



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 APPCBOuputPatch.sql file

3.1.4. Configuration for new design

Steps to configure APPCBOuputPatch as per new design:

Note- For APPCBOuputPatch 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.

Output Driver Configuration

Output Details

RTDASSERVER

Export To: Data to APPCB

Export Details

Export: Data to APPCB

Config Name: appcbtestconfig1

Config Key
 FILEPATH
 POLLUTIONTYPE
 INDUSTRYCODE
 DISTICTCODE
 UploadFrequency

Config Value

>>
<<

Config Key Values
 FILEPATH,/var/lib/tomcat7/webapps/APPKB1
 POLLUTIONTYPE,air
 UploadFrequency,60000
 INDUSTRYCODE,1
 DISTICTCODE,1

Device List

⌵
All Plants
⌵
All Sites

Configured Devices

device
 ETP
 machine2
 Stack
 Machine02

Stack 1_ Boilers_35 TP...
 Stack_1
 machine3
 Weather Device
 stack02

MACHINE1
 ETP_1
 Device
 stack01
 Stack_Cal

Metal Plant_testMachine2

Save
Delete
Reset

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

Device Level Configuration

StationId

Description :

Save
Remove
Cancel

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.

Output Driver Configuration

Output Details

RTDAS SERVER
Export To: APPCBGlens

Export Details

Export: appcbglens
Config Name: config

Config Key

- UploadFrequency
- SERVER_URL
- SITE_ID
- SITE_KEY
- SITE_UID
- ARCHIVEDIRECTORY
- PROXYHOST

Config Value

>>
<<

Config Key Values

```
SERVER_URL,http://aprtcms.ap.gov.in/APPCB
UploadFrequency,60000
SITE_UID,site_1355
SITE_KEY,c2l0ZV8xMzU1LHZZcl8yLjA=#####
SITE_ID,site_1355
DELETEFILE,1
```

Device List

All Plants
All Sites
Configured Devices

- GCEM 4080 Unit - 1
- GCEM 4080 Unit - 2
- GCEM 4080 Unit - 3
- Stack 1_15TPH Boiler ...
- Stack_2_Dryer
- BoilerStack1
- ETP1
- Stack 1-4TPH
- Stack 2- 6 TPH
- ETP 1
- SBU1_Unit1
- SBU1_Unit2
- SBU1_Unit1
- SBU1_Unit2
- DISTILLERY STACK

- 03 MLD Sewage Treatment P...

Save
Delete
Reset

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



- 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/appebglens>
 - 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
- 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.

Output Driver Configuration

| Output Details | | | |
|---|--|--|---|
| RTDAS <input type="checkbox"/> SERVER <input checked="" type="checkbox"/> | Export To: CETP | | |
| Export Details | | | |
| Export: cetp | Config Name: ✖ | | |
| Config Key <div style="border: 1px solid #ccc; padding: 2px;"> UploadFrequency UID HTTPUrl ENCRYPTIONKEY </div> | Config Value <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;"> </div> <div style="text-align: center;"> >> << </div> | Config Key Values <div style="border: 1px solid #ccc; padding: 2px;"> ENCRYPTIONKEY,c210ZV8zMTQ4LHZic18yLjM- HTTPUrl,http://www.tepscetp.in/alien_hit.php UploadFrequency,60000 UID,36 </div> | |
| Description : UID as per CETP Configuraton(Given by customer) | | | |
| Device List | <input type="button" value="All Plants"/> | <input type="button" value="All Sites"/> | Configured Devices |
| <input type="checkbox"/> GCEM 4080 Unit - 1 <input type="checkbox"/> Stack 1_15TPH Boiler ... <input type="checkbox"/> ETP1 <input type="checkbox"/> ETP 1 <input type="checkbox"/> SBU1_1534 | <input type="checkbox"/> GCEM 4080 Unit - 2 <input type="checkbox"/> Stack_2_Dryer <input type="checkbox"/> Stack 1-4TPH <input type="checkbox"/> SBU1_Unit1 <input type="checkbox"/> SBU1_1534 | <input type="checkbox"/> GCEM 4080 Unit - 3 <input type="checkbox"/> BoilerStack1 <input type="checkbox"/> Stack 2- 6 TPH <input type="checkbox"/> SBU1_Unit2 <input type="checkbox"/> DISTILLERY STACK | <div style="border: 1px solid #ccc; height: 100px; width: 100%;"></div> |
| <input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Reset"/> | | | |

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

Device Level Configuration

| | |
|---|--|
| Headers | <input style="width: 80%;" type="text"/> |
| Masterids | <input style="width: 80%;" type="text"/> |
| Description : | |
| <input type="button" value="Save"/> <input type="button" value="Remove"/> <input type="button" value="Cancel"/> | |

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=c210ZV8zMTQ4LHZlc18yLjM=#####

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.

