Server Output Driver Configuration Guide

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1. Overview

Output Driver:

Output driver concept was brought up in order to fulfill customer's requirement of sending data to different State Pollution Control Board. So, we have provided Server Output Driver to send data to some Pollution Control Board. Server Output Driver, gets the data from customer's machine(Analyzer or other machine) and sends data to desired Pollution Control Board Server.

Each Output Driver is dependent on some set of components. These components are :

1. OutputDriverSpecific .sql file
2. Dependency libraries if any

Output drivers are configured in 'EnviroConnect' directory in windows. Steps of configuration are given below for each Output Driver.

2. OutputDriverConfiguration

Each Output Driver has its own OutputDriverConfiguration. This has following structure.

[Section Name as per each Output Driver]

Key1=Value1

Key2=Value2

In above format, Key can be Devices and its value can be actual device names. Depending on Output Driver, no of keys and value differs.

3. Output Drivers

3.1 APPCB Output driver Configuration

NOTE- Before starting actual configuration of this Output Driver

This pre-deployment checklist has <UploadFrequency> , <FILEPATH> ,<POLLUTIONTYPE> , <INDUSTRYCODE>, <StationId> which are required for sending data. Among above keys, <StationId> is needed for each device.

3.1.1. Driver Available for Solution

EnviroConnect

3.1.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of particular industry in specified file format to Andhra Pradesh Pollution Control Board servers.

3.1.3. Pre-Requisites

1. Make sure to execute APPCBOutputPatch.sql file

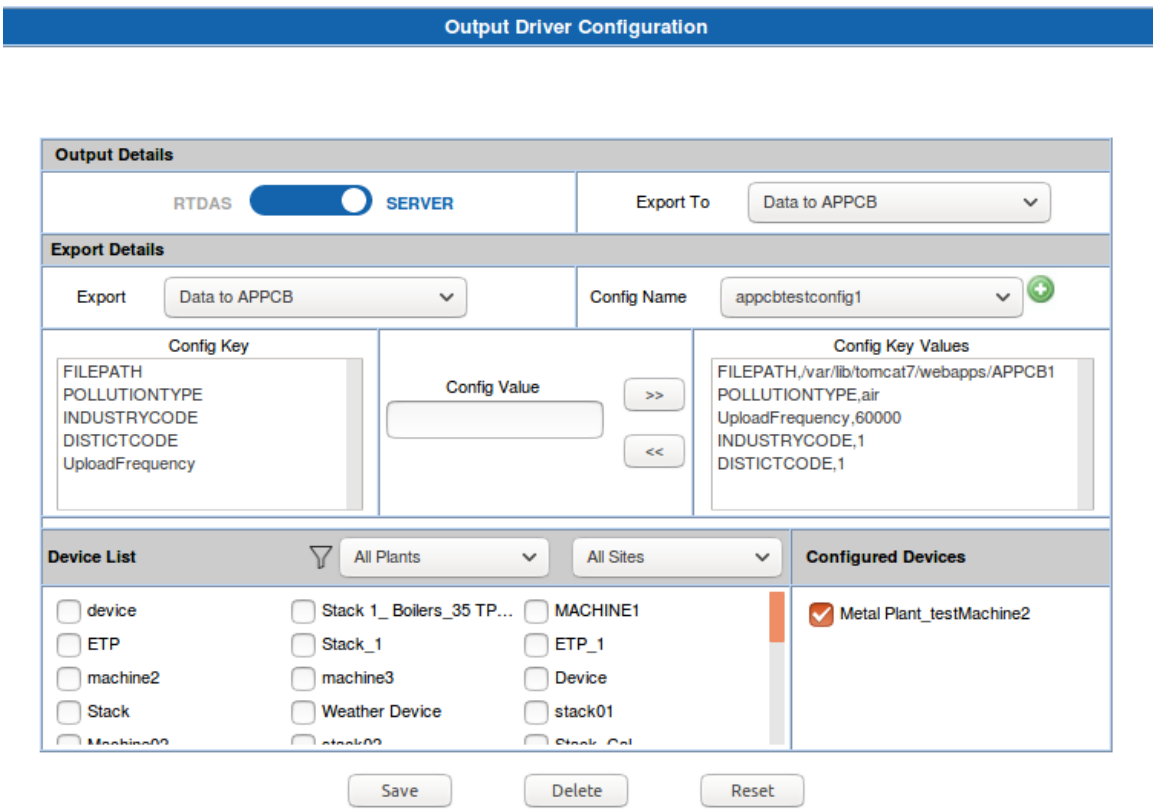
3.1.4. Configuration for new design

Steps to configure APPCBOutputPatch as per new design:

Note- For APPCBOutputPatch version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screen-shot.
2. Select from toggle button 'Server', then in 'Export To' and 'Export' fields select respective OutputDriver Name, then add/select 'Config Name' field and configure the output Driver keys.



3. Then select Device from 'Device List', for which this configuration is to done. Refer below screen-shot.

4. Following is the description for the keys (Output Driver Level)
   UploadFrequency – It is the frequency with which data should be uploaded to APPCB server. It's unit is milliseconds.
   FILEPATH – Folder path where the output file is to be generated.
   POLLUTIONTYPE – Type of Pollutant e.g. air
   INDUSTRYCODE - Industry id (Customer specific)
5. Following is the description for the keys (Device Level Configuration)
   StationId – It is station id as per APPCB configuration.

3.1.5. Configuration for older design

Refer 3.25 Old Configuration

3.1.6 Sample Configuration

UploadFrequency=60000
FILEPATH=C:/APPCB
POLLUTIONTYPE=air
INDUSTRYCODE=1
DISTICTCODE=29
StationId=StationId_895

3.1.7. File Format

APPCB data file format:

Filename = POLLUTIONTYPEyyyymmdd.txt
eg. air20190807.txt

There should be always new file created per minute containing data of each minute. After every minute file should get uploaded to APPCB Server.

3.2 APPCBGlens Output driver Configuration

NOTE- Before starting actual configuration of this Output Driver

This pre-deployment checklist has <Upload Frequency> , <SERVER_URL> ,<SITE_ID> ,<SITE_KEY>,<SITE_UID> <ARCHIVEDIRECTORY> , <PROXYHOST>, <PROXYPORT>, <PROXYUSERNAME>, <PROXYPASSWORD> , <DELETEFILE> ,<TIMESYNC>,<Headers> and<StationId> which required for sending data. Among above keys, <Headers>, <StationId> are needed for each device.

3.2.1. Driver Available for Solution

EnviroConnect

3.2.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of particular industry in specified zip file format to Andhra Pradesh Pollution Control Board servers.

3.2.3. Pre-Requisites

1. **Make sure to execute APPCBGlensOutput.sql file**
2. **Get metadata.csv file:** 'metadata.csv' file is needed for creating zip which is to be sent to the server. This zip has one file with actual values of parameters and metadata.csv files
3. jar file in adjacent folder "UnlimitedJCEPolicyJDK7" are require to set policy for enabling java for AES Encryption.

Follow below steps:

1.Find out location where java is installed on your machine.

2.Copy "local_policy.jar" & "US_export_policy.jar" files and replace in "Java\jre7\lib\security" folder.

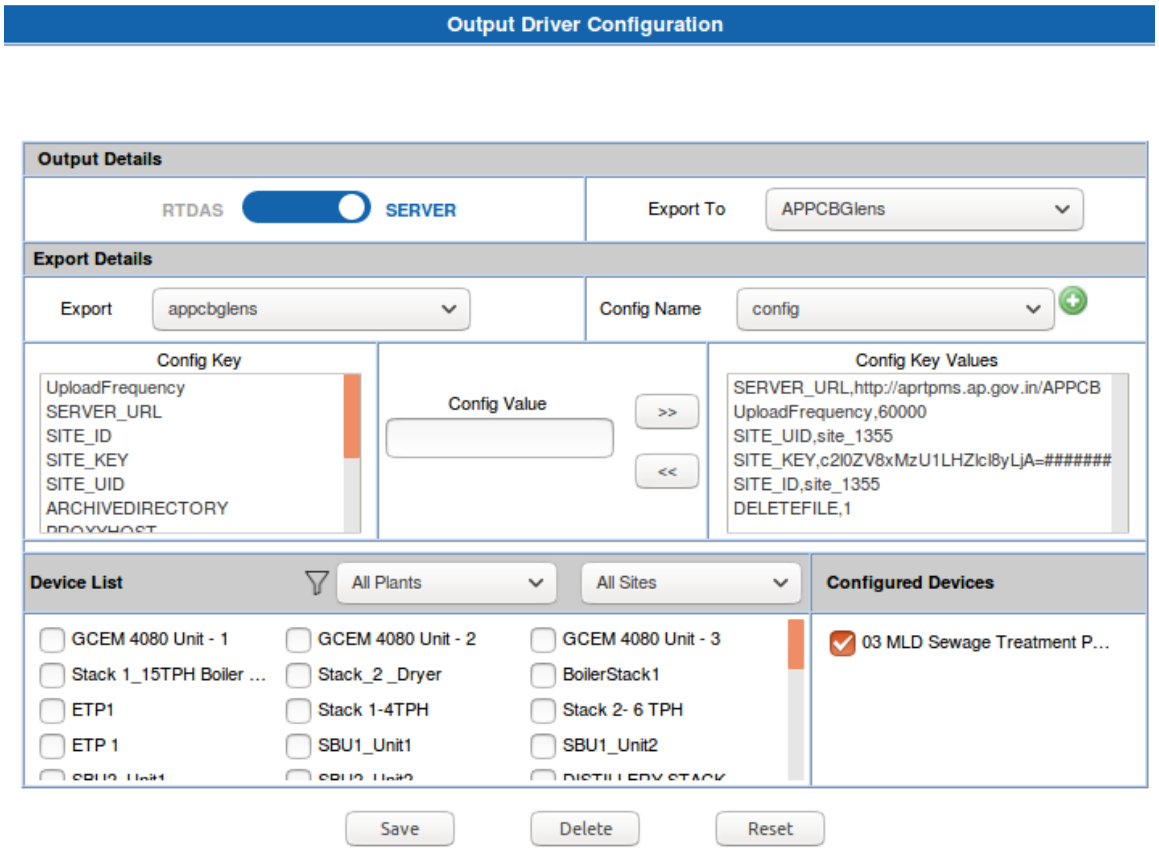
3.2.4. Configuration for new design

Steps to configure APPCBGlensOutput as per new design:

Note- For APPCBGlensOutput version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.
2. Select from toggle button 'Server', then in 'Export To' and 'Export' fields select respective OutputDriver Name, then add/select 'Config Name' field and configure the output Driver keys.



3. Then select Device from 'Device List', for which this configuration is to done. Refer below screen-shot.

4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to APPCBGlens server. It's unit is milliseconds.
SERVER_URL – Generic APPCBGlens URL for uploading data. For ex - http://220.225.78.13/appcbglens
SITE_ID – It is the site identification number, which as per APPCB Glens configuration
SITE_KEY – It is the encrypted key, which is as per APPCB Glens configuration in encrypted format.
SITE_UID - It is the site unique identification number, which as per APPCB Glens configuration
ARCHIVEDIRECTORY – Path of file where we want to create back up of uploaded file.
PROXYHOST – IP Address of proxy host.
PROXYPORT – Port of the proxy host.
PROXYUSERNAME – User Name to access the proxy server.
PROXYPASSWORD – Password to access the proxy server.
DELETEFILE – Delete file after successful upload.(1/0) where,
1: It will delete uploaded .zip files from TempUpload folder
0: It will move the .zip file from TempUpload folder to folder mentioned in ARCHIVEDIRECTORY

5. Following is the description for the keys (Device Level Configuration)

Headers – We provide list of all configured variables seperated by ~. e.g pH~TSS
StationId – It is station id as per APPCBGlens configuration.

Important: Keep metadata.csv file in 'TempUpload' folder of the enviroconnect.

3.2.5. Configuration for older design

Refer 3.25 Old Configuration

3.2.6. Sample Configuration

UploadFrequency=60000
SERVER_URL=http://220.225.78.13/mpcb
SiteID=site_378
SITE_KEY=c2l0ZV8zMTQ4LHZlcl8yLjM=########
SiteUID=site_378
ARCHIVEDIRECTORY=C:/APPCBGLENS

PROXYHOST=http://10.6.10.88

PROXYPORT=8080

PROXYUSERNAME=admin

PROXYPASSWORD=admin

TIMESYNC=0

Headers=NO~CO2~CO~SO2
StationId=StationId_895

3.2.7. File Format

APPCBGlens.properties file format:

Filename = SITE_UID _ STATION_ID _ Date.zip
e.g site_460_ETP_20161110153410.zip

APPCBGlens data file format:

It is zip file containing two files one is for metadata.csv and another is for actual values of parameters
Content to send in file:
SITE_ID,SITE_UID,MONITORING_UNIT_ID,ANALYZER_ID,PARAMETER_ID,PARAMETER_NAME,READING,UNIT_ID,DATA_QUALITY_CODE,RAW_READING,UNIX_TIMESTAMP,CALIBRATION_FLAG, MAINTENANCE_FLAG

Filename = SITE_UID _ STATION_ID _ Date.zip
eg. site_460_ETP_20161110153410.zip
There should be always new file is created per minute containing data of each minute. After every minutes file should gets uploaded to APPCB Glens Server.
Metadata.csv file contains information about data we are uploading.

In TempUpload folder of build should have "**metadata.csv**".

3.2.8. Final Checklist

1. metadata.csv file is present in TempUpload
2.Make sure APPCBGlens.properties file to be present in 'conf' folder of enviroconnect.
3. jar file in adjacent folder "UnlimitedJCEPolicyJDK7" are require to set policy for enabling java for AES Encryption.
Follow below steps:
   1.Find out location where java is installed on your machine.
   2.Copy "local_policy.jar" & "US_export_policy.jar" files and replace in "Java\jre7\lib\security" folder.

3.3 CETPOutput driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency>, <UID>, <HTTPUrl>, <ENCRYPTIONKEY>, <Headers> and <MasterIds>. Among the above <Headers> and <MasterIds> are device level configuration.

3.3.1. Driver Available for Solution

EnviroConnect

3.3.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of industry to send to the CETP server in specified http url.

3.3.3. Pre-Requisites

1. Make sure to execute CETPOutput.sql file

3.3.4. Configuration for new design

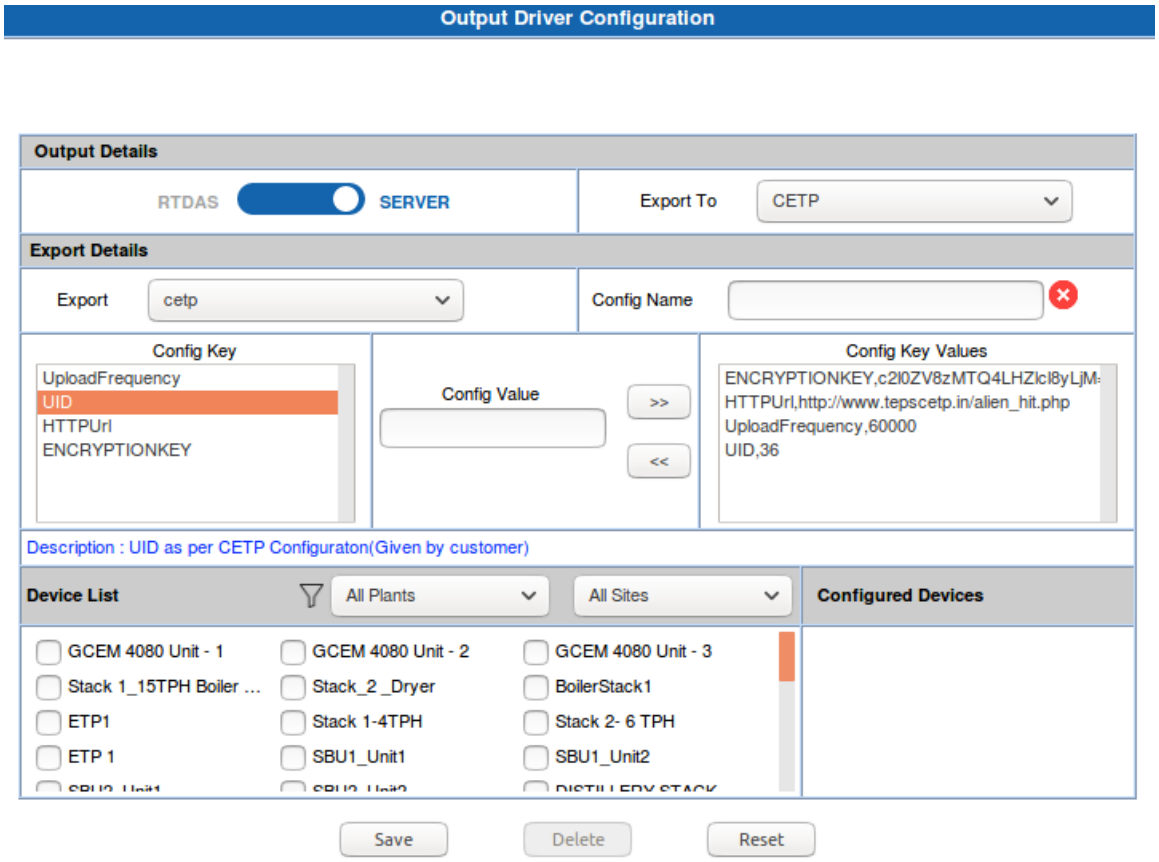
Steps to configure CETPOutput as per new design:

Note- For CETPOutput version EnviroConnect 6.4. Patch 10

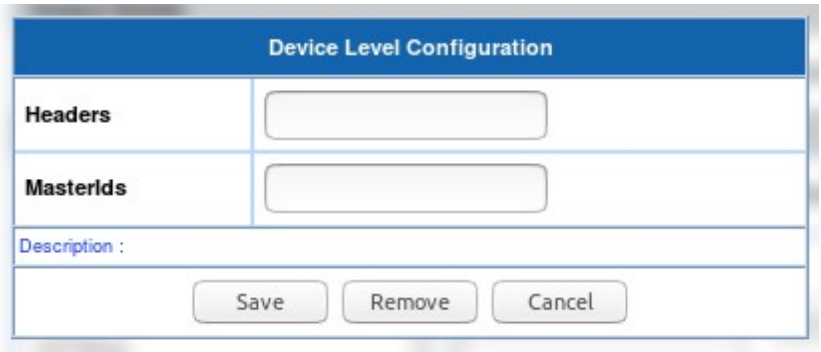
Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from ‘Device List’, for which this configuration is to done. Shown as below:



4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to server. It's unit is milliseconds.

