



OpenNode2

## RCRAInfo Outbound 5.7 Data Exchange Implementation Guide (Java)

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Environmental Information

**exchange**  
Network



## Revision History

Date	Author	Changes	Version
12/7/2016	Windsor	Initial version	1
4/11/2018	Windsor	Updated for version 5.6 schema.	1.1
6/17/2019	Windsor	Updated for version 5.7 schema.	1.2



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# Data Exchange Overview

The purpose of this document is to provide detailed instructions for the installation and configuration of the Exchange Network Resource Conservation and Recovery Act information system (RCRAInfo) Outbound data exchange on the Java implementations of the Exchange Network OpenNode2 (OpenNode2).

The RCRAInfo Outbound data exchange offers a data service that is used to **solicit and retrieve** data from the EPA RCRAInfo system and load the data into the RCRA Outbound staging tables.

Further detail about the RCRAInfo Outbound data exchange is available in the Flow Configuration Document (FCD) published at [exchangenetwork.net](https://exchangenetwork.net).

The RCRAInfo Outbound data exchange configuration process involves two main steps: 1) install and configure the RCRAInfo data flow 2) configure exchange services and node job schedules. The rest of this document will describe these two processes in detail. To download the latest Java Node and obtain the RCRA Outbound plugin, please click Download Java at the following GitHub website: <https://windsorsolutions.github.io/opennode2/>.

## Terminology

**Outbound** data flow refers to the ability to obtain (solicit, query) data from the EPA. In other words, it is data outbound from the EPA.

**Inbound** data flow refers to the ability for a partner to push data to another partner. In the case of EPA, the data is going from the State, and data is coming Inbound into the EPA.

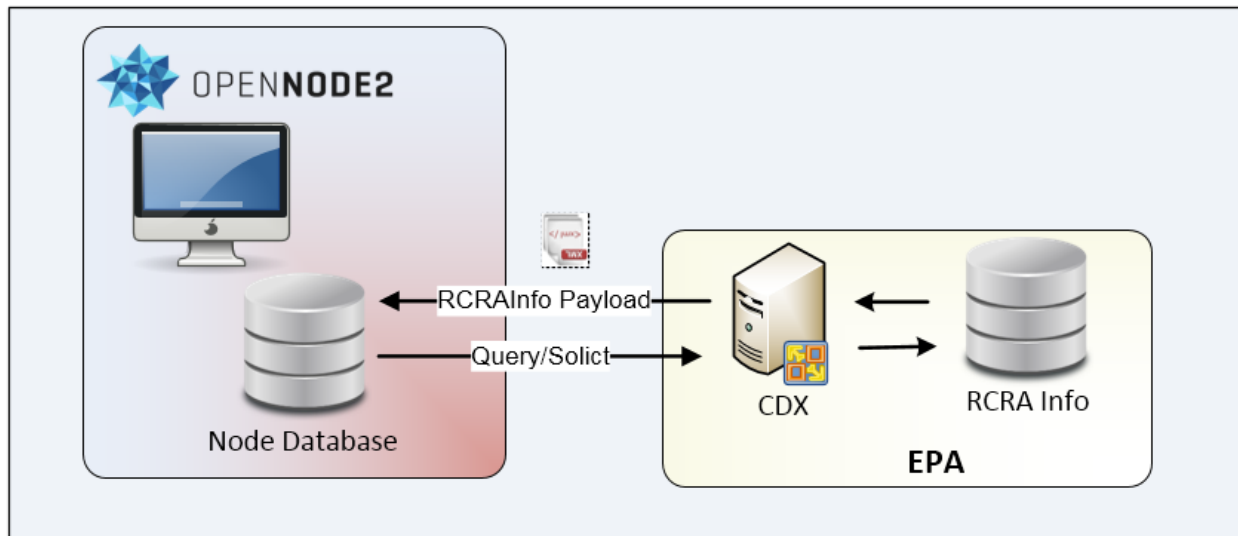
This document describes the RCRA **Outbound** data flow. Separate documentation can be found on [GitHub](#) that describes the RCRA Inbound data flow.