- 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

Output Details

RTDASSERVER

Export To: cgpcb ▼

Export Details

Export: cgpcbftp ▼

Config Name: ✖

Config Key

- UploadFrequency
- UserName
- FTPSPORT
- FTPURL
- FTPPASSWORD
- FILEPATH
- FTPUSERNAME

Config Value

>>
<<

Config Key Values

EXPORTCLS,com.aipl.util.FTPTransfer

Device List

⌵ All Plants
⌵ All Sites
Configured Devices

| | | |
|------------------------------------|--|------------------------------------|
| <input type="checkbox"/> device | <input type="checkbox"/> Stack 1_ Boilers_35 TP... | <input type="checkbox"/> MACHINE1 |
| <input type="checkbox"/> ETP | <input type="checkbox"/> Stack_1 | <input type="checkbox"/> ETP_1 |
| <input type="checkbox"/> machine2 | <input type="checkbox"/> machine3 | <input type="checkbox"/> Device |
| <input type="checkbox"/> Stack | <input type="checkbox"/> Weather Device | <input type="checkbox"/> stack01 |
| <input type="checkbox"/> Machine02 | <input type="checkbox"/> stack02 | <input type="checkbox"/> Stack_Cal |

Save
Delete
Reset

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

- 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.

FTPSPORT – 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.

- 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

Output Details

RTDAS SERVER

Export To: CpcbFTPOutput

Export Details

Export: cpcbftpoutputftp

Config Name: FTP

Config Key

- UploadFrequency
- UserName
- FTPSPORT
- FTPURL
- FTPPASSWORD
- FILEPATH
- FTPUSERNAME

Config Value

>>
<<

Config Key Values

```
FILEPATH,var/lib/omcat7/webapps
EXPORTCLS,com.aipl.util.FTPTransfer
UploadFrequency,60000
FILENAME,ftp
```

Device List

⌵ All Plants

⌵ All Sites

Configured Devices

| | | |
|------------------------------------|--|-----------------------------------|
| <input type="checkbox"/> device | <input type="checkbox"/> Stack 1_ Boilers_35 TP... | <input type="checkbox"/> MACHINE1 |
| <input type="checkbox"/> ETP | <input type="checkbox"/> Stack_1 | <input type="checkbox"/> ETP_1 |
| <input type="checkbox"/> machine2 | <input type="checkbox"/> machine3 | <input type="checkbox"/> Device |
| <input type="checkbox"/> Stack | <input type="checkbox"/> Weather Device | <input type="checkbox"/> stack01 |
| <input type="checkbox"/> Machine00 | <input type="checkbox"/> stack00 | <input type="checkbox"/> Stack_00 |

Save
Delete
Reset

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

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

FTPSPORT – 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 hhmms
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.

Output Driver Configuration

Output Details

RTDASSERVER

Export To: DataToCentralStation ▼

Export Details

Export: centralftp ▼

Config Name: ✖

Config Key

- UploadFrequency
- UserName
- FTPPORT
- FTPURL
- FTPPASSWORD
- FILEPATH
- FTPUSERNAME

Config Value

>>
<<

Config Key Values

EXPORTCLS,com.aipl.util.FTPTransfer

Device List

All Plants ▼
All Sites ▼
Configured Devices

| | | |
|------------------------------------|--|------------------------------------|
| <input type="checkbox"/> device | <input type="checkbox"/> Stack 1_ Boilers_35 TP... | <input type="checkbox"/> MACHINE1 |
| <input type="checkbox"/> ETP | <input type="checkbox"/> Stack_1 | <input type="checkbox"/> ETP_1 |
| <input type="checkbox"/> machine2 | <input type="checkbox"/> machine3 | <input type="checkbox"/> Device |
| <input type="checkbox"/> Stack | <input type="checkbox"/> Weather Device | <input type="checkbox"/> stack01 |
| <input type="checkbox"/> Machine02 | <input type="checkbox"/> stack02 | <input type="checkbox"/> Stack Col |

Save

Delete

Reset

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(ddmmyyyhhmmss)

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

Output Details

RTDASSERVER

Export To: FMCustomDisplay ▼

Export Details

Export: fmcustomdisplay ▼

Config Name: FMTTestConfig1 ▼ +

Config Key

- UploadFrequency
- VarList
- DataInterval
- FileName
- FilePath
- HeaderName
- DataReset

Config Value

>>
<<

Config Key Values

- UploadFrequency,10000
- VarList,O2-NOx
- DataInterval,1
- FileName,FMDData
- FilePath,/var/lib/tomcat7/webapps/ENVBuild
- HeaderName,ABCD
- DataReset,1

Device List

▼
All Plants
▼
All Sites

Configured Devices

| | | |
|------------------------------------|------------------------------------|---|
| <input type="checkbox"/> device | <input type="checkbox"/> MACHINE1 | <input type="checkbox"/> ETP |
| <input type="checkbox"/> Stack_1 | <input type="checkbox"/> machine2 | <input type="checkbox"/> machine3 |
| <input type="checkbox"/> Device | <input type="checkbox"/> Stack | <input type="checkbox"/> Weather Device |
| <input type="checkbox"/> stack01 | <input type="checkbox"/> Machine02 | <input type="checkbox"/> stack02 |
| <input type="checkbox"/> Stack_Col | <input type="checkbox"/> stack001 | <input type="checkbox"/> machine002 |

- Metal Plant_testMachine2
- AIPL Plant Pune_Stack 1_B...
- AIPL Plant Pune_ETP_1

Save

Delete

Reset

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.

