

RDA-2.0 Data Access Module

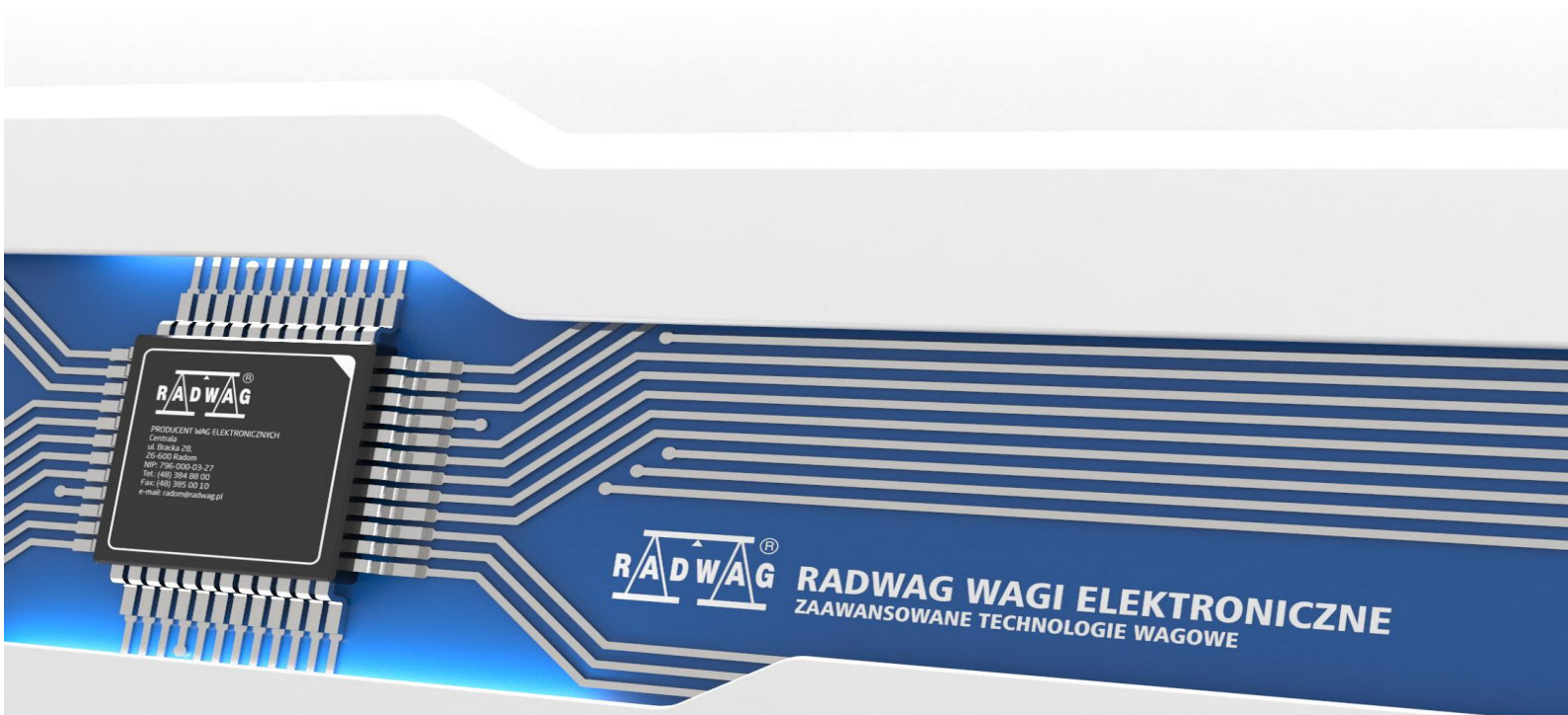
Indicator:

PUE HY 10

PUE 71

This document describes the process of data exchange between external system and weighing indicators. Prior to establishing communication, carry out an initial configuration of the indicator, which is described further down this document.

In order to ensure correct communication it is necessary to use names given in this document and provide data of relevant type.