UID –UID as per CETP Configuraton(Given by customer)

HTTPUrl – Http url of CETP Portal where data to be sent

ENCRYPTIONKEY – ENCRYPTION KEY provided by customer

Headers – Headers like So2~No2.

MasterIds – MasterId for CEPT output drive

3.3.5. Configuration for older design

Refer 3.25 Old Configuration

3.3.6. Sample Configuration

UploadFrequency=60000
UID=2
HTTPUrl=http://www.tepscetp.in/alien_hit.php
ENCRYPTIONKEY=c2l0ZV8zMTQ4LHZlcl8yLjM=########
Headers=Totalizer~pH~Flow

MasterIds= 2,3

Note:

Only one request will be sent for each industry as it has UID for Industry not for individual device.

3.3.7. File Format

CETPOutput file name format:

IndustryName_DeviceName_DeviceId_dd/mm/yyyy hh:mm:ss
e.g aarti_Gas Analyser_2908_08082019153812.txt

CETPOutput file data format:

e.g DeviceName~Variable Name~ Variable Id~ Variable Type ~ Variable Unit
TimeStamp
GasAnalyser~SO2~1~a~mg/Nm3~G_SO2,GasAnalyser~CO~1~a~mg/Nm3~G_CO
2019-08-08 14:58:00,0.0,0.0

3.4 Cgpcb Output driver Configuration

NOTE- Before starting actual configuration of this Output Driver

This pre-deployment checklist has

<UploadFrequency>, <UserName>, <FTPPORT>, <FTPURL> ,<FTPUSERNAME>,

<FTPPASSWORD>, <FILEPATH>, <FILENAME> ,<EXPORTCLS> . There are no

device level configuration.

3.4.1. Driver Available for Solution

EnviroConnect

3.4.2. Description

To read data from all devices under one plant in specific frequency and send it to Chhattisgarh server.

3.4.3. Pre-Requisites

1. Make sure to execute CgpcbOutputPatch.sql file

3.4.4. Configuration for new design

Steps to configure CgpcbOutputPatch as per new design:

Configuration details:

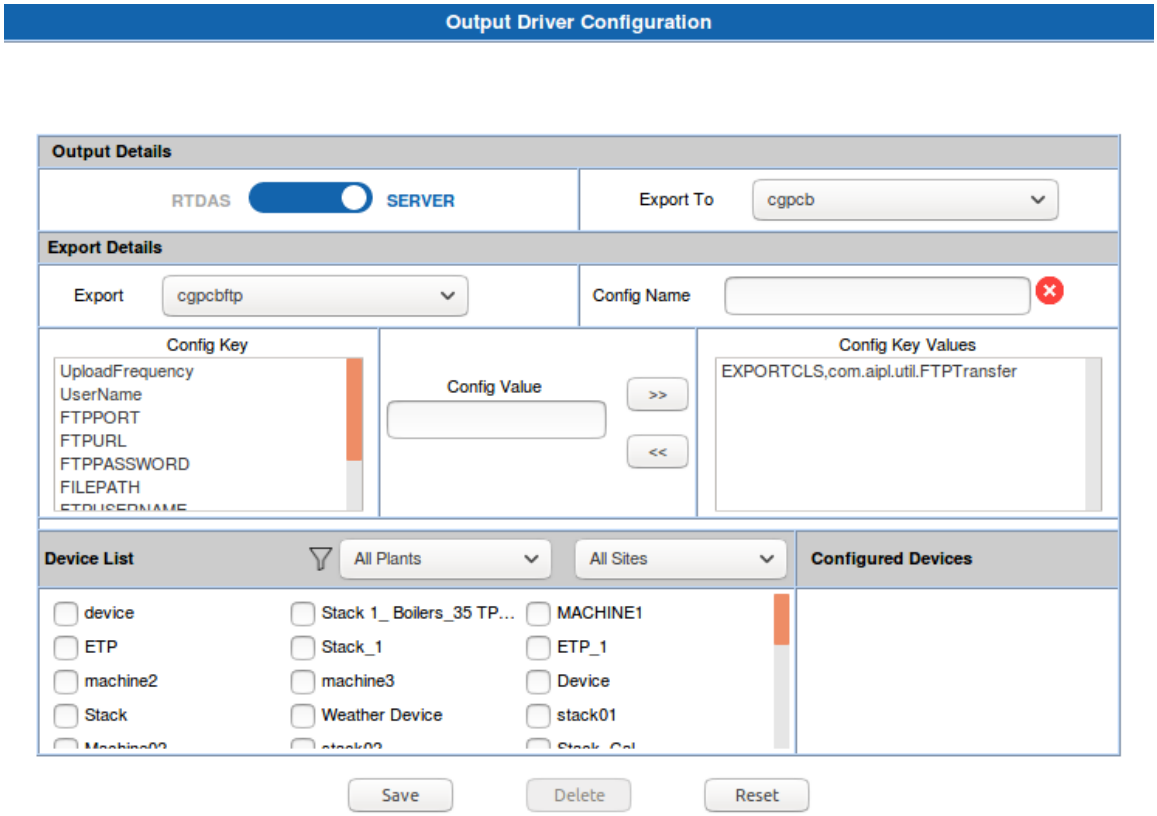
Note- For CgpcbOutputPatch version 6.4. Patch 10

OutputDriver configuration for this is to be done from the **Enviroconnect** which is available in **version 6.4 Patch 10**

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from ‘Device List’, for which this configuration is to done.

4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to Cgpcb server. It’s unit is milliseconds.

UserName – User Name

FTPURL – FTP Server Path to upload the output file.

FTPPORT – FTP Server Port to upload the output file.

FTPUSERNAME – FTP Server User Name.

FTPPASSWORD – FTP Server Password.

FILEPATH – Folder path where the output file is generate.

FILENAME – File name of the file to be generated.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

3.4.5. Configuration for older design

Refer 3.25 Old Configuration

3.4.6 Sample Configuration

UploadFrequency=60000

UserName=admin

FTPURL=http://10.6.10.97/cgpcb

FTPPORT=8080

FTPUSERNAME=admin

FTPPASSWORD=admin

FILEPATH=C:/cgpcb

FILEPATH=C:/cgpcb

EXPORTCLS=com.aipl.util.FTPTransfer (Do not change this)

3.4.7. File Format

Cgpcb file data format:

The File Format:

It is text file containing single line record for each datetimestamp with all values for all parameters of all stations for that date-time separated by ",".

eg-2014:02:14 12:10:00,32.0,20.10,60.0
where ,
2014:02:14 12:10:00-DateTimeStamp
32.0 -Value for first parameter at 2014:02:14 12:10:00.
20.10-Value for second parameter at 2014:02:14 12:10:00.
60.0--Value for third parameter at 2014:02:14 12:10:00.

3.5 CPCBFTP Output driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency>, <UserName>, <FTPPORT>, <FTPURL>, <FTPPASSWORD>, <FILEPATH>, <FTPUSERNAME>, <FILENAME>, <EXPORTCLS>

3.5.1. Driver Available for Solution

EnviroConnect

3.5.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of particular industry to the Central Pollution Control Board.

3.5.3. Pre-Requisites

1. Make sure to execute CpcbFTPOutputPatch.sql file

3.5.4. Configuration for new design

Steps to configure Cpcb as per new design:

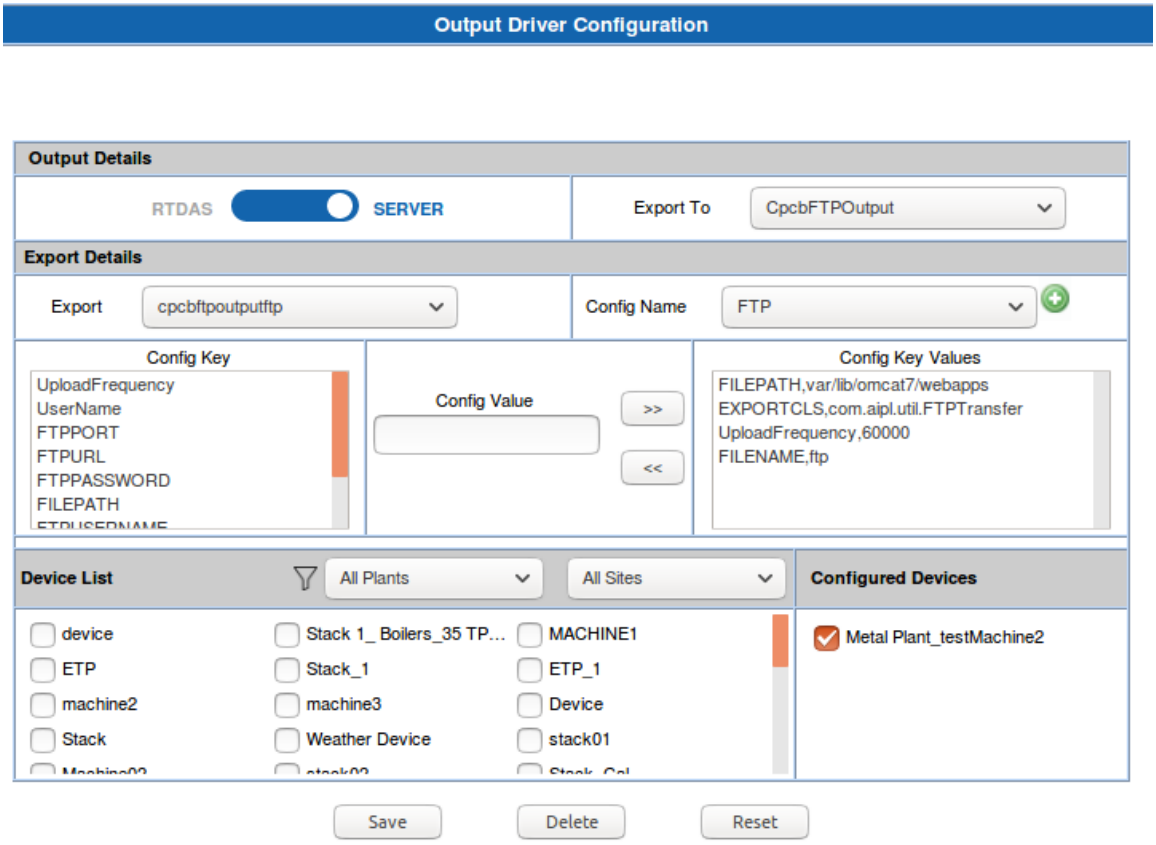
Configuration details:

Note- For CpcbFTPOutputPatch version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from ‘Device List’, for which this configuration is to done. 4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to CPCB server. It’s unit is milliseconds.

UserName –admin

FTPPORT – Port number for FTP connection.

FTPURL – FTP Server Path to upload the output file.

FTPUSERNAME – FTP Server User Name.

FTPPASSWORD – FTP Server Password.

FILENAME – Name of file to be created.

FILEPATH – Folder path where the output file is to generated.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

3.5.5. Configuration for older design

Refer 3.25 Old Configuration

3.5.6. Sample Configuration

UploadFrequency=60000

UserName=admin

FTPPORT=8080

FTPURL=http://10.6.10.97/

FTPUSERNAME=admin

FTPPASSWORD=admin

FILEPATH=C:/cpcb

EXPORTCLS=com.aipl.util.FTPTransfer (Do not change this)

3.5.7. File Format

CPCBFTP file name format:

Industry Name_Device Name_Device Id_dd/mm/yyyy hhmmss
e.g aarti_Gas Analyser_2908_08082019153812.txt

CPCBFTP file data format:

Gas Analyser~SO2~1~a~mg/Nm3~G_SO2,Gas Analyser~CO~1~a~mg/Nm3~G_CO
2019-08-08 14:58:00,0.0,0.0

3.6 DatatoCentralStation Output driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency>, <UserName>, <FTPPORT>, <FTPURL>, <FTPUSERNAME>, <FTPPASSWORD>, <FileName> and <EXPORTCLS>

3.6.1. Driver Available for Solution

EnviroConnect

3.6.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of industry to send to Central Station.

3.6.3. Pre-Requisites

1. Make sure to execute DataToCentralStation.sql file

3.6.4. Configuration for new design

Steps to configure DataToCentralStation as per new design:

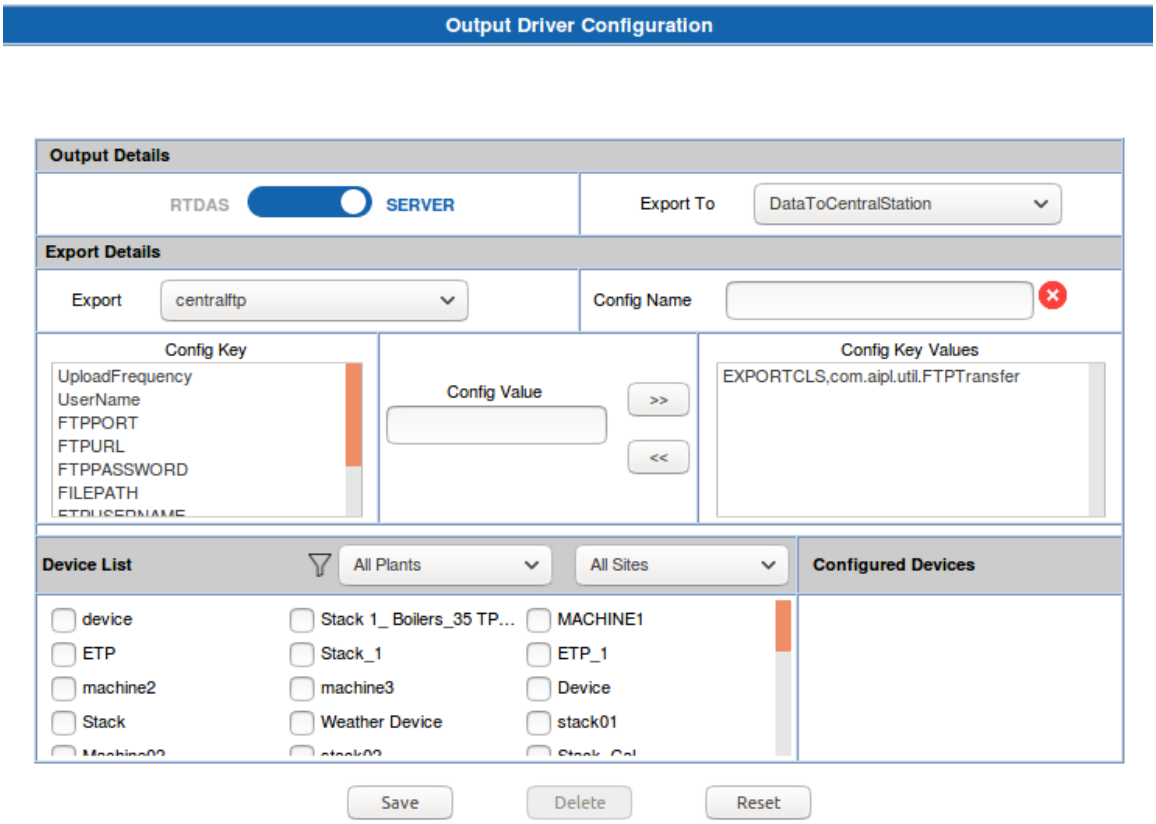
Configuration details:

Note- For DataToCentralStation version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from 'Device List', for which this configuration is to done.4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to server. It's unit is milliseconds.

UserName –admin

FTPPORT – Port number for FTP connection.

FTPURL – FTP Server Path to upload the output file.

FTPUSERNAME – FTP Server User Name.

FTPPASSWORD – FTP Server Password.

FILENAME – Name of file to be created.

FILEPATH – Folder path where the output file is to generated.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

3.6.5. Configuration for older design

Refer 3.25 Old Configuration

3.6.6. Sample Configuration

UploadFrequency=60000

UserName=admin

FTPPORT=8080

FTPURL=http://10.6.10.97/sembcorp

FTPUSERNAME=admin

FTPPASSWORD=admin

FILENAME=centraldata

FILEPATH=C:/centraldata

EXPORTCLS=com.aipl.util.FTPTransfer (Do not change this)

3.6.7 File Format

DataToCentral File Format
FileNameDateStamp(ddmmyyyyhhmmss)
e.g STN0108082019145617

DataToCentral Data Format
//Device Name~Variable Name ~ Variable Id~ Variable Type~ Unit
Data Stamp, Value
e.g //Gas Analyser~SO2~1~a~mg/Nm3~G_SO2,Gas
Analyser~CO~1~a~mg/Nm3~G_CO
2019-08-08 14:56:00,0.0,0.0

3.7 FMCustomDisplay Output driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency>, <VarList>, <DataInterval>, <FILEPATH>, <FileName>, <HeaderName> and <DataReset>.

3.7.1. Driver Available for Solution

EnviroConnect

3.7.2. Description

This driver is used to read data from all devices under one plant in specific frequency and send it to file(display board).

3.7.3. Pre-Requisites

1. Make sure to execute FMCustomDisplay.sql file

3.7.4. Configuration for new design

Steps to configure FMCustomDisplay as per new design:

Configuration details:

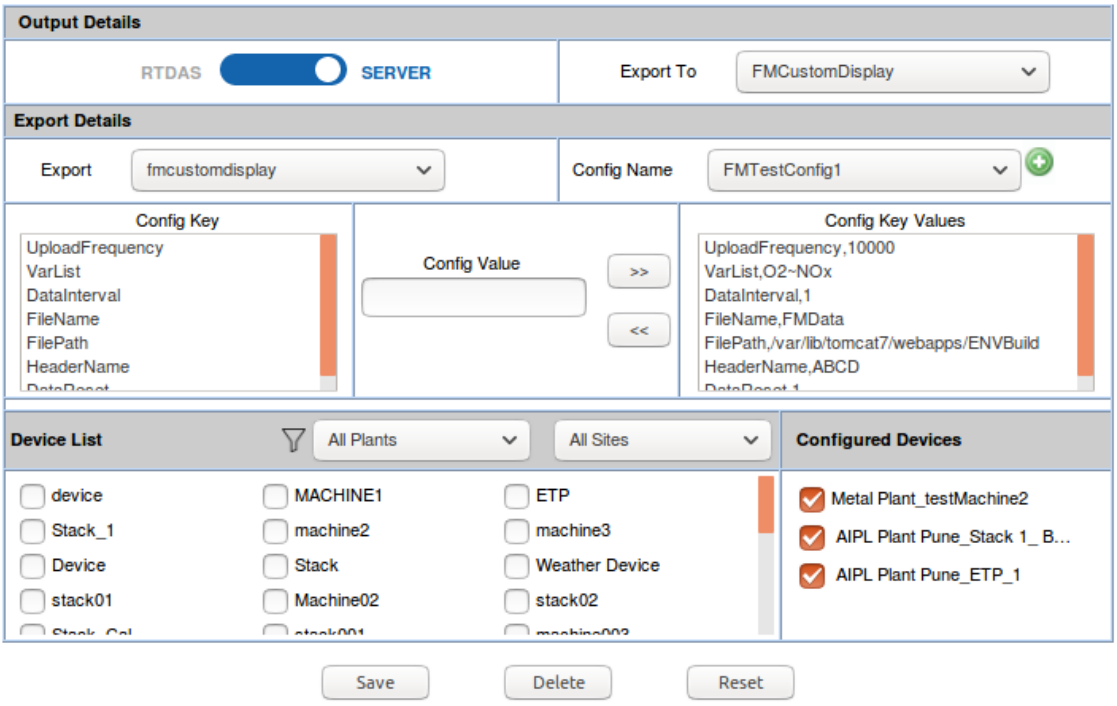
Note- For FMCustomDisplay version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.