Output Driver Configuration

| | | |
|--|--|---|
| Output Details | | |
| RTDAS <input checked="" type="checkbox"/> SERVER | Export To: gpcb | |
| Export Details | | |
| Export: gpcbftp | Config Name: ✖ | |
| Config Key STATECODE PCBIT FILEPATH EXPORTCLS FILENAME UploadFrequency | Config Value <input style="width: 80%;" type="text"/> | Config Key Values STATECODE,GJ PCBIT,21795 FILEPATH,c:/XGN EXPORTCLS,com.aipl.util.FTPTransfer FILENAME,xgn_coms |
| Device List | | |
| All Plants ▼ All Sites ▼ | | |
| <input type="checkbox"/> device <input type="checkbox"/> ETP <input type="checkbox"/> machine2 <input type="checkbox"/> Stack <input type="checkbox"/> Machine02 | <input type="checkbox"/> Stack 1_ Boilers_35 TP... <input type="checkbox"/> Stack_1 <input type="checkbox"/> machine3 <input type="checkbox"/> Weather Device <input type="checkbox"/> stack02 | <input type="checkbox"/> MACHINE1 <input type="checkbox"/> ETP_1 <input type="checkbox"/> Device <input type="checkbox"/> stack01 <input type="checkbox"/> Stack_01 |
| <input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Reset"/> | | |

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

Device Level Configuration

| | |
|---|--|
| StationId | |
| Description : | |
| | |
| <input type="button" value="Save"/> <input type="button" value="Remove"/> <input type="button" value="Cancel"/> | |

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> , <DELETEDFILE> ,<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.

Output Driver Configuration

| Output Details | | |
|--|--|--|
| RTDAS <input checked="" type="checkbox"/> SERVER | Export To: GSPCBGlens | |
| Export Details | | |
| Export: gspcbglens | Config Name: gspcbGlensConf1 | |
| Config Key UploadFrequency SERVER_URL SITE_ID SITE_KEY SITE_UID ARCHIVEDIRECTORY TIMESYNC | Config Value <input type="text"/> >> << | Config Key Values SITE_ID,1 TIMESYNC,1 ARCHIVEDIRECTORY, SERVER_URL,localhost:8080/enviroconnect SITE_KEY,a SITE_UID,1 DELETEFILE,1 |
| Device List | | Configured Devices |
| All Plants All Sites | | |
| <input type="checkbox"/> device <input type="checkbox"/> ETP <input type="checkbox"/> machine2 <input type="checkbox"/> Stack <input type="checkbox"/> Machine02 | <input type="checkbox"/> Stack 1_ Boilers_35 TP... <input type="checkbox"/> Stack_1 <input type="checkbox"/> machine3 <input type="checkbox"/> Weather Device <input type="checkbox"/> stack02 | <input type="checkbox"/> MACHINE1 <input type="checkbox"/> ETP_1 <input type="checkbox"/> Device <input type="checkbox"/> stack01 <input type="checkbox"/> Stack_Col |
| | | <input checked="" type="checkbox"/> Metal Plant_testMachine2 |
| <input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Reset"/> | | |

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

Refer below screen-shot.

| Device Level Configuration | |
|---|----------------------|
| Headers | <input type="text"/> |
| ANALYZERID | <input type="text"/> |
| StationId | <input type="text"/> |
| Description : | |
| <input type="button" value="Save"/> <input type="button" value="Remove"/> <input type="button" value="Cancel"/> | |

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/GPCBGlens>

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

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

SITE_UID - It is the site unique identification number, which is as per GPCBGlens 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 GPCBGlens 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 separated 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

DELETEDFILE= 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.

Output Driver Configuration

Output Details

RTDAS SERVER

Export To: HSPCB

Export Details

Export: hspcb

Config Name:

Config Key
 SERVER_URL
 UploadFrequency

Config Value

Config Key Values

>>
<<

Device List

▼ All Plants

▼ All Sites

Configured Devices

| | | |
|------------------------------------|--|------------------------------------|
| <input type="checkbox"/> device | <input type="checkbox"/> Stack 1_ Boilers_35 TP... | <input type="checkbox"/> MACHINE1 |
| <input type="checkbox"/> ETP | <input type="checkbox"/> Stack_1 | <input type="checkbox"/> ETP_1 |
| <input type="checkbox"/> machine2 | <input type="checkbox"/> machine3 | <input type="checkbox"/> Device |
| <input type="checkbox"/> Stack | <input type="checkbox"/> Weather Device | <input type="checkbox"/> stack01 |
| <input type="checkbox"/> Machine02 | <input type="checkbox"/> stack02 | <input type="checkbox"/> Stack_Col |

Save
Delete
Reset

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

Device Level Configuration

| | |
|--|--|
| StationId | <input style="width: 80%;" type="text"/> |
| IndustryId | <input style="width: 80%;" type="text"/> |
| DeviceId | <input style="width: 80%;" type="text"/> |
| Headers | <input style="width: 80%;" type="text"/> |
| Description : | |
| Save Remove Cancel | |

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 separated 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 JSPCBOOutputPatch.sql file

3.11.4. Configuration for new design

Steps to configure JSPCBOOutput as per new design:

Configuration details:

Note- For JSPCBOOutput 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.