## **Important 5.7 Updates**

The newest schema version, 5.7, introduced several important changes. The new GeEMByState and GetEMHandlerByID allows users to download the new eManifest data. Additionally, new attributes have been added to the Handler payload (GetHDDDataByState) including Acknowledge Flag Indicator, Include In National Report Indicator, LQHUW Indicator and HD Report Cycle Year. Also, the Current Handler (Report Universe) xsd file name was changed, making it unusable using the 5.6 plugin. In order to obtain Current Handler data, you must upgrade to 5.7.

## Plugin Architecture

The diagram below shows the architecture of a typical OpenNode2 Outbound plugin and how services that access the plugin's functionality are configured by a node administrator.



A plugin contains one or more **implementers**. Implementers are canned functionality that are specific to the data exchange. An implementer performs some task, such as composing XML from a series of staging tables.

A node administrator exposes the functionality in an implementer by creating **services**. When a service is created, an implementer must be chosen. Each service may have one or more configuration arguments, defined by the implementer. For example, the service may require that a database connection or node partner URL be provided. Services can be made available to external partners in the form of a query or solicit or as an inbound submission processor. “Task” services are internal only and are accessed via a **schedule**. Schedules also can have configuration arguments which are used by the plugin implementer assigned to the schedule.

## RCRAInfo Data Flow Deployment

NOTE: This deployment and configuration guide is for the **Java version** of OpenNode2 with an **Oracle or SQL Server** database platform.

### Install Data Objects for RCRAInfo Data Flow

#### Install RCRAInfo Data Objects for Node Flow Database

1. Open **Oracle SQL Developer (or other Oracle SQL tool) or SQL Server Management Studio**
2. It is recommended to set up a new schema for this outbound database, (typically called `NODE_FLOW_RCRA`).



3. For brand new installations of this plugin, you will want to set up the staging tables using the full CREATE scripts. Open and execute RCRA\_5.7\_ORA\_DDL.sql for an Oracle environment, or RCRA\_5.7\_SQL\_DDL.sql for a SQL Server environment.
4. If you already have existing version, you can use the upgrade scripts. Open and execute RCRA\_5.6\_to\_5.7\_ORA\_DDL.sql for an Oracle environment, or RCRA\_5.6\_to\_5.7\_SQL\_DDL.sql for a SQL Server environment.

## Configure Partner and Data Sources

For the following steps, use the appropriate OpenNode2 Administration Utility.

### Configure Network Partner (if needed)

1. Click the **Configuration** button
2. Click the **Network Partners** button
3. Click **Add Partner**, and enter the following values for the new Network Partner:
  - **Name:** CDX RCRA Production [“Test” or “Production”]
  - **Endpoint URL** (test): <https://testngn.epacdxnode.net/ngn-enws20/services/NetworkNode2Service>
  - **EndPoint URL** (production): <https://cdxnodengn.epa.gov/ngn-enws20/services/NetworkNode2Service>
4. **Version:** Select *Node v2.0* from the drop-down list

### Configure Node Data Sources (if needed)

1. Click the **Configuration** button
2. Click the **Data Sources** button
3. Click **Add Data Source**, and enter the following values for the Node Flow staging tables where the RCRA outbound tables are located:
  - **Name:** RCRA-OUTBOUND
  - **Provider:** *Select appropriate driver based on your database platform*

Connection: jdbc:oracle:thin:[database name]/[password]@[host name or IP address]:[port number, i.e. 1521]:[Oracle SID] or  
(server=[servername];User ID=[user name];Password=[password];database=[database name])

## Configure Node Exchange and Services

For the following steps, use the appropriate OpenNode2 Administration Utility.