Output Driver Configuration



3. Then select Device from 'Device List', for which this configuration is to done.

4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to Gujarat server. It's unit is milliseconds.

VarList –Sequence of variables separated by ~

DataInterval – Data Interval in minutes

FILENAME – Filename specified by user without spaces.

FILEPATH – Folder path where the output file is to generated.

HeaderName – Name used for sheet name and first row/first column.

DataReset – Data reset frequency in days.

For ex if it is 1.

It will save data upto 1 day then deletes file and creates new one.

3.7.5. Configuration for older design

Refer 3.25 Old Configuration

3.7.6. Sample Configuration

UploadFrequency=60000

VarList=NO`CO~Benzene

DataInterval=60

FILENAME=fmcustomdisplay

HeaderName=Details

DataReset=1

3.7.7. File Format

1. It creates xls/csv file for configured devices as per provided data interval.
2. Description of Keys -
3. FileName - File name is configured by FileName Key,
4. FilePath - File path is configured by FilePath Key,
5. VarList – Sequence for variables.
6. DataInterval – Averaging interval for file writing(in minutes).
7. DataReset – To configure data reset interval (in days).
8. IsXLS – 'y' for .xls file format. 'n' for .csv file format.
9. HeaderName - We use this for sheet name and first row and column data.
10. All parameters are displayed in one xls/csv file.
11. We will create .xls/csv file with name specified by user. This file will contain average data with respective time stamp as row and Dev, its variable name along with its unit as columns.
12. This output driver will create only one file irrespective of number of devices and other criteria. All the data will be written in this one single file.
13. If data is not available for that particular time stamp it will write 'NoData', even if there is err flag for that variable.
14. It will consider only analog variables.
15. It will add latest data on top after header,devicename,variablename and variable unit rows.
16. While configuring this Frequency and DataInterval should be same.
17. If document is opened by any other means by user in writing mode, system will not be able to write any data in that file and that data will be lost.

3.8 GPCB Output driver Configuration

NOTE- Before starting actual configuration of this Output Driver

This pre-deployment checklist has <Upload Frequency> ,<STATECODE> ,<PCBID> ,<FILEPATH> <EXPORTCLS> ,<FILENAME> <StationId> which required for sending data. Among above keys, <StationId> is needed for each device.

3.8.1. Driver Available for Solution

EnviroConnect

3.8.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of particular industry in specified zip file format.

3.8.3. Pre-Requisites

1. Make sure to execute GPCBOutputPatch.sql file

3.8.4. Configuration for new design

Steps to configure GPCB **as per new design:**

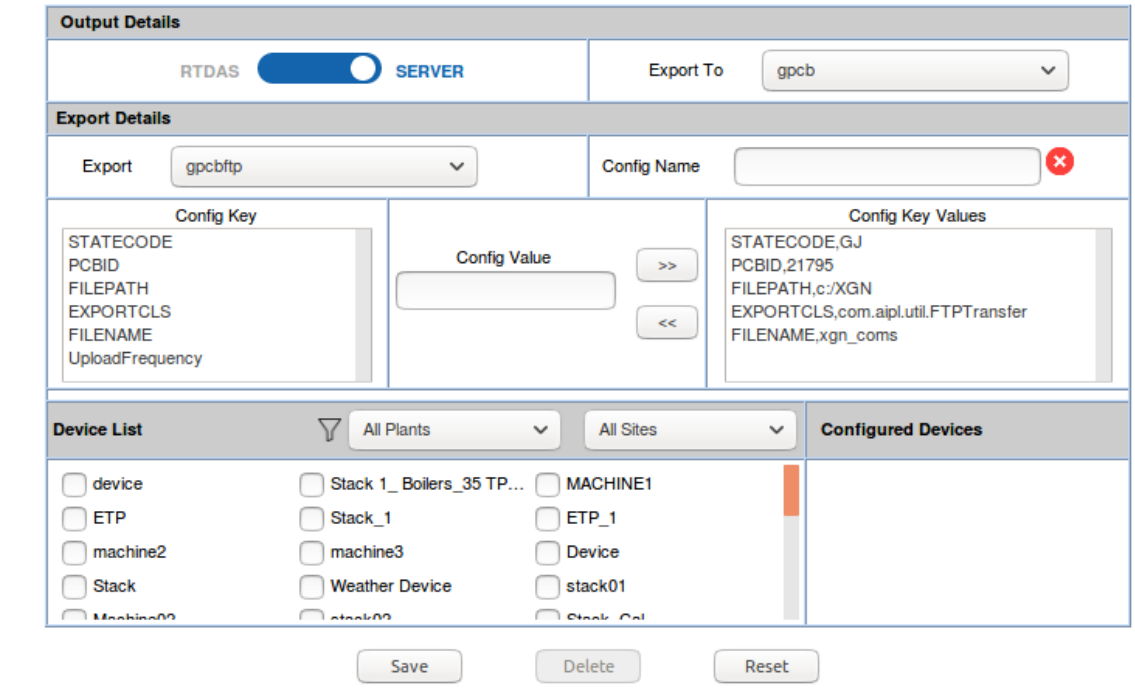
Configuration details:

Note- For GPCB **version 6.4. Patch 10**

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button 'Server', then in 'Export To' and 'Export' fields select respective OutputDriver Name, then add/select 'Config Name' field and configure the output Driver keys.



3. Then select Device from 'Device List', for which this configuration is done. Refer below screen-shot.

4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to GPCB. It's unit is milliseconds.

STATECODE – It is unique state code for that industry.

PCBID – Pollution Control Board Identification number

FILEPATH – Folder path where the output file is to generated.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

FILENAME – Name of file to be created.

5. Following is the description for the keys (Device Level Configuration)

StationId – It is station id as per GPCB configuration.

3.8.5. Configuration for older design

Refer 3.25 Old Configuration

3.8.6. Sample Configuration

UploadFrequency=60000

STATECODE=GJ

PCBID=98654

FILEPATH= C: /XGN (Should be same)

EXPORTCLS=com.aipl.util.FTPTransfer (Should be same)

FILENAME=xgn_coms.txt (Should be same)

StationId= JIL

3.8.7. File Format

File Format

1. It is text file containing single line record for each parameter with all values separated by ",".
   eg-GJ,32917,JIL,TOC,02/06/2012 14:00,16
   where ,
   GJ-State Code
   32917 -Industry PCBID.
   JIL-Station Code
   TOC-parameter 3 digit code
   02/06/2012 14:00-datetime stamp

16 -value of TOC parameter

2. File name should be ”xgn_coms.txt”.File name is fixed because client has utility. That utility is accessing file by same name.
3. File should be created at “C: /XGN ”.

3.8.8. Final Checklist

1. File Name should be as xgn_coms.txt
2. File Path should be C:/XGN.

3.9 GSPCBGlens Output driver Configuration

NOTE- Before starting actual configuration of this Output Driver

This pre-deployment checklist has <UploadFrequency> ,<SERVER_URL> ,<SITE_ID>

,<SITE_KEY>,<ARCHIVEDIRECTORY> , <ANALYZER_ID> ,

<DELETEFILE> ,<TIMESYNC> , <PROXYHOST>, <PROXYPORT>,

<PROXYUSERNAME>, <PROXYPASSWORD> <Headers>, <StationId>

and<AnalyserId> which required for sending data. Among above keys, <Headers>,

<StationId>, <AnalyserId> are needed for each device.

3.9.1. Driver Available for Solution

EnviroConnect

3.9.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of particular industry in specified zip file format to Gujarat’s Server.

3.9.3. Pre-Requisites

1. Make sure to execute GSPCBGlensOutput.sql file

2. Get metadata.csv file.

metadata.csv file is needed for creating zip which is sent to server. This zip has one file which actual values of parameters and metadata.csv files

3. jar file in adjacent folder "UnlimitedJCEPolicyJDK7" are require to set policy for enabling java for AES Encryption.

Follow below steps:

1.Find out location where java is installed on your machine.

2.Copy "local_policy.jar" & "US_export_policy.jar" files and replace in "Java\jre7\lib\security" folder.

3.9.4. Configuration for new design

Steps to configure GSPCBGlensOutput as per new design:

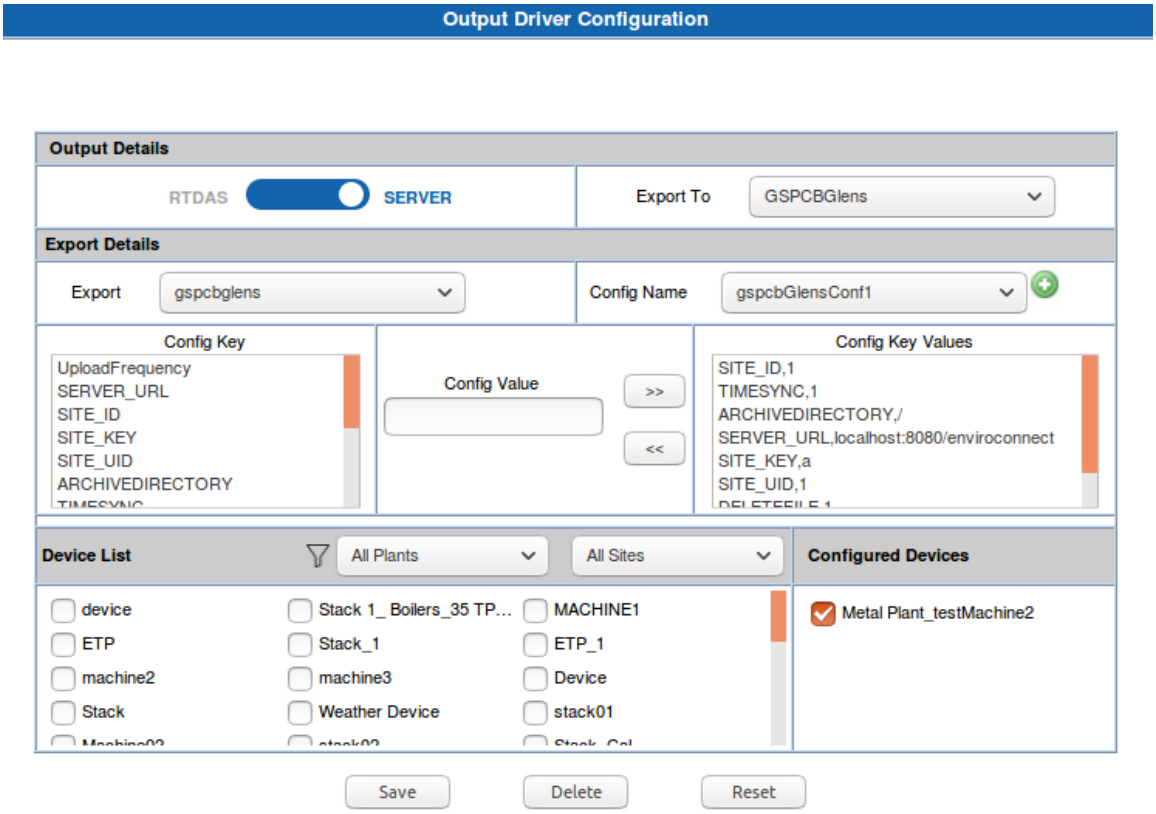
Configuration details:

Note- For GSPCBGlensOutput version EnviroConnect 6.4. Patch 10

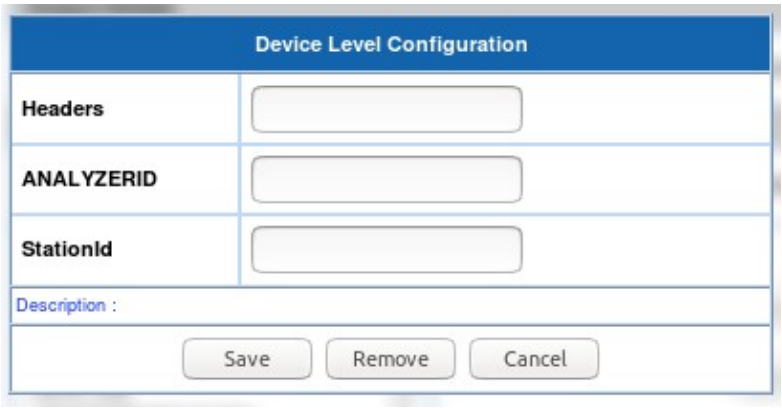
Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from 'Device List', for which this configuration is to done. Refer below screen-shot.



4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to GPCBGlens server. It's unit is milliseconds.

SERVER_URL – Generic GSPCB URL for uploading data. For ex - http://220.225.78.13/GSPCBGlens

SITE_ID – It is the site identification number, which as per GSPCBGlens configuration

SITE_KEY – It is the encrypted key, which is as per GSPCBGlens configuration in encrypted format.

SITE_UID - It is the site unique identification number, which is as per GSPCBGlens configuration

ARCHIVEDIRECTORY – Path of file where we want to create of backup file.

PROXYHOST – IP Address of proxy host.

PROXYPORT – Port of the proxy host.

PROXYUSERNAME – User Name to access the proxy server.

PROXYPASSWORD – Password to access the proxy server.

TIMESYNC – Used to synchronous the time between machine and GSPCBGlens Server

DELETEFILE – Delete file after successful upload.(1/0) where,

1: It will delete uploaded .zip files from TempUpload folder

0: It will move the .zip file from TempUpload folder to folder mentioned in ARCHIVEDIRECTORY

5. Following is the description for the keys (Device Level Configuration)

Headers – We provide list of all configured variables seperated by ~. e.g

pH~TSS

ANALYZERID – It is the analyzer id as per GSPCBGlens configuration.

StationId – It is station id as per GSPCBGlens configuration.

3.9.5. Configuration for older design

Refer 3.25 Old Configuration

3.9.6. Sample Configuration

UploadFrequency=60000

SERVER_URL=http://220.225.78.13/gspcb

SiteID=site_378

SITE_KEY=c2l0ZV8zMTQ4LHZlcl8yLjM=########

SiteUID=site_378

ARCHIVEDIRECTORY=C:/GSPCBGLENS

PROXYHOST=http://10.6.10.88

PROXYPORT=8080

PROXYUSERNAME=admin

PROXYPASSWORD=admin

TIMESYNC=0

DELETEFILE= 1

Headers=NO~CO2~CO~SO2

ANALYZERID=Analyzer_789

StationId=StationId_895

3.9.7. File Format

GPCBGlens.properties file format:

In GPCBGlens.PROPERTIES file give device wise information for parameter name & its unit.

This information is received from GPCB.

e.g.

StationID_ParameterName=parameter_id,unit_id
,analyzer_id e.g.
ETP_COD=parameter_83,unit_15,analyzer_202
ETP_BOD=parameter_84,unit_15,analyzer_202
ETP_TSS=parameter_85,unit_15,analyzer_202

GPCBGlens file data format:

It is zip file containing two files one is for metadata.csv and another is for actual values of parameters

Content to send in file:
SITE_ID,SITE_UID,MONITORING_UNIT_ID,ANALYZER_ID,PARAMETER_ID,PARAMETER_NAME,READING,UNIT_ID,DATA_QUALITY_CODE,RAW_READING,UNIX_TIMESTAMP,CALIBRATION_FLAG, MAINTENANCE_FLAG

Filename = SITE_UID _ STATION_ID _ Date.zip
eg. site_460_ETP_20161110153410.zip
There should be always new file is created per minute containing data of each minute. After every minutes file should gets uploaded to MPCB Glens Server.
Metadata.csv file contains information about data we are uploading.

In TempUpload folder of build should have “metadata.csv”.

3.9.8. Final Checklist

1. metadata.csv file is present in TempUpload
2.GPCBGlens.properties file to be present in ‘conf’ folder of enviroconnect.
3. jar file in adjacent folder "UnlimitedJCEPolicyJDK7" are require to set policy for enabling java for AES Encryption.

Follow below steps:

1.Find out location where java is installed on your machine.
2.Copy "local_policy.jar" & "US_export_policy.jar" files and replace in "Java\jre7\lib\security" folder.

3.10 HSPCB Output driver Configuration

NOTE- Before starting actual configuration of this Output Driver

This pre-deployment checklist has

<Upload Frequency> ,<SERVER_URL> , <Headers>, <IndustryId>, <StationId> and

<DeviceId>. Among the above <Headers>, <IndustryId>, <StationId> and <DeviceId>

are at Device Level Configuration.

3.10.1. Driver Available for Solution

EnviroConnect

3.10.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of particular industry in upload it to Haryana's Server.