Versions management

Version	Date	Author	Modifications description
1.0	08.03.2018	Karol Kustra	Document published
1.2	18.09.2018	Jakub Ćwikliński	Integration with 'JSON HY10 Data Exchange Interface' document, expanded section 2 and contents

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1. Indicator Configuration

Prior to establishing connection, configure the indicator. To do this, enter settings in Setup/Devices/Computer/Port - Tcp parameter

	Port	Tcp
	Adres	1
	Transmisja ciągła	
	Wzorzec Wydruku Ważenia	
	E2R System	
	Połącz z serwerem EP	

To enable communication, use license key to unlock access to RDA data. To do it, go to Setup/Misc./Extensions module/RDA data access module. To activate the license follow the displayed prompts.

2. Protocol, Data Format, Connection and Sending Requests

Communication with weighing indicator is established via WebSocket. Use WebSocket to create a connection on 4101 port (by default) and send all data using JSON format.

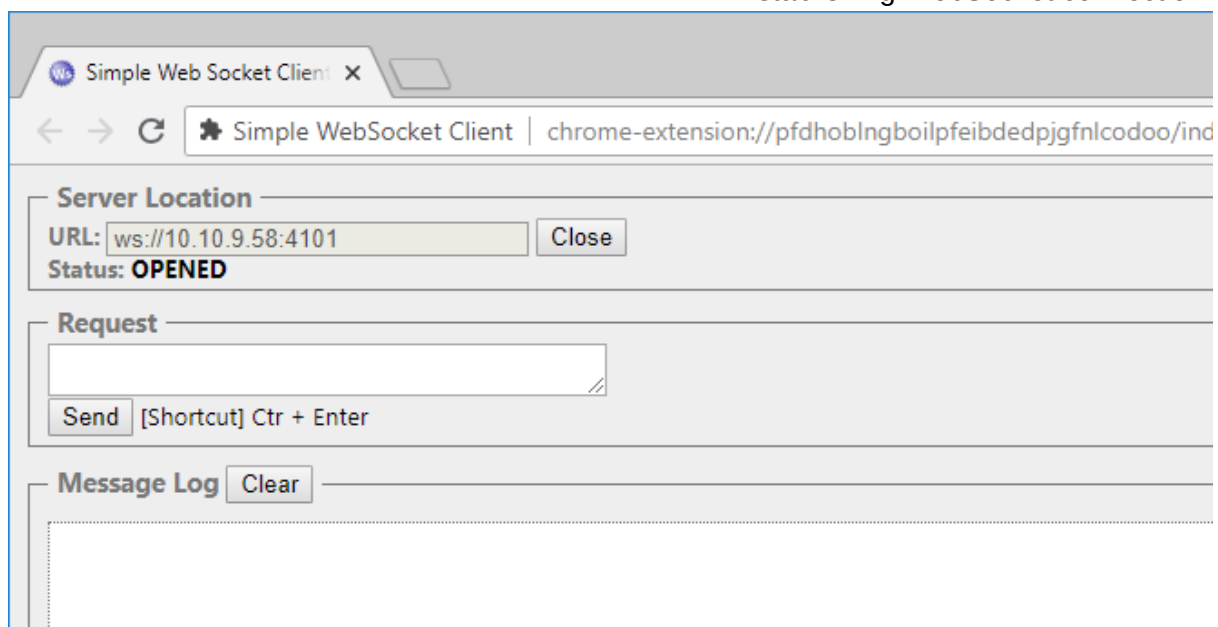
Use WebSocket terminal to establish connection with the weighing instrument. The following example was developed using the *Simple WebSocket Client*, which is a plugin for the *Google Chrome* browser. You can use other types of terminals.

