

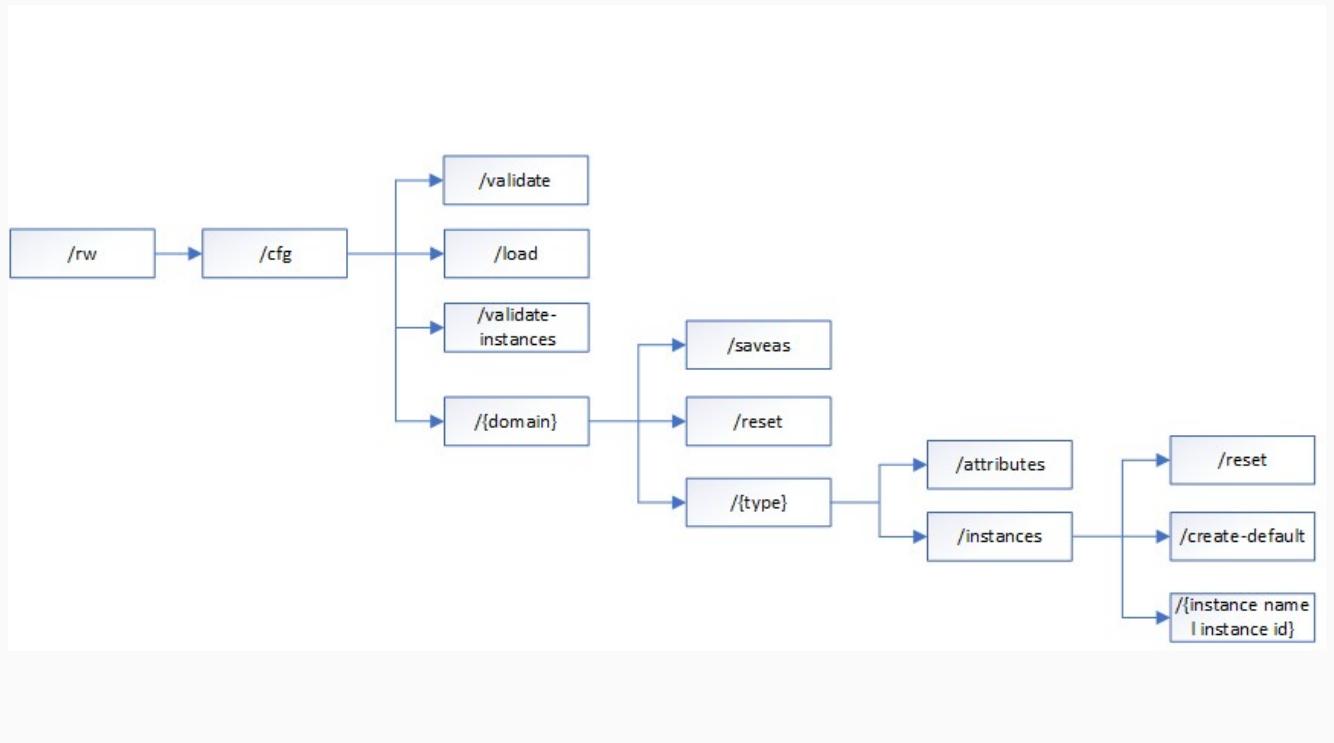


Robot Web Services

3HAC073675-001 Revision:1

https://developercenter.robotstudio.com/api/RWS/Swagger_Doc/CFG_Service.yaml

CFG Service



Schemes

HTTPS



Validate CFG File Resource



POST

/rw/cfg/validate Validate CFG File



"Validate a configuration file before loading."

Parameters

Try it out

Name

Description

Name	Description
request-body	Data parameter(s)
object (body)	<p>Example Value Model</p> <pre>action-type=string</pre>
	<p>Parameter content type</p> <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">application/x-www-form-urlencoded;v=2.0 ▾</div>
Responses	<p>Response content type</p> <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">application/xhtml+xml;v=2.0 ▾</div>
Code	Description
200	<p>Standard response for successful HTTP requests</p> <p>Example Value Model</p> <pre><?xml version="1.0" encoding="UTF-8"?> <html xmlns="http://www.w3.org/1999/xhtml"> <head> <base href="https://localhost/rw/cfg/"> </head> <body> <div class="state"> <li class="cfg-validate" title="EIO"> EIO </div> </body> </html></pre>
400	The request cannot be fulfilled due to bad syntax
415	The server will not accept the request, because the media type is not supported

OPTIONS

/rw/cfg/validate Get Forms



"Get a list of actions that can be performed on the CFG validate resource."