Output Driver Configuration

| Output Details | | | | | | | |
|---|---------------------------|---|-------------------|---|----------------------|---|--|
| RTDAS <input checked="" type="radio"/> SERVER | Export To JSPCB | | | | | | |
| Export Details | | | | | | | |
| Export jspcbftp | Config Name jspcbMadhura1 | | | | | | |
| <table border="1"> <tr> <th>Config Key</th> <th>Config Value</th> <th>Config Key Values</th> </tr> <tr> <td>DUMMY FTPUSERNAME FILEPATH FTPPASSWORD UploadFrequency EXPORTCLS ETPURL</td> <td><input type="text"/></td> <td>FILEPATH,/var/lib/tomcat7/testConfig EXPORTCLS,com.aipl.util.FTPTransfer DUMMY,1 UploadFrequency,10000 FTPPASSWORD,admin FTPUSERNAME,admin</td> </tr> </table> | Config Key | Config Value | Config Key Values | DUMMY FTPUSERNAME FILEPATH FTPPASSWORD UploadFrequency EXPORTCLS ETPURL | <input type="text"/> | FILEPATH,/var/lib/tomcat7/testConfig EXPORTCLS,com.aipl.util.FTPTransfer DUMMY,1 UploadFrequency,10000 FTPPASSWORD,admin FTPUSERNAME,admin | |
| Config Key | Config Value | Config Key Values | | | | | |
| DUMMY FTPUSERNAME FILEPATH FTPPASSWORD UploadFrequency EXPORTCLS ETPURL | <input type="text"/> | FILEPATH,/var/lib/tomcat7/testConfig EXPORTCLS,com.aipl.util.FTPTransfer DUMMY,1 UploadFrequency,10000 FTPPASSWORD,admin FTPUSERNAME,admin | | | | | |
| Device List | | | | | | | |
| <input type="checkbox"/> device <input type="checkbox"/> Stack 1_ Boilers_35 TP... <input type="checkbox"/> MACHINE1 <input type="checkbox"/> ETP <input type="checkbox"/> Stack_1 <input type="checkbox"/> ETP_1 <input type="checkbox"/> machine2 <input type="checkbox"/> machine3 <input type="checkbox"/> Device <input type="checkbox"/> Stack <input type="checkbox"/> Weather Device <input type="checkbox"/> stack01 <input type="checkbox"/> Machine02 <input type="checkbox"/> stack02 <input type="checkbox"/> Stack_01 | | | | | | | |
| Configured Devices | | | | | | | |
| <input checked="" type="checkbox"/> Metal Plant_testMachine2 | | | | | | | |
| <input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Reset"/> | | | | | | | |

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

| Device Level Configuration | |
|---|----------------------|
| Headers | <input type="text"/> |
| StationId | <input type="text"/> |
| Description : | |
| <input type="button" value="Save"/> <input type="button" value="Remove"/> <input type="button" value="Cancel"/> | |

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.

Output Driver Configuration

| | | |
|---|--|---|
| Output Details RTDAS <input checked="" type="radio"/> SERVER | | Export To: KPCB |
| Export Details Export: kpcbftp Config Name: TestConnection1 | | |
| Config Key FTPURL FTPPASSWORD FILEPATH FTPUSERNAME PLANTUNIQUEID EXPORTCLS UploadFrequency | Config Value <input type="text"/> | Config Key Values FTPURL/ FTPPASSWORD,a FILEPATH,/test/ FTPUSERNAME,a PLANTUNIQUEID,1 UploadFrequency,1000 |
| Device List | All Plants All Sites | Configured Devices |
| <input type="checkbox"/> device <input type="checkbox"/> ETP <input type="checkbox"/> machine3 <input type="checkbox"/> stack01 <input type="checkbox"/> stack001 | <input type="checkbox"/> Stack 1_ Boilers_35 TP... <input type="checkbox"/> Stack_1 <input type="checkbox"/> Device <input type="checkbox"/> Machine02 <input type="checkbox"/> machine002 | <input checked="" type="checkbox"/> MACHINE1 <input type="checkbox"/> machine2 <input type="checkbox"/> Weather Device <input type="checkbox"/> Stack_Cal <input type="checkbox"/> ETP1 |
| <input checked="" type="checkbox"/> AIPL Plant Pune_ETP_1 <input checked="" type="checkbox"/> IVL DHUNSERI PETROCHE... <input checked="" type="checkbox"/> iron plant_stack02 | | |
| <input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Reset"/> | | |

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

| Device Level Configuration | |
|---|----------------------|
| Uniqueld | <input type="text"/> |
| Header | <input type="text"/> |
| Description : | |
| <input type="button" value="Save"/> <input type="button" value="Remove"/> <input type="button" value="Cancel"/> | |

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_C
OM
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.