### Configure Exchange

1. Click on the **Exchanges** tab
2. Click the **Add a New Exchange** button, and enter the following values for the new Exchange:

Actions

+ Add a new Exchange

- **Name:** *RCRA Outbound*
  - **Target Exchange:** *RCRA Outbound*
  - **Description:** *RCRAInfo Outbound (from EPA) Data Exchange*
  - **Contact:** Select *YourEmailHere@State.gov* from the drop-down list
  - **URL:** <http://www.exchangenetwork.net/data-exchange/rcrainfo/>
  - **Protected:** Checked/True
3. Click the Choose File button under **Upload a Plugin**
  4. Select the rcra\_outbound\_5.7\_java.zip file.  
OpenNode2 and all related Java plugins can be found at [GitHub](#), by clicking Download Java.
  5. Click the **Save** button

Edit Exchange

Name \*

RCRAInfo 5.7 Outbound

Target Exchange

RCRA

Description

RCRA 5.7 Outbound Data Flow

Contact \*

scott\_remick@windsorsolutions.com

URL

http://www.exchangenetwork.net/data-exchange/rcrainfo/

☐ Protected

Setting default flow security will require a specific policy for all flow related requests (Query, Solicit, Download etc.); Additionally any services belonging to this Flow marked "No Auth Required", will still require Authorization.

Upload a Plugin

Choose File No file chosen

Plugin Information

Name	rcra57-outbound
Full Name	Node Plugin - RCRA v5.7 - Outbound
Description	Solicits data from the RCRAInfo system.
Version	2.16.00

## Configure Exchange Services

### Solicits

Solicit services will provide the ability to obtain data from the EPA.

For each module that will be required (e.g., Compliance & Enforcement (CE), Handler (HD), Permitting (PM), Corrective Action (CA), GeoSpatial (GS), Financial Assurance (FA), Current Handler (CH), eManifest (EM)) a corresponding exchange will need to be established. Each module can have separate exchanges for returning results by State or by Handler.

### Processor

The processor looks for pending solicits and checks the status at the EPA. If the status at the EPA is “completed” then the processor will download the file and insert the data into the RCRA Outbound staging tables. Only one processor service needs to be established to accommodate all solicits.

### Clear Pending


The clear pending service will set the local status of any solicits from pending to “failed”. If a user ever encounters a message in the processor that says, a pending solicit already exists, this service can be run to clear out that pending solicit.

### Establish Solicit Services

*Note, By State is most common. There is no need to establish By Handler if you are looking for all data for a given state.*

*Be sure to ask Node Helpdesk to associate your operator/runtime account to your RCRA Info ID. The RCRA Info ID must have the ability to solicit data for your state.*

### **Get CE By State**

Under the **RCRA Info Outbound** exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get CE By State*
- **Implementer:** Select *SolicitOpCEByState* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### **Get CE By Handler**

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get CE By Handler*
- **Implementer:** Select *SolicitOpCEByHandler* from the drop-down list

- **Type:** *Task*
- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### ***Get HD By State***

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get HD By State*
- **Implementer:** Select *SolicitOpHDByState* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### ***Get HD By Handler***

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get HD By Handler*
- **Implementer:** Select *SolicitOpHDByHandler* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)


### ***Get PM By State***

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get PM By State*
- **Implementer:** Select *SolicitOpPMByState* from the drop-down list
- **Type:** *Task*

- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### **Get PM By Handler**

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get PM By Handler*
- **Implementer:** Select *SolicitOpPMByHandler* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### **Get CA By State**

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get CA By State*
- **Implementer:** Select *SolicitOpCABystate* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### **Get CA By Handler**

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get CA By Handler*
- **Implementer:** Select *SolicitOpCAByHandler* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service

- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### Get GS By State

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get GS By State*
- **Implementer:** Select *SolicitOpGSByState* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### Get GS By Handler

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get GS By Handler*
- **Implementer:** Select *SolicitOpGSByHandler* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### Get FA By State

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get FA By State*
- **Implementer:** Select *SolicitOpFAByState* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service

- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### **Get FA By Handler**

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get FA By Handler*
- **Implementer:** Select *SolicitOpFAByHandler* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### **Get Current Handler By State (HREPORT\_UNIV)**

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get Current Handler By State*
- **Implementer:** Select *SolicitOpCHByState* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### **Get Current Handler By Handler (HREPORT\_UNIV)**