Procedure for sending a request and receiving a response:

1. Enter weighing instrument's IP address and port (by default: 4101) and establish a connection.

URL address used in the example below: <ws://10.10.9.58:4101>

Establishing WebSocket connection:



2. Enter the request. You can use requests contained in this document.

Request used:

```
{
  "COMMAND": "DBINFO",
  "TABLE": "USERS",
  "PARAM": "COLUMNS"
}
```

Entering request:

The screenshot shows the 'Simple Web Socket Client' interface. The 'Server Location' section has a URL field containing 'ws://10.10.9.58:4101' and a 'Close' button. The status is 'OPENED'. The 'Request' section contains a text area with the following JSON object:

```
{  
  "COMMAND": "DBINFO",  
  "TABLE": "USERS",  
  "PARAM": "COLUMNS"  
}
```

Below the text area is a 'Send' button and the text '[Shortcut] Ctr + Enter'. The 'Message Log' section is empty and has a 'Clear' button.

3. Upon sending the request you are provided with a response.

Response:

The screenshot shows the 'Simple Web Socket Client' interface after sending the request. The 'Server Location' and 'Request' sections are the same as in the previous screenshot. The 'Message Log' section now displays the response:

```
{  
  "COMMAND": "DBINFO",  
  "TABLE": "USERS",  
  "PARAM": "COLUMNS"  
}  
{  
  "COMMAND": "DBINFO",  
  "TABLE": "USERS",  
  "PARAM": "COLUMNS",  
  "ID": "ID NAME CODE PSW PERM CARD_NUMBER MODE AUTO_MODE ACTIVE ID_TRACEABILITY SURNAME MIN MAX",  
  "STS": "OK"  
}
```

3. Text Field

To display information window on the weighing indicator, send the following command:

```
{  
  "COMMAND": "SHOW_WINDOW",  
  "PARAM": "MESSAGE_BOX",  
  "MID": "123",  
  "RECORD": {  
    "TITTLE": "Tytuł okna",  
    "TEXT": "Tekst w oknie",  
    "BUTTONS": "OKCANCEL",  
    "IMAGETYPE": "None"  
  }  
}
```

Where:

COMMAND- Main command, in this case: "SHOW_WINDOW",

PARAM- parameter determining which window is to be displayed, in this case: "MESSAGE_BOX".

MID - optional parameter - an identifier enabling pairing queries and responses - duplicated and sent with a response to a given query.

RECORD - object describing displayed window, contains the following fields:

- TITTLE - Window title
- TEXT - Text to be displayed as the main message
- BUTTONS - Displayed buttons
 - OK
 - OKCANCEL
- IMAGETYPE - Image to be displayed next to the window
 - none
 - info
 - warning
 - error
 - question
 - x
 - dateTime
 - sound
 - alphabetic
 - numeric
 - sandglass

Upon receiving a command, the indicator responds with 'QUEUED' status. Upon confirmation in the window, the indicator responds with 'OK' or 'Cancel' status depending on the selected option.

First response:

```
{  
  "COMMAND": "SHOW_WINDOW",  
  "PARAM": "MESSAGE_BOX",  
  "MID": "123",  
  "STS": "QUEUED"  
}
```

Second response, upon command confirmation:

```
{  
  "COMMAND": "SHOW_WINDOW",  
  "PARAM": "MESSAGE_BOX",  
  "MID": "123",  
  "STS": "OK"  
}
```