Parameters

[Try it out](#)

No parameters

Responses

Response content type

application/xhtml+xml;v=2.0 ▾

Code

Description

200

Standard response for successful HTTP requests

[Example Value](#) | [Model](#)

```
<?xml version="1.0" encoding="UTF-8"?>

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost/rw/cfg/">
  </head>
  <body>
    <div class="state">
      <form action="validate" id="validate" method="post">
        <input name="filepath" type="text"/>
        <select name="action-type">
          <option selected="selected" value="add"/>
          <option value="replace"/>
          <option value="add-with-reset"/>
        </select>
      </div>
    </body>
  </html>
```

406

The server can only generate a response that is not accepted by the client

Load CFG File Resource



POST

/rw/cfg/load Load CFG File



"Load a configuration file. Location header /progress/{id} will be returned after successful completion of the API."

The resource can be subscribed to get events with current status of CFG load operation. The resource URI for this subscription will be /progress/{id}, where /progress/{id} is the "location header" returned after successful completion of "Load CFG file" API.

Sample response for CFG Load subscription

```
<?xml version="1.0" encoding="utf-8"?>
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost:443/" />
  </head>
  <body>
    <div class="state">
      <a href="subscription/1" rel="group"></a>
      <a href="wss://localhost:443/poll/1" rel="self"></a>
      <ul>
        <a href="/progress/1" rel="self"/>
        <li class="progress-ev" title="Load-CFG-file">
          <span class="state">pending</span>
          <span class="code">294912</span>
        </li>
      </ul>
    </div>
  </body>
</html>
```

An event will look like

```
<?xml version="1.0" encoding="utf-8"?>
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost:443/" />
  </head>
  <body>
    <div class="state">
      <a href="subscription/1" rel="group"></a>
      <ul>
        <a href="/progress/1" rel="self"/>
        <li class="progress-ev" title="Load-CFG-file">
          <a href="/user/HOME/sc_eio.cfg" rel="resource"/>
          <span class="state">ready</span>
          <span class="code">294912</span>
        </li>
      </ul>
    </div>
  </body>
</html>
```

Parameters

Try it out

Name	Description
request-body object (body)	Data parameter(s) Example Value Model <code>action-type=string&filepath=string</code>
	Parameter content type <code>application/x-www-form-urlencoded;v=2.0</code> ▾
Responses	Response content type <code>application/json</code> ▾
Code	Description
202	The request has been accepted for processing, but the processing has not been completed
400	The request cannot be fulfilled due to bad syntax
415	The server will not accept the request, because the media type is not supported

OPTIONS	/rw/cfg/load Get Forms	^
"Get a list of actions that can be performed on the CFG load resource."		
Parameters		Try it out
No parameters		
Responses	Response content type	<code>application/xhtml+xml;v=2.0</code> ▾

Validate

POST

"Validate CFG"

Parameters
406

Try it out

The server can only generate a response that is not accepted by the client

Name Description

request-body Data parameter(s)

object
(body) Example Value | Model

operation=string&cfgdomain=string&cfgtype=string&instances=string

Parameter content type

application/x-www-form-urlencoded;v=2.0 ▾

Responses

Response content type

application/json



Code Description

204

The request has been successfully processed, but is not returning any content

Code	Description
400	The request cannot be fulfilled due to bad syntax
404	The requested page could not be found but may be available again in the future
415	The server will not accept the request, because the media type is not supported

OPTIONS /rw/cfg/validate-instances Get Forms ^

"Get a list of actions that can be performed on the CFG validate instances."

Parameters **Try it out**

No parameters

Responses Response content type application/xhtml+xml;v=2.0 ▼

Code	Description
200	Standard response for successful HTTP requests

Example Value | Model

```
<?xml version="1.0" encoding="UTF-8"?>

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost/rw/cfg/">
  </head>
  <body>
    <div class="state">
      <form action="validate-instances" id="validate-instances" method="post">
        <input name="operation" type="value"/>
        <input name="cfgdomain" type="text"/>
        <input name="cfgtype" type="text"/>
        <input name="instances" type="text"/>
        <input name="instancescount" type="text"/>
      </form>
    </div>
  </body>
```

Code**Description**

</html>

406

The server can only generate a response that is not accepted by the client

Operations on CFG Domain

Operations on CFG Domain

**GET**

/rw/cfg/{domain} Get CFG Domain Types



"Get a list of all CFG domain types for a given type.

