

HttpNotify Plugin

Version: 2.1.0.0

1 Plugin Release Folder (Mainconsole)

1.1 Download the Plugin file from the link below.

[HttpNotify v2.1.0.0](#)

2 Plugin License Type

2.1 HttpNotify Plugin will use **POS License**

3 Plugin Install Folder

3.1 Copy the directory 'MetadataModelHttpNotify' together with the **MetadataModelHttpNotify.dll** file to Mainconsole and install it under the PluginPack file (**C:\Program Files (x86)\NUUO\SCB_IP\PluginPack**)

3.2 Note that the w32 and x64 versions of Mainconsole and Plugin must match. The default installation directory for 32-bit is

C:\Program Files (x86)\NUUO\SCB_IP

The 64-bit installation directory is

C:\Program Files (x86)\NUUO\SCB_IP\x64

3.3 The Tag Filter file for Mainconsole is HttpNotify_Filter.ini as shown in the following link:

[HttpNotify_TagFilter](#)

3.4 Copy HttpNotify_Filter.ini to the Metadata under the Mainconsole installation directory.

C:\Program Files (x86)\NUUO\SCB_IP\Metadata

4 Configure Plugin

4.1 Metadata Model Setting

When adding/setting a Metadata Model, the following window will appear:

The screenshot shows a dialog box titled "Metadata Source Setting". It contains the following fields and controls:

- Name:
- Metadata Type:
- Source Type:
- Service Port:
- Account:
- Password:

At the bottom of the dialog are "OK" and "Cancel" buttons.

Service Port	7001	<ul style="list-style-type: none">➤ Receive the Http Notify port sent by the 3rd Party➤ If multiple Metadata Models are added, users should pay attention not to occupy the same port
Account / Password	admin	<ul style="list-style-type: none">➤ Connect this Plugin to 3rd Party➤ Currently only supports HTTP Basic Authentication

5 Metadata Channel Setting

5.1 In the next layer of Metadata Model, when adding/setting Metadata Channel, it will appear:

API URL	<ul style="list-style-type: none"> ➤ The API URL passed in by the 3rd party ➤ Currently only supports Content-Type: application/json
Event Filter	<ul style="list-style-type: none"> ➤ Check the incoming JSON from the 3rd Party, only if the same Name:Value (legend: "deviceName": "david") appears, the JSON will be received ➤ If set to blank, JSON will not be filtered out
Content Filter Type / Content Filter	<ul style="list-style-type: none"> ➤ Currently supports 3 types: <ul style="list-style-type: none"> ■ No Filter: keep all ■ Deletion: negative list (similar to blacklist concept) ■ Addition: positive list (similar to white list concept) ➤ Described in the next section

[v2.1.0.0] began to support query phases in the API URL,

for example (/api/httpnotify?a=1&b=2), it will convert the query into a part of JSON

```




Time=2023/02/23 11:37:45
Json=
{
  "a": "1",
  "b": "2",
  "deviceName": "david",
  "key1": {
    "key2": "value2",
    "key3": {
      "key4": "value4",
      "key5": "value5"
    }
  },
  "key6": [1, 2, 3, 4],
  "key7": [5, {
    "key8": "value8"
  }, 7, 8],
  "key9": "va"
}
    
```

5.2 Content Filter: (Currently supports the following table)

Type	Description
No Filter	<ul style="list-style-type: none"> ➤ Keep all JSON data ➤ Ignore the settings in the Content Filter
Deletion	<ul style="list-style-type: none"> ➤ If the Name listed in the Content Filter appears in the JSON, the Name:Value will be removed ➤ If there are multiple Names to be processed, separate them with commas, as shown in the legend "key1","key2" (the order does not affect the result) ➤ It is suitable for most of the JSON to be kept, only a few are not; for example, if you don't want to accept the "snapshot" data in the JSON, you can add "snapshot"
Addition	<ul style="list-style-type: none"> ➤ Will add the Name listed in the Content Filter in the JSON to the Name:Value ➤ If there are multiple Names to be processed, separate them with commas, as shown in the legend "key1","key2" (the order does not affect the result) ➤ It is not necessary for most of the JSON, only a few need to be left; for example, face recognition, when only the basic information of the personnel is required