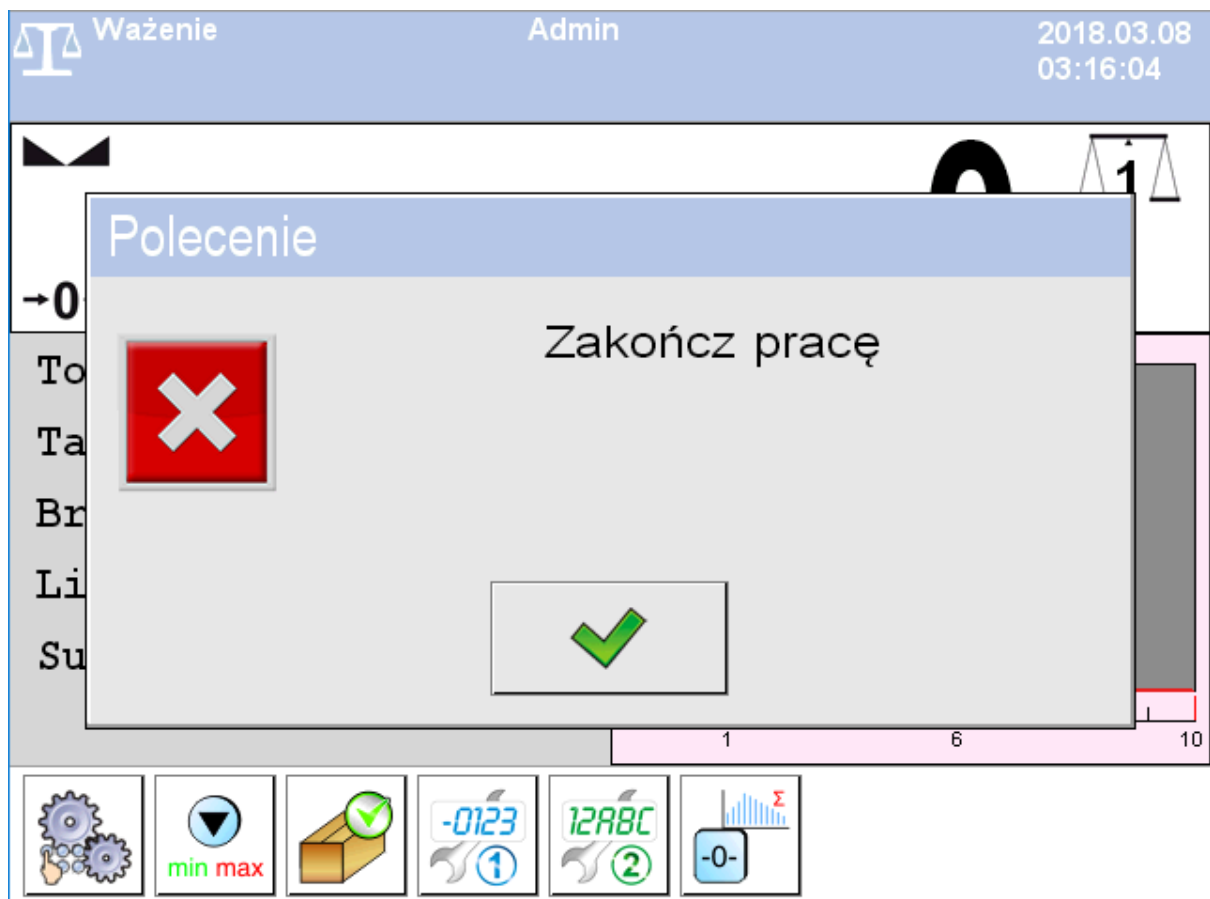


Other example of use:

```
{
  "COMMAND": "SHOW_WINDOW",
  "PARAM": "MESSAGE_BOX",
  "MID": "123",
  "STS": "OK"
}

{
  "COMMAND": "SHOW_WINDOW",
  "PARAM": "MESSAGE_BOX",
  "MID": "123",
  "RECORD": {
    "TITLE": "Command",
    "TEXT": "Finish operation",
    "BUTTONS": "OK",
    "IMAGETYPE": "x"
  }
}

{
  "COMMAND": "SHOW_WINDOW",
  "PARAM": "MESSAGE_BOX",
  "MID": "123",
  "STS": "QUEUED"
}
```



4. Listening - Barcode Scanner

Prior to barcode scanner operation start, barcode scanner parameters must be correctly configured (port, prefix, suffix, etc. - for detailed information refer to user manual). To receive codes sent by the barcode scanner, register as a 'listener' and set barcode scanner type.

```
{  
  "COMMAND": "REGISTER_LISTENER",  
  "PARAM": "DEVICE_BARCODE"  
}
```

Upon correctly carried out registration, the indicator responds:

```
{  
  "COMMAND": "REGISTER_LISTENER",  
  "PARAM": "DEVICE_BARCODE",  
  "STS": "OK"  
}
```

From now on, each time the barcode scanner correctly scans a code (with prefix, suffix, code length, etc. parameters set) its value is sent to each listening broadcast.

```
{  
  "COMMAND": "LISTENER_BROADCAST",  
  "PARAM": "DEVICE_BARCODE",  
  "KEY": "kod_testowy"  
}
```

Caution: The function of code listening does not interfere in further operation of the barcode scanner. In case of matching a code with adequate or other product, respective actions will be taken depending on the barcode scanner settings determined in the weighing indicator.