Return the names of all the available types for the given domain and provide links to get to their detailed information."

Parameters**Try it out****Name****Description****domain** * required

string

(path)

{domain}

domain

start

string

(query)

{start value} Start Page number

start

limit

string

(query)

{limit value} Limit Number of elements to retrieve(maximum/default value of limit is 70)

limit

Responses**Response content type**

application/xhtml+xml;v=2.0

**Code****Description**

200

Standard response for successful HTTP requests

Example Value | Model

Code**Description**

```
<?xml version="1.0" encoding="UTF-8"?>

<html
  xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost/rw/cfg/">
  </head>
  <body>
    <div class="state">
      <a href="moc" rel="self"></a>
      <a href="moc?start=2&limit=2" rel="next"></a>
      <ul>
        <li class="cfg-dt-li" title="MOTION_SYSTEM">
          <a href="moc/MOTION_SYSTEM" rel="self"></a>
        </li>
        <li class="cfg-dt-li" title="MOTION_PLANNER">
          <a href="moc/MOTION_PLANNER" rel="self"></a>
        </li>
      </ul>
    </div>
  </body>
</html>
```

406

The server can only generate a response that is not accepted by the client

GET`/rw/cfg/{domain}/{type}` Get CFG Type

"Return links to the domain type attributes and instances."

Parameters**Try it out****Name****Description****domain** * required**string**

{domain}

(path)**type** * required**string**

{type}

(path)

Responses

Response content type

application/xhtml+xml;v=2.0 ▾

Code

Description

200

Standard response for successful HTTP requests

[Example Value](#) | [Model](#)

```
<?xml version="1.0" encoding="UTF-8"?>

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost/rw/cfg/">
  </head>
  <body>
    <div class="state">
      <a href="eio/INDUSTRIAL_NETWORK" rel="self"/>
      <ul>
        <li class="cfg-dt-attributes-li" title="attributes">
          <a href="eio/INDUSTRIAL_NETWORK/attributes" rel="self"/>
          <span class="cfg-no-of-attributes">11</span>
        </li>
        <li class="cfg-dt-instances-li" title="instances">
          <a href="eio/INDUSTRIAL_NETWORK/instances" rel="self"/>
          <span class="cfg-no-of-instances">3</span>
        </li>
      </ul>
    </div>
  </body>
</html>
```

406

The server can only generate a response that is not accepted by the client

GET

/rw/cfg/{domain}/{type}/attributes Get All Attributes of the given Domain Type



"Return a list of attributes supported by this domain type with their properties."

Parameters

[Try it out](#)

Name

Description

domain * required

string
(path)

{domain}

domain

Name	Description
type * required	
string (path)	{type}
	type
Responses	
	Response content type application/xhtml+xml;v=2.0 ▾
Code	Description
200	Standard response for successful HTTP requests
	Example Value Model
	<pre><?xml version="1.0" encoding="UTF-8"?> <html xmlns="http://www.w3.org/1999/xhtml"> <head> <base href="https://localhost/rw/cfg/"> </head> <body> <div class="state"> <li class="cfg-dt-attribute" title="Name"> Name string 1 false <li class="cfg-dt-attribute" title="Connection"> Connection string 1 </div> </body> </html></pre>
404	The requested page could not be found but may be available again in the future
406	The server can only generate a response that is not accepted by the client

GET

/rw/cfg/{domain}/{type}/instances Get All Instances of the given Domain Type



"Returns a list of instances of a type.
The v=2.1 is supported from RW version 7.2.
The API with v=2.1 supports maximum 10 instances per page."