***Deletion rules: If this Node is to be deleted, all child Nodes below it will also be deleted**

Example (Event Filter is set to "deviceName": "david")

Raw JSON	Deletion Filter	Result
<pre>{ "deviceName": "david", "key1": { "key2": "value2", "key3": { "key4": "value4", "key5": "value5" } }, "key6": [1,2,3,4], "key7": [5, {"key8": "value8"}, 7, 8] }, "key9": "value9" }</pre>	"key1"	 <pre>Time=2023/01/10 11:29:04 Json= { "deviceName": "david", "key9": "value9" }</pre>
	"key3","key6","key8"	 <pre>Time=2023/01/10 11:31:40 Json= { "deviceName": "david", "key1": { "key2": "value2", "key7": [5, {}, 8] }, "key9": "value9" }</pre>
	"key2","key7","key9"	 <pre>Time=2023/01/10 11:34:13 Json= { "deviceName": "david", "key1": { "key3": { "key4": "value4", "key5": "value5" } }, "key6": [1, 2, 3, 4] }</pre>

Addition's rule: If this Node is to be reserved, all child Nodes below it will be reserved, and the parent Node above it will also be reserved.

Example (Event Filter is set to "deviceName": "david")

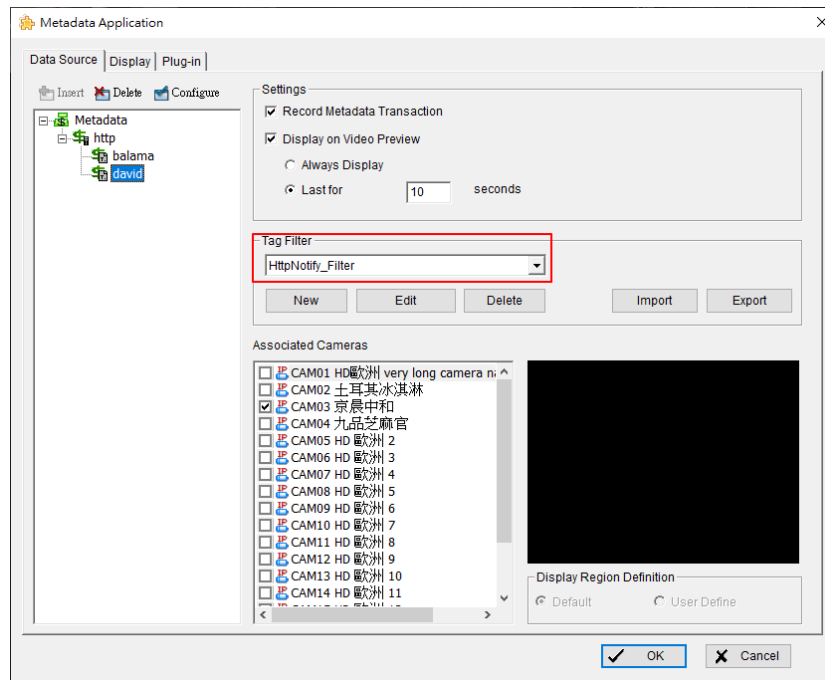
Raw JSON	Addition Filter	Result
<pre> { "deviceName": "david", "key1": { "key2": "value2", "key3": { "key4": "value4", "key5": "value5" } }, "key6": [1, 2, 3, 4], "key7": [5, {"key8": "value8"}, 7, 8] }, "key9": "value9" } </pre>	"key1"	<pre> Time=2023/01/10 11:38:51 Json= { "key1": { "key2": "value2", "key3": { "key4": "value4", "key5": "value5" } }, "key6": [1, 2, 3, 4], "key7": [5, { "key8": "value8" }, 7, 8] } </pre>
	"key2","key6"	<pre> Time=2023/01/10 11:41:02 Json= { "key1": { "key2": "value2", "key6": [1, 2, 3, 4] } } </pre>
	"key4","key9"	<pre> Time=2023/01/10 11:43:02 Json= { "key1": { "key3": { "key4": "value4" } }, "key9": "value9" } </pre>