- 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

Output Details

RTDASSERVER

Export To: DataExportToEnVista

Export Details

Export: lsiftp

Config Name: DataToEnvistaConfig1

Config Key
 FTPPORT
 FTPURL
 FTPPASSWORD
 FILEPATH
 FTPUSERNAME
 STATIONTYPE
 EXPORTCLS

Config Value

>>
<<

Config Key Values
 FILEPATH,/var/lib/tomcat7/webapps/ENVBuild/D
 UploadFrequency,10000
 EXPORTCLS,com.aipl.util.FTPTransfer
 STATIONTYPE,Central

Device List

⌵

All Plants

⌵

⌵

All Sites

⌵

Configured Devices

device

Stack_1_Boilers_35 TP...

MACHINE1

Metal Plant_testMachine2

Save

Delete

Reset

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

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...

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.

Output Driver Configuration

| Output Details | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------------------------|-----------------------------------|--------------------------------|------------------------------------|---|--|----------------------------------|---|---|---|--|-----------------------------------|---|---------------------------------|----------------------------------|-----------------------------------|-------------------|------------------|---------------------|-------------------------------------|
| RTDAS <input checked="" type="checkbox"/> SERVER | Export To: LSIDisplayBoard | | | | | | | | | | | | | | | | | | | | |
| Export Details | | | | | | | | | | | | | | | | | | | | | |
| Export: lsidisplayboard | Config Name: <input style="width: 100%;" type="text"/> | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #e0e0e0;">Config Key</th> </tr> </thead> <tbody> <tr><td>UserName</td></tr> <tr><td>FTPPORT</td></tr> <tr><td>FTPURL</td></tr> <tr><td>FTPPASSWORD</td></tr> <tr><td>FILEPATH</td></tr> <tr><td>FTPUSERNAME</td></tr> <tr><td>STATIONTYPE</td></tr> </tbody> </table> | Config Key | UserName | FTPPORT | FTPURL | FTPPASSWORD | FILEPATH | FTPUSERNAME | STATIONTYPE | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #e0e0e0;">Config Value</th> </tr> </thead> <tbody> <tr><td style="height: 20px;"><input style="width: 100%;" type="text"/></td></tr> <tr><td style="text-align: center;">>></td></tr> <tr><td style="text-align: center;"><<</td></tr> </tbody> </table> | Config Value | <input style="width: 100%;" type="text"/> | >> | << | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #e0e0e0;">Config Key Values</th> </tr> </thead> <tbody> <tr><td>UserName,lsi</td></tr> <tr><td>FTPPORT,21</td></tr> <tr><td>FTPURL,10.6.10.36</td></tr> <tr><td>FILEPATH,c:/GPCB</td></tr> <tr><td>STATIONTYPE,Central</td></tr> <tr><td>EXPORTCLS,com.aipl.util.FTPTransfer</td></tr> </tbody> </table> | Config Key Values | UserName,lsi | FTPPORT,21 | FTPURL,10.6.10.36 | FILEPATH,c:/GPCB | STATIONTYPE,Central | EXPORTCLS,com.aipl.util.FTPTransfer |
| Config Key | | | | | | | | | | | | | | | | | | | | | |
| UserName | | | | | | | | | | | | | | | | | | | | | |
| FTPPORT | | | | | | | | | | | | | | | | | | | | | |
| FTPURL | | | | | | | | | | | | | | | | | | | | | |
| FTPPASSWORD | | | | | | | | | | | | | | | | | | | | | |
| FILEPATH | | | | | | | | | | | | | | | | | | | | | |
| FTPUSERNAME | | | | | | | | | | | | | | | | | | | | | |
| STATIONTYPE | | | | | | | | | | | | | | | | | | | | | |
| Config Value | | | | | | | | | | | | | | | | | | | | | |
| <input style="width: 100%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | |
| >> | | | | | | | | | | | | | | | | | | | | | |
| << | | | | | | | | | | | | | | | | | | | | | |
| Config Key Values | | | | | | | | | | | | | | | | | | | | | |
| UserName,lsi | | | | | | | | | | | | | | | | | | | | | |
| FTPPORT,21 | | | | | | | | | | | | | | | | | | | | | |
| FTPURL,10.6.10.36 | | | | | | | | | | | | | | | | | | | | | |
| FILEPATH,c:/GPCB | | | | | | | | | | | | | | | | | | | | | |
| STATIONTYPE,Central | | | | | | | | | | | | | | | | | | | | | |
| EXPORTCLS,com.aipl.util.FTPTransfer | | | | | | | | | | | | | | | | | | | | | |
| Device List | | Configured Devices | | | | | | | | | | | | | | | | | | | |
| All Plants All Sites | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td><input type="checkbox"/> device</td></tr> <tr><td><input type="checkbox"/> ETP</td></tr> <tr><td><input type="checkbox"/> machine2</td></tr> <tr><td><input type="checkbox"/> Stack</td></tr> <tr><td><input type="checkbox"/> Machine02</td></tr> </tbody> </table> | <input type="checkbox"/> device | <input type="checkbox"/> ETP | <input type="checkbox"/> machine2 | <input type="checkbox"/> Stack | <input type="checkbox"/> Machine02 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td><input type="checkbox"/> Stack 1_ Boilers_35 TP...</td></tr> <tr><td><input type="checkbox"/> Stack_1</td></tr> <tr><td><input type="checkbox"/> machine3</td></tr> <tr><td><input type="checkbox"/> Weather Device</td></tr> <tr><td><input type="checkbox"/> stack02</td></tr> </tbody> </table> | <input type="checkbox"/> Stack 1_ Boilers_35 TP... | <input type="checkbox"/> Stack_1 | <input type="checkbox"/> machine3 | <input type="checkbox"/> Weather Device | <input type="checkbox"/> stack02 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td><input type="checkbox"/> MACHINE1</td></tr> <tr><td><input type="checkbox"/> ETP_1</td></tr> <tr><td><input type="checkbox"/> Device</td></tr> <tr><td><input type="checkbox"/> stack01</td></tr> <tr><td><input type="checkbox"/> Stack_01</td></tr> </tbody> </table> | <input type="checkbox"/> MACHINE1 | <input type="checkbox"/> ETP_1 | <input type="checkbox"/> Device | <input type="checkbox"/> stack01 | <input type="checkbox"/> Stack_01 | | | | |
| <input type="checkbox"/> device | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> ETP | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> machine2 | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Stack | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Machine02 | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Stack 1_ Boilers_35 TP... | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Stack_1 | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> machine3 | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Weather Device | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> stack02 | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> MACHINE1 | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> ETP_1 | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Device | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> stack01 | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Stack_01 | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-around; margin-top: 10px;"> Save Delete Reset </div> | | | | | | | | | | | | | | | | | | | | | |