Parameters

Try it out

Name	Description
domain * required	
string (path)	{domain}
	<input type="text" value="domain"/>
type * required	
string (path)	{type}
	<input type="text" value="type"/>
mark	
string (query)	{index} Starting index of instances. The counter starts from zero. This is supported for v=2.1.
	<input type="text" value="mark"/>
limit	
string (query)	{limit value} Number of elements to retrieve(maximum/default value of limit is 10)
	<input type="text" value="limit"/>

Responses

Response content type

application/xhtml+xml;v=2.0 ▾

Code	Description
200	Standard response for successful HTTP requests

Example Value | Model

```
<?xml version="1.0" encoding="UTF-8"?>

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
```

Code	Description
	<pre><base href="https://localhost/rw/cfg/"> </head> <body> <div class="state"> <li class="cfg-dt-instance" title="Virtual"> true 1147824988 <li class="cfg-ia-t" title="Name"> Virtual <li class="cfg-ia-t" title="Connection"> SIM <li class="cfg-ia-t" title="Label"> <li class="cfg-ia-t" title="Address"> 2 </pre>

404

The requested page could not be found but may be available again in the future

406

The server can only generate a response that is not accepted by the client

GET

/rw/cfg/{domain}/{type}/instances
 /{instance name | instance id}

Get CFG instance



"Return the attributes and their corresponding values of the given instance."

Parameters

[Try it out](#)

Name	Description
domain * required	
string (path)	{domain}
	<input type="text" value="domain"/>
type * required	
string (path)	{type}
	<input type="text" value="type"/>

Name	Description
instance name instance id * required	{instance name instance id}
string (path)	instance name instance id
Responses	Response content type
	application/xhtml+xml;v=2.0 ▾
Code	Description
200	<p>Standard response for successful HTTP requests</p> <p>Example Value Model</p> <pre><?xml version="1.0" encoding="UTF-8"?> <html xmlns="http://www.w3.org/1999/xhtml"> <head> <base href="https://localhost/rw/cfg/"> </head> <body> <div class="state"> <li class="cfg-dt-instance" title="sis"> true 1147824980 <li class="cfg-ia-t" title="name"> SIS <li class="cfg-ia-t" title="desc"> Service Info System </div> </body> </html></pre>
404	The requested page could not be found but may be available again in the future
406	The server can only generate a response that is not accepted by the client

OPTIONS/rw/cfg/{domain}/{type}/instances
/{instance name | instance id}

Get Forms



"Get a list of actions that can be performed on the CFG domain type instance."

Parameters**Try it out**

Name	Description
------	-------------

domain * required

string
(path)

domain

type * required

string
(path)

type

instance name

| instance
id * required

string
(path)

instance name | instance id

Responses

Response content type

application/xhtml+xml;v=2.0 ▾

Code	Description
------	-------------

200

Standard response for successful HTTP requests

Example Value | Model

```
<?xml version="1.0" encoding="UTF-8"?>

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost/rw/cfg/">
  </head>
  <body>
    <div class="state">
      <form id="delete" method='delete' action="sys/PRESENT_OPTIONS/instances/sis">
        </form>
      <form id="set" method='post' action="sys/PRESENT_OPTIONS/instances/sis">
        <input type="text" name="Name" />
    
```

Code	Description
	<pre><input type="text" name="Connection" /> <input type="text" name="Label" /> <input type="text" name="Address" /> <input type="text" name="CfgPath" /> <input type="text" name="BaudRate" /> <input type="text" name="SubnetMask" /> <input type="text" name="Gateway" /> <input type="text" name="StationName" /> <input type="text" name="Simulated" /> <input type="text" name="NestedDiagnosis" /> </form> </div> </body></pre>

406

The server can only generate a response that is not accepted by the client

POST

/rw/cfg/{domain}/{type}/instances
 /{instance name | instance id}

Update CFG Instance



"Update/set attribute value of CFG instance."

Parameters

[Try it out](#)

Name	Description
domain * required	
string (path)	{domain}
	<input type="text" value="domain"/>
type * required	
string (path)	{type}
	<input type="text" value="type"/>
instance name instance id * required	{instance name instance id}
string (path)	<input type="text" value="instance name instance id"/>
request-body	Data parameter(s)
object (body)	Example Value Model
	<pre>{attribute name}=string</pre>

Name	Description
	<p>Parameter content type application/x-www-form-urlencoded;v=2.0 ▾</p>
Responses	Response content type application/json ▾
Code	Description
204	The request has been successfully processed, but is not returning any content
400	The request cannot be fulfilled due to bad syntax
415	The server will not accept the request, because the media type is not supported

DELETE /rw/cfg/{domain}/{type}/instances/{instance name | instance id} Delete CFG Instance ^

"Delete a CFG instance."

