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REST Interface Plugin

General

The REST Interface allows access to the [Nodes](#) of CoDaBix® via [HTTP request](#) formatted as an [JSON object](#).

What Does the Plugin Do?

- Read [Nodes](#) (values, optionally historical values, children and [properties](#)) from CoDaBix®.
- Write a new actual value to a specified [Node](#).
- Create a new [Node](#).

e.g. the following HTTP request is reading the [System Nodes](#) Tree of CoDaBix®:

[CoDaBix-Request.js](#)

```
var oIE = WScript.CreateObject("InternetExplorer.Application");
oIE.navigate("about:blank");
var token = oIE.Document.Script.prompt("Enter Token",
"1:QqjkQAtk4hyWRnbTt1+dZdGFCg3QE+nS");

var request;
try {request = new XMLHttpRequest();}
catch (error) {
    try {request = new ActiveXObject("Msxml2.XMLHTTP");}
    catch (error) {
        request = new ActiveXObject("Microsoft.XMLHTTP");
    }
}

request.open("POST", "http://localhost:8181/api/json", false);
request.send('{"tk": "' + token + '", "browse": { "na": "" } }');

WScript.Echo(request.responseText);
```

Features

Supported actions for [Nodes](#):

Action	Description
Reading	Reads the specified Node.
Browsing	Reads the specified Node and the child Nodes.
Writing	Writes a new actual value to the specified Node.

Supported Clients

- HTTP Clients supporting HTTP/1.1 and supporting the JSON format

Purpose & Use Cases

- Easy connection to other systems
- Easy read and write access to the [Nodes](#) of CoDaBix® using any programming language without additional libraries
- Linking of CoDaBix® to existing RESTable Software (e.g. SCADA systems)

Documentation of the RESTful API

You can find the documentation of the REST API of the plugin here:

- [Documentation of the RESTful API](#)

Installation

The REST Interface Plugin is an inherent part of CoDaBix® and does not need to be installed.

Configuration

The REST Interface Plugin currently doesn't provide a configuration.

Diagnostics

The REST Interface Plugin provides a status code for functions for diagnostic purposes - see [Request & Response](#) of the REST API Documentation.

Entities

The REST Interface Plugin does not use the CoDaBix® Entity Model and therefore doesn't provide entities.

Folders & Files

The REST Interface Plugin is an inherent part of CoDaBix® and therefore doesn't consist of additional files or folders.

About Versions

This Document

Date	2017-07-12
Version	1.2

Plugin

Name	REST Interface Plugin
Version	Corresponds to the CoDaBix® Version

Assembly

The REST Interface Plugin is an inherent part of CoDaBix® and therefore doesn't consist of a separate assembly.

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