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.

Output Driver Configuration

| | | | | | |
|---|--|---|--|-----------|-----------|
| Output Details | | RTDAS <input checked="" type="radio"/> SERVER | | Export To | MPCBGlens |
| Export Details | | Export | | | |
| mpcbglens | | Config Name | | | |
| Config Key | Config Value | Config Key Values | | | |
| UploadFrequency SERVER_URL SITE_ID SITE_KEY SITE_UID ARCHIVEDIRECTORY PROXYHOST | <input type="text"/> | <input type="text"/> | | | |
| Device List | | All Plants | | All Sites | |
| <input type="checkbox"/> device | <input type="checkbox"/> Stack 1_ Boilers_35 TP... | <input type="checkbox"/> MACHINER1 | | | |
| <input type="checkbox"/> ETP | <input type="checkbox"/> Stack_1 | <input type="checkbox"/> ETP_1 | | | |
| <input type="checkbox"/> machine2 | <input type="checkbox"/> machine3 | <input type="checkbox"/> Device | | | |
| <input type="checkbox"/> Stack | <input type="checkbox"/> Weather Device | <input type="checkbox"/> stack01 | | | |
| <input type="checkbox"/> Machine02 | <input type="checkbox"/> stack02 | <input type="checkbox"/> Stack_Cal | | | |
| Save | | Delete | | Reset | |

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

Refer below screen-shot.

| Device Level Configuration | |
|----------------------------|----------------------|
| Headers | <input type="text"/> |
| StationId | <input type="text"/> |
| ANALYZERID | <input type="text"/> |
| Description : | |
| <input type="text"/> | |
| Save Remove Cancel | |

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 separated 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

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

Output Details

RTDAS **SERVER**

Export To:

Export Details

Export:

Config Name:

| Config Key | Config Value | Config Key Values |
|-----------------|--------------|-------------------------------------|
| UploadFrequency | | EXPORTCLS,com.aipl.util.FTPTransfer |
| UserName | | UploadFrequency,10000 |
| FTPSPORT | | UserName,admin |
| FTPURL | | FTPSPORT,8080 |
| FTPPASSWORD | | FTPPASSWORD,admin |
| FILEPATH | | FILEPATH,mpcbFile |
| ETOUSENAME | | FILENAME,testFile |

Device List

Configured Devices

| | | | |
|--|------------------------------------|------------------------------------|--|
| <input type="checkbox"/> Stack 1_ Boilers_35 TP... | <input type="checkbox"/> MACHINE1 | <input type="checkbox"/> ETP | <input checked="" type="checkbox"/> AIPL Plant Pune_device |
| <input type="checkbox"/> Stack_1 | <input type="checkbox"/> ETP_1 | <input type="checkbox"/> machine2 | <input checked="" type="checkbox"/> Metal Plant_testMachine2 |
| <input type="checkbox"/> machine3 | <input type="checkbox"/> Device | <input type="checkbox"/> Stack | |
| <input type="checkbox"/> Weather Device | <input type="checkbox"/> stack01 | <input type="checkbox"/> Machine02 | |
| <input type="checkbox"/> Stack02 | <input type="checkbox"/> Stack_Cal | <input type="checkbox"/> stack001 | |

- 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

FTPSPORT – 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

FTPSPORT=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

Output Details

RTDASSERVER

Export To: mpcbperdevice

Export Details

Export: mpcbperdeviceftp

Config Name: mpcbperDevice1 +

Config Key

- UploadFrequency
- UserName
- FTPSPORT
- FTPURL
- FTPPASSWORD
- FILEPATH
- FILENAME

Config Value

>>
<<

Config Key Values

```
FILENAME,mpcbperdevice
FILEPATH,/var/lib/tomcat7/webapps/
EXPORTCLS,com.aipl.util.FTPTransfer
UploadFrequency,10000
```

Device List

▼
All Plants

▼
All Sites

Configured Devices

- device
- Stack_1
- machine3
- Weather Device
- stack02

- MACHINE1
- ETP_1
- Device
- stack01
- Stack_Col

- ETP
- machine2
- Stack
- Machine02
- stack001

- Metal Plant_testMachine2
- AIPL Plant Pune_Stack 1_B...