3.10.3. Pre-Requisites

1. Make sure to execute HSPCBOutput.sql file

3.10.4. Configuration for new design

Steps to configure HSPCBOutput as per new design:

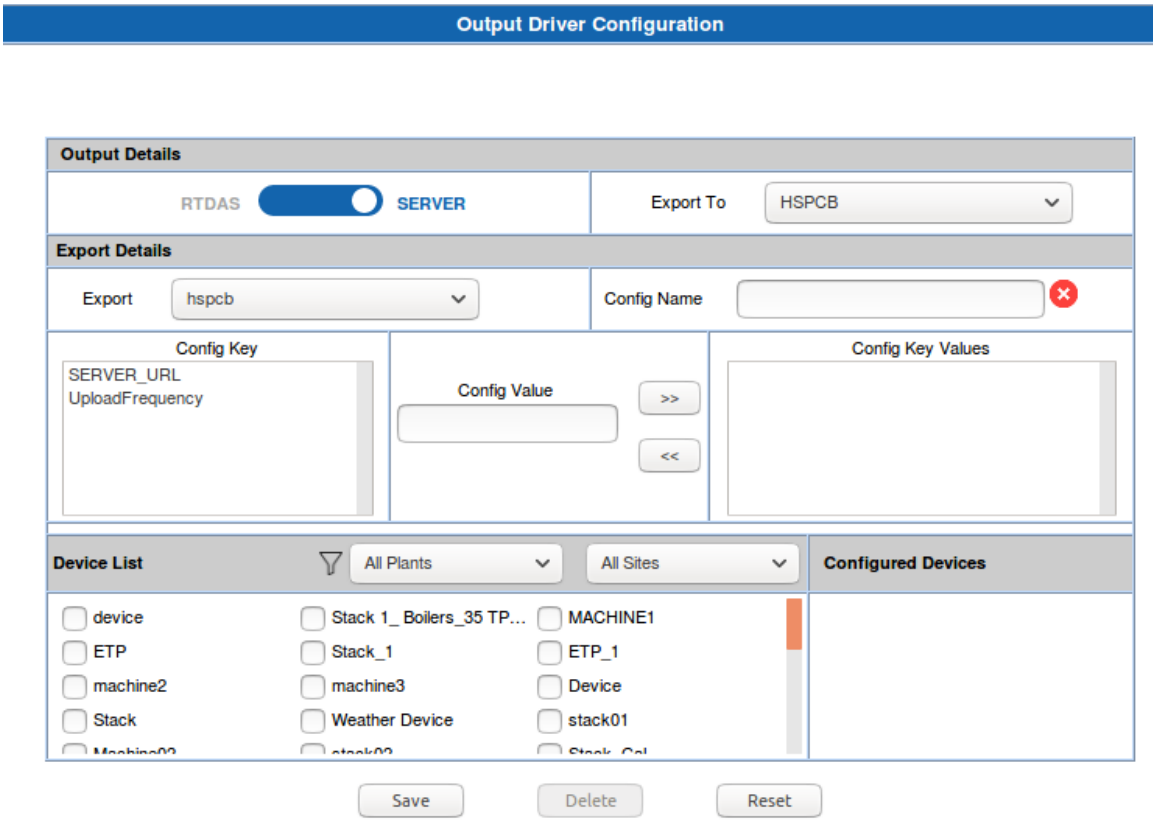
Configuration details:

Note- For HSPCBOutput version EnviroConnect 6.4. Patch 10

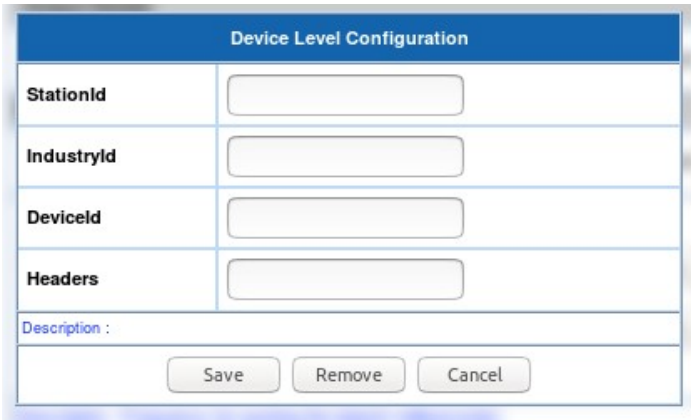
Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from ‘Device List’, for which this configuration is done. Refer below screen-shot.



4. Following is the description for the keys (Output Driver Level)

   UploadFrequency – It is the frequency with which data should be uploaded to HSPCB server. It's unit is milliseconds.

   SERVER_URL – Generic GSPCB URL for uploading data. For ex - http://220.225.78.13/GSPCBGlens

5. Following is the description for the keys (Device Level Configuration)

   StationId – Provide StationId as configured by HSPCB

   IndustryId – Provide IndustryId as configured by HSPCB

   DeviceId – Provide DeviceId as configured by HSPCB

   Headers – We provide list of all configured variables seperated by ~. e.g pH~TSS

3.10.5. Configuration for older design

Refer 3.25 Old Configuration

3.10.6. Sample Configuration

UploadFrequency=60000

SERVER_URL=http://164.100.160.248/hrcpcb-api/api

StationId=895

IndustryId=89

DeviceId=D00201

Headers=NO~CO2~CO~SO2

3.10.7. File Format

HSPCB.properties file format:

Token=<token> (This token is provided by client only.)
Example:

Token=MDEwMzIwMTlfZm9yYmVzX

3.10.8. Variable Mapping

Variable mapping requires because sometimes variable name at local solution and HSPCB server are different. If variable name is same at both side then there is no need to do variable mapping. Variable name is a case-sensitive field.

For variable mapping, now we need to create Sql query.
Sample Format of query:
INSERT INTO `hspcb_parameter_mapping` (`VariableName`, `HSPCBVariableName`)
VALUES
('ETP I/L 1', 'ETP IL Flow 1'),
('ETP I/L 2', 'ETP IL Flow 2');

VariableName- Indicates variable name at local solution.
HSPCBVariableName- Indicates variable name at HSPCB server.

3.10.9. Final Checklist

1. Make sure HSPCB.properties file to be present in the conf of project folder.
2. Make sure to do variable mapping, if name is different at both the ends.

3.11 JSPCB Output driver Configuration

NOTE- Before starting actual configuration of this Output Driver

This pre-deployment checklist has <UploadFrequency>, <FTPURL>,

<FTPPASSWORD>, <FILEPATH>, <FTPUSERNAME>, <EXPORTCLS> ,

<Headers> and <StationId>. Among the above <Headers> and <StationId> are device

level configuration.

3.11.1. Driver Available for Solution

EnviroConnect

3.11.2. Description

To read data from all devices under one plant in specific frequency and upload it to Jharkhand server.

3.11.3. Pre-Requisites

1. Make sure to execute JSPCBOutputPatch.sql file

3.11.4. Configuration for new design

Steps to configure JSPCBOutput as per new design:

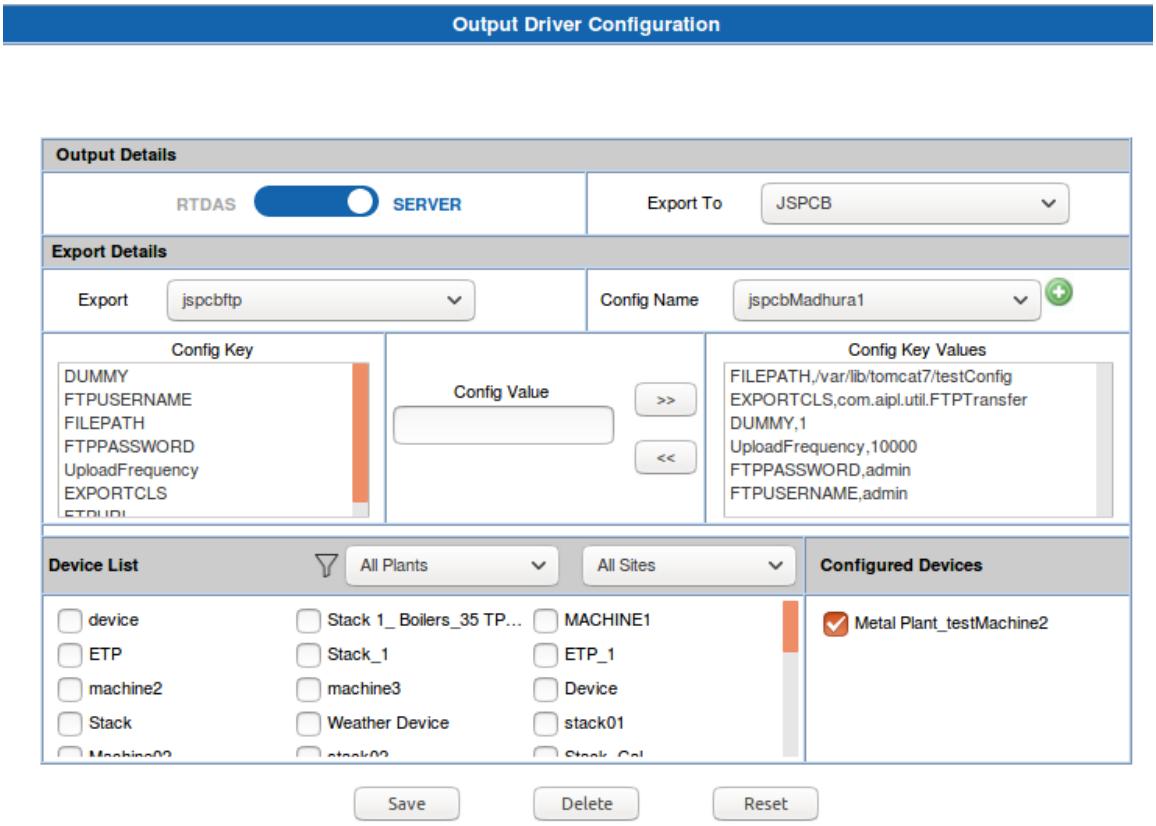
Configuration details:

Note- For JSPCBOutput version 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from ‘Device List’, for which this configuration is done. Refer below screen-shot.

4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to JSPCB server. It's unit is milliseconds.

FTPURL – FTP Server Path to upload the output file.

FTPUSERNAME – FTP Server User Name.

FTPPASSWORD – FTP Server Password.

FILEPATH – Folder path where the output file is generate.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

5. Following is the description for the keys (Device Level Configuration)

Headers – We provide list of all configured variables seperated by ~. e.g

pH~TSS

StationId – Provide StationId as configured by JSPCB

3.11.5. Configuration for older design

Refer 3.25 Old Configuration

3.11.6. Sample Configuration

UploadFrequency=60000

FTPURL=http://10.6.10.97/

FTPUSERNAME=admin

FTPPASSWORD=admin

FILEPATH=C:/jspcb

EXPORTCLS=com.aipl.util.FTPTransfer (Do not change this)

Headers=pH~TSS

StationId=2357

3.11.7. File Format

It creates txt file after each 15 minute for configured device. File name is in the format of "StackID.txt", where StackId is received from exportprofileconfig. configKey for it is "StationId".

It reads variables and format of data is as follows.

"05/25/15 03:01:00" ,.....	FIRST LINE "yyyy/mm/dd hh:mm:ss" ,values
"05/25/15 03:02:00 ",.....	SECOND LINE "yyyy/mm/dd hh:mm:ss " ;value
"05/25/15 03:03:00",.....	THIRD LINE "yyyy/mm/dd hh:mm:ss" ,values
"05/25/15 03:04:00",.....	FOURTH LINE "yyyy/mm/dd hh:mm:ss" ,values
"05/25/15 03:05:00",.....	FIFTH LINE "yyyy/mm/dd hh:mm:ss",values
"05/25/15 03:06:00 ",.....	SIXTH LINE "yyyy/mm/dd hh:mm:ss",values

There should be always new file created after 15 minutes containing data of previous 15 minutes in specific folder. It create 1 record for 1 minutes so in 15 minute there will be 15 records available in file. After 15 minutes file gets processed. If file get processed this file gets copied into backup folder and if file not get processed then next 15 minute data i.e. 15 records will get uploaded in same file it will not create new file.

3.12 KPCB Output driver Configuration

NOTE- Before starting actual configuration of this Output Driver

This pre-deployment checklist has

<UploadFrequency>, <FTPURL>, <FTPUSERNAME>, <FTPPASSWORD>,

<FILEPATH>, <PLANTUNIQUEID>,<EXPORTCLS> , <UniqueId> and <Header>.

Among above <UniqueId> and <Header> are device level configuration keys.

3.12.1. Driver Available for Solution

EnviroConnect

3.12.2. Description

To read data from all devices under one plant in specific frequency and send it to Karnataka Pollution Control Board's server.

3.12.3. Pre-Requisites

1. Make sure to execute KPCBOutputPatch.sql file

3.12.4. Configuration for new design

Steps to configure KPCBOutputPatch as per new design:

Configuration details:

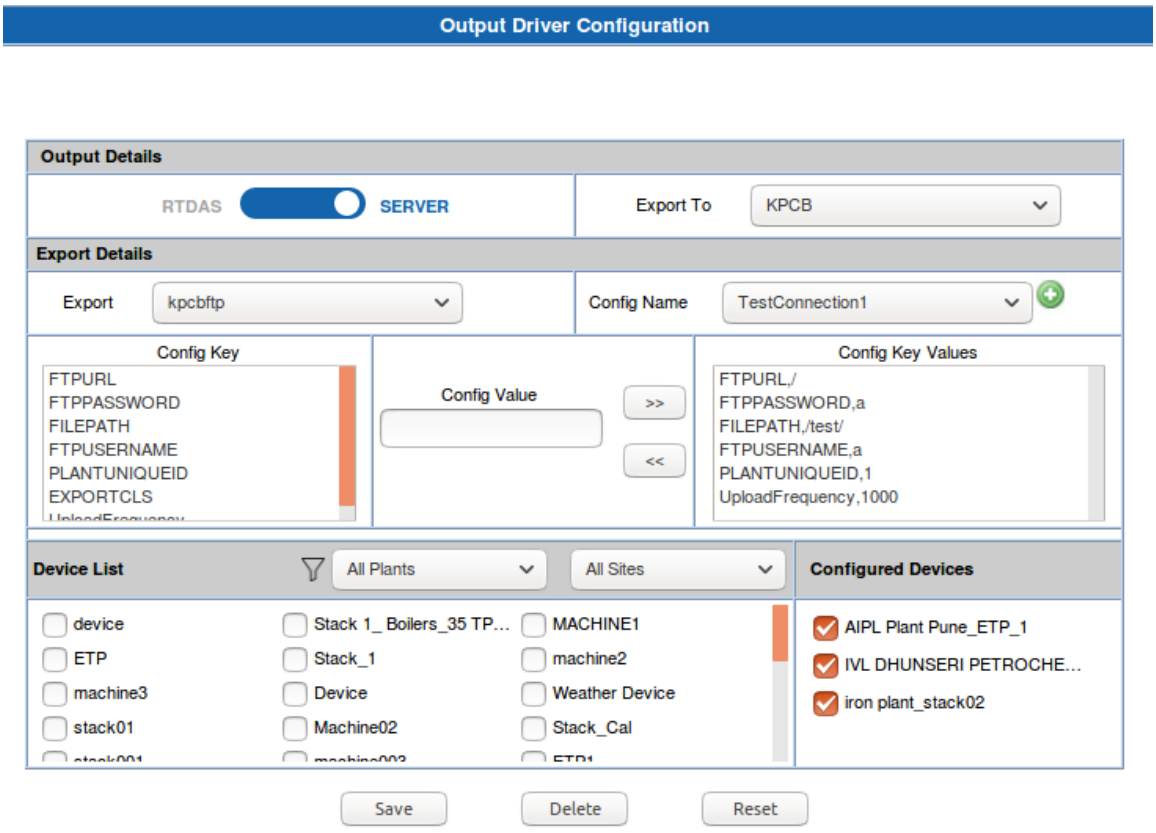
Note- For KPCBOutputPatch version 6.4. Patch 10

OutputDriver configuration for this is to be done from the **Enviroconnect** which is available in **version 6.4 Patch 10**

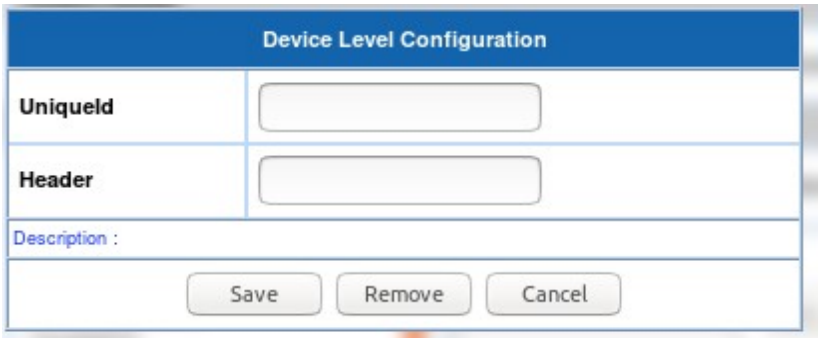
Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button 'Server', then in 'Export To' and 'Export' fields select respective OutputDriver Name, then add/select 'Config Name' field and configure the output Driver keys.



3. Then select Device from ‘Device List’, for which this configuration is to done. Refer below screen-shot.



4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to KPCB server. It's unit is milliseconds.

FTPURL – FTP Server Path to upload the output file.

FTPUSERNAME – FTP Server User Name.

FTPPASSWORD – FTP Server Password.

PLANTUNIQUEID – Plant unique identification number

FILEPATH – Folder path where the output file is generate.

FILENAME – File name of the file to be generated.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

5. Following is the description for the keys (Device Level Configuration)

Header – It is station id as per KPCB configuration.

UniqueId – it is the unique id number provided by KPCB.

3.12.5. Configuration for older design

Refer 3.25 Old Configuration

3.12.6. Sample Configuration

UploadFrequency=60000

FTPURL=http://10.6.10.97/kpcb

FTPUSERNAME=admin

FTPPASSWORD=admin

FILEPATH=C:/kpcb

PLANTUNIQUEID=58

FILENAME=KPCB

EXPORTCLS=com.aipl.util.FTPTransfer (Do not change this)

Header=NO~CO

UniqueId=5945

3.12.7. File Format

KPCB data file format:

It creates csv file for connected devices. File name is in the format of "State_City_Corporate-ID_PlantID_Industry-Type_ClientID_YYYY-MM-DD_HHMMSS.csv".

For all devices under one plant , one file will be created after 10 minutes. Format of data is as follows.