5.3 HTTP Response Code

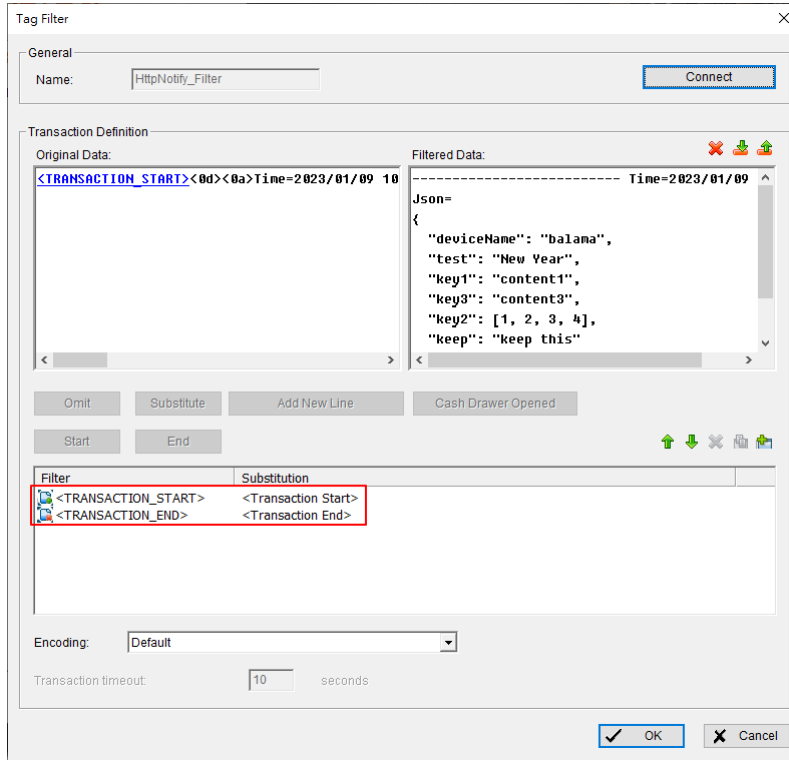
	Situation
200 OK	➤ Success
400 Bad Request	<ul style="list-style-type: none"> ➤ No "GET", "POST", ...etc. REST Method ➤ No API URL ➤ The value of Content-Length is not a positive integer
401 Unauthorized	➤ If Account/Password is set, HTTP Basic Authentication fails
406 Not Acceptable	<ul style="list-style-type: none"> ➤ V2.1.0.0 starts to support query phases in the API URL <ul style="list-style-type: none"> ■ Ex: /api/httpnotify?a=1&b=2 ➤ If there are no query phases, and it is not a supported Content-Type: application/json, it will return 406
411 Length Required	➤ If there is Content-Type: application/json, but no Content-Length:

5.4 Configure Metadata Tag Filter

- 5.4.1 For each Metadata Channel, set the correct Tag Filter; the preset Default filter cannot be used (multiple FAEs occur)
- 5.4.2 If you first copy HttpNotify_Filter.ini to the Metadata directory in the Mainconsole installation directory, you can directly select
- 5.4.3 You can make other related settings for the same screen, such as Display on Video Preview, Associated Cameras and Display Region Definition. It is also necessary to make it once for each Metadata Channel



5.4.4 To manually set Tag Filter



Filter	Substitution
<TRANSACTION_START>	<Transaction Start>
<TRANSACTION_END>	<Transaction End>

6 Insomnia REST Client

6.1 <https://insomnia.rest/>

6.2 The simplest tutorial

<https://docs.insomnia.rest/insomnia/send-your-first-request>

6.3 It can be used to simulate the HTTP request sent by the 3rd party, as follows:

