

# Node management

Nodes can be managed using [Websocket API](#) or [REST API](#).

## Node creation

New node is created automatically when WCS server, which is not in the database, connects to backend server.

## Node changing

Node parameters can be changed with `/api/node/update` request:

API	Request	Response	Response status

API	Request	Response	Response status
WS API	<pre> SEND destination :/app/api/node/update content-length:121  {   "requestId": "70ed9798-6463-4741-818f-b0b9d7299b6f",   "realm": "/api/node/update",   "payload": {     "id": "2",     "profiles": ["1", "2"]   } } </pre>	<pre> MESSAGE destination :/user/service content-type:application/json; charset=UTF-8 subscription:sub-1 message-id:3-25 content-length:84  {   "requestId": "70ed9798-6463-4741-818f-b0b9d7299b6f",   "status": 200,   "reason": "SUCCESS" } </pre>	200 OK 400 Object not found 500 Persist exception
REST API	<pre> POST: /api/node/update "application/json; charset=utf-8" {   "id": "2",   "profiles": ["1", "2"] } </pre>	<pre> {   "status": 200,   "reason": "SUCCESS" } </pre>	200 OK 400 Object not found 500 Persist exception

Where

- `id` – node identifier

- `profiles` – list of identifiers of profiles defining which metrics are acquired from this node

## Node deletion

A node can be deleted with `/api/node/delete` request:

API	Request	Response	Response status
WS API	<pre>SEND destination :/app/api/node/delete content-length:100  {   "requestId ":"a2d3fd81-4598-41cf-8840-e40770d597b4",   "realm":"/api/node/delete",   "payload":   {     "id":"2"   } }</pre>	<pre>MESSAGE destination :/user/service content-type:application/json; charset=UTF-8 subscription:sub-1 message-id:3-25 content-length:84  {   "requestId ":"a2d3fd81-4598-41cf-8840-e40770d597b4",   "status":200,   "reason":"SUCCESS" }</pre>	200 OK 400 Object not found 500 Persist exception

API	Request	Response	Response status
REST API	<pre>POST: /api/node/delete "application/json; charset=utf-8" {   "id": "2" }</pre>	<pre>{   "status": 200,   "reason": "SUCCESS" }</pre>	200 OK 400 Object not found 500 Persistent exception

Where

- `id` – node identifier

The node monitoring stops when it is deleted.

## Obtaining node information

A node information can be obtained with `/api/node/list` request:

API	Request	Response	Response status

API	Request	Response	Response status
WS API	<pre> SEND destination :/app/api/node/list content-length:98  {   "requestId": "5c809c02-1082-418e-8423-db7dbff9605c",   "realm": "/api/node/list",   "payload": {     "id": "3"   } } </pre>	<pre> MESSAGE destination :/user/service content-type:application/json; charset=UTF-8 subscription:sub-1 message-id:3-28 content-length:143  {   "requestId": "5c809c02-1082-418e-8423-db7dbff9605c",   "status": 200,   "reason": "SUCCESS",   "payload": [     {       "id": 3,        "host": "192.168.1.64",        "profiles": [1]     }   ] } </pre>	200 OK 400 Object not found 500 Persistent exception

API	Request	Response	Response status
REST API	<pre>POST: /api/node/1 ist "applicatio n/json; charset=utf -8" {   "id": "3" }</pre>	<pre>{   "status": 200,   "reason": "SUCCESS",   "payload": [     {       "id": 3,       "host": "192.168.1. 64",       "profiles": [         1       ]     }   ] }</pre>	200 OK 400 Object not found 500 Persist exception

Where

- `id` – node identifier
- `host` - WCS server address
- `profiles` - profiles list

If node Id is set, the response will contain only that node information. If Id is not set, the response will contain list with all the nodes on backend server.

## Obtaining node current state

A node current state can be obtained with `/api/node_status/list` query:

API	Request	Response	Response status

API	Request	Response	Response status
WS API	<pre>SEND destination :/app/api/node_status/ list content-length:105  {   "requestId ":"404ae542 -b729-4b6e- bf28- ef85dc1f863 0",   "realm":"/ api/node_st atus/list",   "payload": {   "id":"3" } }</pre>	<pre>MESSAGE destination :/user/service content-type:application/json; charset=UTF-8 subscription:sub-1 message-id:3-31 content-length:171  {   "requestId ":"404ae542 -b729-4b6e- bf28- ef85dc1f863 0",   "status":200,   "reason":"SUCCESS",   "payload": [   {     "id":3,  "rate":160   } ] }</pre>	200 OK 400 Object not found 500 Persist exception

API	Request	Response	Response status
REST API	<pre>POST: /api/node_status/list "application/json; charset=utf-8" {   "id": "3" }</pre>	<pre>{   "status": 200,   "reason": "SUCCESS",   "payload": [     {       "id": 3,       "rate": 160     }   ] }</pre>	200 OK 400 Object not found 500 Persistent exception

Where

- `id` – node identifier
- `rate` – metrics acquisition rate

If node `id` is set, the response will contain only that node state. If `id` is not set, the response will contain current state of all the nodes on backend server.

If the node is not connected to backend server, or if this node never be connected, the response will be 404 `OBJECT_NOT_FOUND`