XX(No.of devices connected)
Device_Recg_1,DT_Stamp_1,OPACITY,Dust,Temp,Pressure,F_DV,F_CAL,F_COM
Device_Recg_2,DT_Stamp_1,NO,CO2,CO,SO2,H2O,Temp,Pressure,F_DV,F_CAL,F_COM
Device_Recg_3,DT_Stamp_1,Velocity,Temp,Pressure,F_DV,F_CAL,F_COM
Device_Recg_4,DT_Stamp_1,COD,BOD,TSS,PH,ERROR_CH1(COD)_&_CH2(BOD),ERROR_CH3(TSS)_&_CH4(pH)
Device_Recg_1,DT_Stamp_1,,,,,,,,,,,,,,,,,,,,,,,,
Device_Recg_2,DT_Stamp_1,,,,,,,,,,,,,,,,,,,,,,,,
Device_Recg_3,DT_Stamp_1,,,,,,,,,,,,,,,,,,,,,,,,
Device_Recg_4,DT_Stamp_1,,,,,,,,,,,,,,,,,,,,,,,,
Device_Recg_1,DT_Stamp_2,,,,,,,,,,,,,,,,,,,,,,,,
Device_Recg_2,DT_Stamp_2,,,,,,,,,,,,,,,,,,,,,,,,
Device_Recg_3,DT_Stamp_2,,,,,,,,,,,,,,,,,,,,,,,,
Device_Recg_4,DT_Stamp_2,,,,,,,,,,,,,,,,,,,,,,,,

where Device_Recg_1, Recg_2, Recg_3, Recg_4 are device unique id which is received from exportprofileconfig of repective device. Key name is "UniqueId~<deviceId>";

There should be always new file is created after 10 minutes containing data of previous 10 minutes in specific folder. It contains 1 minutes average data (10 records in 60 minutes for one device). After 10 minutes all files should gets processed. And if file get processed this file gets copied into backup folder.

If value is not coming for specific variable, "N.A" will be written for same.

One more key is added in exportprofileconfig for selecting gas type of variable/s among all gas type variables. Parameter name is "Header~<deviceId>" which contains gas type of variables separated by delimiter "~". only these variable's values will be logged into file.

3.13 Data Export to EnVista (LSI) Output driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency>, <UserName>, <FTPPORT>,

<FTPURL>, <FTPUSERNAME>, <FTPPASSWORD>, <FILEPATH>, <FileName>,

<EXPORTCLS> and <STATIONTYPE>.

3.13.1. Driver Available for Solution

EnviroConnect

3.13.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of industry to format required to send it to Envista Server.

3.12.3. Pre-Requisites

1. Make sure to execute LSI.sql file

3.13.4. Configuration for new design

Steps to configure LSI as per new design:

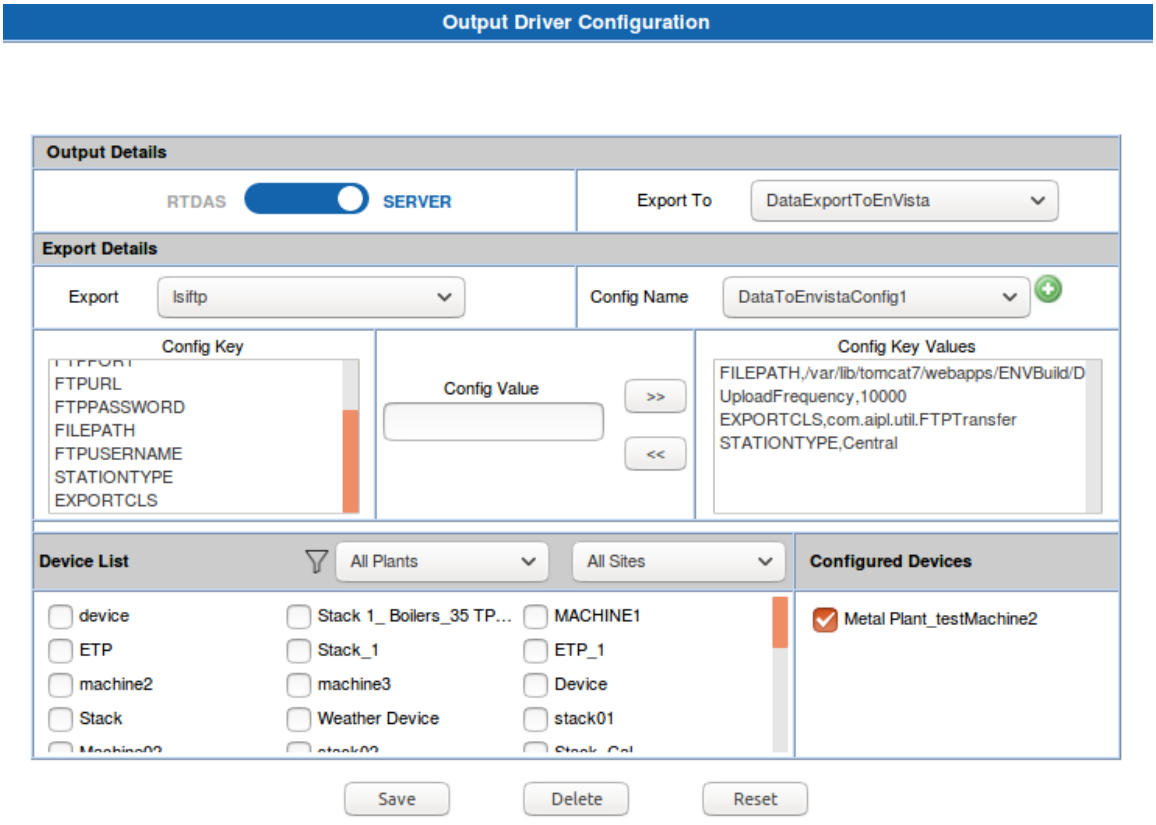
Configuration details:

Note- For LSI version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from ‘Device List’, for which this configuration is to done.4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to Gujarat server. It’s unit is milliseconds.

UserName –admin

FTPPORT – Port number for FTP connection.

FTPURL – FTP Server Path to upload the output file.

FTPUSERNAME – FTP Server User Name.

FTPPASSWORD – FTP Server Password.

FILENAME – Name of file to be created.

FILEPATH – Folder path where the output file is to generated.

STATIONTYPE – It specifies whether station is central or local.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

3.13.5. Configuration for older design

Refer 3.25 Old Configuration

3.13.6. Sample Configuration

UploadFrequency=60000

UserName=admin

FTPPORT=8080

FTPURL=http://10.6.10.97/sembcorp

FTPUSERNAME=admin

FTPPASSWORD=admin

FILEPATH=C:/sembcorp

STATIONTYPE= Central/Local

EXPORTCLS=com.aipl.util.FTPTransfer (Do not change this)

3.13.7. File Format

1. Extension of this file will be .lsi
2. File name should be DD-MM-YYYY hh:mm.lsi
3. Sequence of AirQualityData data group should be maintained while writing data into the gas parameter file
4. Sequence of Diagnostic group data should be maintained while writing data into the diagnostics parameter file
5. Data in file will consist of stationed, datetimestamp,parameter value1,parametervalue2,parameterrvalue3…,

e.g. 1,2/26/2014 4:01:00 PM,-9999,0,-9999,0,-9999,0,-9999,0,-9999,0,-9999,0,-9999,0,-9999,0,-9999,0,-9999,0,

6. Data in file will consist of stationed, datetimestamp,parameter
7. As per deployment, there will scenarios for data export
8. Data export from local station (If stationtype is Local)
   One line in file will have all devices gas parameters (Analog type) data from one site
   Group Id will be station id
9. Data export from central station(If stationtype is Central)
   One line in file will have one device's gas parameters (Analog type) data from one site
   Device Id will be station id
10. There should be always new file is created after 15 minutes containing data of previous 15 minutes in specific folder. After 15 minutes all files should gets processed. And if file get processed this file gets copied into backup folder.

3.14 LSIDisplayBoard Output driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency>, <UserName>, <FTPPORT>,

<FTPURL>, <FTPUSERNAME>, <FTPPASSWORD>, <FILEPATH>, <FileName>,

<EXPORTCLS> and <STATIONTYPE>.

3.14.1. Driver Available for Solution

EnviroConnect

3.14.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of industry to format required for display board.

3.14.3. Pre-Requisites

1. Make sure to execute LSIDisplayBoard.sql file

3.14.4. Configuration for new design

Steps to configure LSIDisplayBoard as per new design:

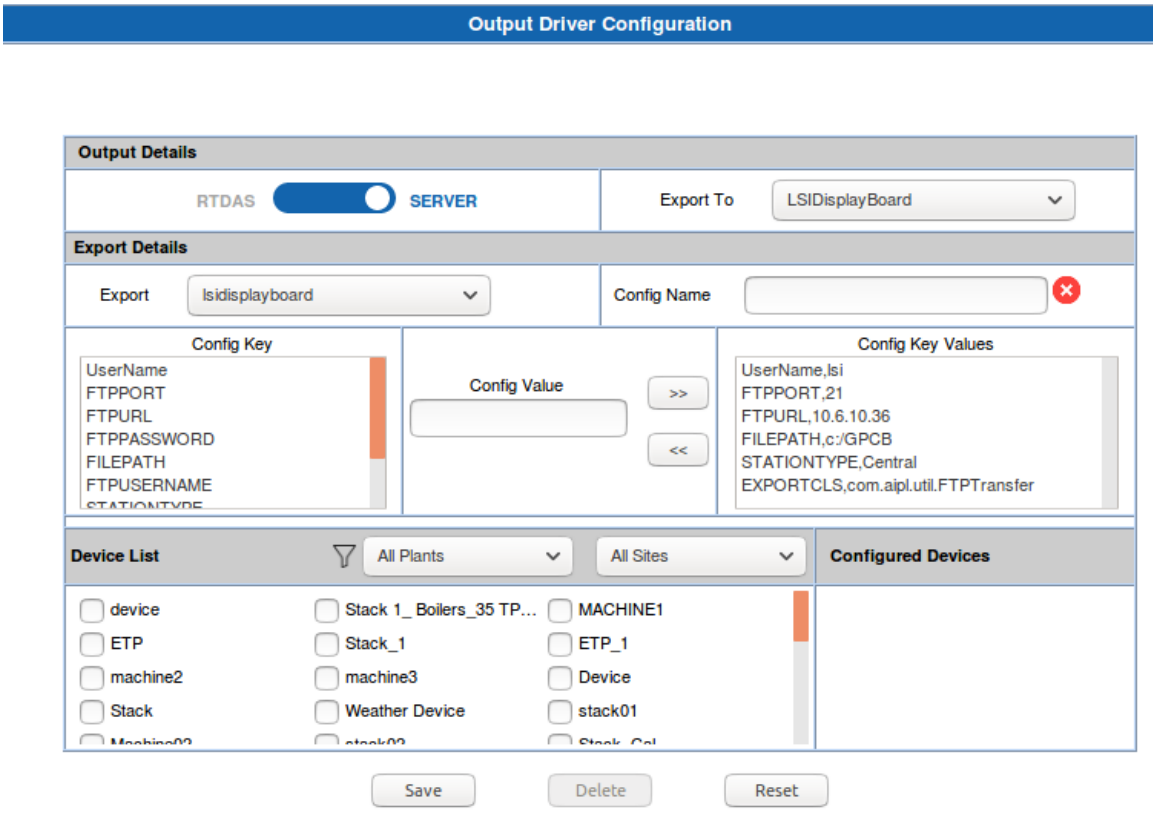
Configuration details:

Note- For LSIDisplayBoard version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button 'Server', then in 'Export To' and 'Export' fields select respective OutputDriver Name, then add/select 'Config Name' field and configure the output Driver keys.



3. Then select Device from 'Device List', for which this configuration is to done.

4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to Gujarat server. It's unit is milliseconds.

UserName –admin

FTPPORT – Port number for FTP connection.

FTPURL – FTP Server Path to upload the output file.

FTPUSERNAME – FTP Server User Name.

FTPPASSWORD – FTP Server Password.

FILENAME – Name of file to be created.

FILEPATH – Folder path where the output file is to generated.

STATIONTYPE – It specifies whether station is central or local.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

3.14.5. Configuration for older design

Refer 3.25 Old Configuration

3.14.6. Sample Configuration

UploadFrequency=60000

UserName=admin

FTPPORT=8080

FTPURL=http://10.6.10.97/sembcorp

FTPUSERNAME=admin

FTPPASSWORD=admin

FILEPATH=C:/mpcb

STATIONTYPE= Central/Local

EXPORTCLS=com.aipl.util.FTPTransfer (Do not change this)

3.14.7. File Format

LSIDisplayBoard data format:

1. On display board there are multiple pages.
2. On each page there are multiple lines.
3. In driver we have to get data from table “lineinfo” and have to convert it into format in which display board required [Please refer document “Billboard_Protocol.pdf” and “Integra-TR_000-0000-165_.pdf”]
4. Each line has data as per display board syntax:-

   $ ID COLOR P1 P2 T1 T2 DATA CR LF Next data again start from ID to LF ~

   Where :

   $: start character
   ID :Line number on page
   COLOR : colour in which we want to display text
   P1:Message type
   P2 :Presentation number
   T1 : Tens of time for which we want to display message
   T2 :Units of time for which we want to display message
   DATA : Message text
   CR :Carriage return (Required character for display board)
   LF :Line Feed (Required character for display board)
   ~ :End character
   ID: We can give line number form 1 to 6.We have to write hex character for line number.
   COLOR : Here we have to write color code.
   Green :'G'
   Red :'R'
   Yellow:'Y'
   P1 : We can write 0 [“General message”] or 1[“Parameter Message”].
   P2 :We can give number 0-9.
   T1:Tens of time duration for which we want display message.
   T2:Units of time duration for which we want display message.
5. Message we want to display can contain some dynamic content.
   1. If message contains System Time then we have to write current system time.
   2. If message contain Device and variables then we have to write current value of that variable.

Ex.

$SOHR1035RSPM,100.0,50.0CRLF
STXG013519/12/06 10:35CRLF
~

6. These are two lines :
   1.SOH is hex character for line number 1.'R' used for red colour .
   2.STX id hex character for line number 2.'G' used for green colour.
7. File gets created when data is send to display board.
8. Extension of this file will be .txt.
9. File name should be “DisplayBoard”.
10. Every time when data is sent to display board this file gets overwrite as per frequency set into database.

3.15 MPCBGlens Output driver Configuration

NOTE- Before starting actual configuration of this Output Driver

This pre-deployment checklist has

<Upload Frequency> ,<SERVER_URL> ,<SITE_ID> ,<SITE_KEY>,<SITE_UID>

<ARCHIVEDIRECTORY> ,<ANALYZER_ID> ,<DELETEFILE> ,<TIMESYNC> ,

<PROXYHOST>, <PROXYPORT>, <PROXYUSERNAME>, <PROXYPASSWORD>

<Headers>, <StationId> and<AnalyserId> which required for sending data. Among

above keys, <Headers>, <StationId>, <AnalyserId> are needed for each device.

3.15.1. Driver Available for Solution

EnviroConnect

3.15.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of particular industry in specified zip file format to MPCB-Glens(Maharashtra Pollution Control Board) servers.

3.15.3. Pre-Requisites

1. Make sure to execute MpcbGlensOutput.sql file

2. Get metadata.csv file.

metadata.csv file is needed for creating zip which is sent to server. This zip has one file which actual values of parameters and metadata.csv files

3. jar file in adjacent folder "UnlimitedJCEPolicyJDK7" are require to set policy for enabling java for AES Encryption.

Follow below steps:

1.Find out location where java is installed on your machine.

2.Copy "local_policy.jar" & "US_export_policy.jar" files and replace in "Java\jre7\lib\security" folder.

3.15.4. Configuration for new design

Steps to configure MpcbGlensOutput as per new design:

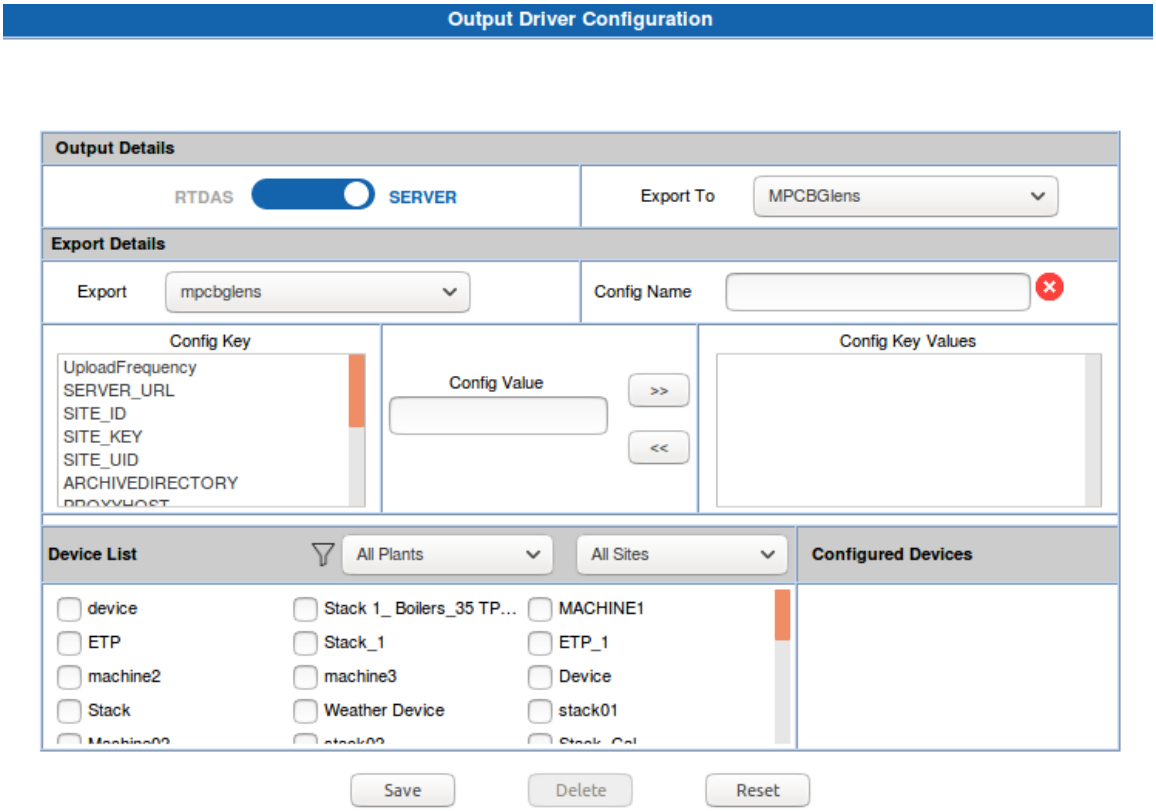
Configuration details:

Note- For MpcbGlensOutput version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from ‘Device List’, for which this configuration is to done. Refer below screen-shot.

4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to MPCBGlens server. It's unit is milliseconds.

SERVER_URL – Generic MPCBGlens URL for uploading data. For ex - http://220.225.78.13/mpcb

SITE_ID – It is the site identification number, which as per MPCB Glens configuration

SITE_KEY – It is the encrypted key, which is as per MPCB Glens configuration in encrypted format.