Parameters Try it out

Name	Description
domain * required	{domain}
string (path)	domain
type * required	{type}
string (path)	type

Name	Description
instance name	
 instance id * required	{instance name instance id}
string (path)	instance name instance id
Responses	Response content type
	application/xhtml+xml;v=2.0 ▾
Code	Description
204	The request has been successfully processed, but is not returning any content
406	The server can only generate a response that is not accepted by the client

POST	/rw/cfg/{domain}/reset Reset CFG Domain	▲
"Remove all external instances in a CFG domain."		
Parameters	Try it out	
Name	Description	
domain * required		
string (path)	{domain}	
	domain	
Responses	Response content type	application/json ▾
Code	Description	

Code	Description
204	The request has been successfully processed, but is not returning any content
400	The request cannot be fulfilled due to bad syntax
415	The server will not accept the request, because the media type is not supported

OPTIONS /rw/cfg/{domain}/reset Get Forms ^

"Get a list of actions that can be performed on the CFG domain reset resource. CFG Mastership is handled internally if not explicit is held by the client."

Parameters **Try it out**

Name	Description
domain * required string (path)	{domain}

Responses Response content type application/xhtml+xml;v=2.0 ▼

Code	Description
200	Standard response for successful HTTP requests

Example Value | Model

```
<?xml version="1.0" encoding="UTF-8"?>

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost/rw/cfg/">
  </head>
```

Code	Description
406	<pre><body> <div class="state"> <form name="reset" method='post' action="sio/reset"> </form> </div> </body> </html></pre> <p>The server can only generate a response that is not accepted by the client</p>

POST /rw/cfg/{domain}/saveas Save CFG Domain ^

"Save the CFG domain to the given file."

Parameters **Try it out**

Name	Description
domain * required string (path)	{domain}

domain

Responses Response content type application/json ▼

Code	Description
204	The request has been successfully processed, but is not returning any content
400	The request cannot be fulfilled due to bad syntax
401	The request was a legal request, but the server is refusing to respond to it. For use when authentication is possible but has failed or not yet been provided

Code	Description
403	The request was a legal request, but the server is refusing to respond to it
415	The server will not accept the request, because the media type is not supported

OPTIONS
/rw/cfg/{domain}/saveas Get Forms
^

"Get a list of actions that can be performed on the CFG domain saveas resource.
CFG Mastership is handled internally if not explicit is held by the client."

Parameters
Try it out

Name	Description
domain * required	{domain}
string (path)	domain

Responses
Response content type
application/xhtml+xml;v=2.0 ▾

Code	Description
200	Standard response for successful HTTP requests

Example Value | Model

```
<?xml version="1.0" encoding="UTF-8"?>

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost/rw/cfg/">
  </head>
  <body>
    <div class="state">
      <form id="saveas" method='post' action="sio/saveas">
        <input type="text" name="filepath"/>
      </form>
    </div>
  </body>
</html>
```

Code	Description
	</body> </html>
406	The server can only generate a response that is not accepted by the client

POST /rw/cfg/{domain}/{type}/instances/reset Reset CFG Instances ^

""

Parameters Try it out

Name	Description
domain * required	{domain}
string (path)	<input type="text" value="domain"/>
type * required	{type}
string (path)	<input type="text" value="type"/>

Responses Response content type application/json ▾

Code	Description
204	The request has been successfully processed, but is not returning any content
400	The request cannot be fulfilled due to bad syntax
415	The server will not accept the request, because the media type is not supported

OPTIONS
/rw/cfg/{domain}/{type}/instances/reset Get Forms
^

"Get a list of actions that can be performed on the CFG domain type instances reset."

Parameters
Try it out

Name	Description
domain * required string (path)	{domain}
	domain
type * required string (path)	{type}
	type

Responses
Response content type
application/xhtml+xml;v=2.0 ▾

Code	Description
200	Standard response for successful HTTP requests

Example Value | Model

Code**Description**

```
<?xml version="1.0" encoding="UTF-8"?>

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost/rw/cfg/">
  </head>
  <body>
    <div class="state">
      <form action="eio/INDUSTRIAL_NETWORK/instances/reset" id="reset" method="post">
        </div>
    </body>
  </html>
```

406

The server can only generate a response that is not accepted by the client

POST[/rw/cfg/{domain}/{type}/instances/create-default](#) Create Default CFG Instance

"Create Default CFG Instance. Location header instances/{instancename} will be returned after successful completion of the API.

The accept header v=2.0 is supported from RW version 7.6.

The API with v=2.0 will provide Id and name of the created instance.