Save

Delete

Reset

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

FTPSPORT – 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>, <FTPPURL>, <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.

- 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

Output Details

RTDAS

SERVER

Export To: ppcb

Export Details

Export: ppcbftp

Config Name: ✖

Config Key
 UploadFrequency
 UserName
 FTPPORT
 FTPURL
 FTPPASSWORD
 FILEPATH
 FTPUSERNAME

Config Value

>>
<<

Config Key Values
 EXPORTCLS,com.aipl.util.FTPTransfer

Device List

All Plants

 All Sites

| | | |
|------------------------------------|--|-----------------------------------|
| <input type="checkbox"/> device | <input type="checkbox"/> Stack 1_ Boilers_35 TP... | <input type="checkbox"/> MACHINE1 |
| <input type="checkbox"/> ETP | <input type="checkbox"/> Stack_1 | <input type="checkbox"/> ETP_1 |
| <input type="checkbox"/> machine2 | <input type="checkbox"/> machine3 | <input type="checkbox"/> Device |
| <input type="checkbox"/> Stack | <input type="checkbox"/> Weather Device | <input type="checkbox"/> stack01 |
| <input type="checkbox"/> Machine02 | <input type="checkbox"/> stack02 | <input type="checkbox"/> Stack_01 |

Save
Delete
Reset

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

Output Driver Configuration

| Output Details | | |
|--|---|--|
| RTDAS <input type="radio"/> | <input checked="" type="radio"/> SERVER | Export To: <input type="text" value="RPCB"/> |
| Export Details | | |
| Export: <input type="text" value="rpcb"/> | Config Name: <input type="text" value="rpcb1"/> | |
| Config Key UploadFrequency SERVER_URL SITE_ID SITE_UID ARCHIVEDIRECTORY PROXYHOST PROXYPORT | Config Value <input type="text"/> <input type="button" value=">>"/> <input type="button" value="<<"/> | Config Key Values UploadFrequency,10000 DELETEFILE,1 SITE_ID,1 SERVER_URL,http://localhost |
| Device List | <input type="text" value="All Plants"/> <input type="text" value="All Sites"/> | Configured Devices |
| <input type="checkbox"/> device <input type="checkbox"/> ETP <input type="checkbox"/> machine2 <input type="checkbox"/> Stack <input type="checkbox"/> Machine02 | <input type="checkbox"/> Stack 1_Boilers_35 TP... <input type="checkbox"/> Stack_1 <input type="checkbox"/> machine3 <input type="checkbox"/> Weather Device <input type="checkbox"/> stack02 | <input type="checkbox"/> MACHINE1 <input type="checkbox"/> ETP_1 <input type="checkbox"/> Device <input type="checkbox"/> stack01 <input type="checkbox"/> Stack_Cel |
| <input checked="" type="checkbox"/> Metal Plant_testMachine2 | | |
| <input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Reset"/> | | |

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

| Device Level Configuration | |
|---|----------------------|
| Headers | <input type="text"/> |
| ANALYZERID | <input type="text"/> |
| StationId | <input type="text"/> |
| Description : | |
| <input type="button" value="Save"/> <input type="button" value="Remove"/> <input type="button" value="Cancel"/> | |

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

DELETEDFILE= 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,

timestamp 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,23.00,143550594
8,0,0

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.

Output Driver Configuration

| Output Details | | | |
|--|---|--|--|
| RTDAS <input type="checkbox"/> | <input checked="" type="checkbox"/> SERVER | Export To: SembcorpDisplayBoard | |
| Export Details | | | |
| Export: sembcorpDisplayBoard | | Config Name: TestConnection1 | |
| Config Key | Config Value | Config Key Values | |
| UploadFrequency UserName FTPPORT FTPURL FTPPASSWORD FILEPATH ETDUSENAME | <input type="text"/> >> << | STATIONTYPE,Local UploadFrequency,10000 FILEPATH,/var/lib/tomcat7/webapps EXPORTCLS,com.aipl.util.FTPTransfer FileName,t1 EXPORTCLS,com.aipl.util.FTPTransfer | |
| Device List | <input type="text"/> All Plants <input type="text"/> All Sites | Configured Devices | |
| <input type="checkbox"/> device <input type="checkbox"/> ETP <input type="checkbox"/> machine2 <input type="checkbox"/> Stack <input type="checkbox"/> Machine02 | <input type="checkbox"/> Stack 1_Boilers_35 TP... <input type="checkbox"/> Stack_1 <input type="checkbox"/> machine3 <input type="checkbox"/> Weather Device <input type="checkbox"/> stack02 | <input type="checkbox"/> MACHINE1 <input type="checkbox"/> ETP_1 <input type="checkbox"/> Device <input type="checkbox"/> stack01 <input type="checkbox"/> Stack_Cal | <input checked="" type="checkbox"/> Metal Plant_testMachine2 |
| <input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Reset"/> | | | |

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.