SITE_UID - It is the site unique identification number, which as per MPCB Glens configuration

ARCHIVEDIRECTORY – Path of file where we want to create back up of uploaded file.

PROXYHOST – IP Address of proxy host.

PROXYPORT – Port of the proxy host.

PROXYUSERNAME – User Name to access the proxy server.

PROXYPASSWORD – Password to access the proxy server.

TIMESYNC – Used to synchronous the time between machine and MPCB Glens Server

DELETEFILE – Delete file after successful upload.(1/0) where,

1: It will delete uploaded .zip files from TempUpload folder

0: It will move the .zip file from TempUpload folder to folder mentioned in ARCHIVEDIRECTORY

5. Following is the description for the keys (Device Level Configuration)

Headers – We provide list of all configured variables seperated by ~. e.g pH~TSS

ANALYZERID – It is the analyzer id as per MPCBGLENS configuration.

StationId – It is station id as per MPCBGLENS configuration.

Important: Keep metadata.csv file in 'TempUpload' folder of the enviroconnect.

3.15.5. Configuration for older design

Refer 3.25 Old Configuration

3.15.6. Sample Configuration

UploadFrequency=60000

SERVER_URL=http://220.225.78.13/mpcb

SiteID=site_378

SITE_KEY=c2l0ZV8zMTQ4LHZlcl8yLjM=########

SiteUID=site_378

ARCHIVEDIRECTORY=C:/MPCBGLENS

PROXYHOST=http://10.6.10.88

PROXYPORT=8080

PROXYUSERNAME=admin

PROXYPASSWORD=admin

TIMESYNC=0

DELETEFILE= 1

Headers=NO~CO2~CO~SO2

StationId=StationId_895

ANALYZERID=Analyzer_789

3.15.7. File Format

MPCBGlens.properties file format:

In MPCBGlens.PROPERTIES file give device wise information for parameter name & its unit.
This information is received from MPCB.
e.g.
StationID_ParameterName=parameter_id,unit_id
,analyzer_id e.g.
ETP_COD=parameter_83,unit_15,analyzer_202
ETP_BOD=parameter_84,unit_15,analyzer_202
ETP_TSS=parameter_85,unit_15,analyzer_202

MPCBGlens data file format:

It is zip file containing two files one is for metadata.csv and another is for actual values of parameters

Content to send in file:
SITE_ID,SITE_UID,MONITORING_UNIT_ID,ANALYZER_ID,PARAMETER_ID,PARAMETER_NAME,READING,UNIT_ID,DATA_QUALITY_CODE,RAW_READING,UNIX_TIMESTAMP,CALIBRATION_FLAG, MAINTENANCE_FLAG

Filename = SITE_UID _ STATION_ID _ Date.zip
eg. site_460_ETP_20161110153410.zip
There should be always new file is created per minute containing data of each minute. After every minutes file should gets uploaded to MPCB Glens Server.
Metadata.csv file contains information about data we are uploading.

In TempUpload folder of build should have "metadata.csv".

3.15.8. Final Checklist

1. metadata.csv file is present in TempUpload

2.Make sure MPCBGlens.properties file to be present in 'conf" folder of enviroconnect.

3. jar file in adjacent folder "UnlimitedJCEPolicyJDK7" are require to set policy for enabling java for AES Encryption.

Follow below steps:

1.Find out location where java is installed on your machine.

2.Copy "local_policy.jar" & "US_export_policy.jar" files and replace in "Java\jre7\lib\security" folder.

3.16 MPCB Output driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency>, <UserName>, <FTPPORT>, <FTPURL>, <FTPPASSWORD>, <FILEPATH>, <FTPUSERNAME>, <FILENAME>, <EXPORTCLS>

3.16.1. Driver Available for Solution

EnviroConnect

3.16.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of particular industry to the Madhya – Pradesh's server in specified file format.

3.16.3. Pre-Requisites

1. Make sure to execute MpcbOutputPatch.sql file

3.16.4. Configuration for new design

Steps to configure Mpcb as per new design:

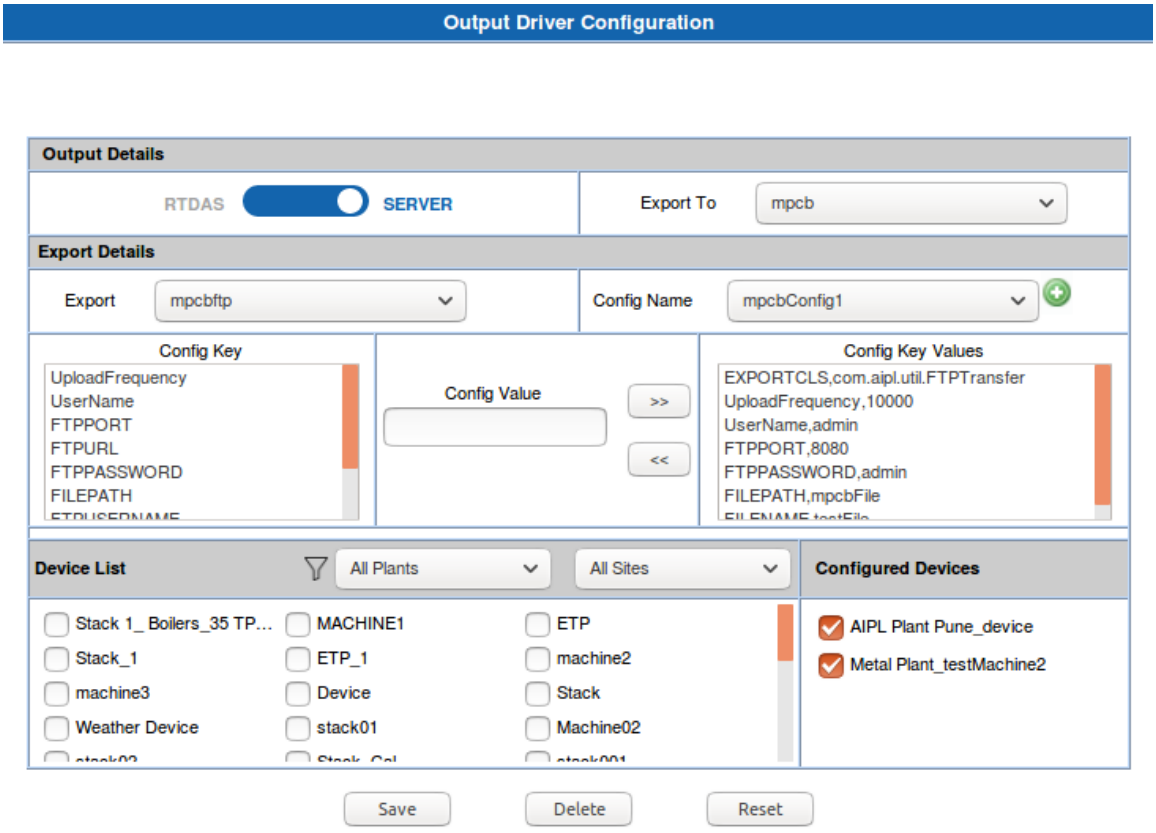
Configuration details:

Note- For MpcbOutputPatch version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button 'Server', then in 'Export To' and 'Export' fields select respective OutputDriver Name, then add/select 'Config Name' field and configure the output Driver keys.



3. Then select Device from 'Device List', for which this configuration is to done.

4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to MPCB server. It's unit is milliseconds.

UserName –admin

FTPPORT – Port number for FTP connection.

FTPURL – FTP Server Path to upload the output file.

FTPUSERNAME – FTP Server User Name.

FTPPASSWORD – FTP Server Password.

FILENAME – Name of file to be created.

FILEPATH – Folder path where the output file is to generated.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

3.16.5. Configuration for older design

Refer 3.25 Old Configuration

3.16.6. Sample Configuration

Sample OutputDriverConfiguration as per new design

UploadFrequency=60000

UserName=admin

FTPPORT=8080

FTPURL=http://10.6.10.97/mpcb

FTPUSERNAME=admin

FTPPASSWORD=admin

FILEPATH=C:/mpcb

EXPORTCLS=com.aipl.util.FTPTransfer (Do not change this)

3.16.7. File Format

MPCB data file format:

It is text file containing single line record for each datetimestamp with all values for all parameters of all stations for that date-time separated by ",".

eg-2014:02:14 12:10:00,32.0,20.10,60.0
where ,
2014:02:14 12:10:00-DateTimeStamp
32.0 -Value for first parameter at 2014:02:14 12:10:00.
20.10-Value for second parameter at 2014:02:14 12:10:00.
60.0--Value for third parameter at 2014:02:14 12:10:00.

There should be always new file is created after 15 minutes containing data of previous 15 minutes in specific folder. After 15 minutes all files should gets processed. And if file get processed this file gets copied into backup folder.

3.16.8. Final Checklist

1. Make sure client is FTP enabled.

3.17 MPCBPerDevice Output driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency>, <UserName>, <FTPPORT>, <FTPURL>, <FTPUSERNAME>, <FTPPASSWORD>, <FILEPATH>, <FILENAME>, <EXPORTCLS>

3.17.1. Driver Available for Solution

EnviroConnect

3.17.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of particular industry to the Madhya-Pradesh as per device server in specified file format.

3.17.3. Pre-Requisites

1. Make sure to execute MpcbPerDeviceOutputPatch.sql file

3.17.4. Configuration for new design

Steps to configure MpcbPerDevice as per new design:

Configuration details:

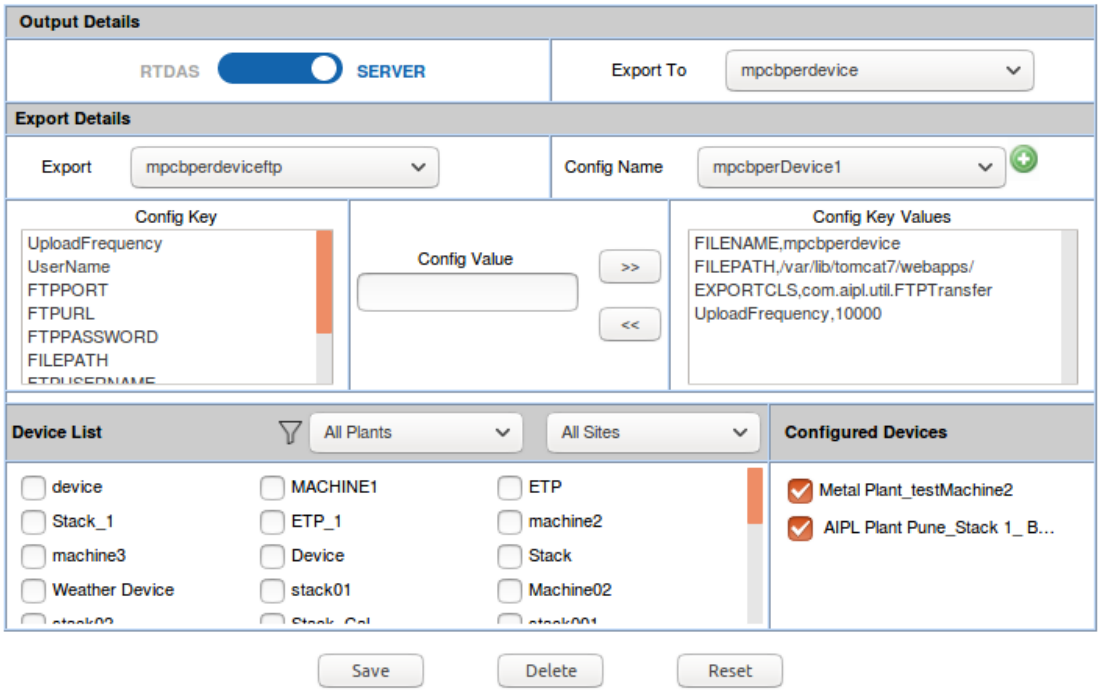
Note- For MpcbPerDevice version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button 'Server', then in 'Export To' and 'Export' fields select respective OutputDriver Name, then add/select 'Config Name' field and configure the output Driver keys.

Output Driver Configuration



3. Then select Device from 'Device List', for which this configuration is to done.

4. Following is the description for the keys (Output Driver Level)

   UploadFrequency – It is the frequency with which data should be uploaded to Mpcb server. It's unit is milliseconds.

   UserName –admin

   FTPPORT – Port number for FTP connection.

   FTPURL – FTP Server Path to upload the output file.

   FTPUSERNAME – FTP Server User Name.

   FTPPASSWORD – FTP Server Password.

   FILENAME – Name of file to be created.

   FILEPATH – Folder path where the output file is to generated.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

3.17.5. Configuration for older design

Refer 3.25 Old Configuration

3.17.6. Sample Configuration

UploadFrequency=60000

UserName=admin

FTPPORT=8080

FTPURL=http://10.6.10.97/mpcb

FTPUSERNAME=admin

FTPPASSWORD=admin

FILEPATH=C:/mpcb

EXPORTCLS=com.aipl.util.FTPTransfer (Do not change this)

3.17.7. File Format

MpcbPerDevice file format:

Devicename_Deviceidyyyymmddhhmmss.txt

Data obtained will be as

Device Name-Parameter Name, Device Name-Parameter Name
Date Stamp
e.g Gas Analyser-SO2,Gas Analyser-CO
2019-08-07 17:43:00,10.0,13.0

3.17.8. Final Checklist

1. Make sure client is FTP enabled.

3.18 Ppcb Output driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency>, <UserName>, <FTPPORT>, <FTPURL>, <FTPPASSWORD>, <FILEPATH>, <FTPUSERNAME>, <FILENAME>, <EXPORTCLS>

3.18.1. Driver Available for Solution

EnviroConnect

3.18.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of particular industry to the Punjab's server in specified file format.

3.18.3. Pre-Requisites

1. Make sure to execute PpcbOutputPatch.sql file

3.18.4. Configuration for new design

Steps to configure Ppcb as per new design:

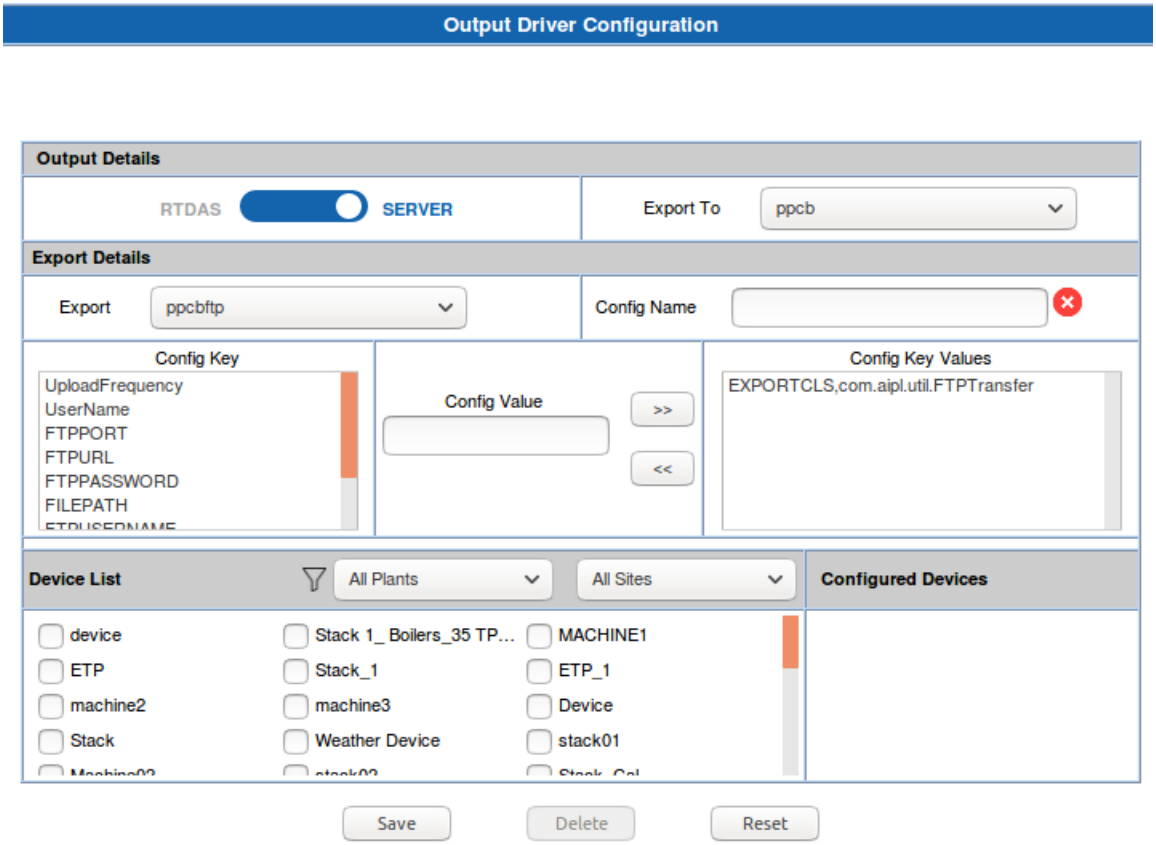
Configuration details:

Note- For PpcbOutputPatch version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from ‘Device List’, for which this configuration is to done.

4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to Ppcb server. It’s unit is milliseconds.

UserName –admin

FTPPORT – Port number for FTP connection.

FTPURL – FTP Server Path to upload the output file.

FTPUSERNAME – FTP Server User Name.

FTPPASSWORD – FTP Server Password.

FILENAME – Name of file to be created.

FILEPATH – Folder path where the output file is to generated.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

3.18.5. Configuration for older design

Refer 3.25 Old Configuration

3.18.6. Sample Configuration

Sample OutputDriverConfiguration.ini as per new design

UploadFrequency=60000

UserName=admin

FTPPORT=8080

FTPURL=http://10.6.10.97/

FTPUSERNAME=admin

FTPPASSWORD=admin

FILEPATH=C:/mpcb

EXPORTCLS=com.aipl.util.FTPTransfer (Do not change this)

3.18.7. File Format

Ppcb file data format:

It is text file containing single line record for each datetimestamp with all values for all parameters of all stations for that date-time separated by ",".

eg-2014:02:14 12:10:00,32.0,20.10,60.0
where ,
2014:02:14 12:10:00-DateTimeStamp
32.0 -Value for first parameter at 2014:02:14 12:10:00.
20.10-Value for second parameter at 2014:02:14 12:10:00.
60.0--Value for third parameter at 2014:02:14 12:10:00.

There should be always new file is created after 15 minutes containing data of previous 15 minutes in specific folder. After 15 minutes all files should gets processed. And if file get processed this file gets copied into backup folder.

3.18.8. Final Checklist

1. Make sure client is FTP enabled.

3.19 RPCB Output driver Configuration

NOTE- Before starting actual configuration of this Output Driver

This pre-deployment checklist has

<Upload Frequency> ,<SERVER_URL> ,<SITE_ID> <SITE_UID>

<ARCHIVEDIRECTORY> ,<PROXYHOST>, <PROXYPORT>,

<PROXYUSERNAME>, <PROXYPASSWORD>,<DELETEFILE> , <Headers>,

<StationId> and<AnalyserId> which required for sending data. Among above keys,

<Headers>, <StationId>, <AnalyserId> are needed for each device.

3.19.1. Driver Available for Solution

EnviroConnect

3.19.2. Description

To read data from all devices under one plant in specific frequency and send it to Rajasthan State's Pollution Control Board.

3.19.3. Pre-Requisites

1. Make sure to execute RPCBOutput.sql file

2. Get metadata.csv file.

metadata.csv file is needed for creating zip which is sent to server. This zip has one file which actual values of parameters and metadata.csv files

3.19.4. Configuration for new design

Steps to configure RPCBOutput as per new design:

Configuration details:

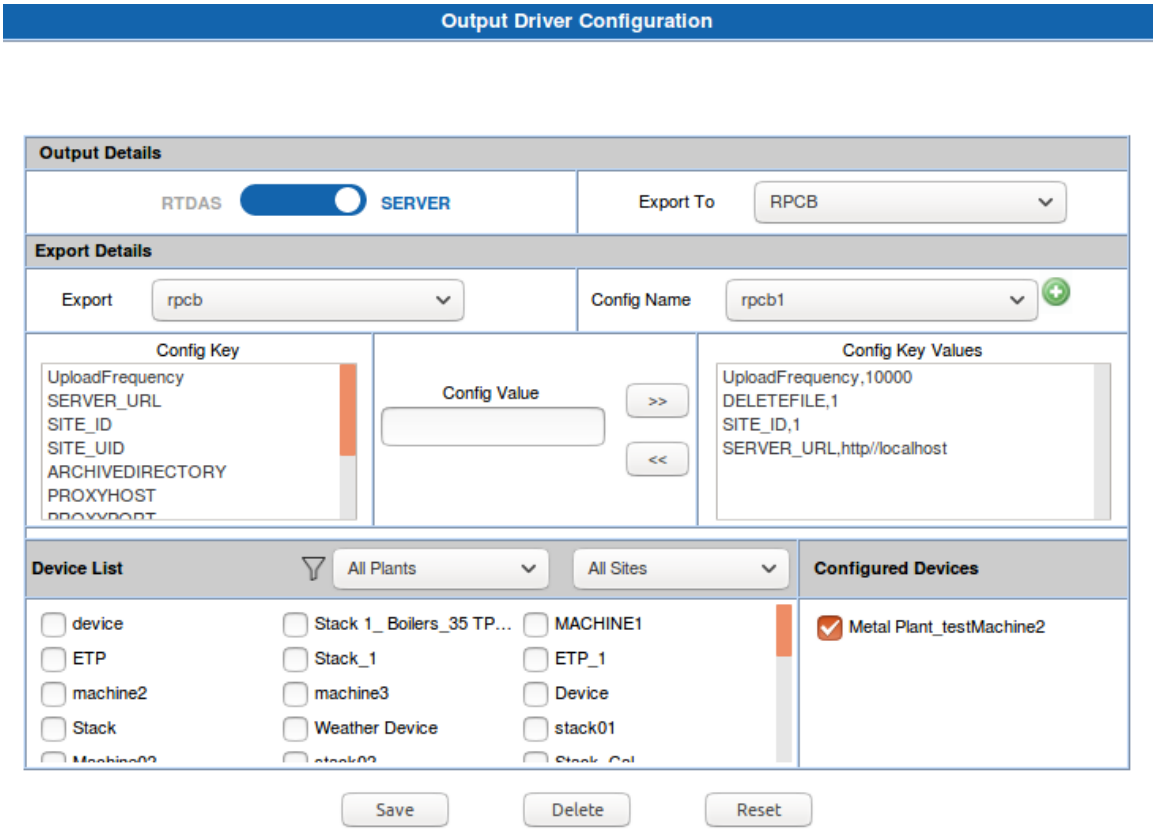
Note- For RPCBOutput version 6.4. Patch 10

OutputDriver configuration for this is to be done from the **Enviroconnect** which is available in **version 6.4 Patch 10**

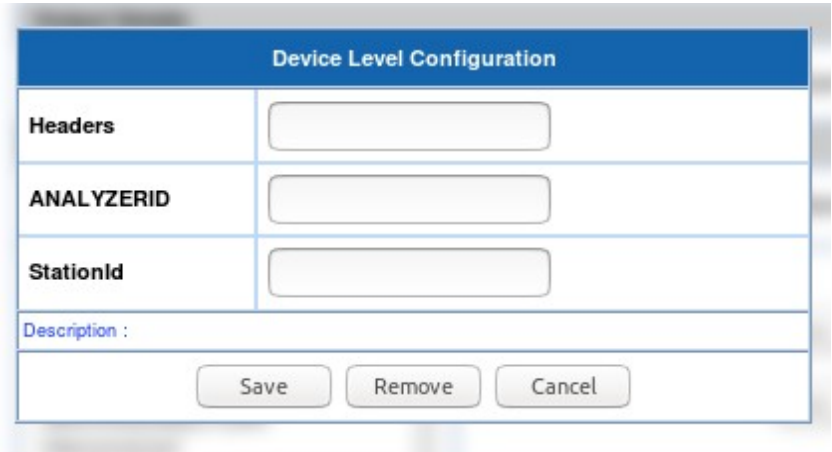
Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from 'Device List', for which this configuration is done. Refer below screen-shot.



4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to RPCB server. It's unit is milliseconds.

SERVER_URL – Generic RPCB URL for uploading data. For ex - http://220.225.78.13/rpcb

SITE_ID – It is the site identification number, which as per RPCB configuration

SITE_UID - It is the site unique identification number, which as per RPCB configuration

ARCHIVEDIRECTORY – Path of file where we want to create the backup of file.

PROXYHOST – IP Address of proxy host.

PROXYPORT – Port of the proxy host.

PROXYUSERNAME – User Name to access the proxy server.

PROXYPASSWORD – Password to access the proxy server.

DELETEFILE – Delete file after successful upload.(1/0) where,

1: It will delete uploaded .zip files from TempUpload folder

0: It will move the .zip file from TempUpload folder to folder mentioned in ARCHIVEDIRECTORY

5. Following is the description for the keys (Device Level Configuration)

Headers – We provide list of all configured variables seperated by ~. e.g pH~TSS

ANALYZERID – It is the analyzer id as per RPCB configuration.

StationId – It is station id as per RPCB configuration.

3.19.5. Configuration for older design

Refer 3.25 Old Configuration

3.19.6. Sample Configuration

Sample OutputDriverConfiguration as per new design

UploadFrequency=60000

SERVER_URL=http://220.225.78.13/rpcb

SiteID=1107

SiteUID=site_99

ARCHIVEDIRECTORY=C:/RSPCB

PROXYHOST=http://10.6.10.88

PROXYPORT=8080

PROXYUSERNAME=admin

DELETEFILE= 1

PROXYPASSWORD=admin

Headers=NO~CO2~CO~SO2

ANALYZERID=RSPCB_789

StationId=StationId_895

3.19.7. File Format

RPCB.properties file format:

File name is in the format of "SITEUID_MONITORINGID_timestamp.csv",
where SITEUID is site uid received in configuration file from RPCB,
MONITORINGID is monitoring unit id (station id) received in configuration file from RPCB,

timstamp is end time 1 minute of interval of file.

RPCB file data format:

1107,site_99,STACK,analyzer_123,parameter_89,NO,23.00,unit_12,U,23.00,1435505948,0,0

3.19.8. Final Checklist

1. metadata.csv file is present in TempUpload
2. RPCB.properties to be present in 'conf' folder of the enviroconnect

3.20 SembcorpDisplayBoard Output driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency>, <UserName>, <FTPPORT>, <FTPURL>, <FTPUSERNAME>, <FTPPASSWORD>, <FILEPATH>, <FileName>, <EXPORTCLS> and <STATIONTYPE>.

3.20.1. Driver Available for Solution

EnviroConnect

3.20.2. Description

This driver is used for sending emission data by linking the actual results of the all parameters of all stations of industry to SembCorp and its sent in a data.

3.20.3. Pre-Requisites

1. Make sure to execute sembcorpDisplayBoard.sql file

3.20.4. Configuration for new design

Steps to configure SembcorpDisplayBoard as per new design:

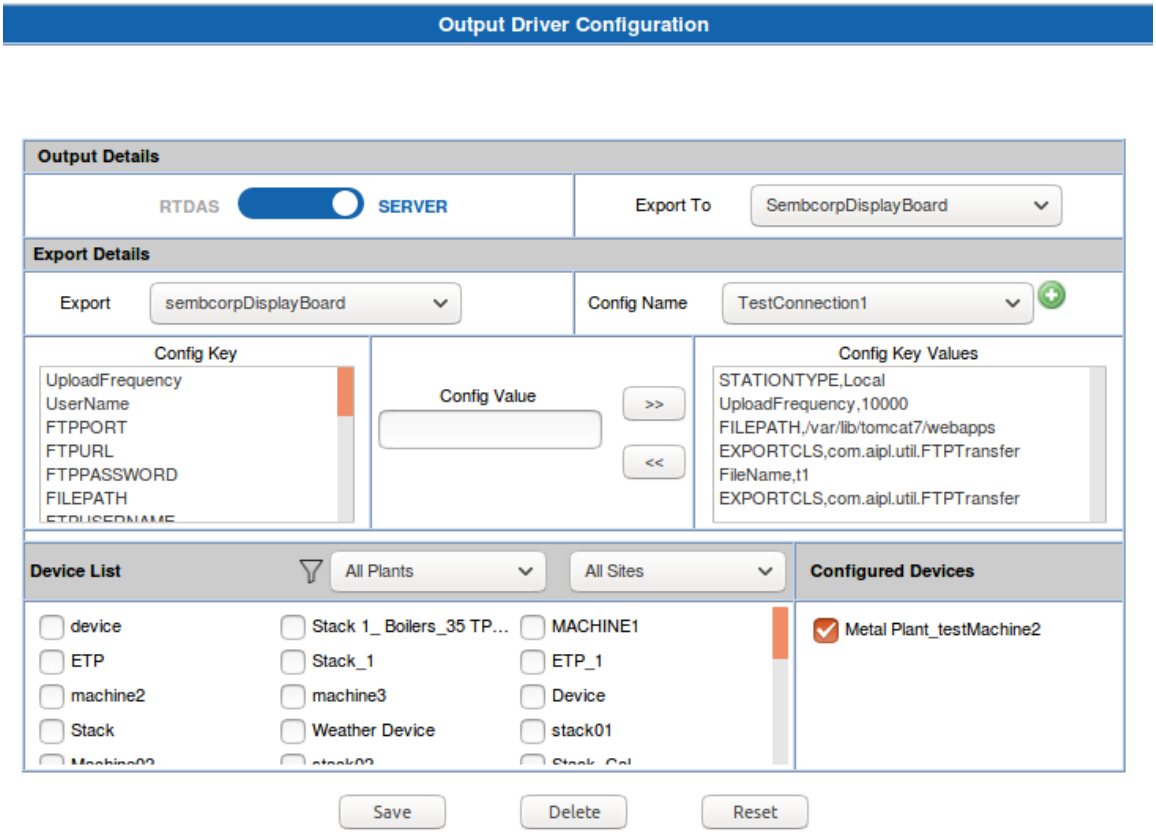
Configuration details:

Note- For SembcorpDisplayBoard version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button 'Server', then in 'Export To' and 'Export' fields select respective OutputDriver Name, then add/select 'Config Name' field and configure the output Driver keys.



3. Then select Device from 'Device List', for which this configuration is to done.4.

Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to sembcorp server. It's unit is milliseconds.

UserName –admin

FTPPORT – Port number for FTP connection.

FTPURL – FTP Server Path to upload the output file.

FTPUSERNAME – FTP Server User Name.

FTPPASSWORD – FTP Server Password.

FILENAME – Name of file to be created.

FILEPATH – Folder path where the output file is to generated.

STATIONTYPE – Always use Central.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

3.20.5. Configuration for older design

Refer 3.25 Old Configuration

3.20.6. Sample Configuration

Sample OutputDriverConfiguration.ini as per new design

UploadFrequency=60000

UserName=admin

FTPPORT=8080

FTPURL=http://10.6.10.97/sembcorp

FTPUSERNAME=admin

FTPPASSWORD=admin

FILEPATH=C:/sembcorp

STATIONTYPE= Central

EXPORTCLS=com.aipl.util.FTPTransfer (Do not change this)

3.20.7. File Format

SempCorpDisplay file format:
fileformat.txt

Data obtained will be as
Devicename-Deviceid, dd/mm/yyyy hhmmss, variable values

e.g CEMS-1,01/02/2019 15:25:00 PM,0.00,0.00,0.00
CEMS-2,01/02/2019 15:25:00 PM,203.0,734.0,36.2
ETP-3,01/02/2019 15:25:00 PM,8.10,33.00,13

3.21 SerialDataDisplay Output driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency>, <Parity>, <StopBits>, <DataBits>, <Baudrate>, <PortName> ,<FILEPATH>, <EXPORTCLS> .

3.21.1. Driver Available for Solution

EnviroConnect

3.21.2. Description

This driver is used for sending emission data to the display board.

3.21.3. Pre-Requisites

1. Make sure to execute SerialDataDisplay.sql file

3.21.4. Configuration for new design

Steps to configure SerialDataDisplay as per new design:

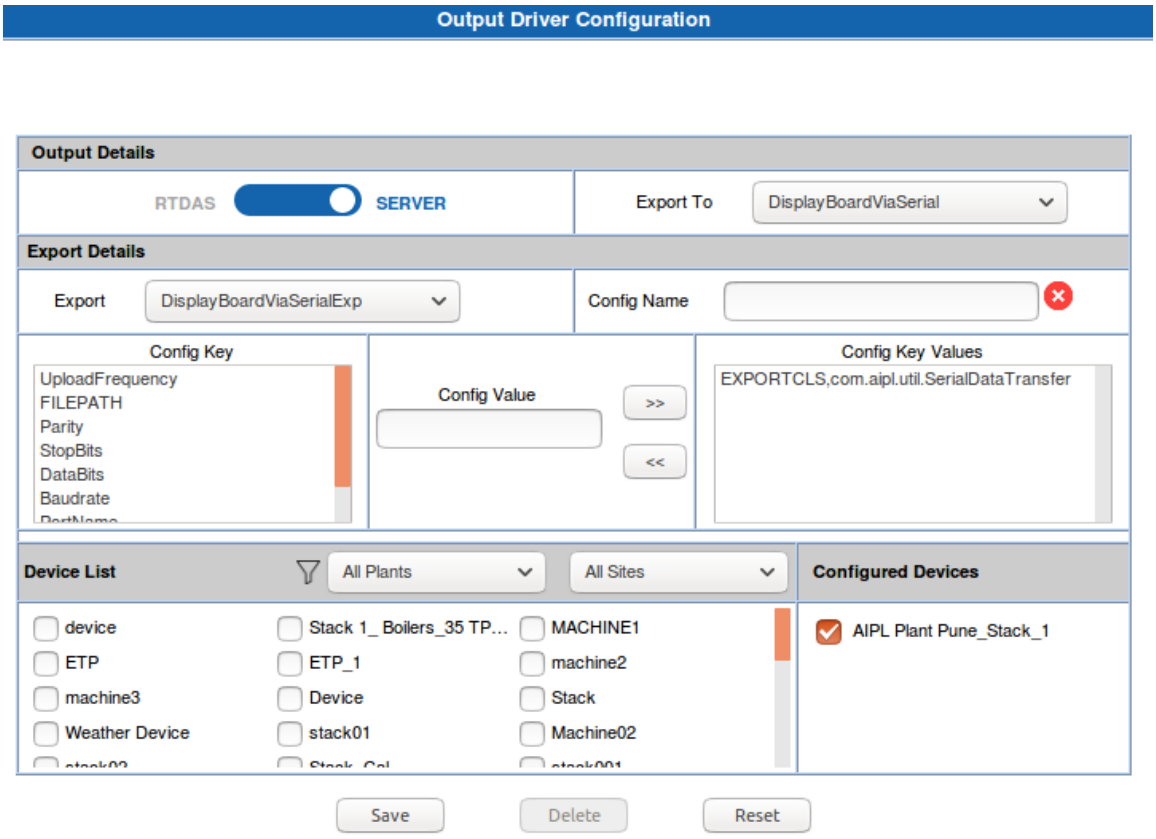
Configuration details:

Note- For CpcbFTPOutputPatch version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button 'Server', then in 'Export To' and 'Export' fields select respective OutputDriver Name, then add/select 'Config Name(DisplayBoardViaSerial)' field and configure the output Driver keys.



3. Then select Device from 'Device List', for which this configuration is to done. 4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to CPCB server. It's unit is milliseconds.

Parity –no of bits with value. None = 0 Even = 2 Odd = 1.

StopBits – sent with the data but not part of the data.

DataBits – No of bits used to represent one character of data.

Baudrate – No of times/sec a signal changes state.

PortName – com port COM1 to COM10.

FILEPATH – Folder path where the output file is generate.

EXPORTCLS – FTP export class and this should be as com.aipl.util.SerialDataTransfer

3.21.5. Configuration for older design

Refer 3.25 Old Configuration

3.21.6. Sample Configuration

Sample OutputDriverConfiguration as per new design

UploadFrequency=60000

Parity=0

StopBits=1

DataBits=8

Baudrate=9600

PortName=admin

FILEPATH=C:/serialdata

EXPORTCLS=com.aipl.util.SerialDataTransfer(Do not change this)

3.22 SunDisplayBoard Output driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency> and <FILEPATH>.

3.22.1. Driver Available for Solution

EnviroConnect

3.22.2. Description

To read data from all devices under one plant in specific frequency and create .txt file for Display board.