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get Current Handler By Handler*
- **Implementer:** Select *SolicitOpCHByHandler* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service

- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Stored Procedure:** Name of the post processing stored procedure located on the target data provider database. This accommodates data migrating to another source database. If not post processing, then leave blank. (optional)
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### ***Get EM By State***

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get EM By State*
- **Implementer:** Select *SolicitOpEMByState* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### ***Get EM By Handler***

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Get EM By Handler*
- **Implementer:** Select *SolicitOpEMByHandler* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service
- **Solicit Partner Name:** *EPA CDX Prod (for example) [“Test” or “Production”] (note: must match exactly to the partner name set up in the configuration – network partners section.)*
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)



**Edit Exchange Service**

**Name \***

Get Current Handler

**Implementer \***

SolicitOpCHByState

Solicits Current Handler Data by State from the RCRAInfo service.

**Type \***

Solicit

☒ Active  
Making service inactive will prevent it from being accessible using the Web Service interface.

**Parameters**

Solicit Partner Name ☐ Use Global Value

EPA CDX Prod

**Data Sources**

Data Source

RCRA 5.6 Outbound - OH RCRA Testing


Save Cancel

Current Handler

(example Exchange Service Configuration)

### Establish Processor Service

#### ***Processor (download and import)***


Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Processor*
- **Implementer:** Select *RCRAProcessOperation* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service

- **Stored Procedure:** Name of the post processing stored procedure located on the target data provider database. This accommodates data migrating to another source database. If no post processing is involved, then leave blank. (optional)
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

### Establish Clear Pending

### ***Clear Pending***

Under the RCRA Info Outbound exchange, click the **Add Service** button , and enter the following values for the new Service.

- **Name:** *Clear Pending*
- **Implementer:** Select *ClearPendingSubmissions* from the drop-down list
- **Type:** *Task*
- **Active:** check the box to enable the service
- **Data Source:** Select *appropriate data source* from the drop-down list. (location of the staging tables)

## Configure Node Job Schedules

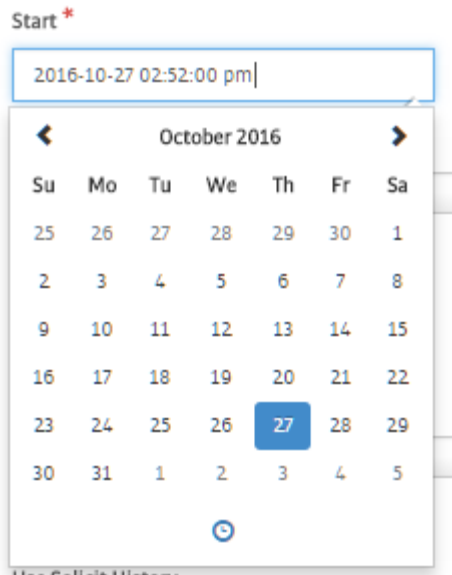
Scheduled Node jobs will be required for the RCRAInfo Outbound Data Flow implementation. Select Schedules from the main menu bar, and locate the RCRA Outbound exchange that was established during the last step. These steps will be repeated to solicit additional modules. Each Data Exchange created will have an accompanying Schedule block automatically created. The examples below are for HD by State and HD by Handler.

Additionally, a schedule will need to be created for Processor (to download and import the solicited data) and Clear Pending services.

### Configure “HD By State” Schedule

1. Click **Schedule** in the main menu
2. Click the **Add Schedule** (+) button for the RCRA Outbound exchange, and enter the following values for the new Schedule

- **Name:** *HD By State*
- **Active:** *Check box selected*
- **Start:** *<Select Date> by typing or selecting date/time from picker tool. For an exact time, select the clock icon at the bottom of the calendar.*



- **End:** <Select Date> by typing or selecting date/time from picker tool.
- **Frequency:** This is a number incrementer – set this to the frequency numeric which will combine with the “Every” field to the right. Example “1 every Week”
- **Every:** Choose the appropriate time frame to correspond to the frequency field to the left. Example “1 every Week”
- **Data Source**