Location header instances/{instanceId} will be returned after successful completion of the API, from RW version 7.8."

Parameters**Try it out****Name****Description****domain * required****string****(path)**

{domain}

domain

type * required**string****(path)**

{type}

type

request-body**object****(body)**

Data parameter(s)

[Example Value](#) | [Model](#)

name:string

Name**Description**

Parameter content type

application/x-www-form-urlencoded;v=2.0 ▾

Responses**Response content type**

application/xhtml+xml;v=2.0 ▾

Code**Description**

201

The request has been fulfilled, and a new resource is created

Example Value | Model

```
<?xml version="1.0" encoding="UTF-8"?>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<base href="https://localhost/rw/cfg/">
</head>
<body>
<div class="state">
<a href="MOC/JOG_PARAMETERS/instances/create-default" rel="self"/>
<ul>
<li class="cfg-create-default" title="create-default">
<span class="instancename">testinstance</span>
<span class="instanceid">276006608</span>
</li>
</ul>
</div>
</body>
</html>
```

400

The request cannot be fulfilled due to bad syntax

415

The server will not accept the request, because the media type is not supported

OPTIONS

/rw/cfg/{domain}/{type}/instances/create-

Get Forms

**CFG Service****GET**

of actions that can be performed on the CFG domain type instances create."

**Parameters**

List the names of all the available domains in the CFG subsystem and provide links to get to their detailed information."

Try it out

The resource can be subscribed (CFG Change Count) using /subscription with resource uri /rw/cfg

Sample response for Configuration Change Count subscription

```
<?xml version="1.0" encoding="utf-8"?>
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost:443/">
  </head>
  <body>
    <div class="state">
      <a href="subscription/1" rel="group"></a>
      {type}
      <ul>
        <li class="cfg-prop-ev" title="change-count">
          type <a href="/rw/cfg" rel="self"></a>
          <span class="cc">6757</span>
        </li>
      </ul>
    </div>
  </body>
</html>
```

Responses

Response content type

application/xhtml+xml;v=2.0 ▾

Parameters

Code

Description

Try it out

200 parameters

Standard response for successful HTTP requests

Example Value | Model

Responses

```
<?xml version="1.0" encoding="UTF-8"?>

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost/rw/cfg/">
  </head>
  <body>
    <div class="state">
      <form action="eio/INDUSTRIAL_NETWORK/instances/create-default"
            id="create-default" method="post">
        <input name="name" type="text"/>
      </form>

      <?xml version="1.0" encoding="UTF-8"?>

      <html xmlns="http://www.w3.org/1999/xhtml">
        <head>
          <base href="https://localhost/rw/cfg/">
        </head>
        <body>
          <div class="state">
            <a href="" rel="self" class="cfg"></a>
            <ul>
              <li class="cfg-domain-li" title="EIO">
                <a href="EIO" rel="self"></a>
              </li>
              <li class="cfg-domain-li" title="MMC">
                <a href="MMC" rel="self"></a>
              </li>
              <li class="cfg-domain-li" title="MOC">
                <a href="MOC" rel="self"></a>
              </li>
            </ul>
          </div>
        </body>
      </html>
    </div>
  </body>
</html>
```

Code

200

406

Code	Description
 <li class="cfg-domain-li" title="PROC"> <li class="cfg-domain-li" title="SIO"> 	

406

The server can only generate a response that is not accepted by the client

OPTIONS
/rw/cfg Get Forms
^

"Get a list of actions that can be performed on the CFG subsystem."

Parameters
Try it out

No parameters

Responses
Response content type
application/xhtml+xml;v=2.0 ▾

Code
Description

200 | Standard response for successful HTTP requests |

Example Value
| Model

```
<?xml version="1.0" encoding="UTF-8"?>

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <base href="https://localhost/rw/cfg/" />
  </head>
  <body>
    <div class="state">
      <form id="subscribe" method="post" action="subscription">
        <fieldset class="cfg-change-count-ev">
          <input name="resources" value="1" type="checkbox"/>
          <input class="res" name="1" value="/rw/cfg" maxlength="500" type="text"/>
          <select class="priority" name="1-p">
            <option value="0" selected="selected"/>
            <option value="1"/>
          </select>
        </fieldset>
      </form>
    </div>
  </body>
</html>
```

Code	Description
	</html>
406	The server can only generate a response that is not accepted by the client