3.22.3. Pre-Requisites

1. Make sure to execute SunDisplayBoard.sql file

3.22.4. Configuration for new design

Steps to configure SunDisplayBoard as per new design:

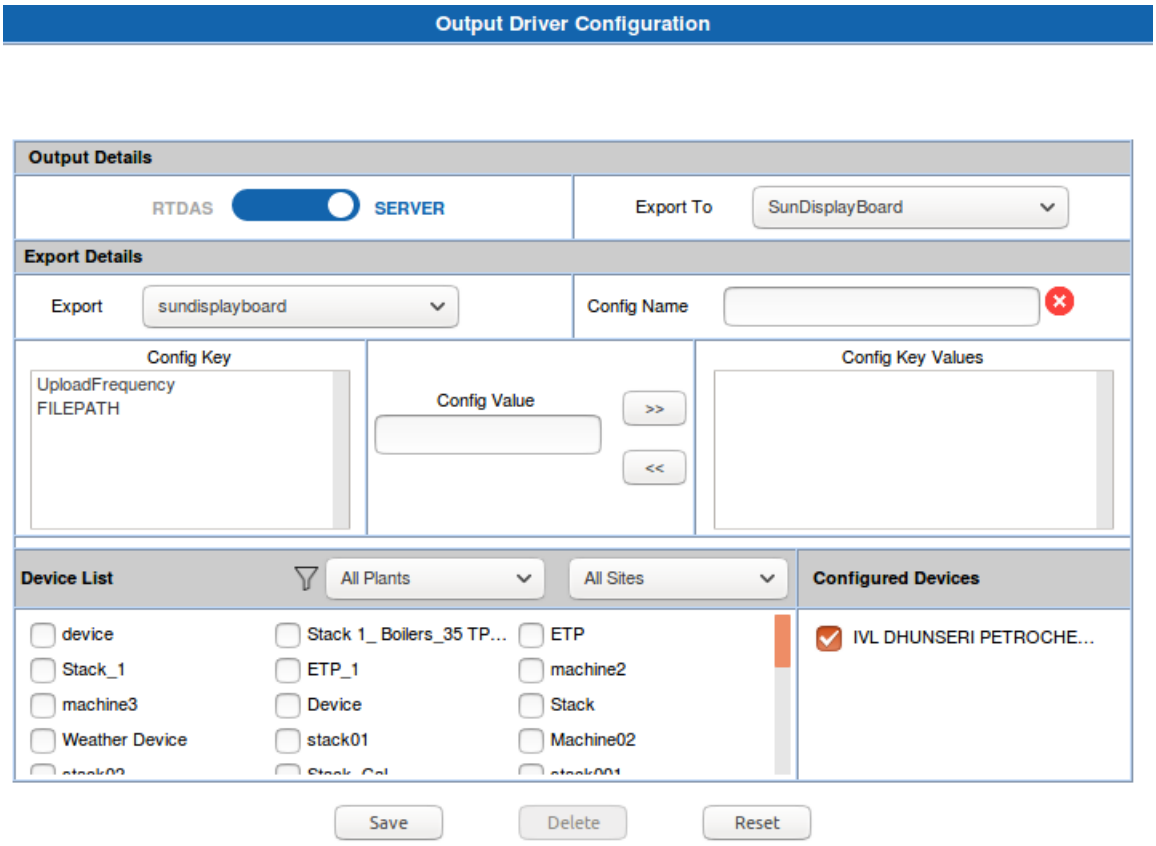
Configuration details:

Note- For SunDisplayBoard version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from ‘Device List’, for which this configuration is to done. 4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to server. It’s unit is milliseconds.

FILEPATH – Folder path where the output file is generate.

3.22.5. Configuration for older design

Refer <u>3.25 Old Configuration</u>

3.22.6. Sample Configuration

Sample OutputDriverConfiguration as per new design

UploadFrequency=60000

FILEPATH=C:/sundisplay

Note:
Driver will create Display.txt file at path specified in FILEPATH. It will overwrite file for each new data.

3.22.7. File Format

SunDisplayBoard file format:

Display.txt

SunDisplayBoard file data format:

Data: 1, MM/dd/yyyy hh:mm:00 PM,<parameter1 value>,<parameter2 value>, ...

3.23 DisplayBoardViaEthernet(ThermoDisplay)

Output driver Configuration

NOTE- Before starting configuration of this Output Driver, get the Pre-deployment.

This pre-deployment checklist has <UploadFrequency> and <FILEPATH>.

3.23.1. Driver Available for Solution

EnviroConnect

3.23.2. Description

This driver is used for sending emission data to the display board.

3.23.3. Pre-Requisites

1. Make sure to execute ThermoDisplay.sql file

3.23.4. Configuration for new design

Steps to configure DisplayBoardViaEthernet as per new design:

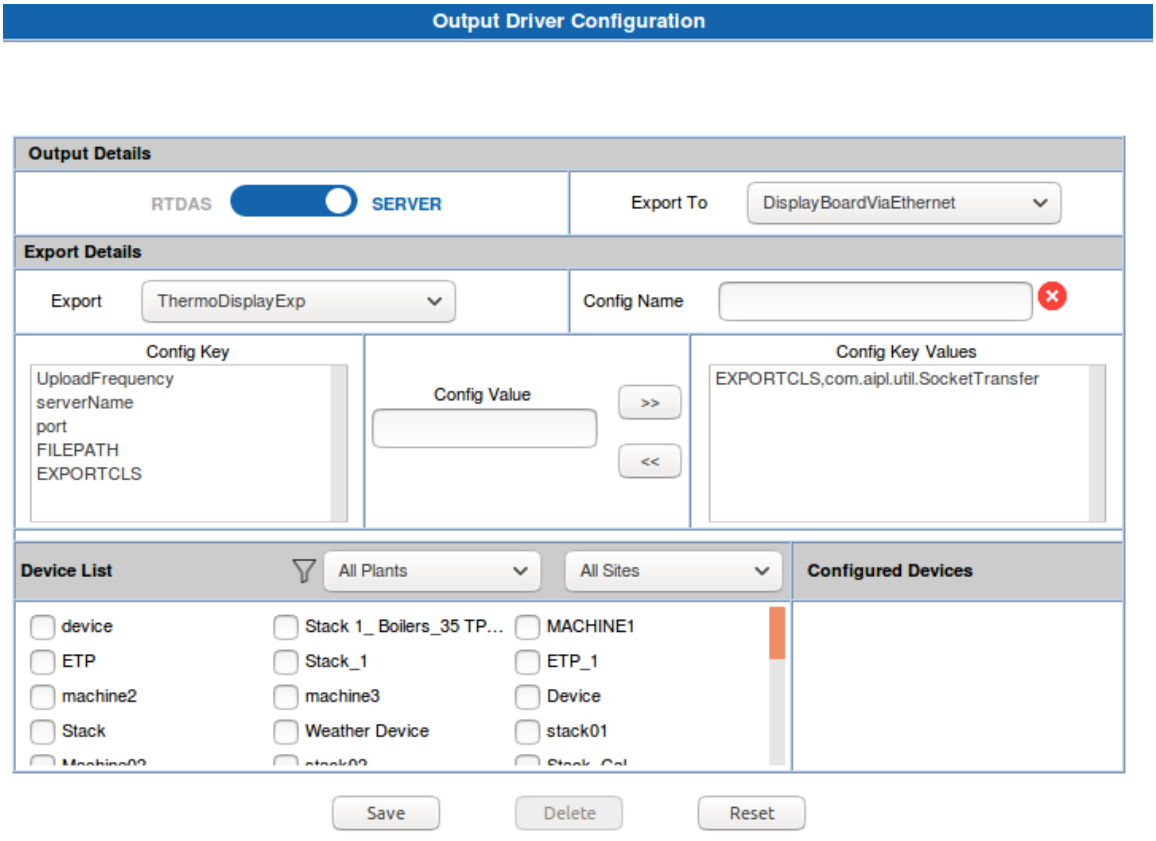
Configuration details:

Note- For DisplayBoardViaEthernet version EnviroConnect 6.4. Patch 10

Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button 'Server', then in 'Export To' and 'Export' fields select respective OutputDriver Name, then add/select 'Config Name(DisplayBoardViaEthernet)' field and configure the output Driver keys.



3. Then select Device from 'Device List', for which this configuration is to done. 4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to server. It's unit is milliseconds.

serverName – Machine name/IP address of Server

port – Communication port on server.

FILEPATH – Folder path where the output file is generate.

EXPORTCLS – FTP export class(Do not change) , com.aipl.util.SocketTransfer

3.23.5. Configuration for older design

Refer 3.25 Old Configuration

3.23.6. Sample Configuration

Sample OutputDriverConfiguration as per new design

UploadFrequency=60000

FILEPATH=C:/sundisplay

serverName=Machine name/IP address of Server

port=Communication port on server.

FILEPATH=C:/File

EXPORTCLS=com.aipl.util.SocketTransfer(Do not change)

3.23.7. File Format

DisplayBoardViaEthernet file format:

Industry Name_Device Name_Device Id_dd/mm/yyyy hhmmss
e.g aarti_Gas Analyser_2908_08082019153812.txt

DisplayBoardViaEthernet file data format:

e.g DeviceName~Variable Name~ Variable Id~ Variable Type ~ Variable Unit

Time Stamp
Gas Analyser~SO2~1~a~mg/Nm3~G_SO2,Gas Analyser~CO~1~a~mg/Nm3~G_CO
2019-08-08 14:58:00,0.0,0.0

3.24 WBPCB Output driver Configuration

NOTE- Before starting actual configuration of this Output Driver

This pre-deployment checklist has

This pre-deployment checklist has <UploadFrequency>, <FTPURL>,

<FTPUSERNAME>, <ParameterList>, <VarList>, <StationId>, <FTPPASSWORD>,

<FILEPATH>, <EXPORTCLS> . Among the above <ParameterList>, <VarList>,

<StationId> are at device level configuration

3.24.1. Driver Available for Solution

EnviroConnect

3.24.2. Description

To read data from all devices under one plant in specific frequency and send it to West-Bengal server.

3.24.3. Pre-Requisites

1. Make sure to execute WBPCBOutputPatch.sql file

3.24.4. Configuration for new design

Steps to configure WBPCBOutput as per new design:

Configuration details:

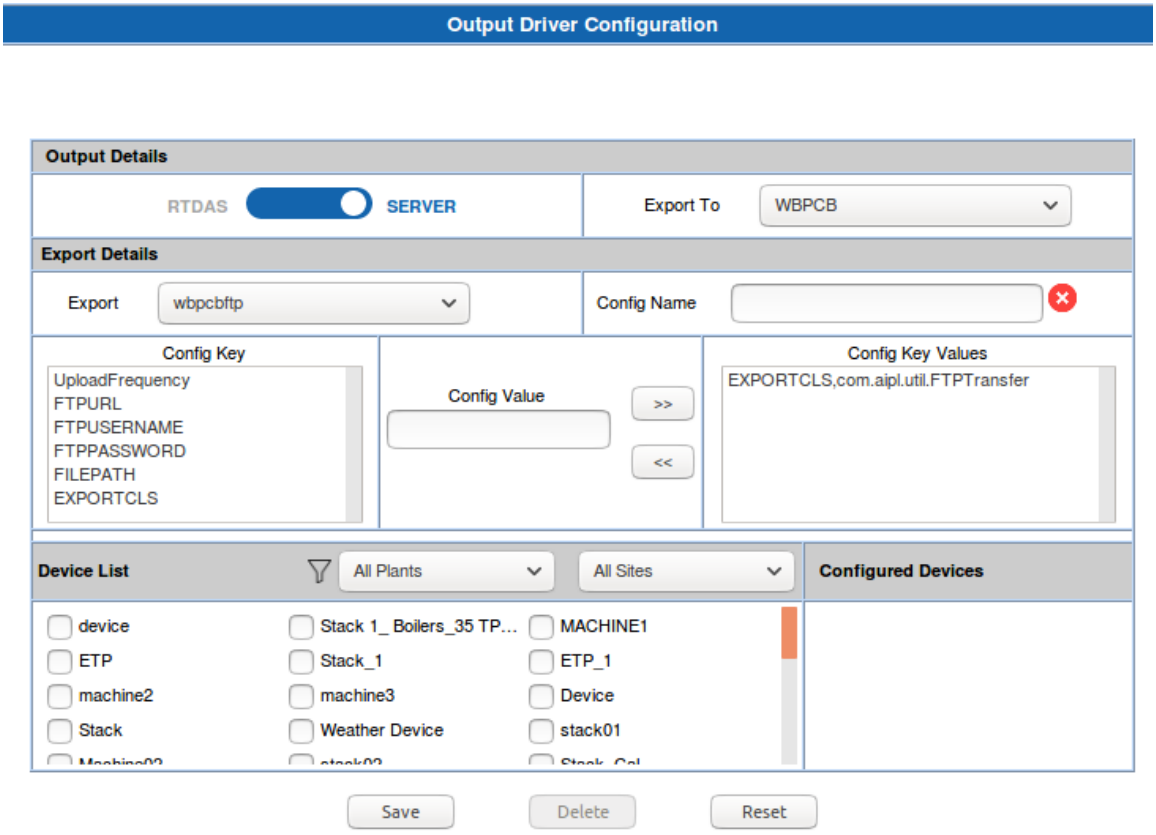
Note- For WBPCBOutput version 6.4. Patch 10

OutputDriver configuration for this is to be done from the **Enviroconnect** which is available in **version 6.4 Patch 10**

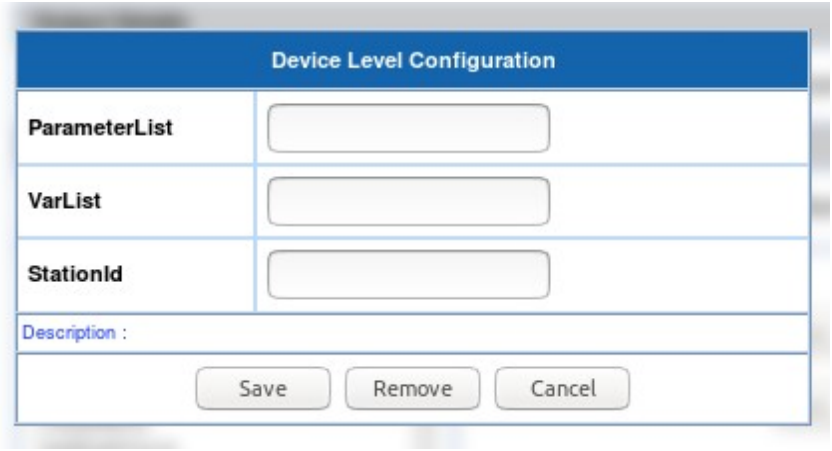
Configure Output Drivers on server

1. For this, Login to your server→Go to Site Admin→Output Driver→Output Driver Configuration. Refer below screenshot.

2. Select from toggle button ‘Server’, then in ‘Export To’ and ‘Export’ fields select respective OutputDriver Name, then add/select ‘Config Name’ field and configure the output Driver keys.



3. Then select Device from ‘Device List’, for which this configuration is done. Refer below screen-shot.



4. Following is the description for the keys (Output Driver Level)

UploadFrequency – It is the frequency with which data should be uploaded to WBPCB server. It's unit is milliseconds.

FTPURL – FTP Server Path to upload the output file.

FTPUSERNAME – FTP Server User Name.

FTPPASSWORD – FTP Server Password.

FILEPATH – Folder path where the output file is generate.

EXPORTCLS – FTP export class and this should be as com.aipl.util.FTPTransfer

5. Following is the description for the keys (Device Level Configuration)

ParameterList – We provide list of all configured variables separated by ~. e.g pH~TSS

VarList – We provide list of all configured variables separated by ~. e.g pH~TSS

StationId – Provide StationId as configured by WBPCB

3.24.5. Configuration for older design

Refer <u>3.25 Old Configuration</u>

3.24.6. Sample Configuration

Sample OutputDriverConfiguration.ini as per new design

UploadFrequency=60000

FTPURL=http://10.6.10.97/wbpcb

FTPUSERNAME=admin

FTPPASSWORD=admin

FILEPATH=C:/wbpcb

EXPORTCLS=com.aipl.util.FTPTransfer (Do not change this)

ParameterList=pH~TSS

VarList=NO~CO2~CO~SO2

StationId=2357

3.24.7. File Format

WBPCB.properties file format:

File name is in the format of "(StackID)_day_month_year_hour_minute.csv", where StackId is received from exportprofileconfig.configKey for it is "StationId~<deviceId>

WBPCB file data format:

It reads only gas type of variables and format of data is as follows.

;"Particulate Matter"---------- ;"mg/m3"---------- 16/12/10 00:15;16.37 ---------- 16/12/10 00:30;19----------	FIRST LINE; PARAMETER DEFINITION SECOND LINE; UNIT OF EXPRESSION THIRD LINE dd/mm/yy hh:mm;value FOURTH LINE dd/mm/yy hh:mm;value

16/12/10 FIFTH LINE dd/mm/yy hh:mm;value
00:45;17.4----------
16/12/10 SIXTH LINE dd/mm/yy hh:mm;value
01:00;17.13----------

There should be always new file is created after 60 minutes containing data of previous 60 minutes in specific folder. It contains 15 minutes average data (4 records in 60 minutes). After 60 minutes all files should gets processed. And if file get processed this file gets copied into backup folder.
One more key is added in exportprofileconfig for selecting gas type of variable/s among all gas type variables. Parameter name is "ParameterList~<deviceId>" which contains gas type of variables separated by delimiter "~". only these variable's values will be logged into file.
For Devices with same StationId , one common file will be created and data will be dumped into that file for those device.

3.24.8. Final Checklist

1. Make sure WBPCB.properties file is present in 'conf' folder of enviroconect.

2.Key is added in exportprofileconfig for selecting gas type of variable/s among all gas type variables. Parameter name is "ParameterList~<deviceId>" which contains gas type of variables separated by delimiter "~". only these variable's values will be logged into file.

3.25 Old Configuration

3.25.1. Steps to follow

1. Make sure to execute the respective sql patch.
2. For next configuration →Go to Site Admin →Output Driver →Output Driver Configuration.
3. Provide the configuration as provided in the respective Output Driver as shown in **Configure Output Drivers on server, Step 2** of the respective output drivers**.**
4. For providing the Device Level's Configuration, Go to Device → Metadata → Add.
5. Here provide the only required details, the required details are only those which have been provided in the section **Configure Output Drivers on server, Step 3** of the respective output drivers.

Note:
Device's MetaData for every output driver is not mandatory.
To verify device's metadata configuration is mandatory or not, in the respective section **Configure Output Drivers on server, Step 3,**
If there are screen-shots provided then MetaData mandatory.