#### Data Source

- i. Select the **Local Service** option
  - ii. Select **HD By State** from the drop-down list
- **Parameters**
    - i. **Use Solicit History:** ‘true’ or ‘false’ (see usage in the Schedule Using Submission History section of this document)
    - ii. **State:** Two Letter State Code (e.g. ‘OH’)
    - iii. **Change Date:** enter a date in the **YYYY-MM-DD** format (this will obtain all RCRA data that has been added or edited at RCRAInfo since data entered)
    - iv. **End Date:** (optional – and only available for Handler, Current Handler and eManifest). By using end date (same format as Change Date), you can obtain data using a date range.
  - **Results Target**
    - i. Select the **None** option

3. Click the **Save** button


## Configure “HD By Handler” Schedule

1. Click **Schedule** in the main menu

2. Click the **Add Schedule** (+) button for the RCRA Outbound exchange, and enter the following values for the new Schedule
  - **Name:** *HD By Handler*
  - **Active:** *Check box selected*
  - **Start:** *<Select Date> by typing or selecting date/time from picker tool.*
  - **End:** *<Select Date> by typing or selecting date/time from picker tool.*
  - **Frequency:** *This is a number incrementer – set this to the frequency numeric which will combine with the “Every” field to the right. Example “1 every Week”*
  - **Every:** *Choose the appropriate time frame to correspond to the frequency field to the left. Example “1 every Week”*
  - **Data Source**
    - i. *Select the **Local Service** option*
    - ii. *Select **HD By Handler** from the drop-down list*
  - **Parameters**
    - i. **Use Solicit History:** *‘true’ or ‘false’ (see usage in the Schedule Using Submission History section of this document)*
    - ii. **Handler ID:** *ID code for Handler whose data you wish to return*
    - iii. **Change Date:** *enter a date in the YYYY-MM-DD format (this will obtain all RCRA data that has been added or edited at RCRAInfo since data entered)*
  - **Results Target**
    - i. *Select the **None** option*
3. Click the **Save** button

## Edit Exchange Service Schedule

**Name \***

HD By State 

☒ Active

**Start \*** **End \***

2018-03-12 10:30:00 pm 2018-03-16 02:22:34 pm

**Frequency \*** **Every \***

0 Weekdays ▼

### Data Source

Local Service File System

The data source is the result of a local service

HD ▼

### Parameters

**Use Solicit History**

false

**State \***

CO

**Change Date**

2010-01-01

### Results Target

None	Exchange Network Partner	Schematron Service	File System	E-mail
------	--------------------------	--------------------	-------------	--------

There is no datatarget data source for the results

## Get Handler By State Schedule

## Configure “Processor” Schedule

Typically, you would schedule the processor service 30 mins to an hour after the last solicit schedule is run. This will allow enough time for the solicit to be completed by the EPA, so that the solicit file can be downloaded and imported into the staging tables.

1. Click **Schedule** in the main menu

2. Click the **Add Schedule** (+) button for the RCRA Outbound exchange, and enter the following values for the new Schedule
  - **Name:** *Submission Processor*
  - **Active:** *Check box selected*
  - **Start:** *<Select Date> by typing or selecting date/time from picker tool.*
  - **End:** *<Select Date> by typing or selecting date/time from picker tool.*
  - **Frequency:** *This is a number incrementer – set this to the frequency numeric which will combine with the “Every” field to the right. Example “1 every Week”*
  - **Every:** *Choose the appropriate time frame to correspond to the frequency field to the left. Example “1 every Week”*
  - **Data Source**
    - i. *Select the **Local Service** option*
    - ii. *Select **Processor** from the drop-down list*
  - **Results Target**
    - i. *Select the **None** option*
3. Click the **Save** button

**Edit Exchange Service Schedule**

Name \*  
SubmissionProcessor

☒ Active

Start \*  
2018-03-13 02:00:00 am

End \*  
2020-02-01 02:20:51 pm

Frequency \*  
1

Every \*  
Weekdays

**Data Source**

Local Service File System

The data source is the result of a local service

Processor

**Results Target**

None Exchange Network Partner Schematron Service File System E-mail

There is no datatarget data source for the results

Save Cancel

Processor Schedule

## Configure “Clear Pending” Schedule

Note, this is not a schedule that you would typically set u to run automatically/nightly. But you will need to create the schedule, set the dates to anything, and set frequency to 1 and Every to Never. This will allow you to run the schedule manually by clicking the run now button.



