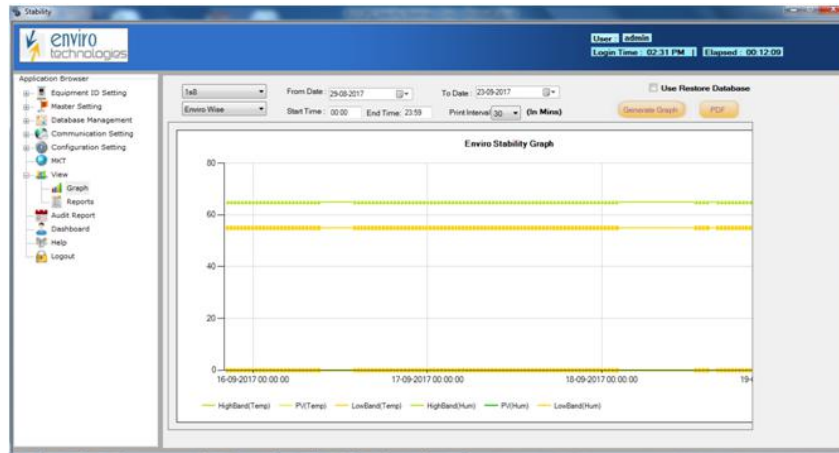
Week No	Start Date	End Date	Min Temp (°C)	Max Temp (°C)	Avg
40	30-09-2018	06-10-2018	35.80	35.80	35.80

Summary Statistics:

- Average Temperature : 35.8 °C
- Mean Kinetic Temperature : 35.8 °C

2.10 View Graph

On clicking the View graph user can generate the graph by Enviro Wise and Scanner Wise. And also user can view the Graph from Restored database by checking “Use Restore Database”. User can view Graph as Print Interval. For save the Graph report click on “PDF” button.



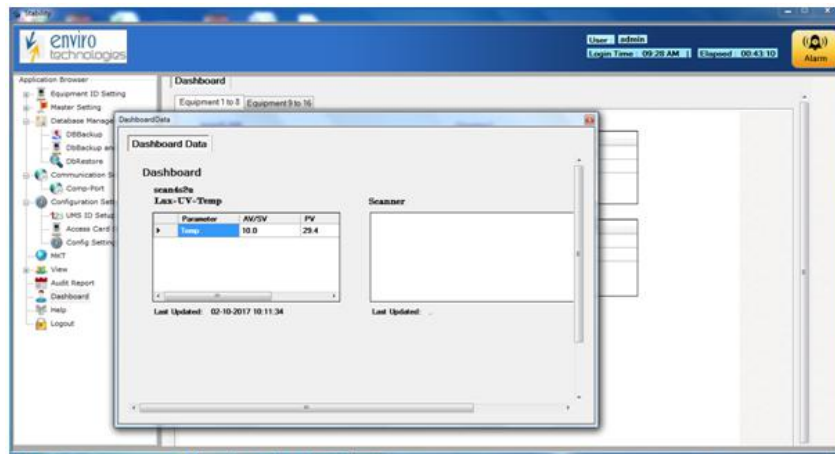
2.11 View Report

On clicking view report user can generate the report with Enviro wise, Enviro Alarm, Scanner Wise, Scanner Alarm, Access controller and UMS by particular Equipment ID. And also user can view the reports from Restored database by checking “Use Restore Database”. Also user can view report as per the Print Interval. For saving the report set path and click on save PDF button.

Date		Time		Temperature (°C)			Humidity (%RH)			Remarks		
		Set Val	Pro Val	Alarm			Set Val	Pro Val	Alarm			
Temperature : 25.0°C		Min Limit : 20.0°C		Max Limit : 30.0°C								
Humidity : 50.0%RH		Min Limit : 25.0%RH		Max Limit : 35.0%RH								
01-10-2018	00:00	25.0	25.0	UA	UA	NA	NA	-				
01-10-2018	00:01	25.0	25.0	UA	UA	NA	NA	-				
01-10-2018	00:02	25.0	25.0	UA	UA	NA	NA	-				
01-10-2018	00:03	25.0	25.0	UA	UA	NA	NA	-				
01-10-2018	00:04	25.0	25.0	UA	UA	NA	NA	-				
01-10-2018	00:05	25.0	25.0	UA	UA	NA	NA	-				
01-10-2018	00:06	25.0	25.0	UA	UA	NA	NA	-				

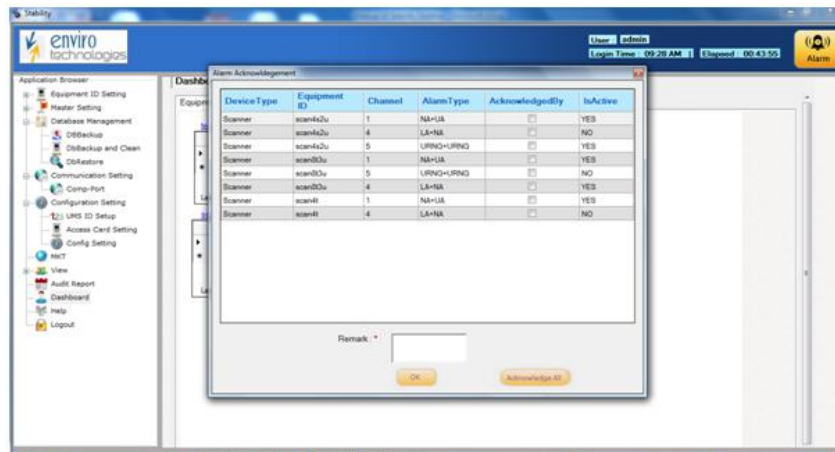
2.12 Dashboard

All connected devices (Enviro, Scanner) to particular Equipment ID, online readings display on Dashboard.



2.13 Alarm

If alarm range for particular channel for respective device is upper or lower then alarm icon will blink continuously and on clicking the alarm icon it displays the alarm type with its detail.



2.14 Help

In help tab, user manual of application and about application display.