Output Driver Configuration

| Output Details | | | |
|---|---|---|---|
| RTDAS | <input checked="" type="checkbox"/> SERVER | Export To | DisplayBoardViaSerial |
| Export Details | | | |
| Export | DisplayBoardViaSerialExp | Config Name | [Empty Field] ✖ |
| Config Key | Config Value | Config Key Values | |
| UploadFrequency FILEPATH Parity StopBits DataBits Baudrate DestName | <input type="text"/> >> <input type="text"/> << | EXPORTCLS,com.aipl.util.SerialDataTransfer | |
| Device List | | Configured Devices | |
| All Plants All Sites | | | |
| <input type="checkbox"/> device <input type="checkbox"/> ETP <input type="checkbox"/> machine3 <input type="checkbox"/> Weather Device <input type="checkbox"/> stack02 | <input type="checkbox"/> Stack 1_ Boilers_35 TP... <input type="checkbox"/> ETP_1 <input type="checkbox"/> Device <input type="checkbox"/> stack01 <input type="checkbox"/> Stack_Col | <input type="checkbox"/> MACHINE1 <input type="checkbox"/> machine2 <input type="checkbox"/> Stack <input type="checkbox"/> Machine02 <input type="checkbox"/> stack001 | <input checked="" type="checkbox"/> AIPL Plant Pune_Stack_1 |
| <input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Reset"/> | | | |

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.

Output Driver Configuration

Output Details

RTDAS

SERVER

Export To: SunDisplayBoard

Export Details

Export: sundisplayboard

Config Name: ✖

Config Key

UploadFrequency
FILEPATH

Config Value

>>
<<

Config Key Values

Device List

⌵ All Plants

⌵ All Sites

Configured Devices

device Stack_1
 Stack_1 machine3
 machine3 Weather Device
 Weather Device stack02

Stack 1_ Boilers_35 TP...
 ETP_1
 Device
 stack01
 Stack_01

ETP
 machine2
 Stack
 Machine02
 stack001

IVL DHUNSERI PETROCHE...

Save

Delete

Reset

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 [3.25 Old Configuration](#)

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

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

Output Driver Configuration

Output Details

RTDAS SERVER

Export To: DisplayBoardViaEthernet

Export Details

Export: ThermoDisplayExp

Config Name:

Config Key
 UploadFrequency
 serverName
 port
 FILEPATH
 EXPORTCLS

Config Value

Config Key Values
 EXPORTCLS,com.aipl.util.SocketTransfer

Device List

All Plants
All Sites

Configured Devices

| | | |
|------------------------------------|--|-----------------------------------|
| <input type="checkbox"/> device | <input type="checkbox"/> Stack 1_ Boilers_35 TP... | <input type="checkbox"/> MACHINE1 |
| <input type="checkbox"/> ETP | <input type="checkbox"/> Stack_1 | <input type="checkbox"/> ETP_1 |
| <input type="checkbox"/> machine2 | <input type="checkbox"/> machine3 | <input type="checkbox"/> Device |
| <input type="checkbox"/> Stack | <input type="checkbox"/> Weather Device | <input type="checkbox"/> stack01 |
| <input type="checkbox"/> Machine02 | <input type="checkbox"/> stack02 | <input type="checkbox"/> Stack_01 |

Save
Delete
Reset

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 hhmms
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.

Output Driver Configuration

Output Details

RTDAS SERVER

Export To WBPCB

Export Details

Export wbpcbftp

Config Name

Config Key
 UploadFrequency
 FTPURL
 FTPUSERNAME
 FTPPASSWORD
 FILEPATH
 EXPORTCLS

Config Value

Config Key Values
 EXPORTCLS.com.aipl.util.FTPTransfer

Device List

All Plants

All Sites

Configured Devices

device

Stack 1_ Boilers_35 TP...

MACHINE1

ETP

Stack_1

ETP_1

machine2

machine3

Device

Stack

Weather Device

stack01

Machine02

stack02

Stack Col

Save
Delete
Reset

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

| Device Level Configuration | |
|---|----------------------|
| ParameterList | <input type="text"/> |
| VarList | <input type="text"/> |
| StationId | <input type="text"/> |
| Description : | |
| <input type="button" value="Save"/> <input type="button" value="Remove"/> <input type="button" value="Cancel"/> | |

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 [3.25 Old Configuration](#)

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

16/12/10
00:45;17.4-----
16/12/10
01:00;17.13-----

FIFTH LINE dd/mm/yy hh:mm;value

SIXTH LINE dd/mm/yy hh:mm;value

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 enviroconnect.
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.