1. Click **Schedule** in the main menu
2. Click the **Add Schedule** (+) button for the RCRA Outbound exchange, and enter the following values for the new Schedule
  - **Name:** *Clear Pending*
  - **Active:** *Check box selected*
  - **Start:** *<Select Date> by typing or selecting date/time from picker tool.*
  - **End:** *<Select Date> by typing or selecting date/time from picker tool.*
  - **Frequency:** *This is a number incrementer – set this to the frequency numeric which will combine with the “Every” field to the right. Example “1 every Week”*



- **Every:** Choose the appropriate time frame to correspond to the frequency field to the left. Example “1 every Week”
  - **Data Source**
    - i. Select the **Local Service** option
    - ii. Select **Clear Pending** from the drop-down list
  - **Results Target**
    - i. Select the **None** option
3. Click the **Save** button

*Clear Pending Schedule*

## Schedule Using the Submission History

In addition to manually choosing a “change date” to indicate what data should be pulled from RCRA Info, you can also have the schedule use the most recent successful pull date. The “change date” field is used on the first run; if the run is successful then the plugin will note the date and time of the successful run as well as the RCRA Info function that was used (this is located in the RCRA\_SolicitHistory table). During the next run, the “change date” field will be ignored and the last successful run date will be used instead.

All of the schedules that support this function will have a field called “Use Solicit History”, if you would like to use this feature then type “yes” or “true” into this field. When the schedule is run, you will be able

to confirm that the correct date was used by clicking on the “Last Run Info” link. You will see output similar to the following:

```
Using submission history...
Submission history change date: 2016-07-01
```

Typing in “no” or “false” will ignore the submission history feature. A history record will not be written to the database, and the solicit will use the ‘Change Date’ to determine which data to solicit from the EPA.

## Other RCRA Info Functions/Modules

All of the other RCRA Info functions are setup in the same way. Configure the service in the exchange and then the schedule; note that there is only one schedule required for each RCRA Info function. The following functions are supported by this plugin:

- CE By Handler, com.windsor.node.plugin.rcra57.solicit.SolicitOpCEByHandler
- CE By State, com.windsor.node.plugin.rcra57.solicit.SolicitOpCEByState
- HD By Handler, com.windsor.node.plugin.rcra57.solicit.SolicitOpHDByHandler
- HD By State, com.windsor.node.plugin.rcra57.solicit.SolicitOpHDByState
- CA By Handler, com.windsor.node.plugin.rcra57.solicit.SolicitOpCAByHandler
- CA By State, com.windsor.node.plugin.rcra57.solicit.SolicitOpCAByState
- PM By Handler, com.windsor.node.plugin.rcra57.solicit.SolicitOpPMByHandler
- FA By Handler, com.windsor.node.plugin.rcra57.solicit.SolicitOpFAByHandler
- FA By State, com.windsor.node.plugin.rcra57.solicit.SolicitOpFAByState
- PM By State, com.windsor.node.plugin.rcra57.solicit.SolicitOpCEByState
- GS By State, com.windsor.node.plugin.rcra57.solicit.SolicitOpGSByState
- GS By Handler, com.windsor.node.plugin.rcra57.solicit.SolicitOpGSByHandler
- Current Handler By State, com.windsor.node.plugin.rcra57.solicit.SolicitOpCHByState
- Current Handler By Handler, com.windsor.node.plugin.rcra57.solicit.SolicitOpCHByHandler
- EM By State, com.windsor.node.plugin.rcra57.solicit.SolicitOpEMByState
- EM By Handler, com.windsor.node.plugin.rcra57.solicit.SolicitOpEMByHandler