5. Downloading a List of Available Tables

To download the list of available tables, it is necessary to send correctly formed question.

Request:

```
{  
    "COMMAND": "GET_TABLES",  
}
```

Response:

```
{  
    "COMMAND": "GET_TABLES",  
    "RECORD": [  
        {  
            "NAME": "PRODUCTS",  
            "READ_ONLY": false,  
            "TRANSLATION_EN": "Products",  
            "TRANSLATION_CURRENT": "Towary"  
        },  
        {  
            "NAME": "USERS",  
            "READ_ONLY": false,  
            "TRANSLATION_EN": "Operators",  
            "TRANSLATION_CURRENT": "Operatorzy"  
        },  
        {  
            "NAME": "LABELS",  
            "READ_ONLY": false,  
            "TRANSLATION_EN": "Labels",  
            "TRANSLATION_CURRENT": "Etykiety"  
        },  
        {  
            "NAME": "PACKAGES",  
            "READ_ONLY": false,  
            "TRANSLATION_EN": "Packages",  
            "TRANSLATION_CURRENT": "Opakowania"  
        },  
        {  
            "NAME": "CLIENTS",  
            "READ_ONLY": false,  
            "TRANSLATION_EN": "Customers",  
            "TRANSLATION_CURRENT": "Kontrahenci"  
        },  
        {  
            "NAME": "WAREHOUSES",  
            "READ_ONLY": false,  
            "TRANSLATION_EN": "Warehouses",  
            "TRANSLATION_CURRENT": "Magazyny"  
        },  
        {  
            "NAME": "ADD_VAR",  
            "READ_ONLY": false,  
            "TRANSLATION_EN": "Extra variables",  
            "TRANSLATION_CURRENT": "Zmienne dodatkowe"  
        },  
        {  
            "NAME": "UNIV_VAR",  
            "READ_ONLY": false,  
            "TRANSLATION_EN": "Universal variables",  
        }  
    ]  
}
```

```

        "TRANSLATION_CURRENT": "Zmienne uniwersalne"
    },
    {
        "NAME": "VEHICLES",
        "READ_ONLY": false,
        "TRANSLATION_EN": "Vehicles",
        "TRANSLATION_CURRENT": "Samochody"
    },
    {
        "NAME": "WEIGHMENTS",
        "READ_ONLY": false,
        "TRANSLATION_EN": "Weighing records",
        "TRANSLATION_CURRENT": "Ważenia"
    }
],
"STS": "OK"
}

```

6. Information about a Table - Basic Data

Example: Users table

Request:

```
{  
  "COMMAND": "DBINFO",  
  "TABLE": "USERS",  
  "PARAM": "COLUMNS"  
}
```

Response:

```
{  
  "COMMAND": "DBINFO",  
  "TABLE": "USERS",  
  "COLUMNS": "ID NAME CODE PSW PERM CARD_NUMBER MODE AUTO_MODE ACTIVE ID_WORKFLOW  
SURNAME MIN MAX",  
  "STS": "OK"  
}
```

7. Information about a Table - Detailed Data

Example: Users table

Request:

```
{
  "COMMAND": "DBINFO",
  "TABLE": "USERS",
  "PARAM": "COLUMNS_DETAILS"
}
```

Response:

```
{
  "COMMAND": "DBINFO",
  "TABLE": "USERS",
  "COLUMNS_DETAILS": [
    {
      "NAME": "ID",
      "TYPE": "INT",
      "MIN": "",
      "MAX": "",
      "DETAILS_EN": null,
      "DETAILS_CURRENT": null,
      "DEFAULT": "",
      "TRANSLATION_EN": "ID",
      "TRANSLATION_CURRENT": "ID"
    },
    {
      "NAME": "NAME",
      "TYPE": "TEXT",
      "MIN": "",
      "MAX": "",
      "DETAILS_EN": null,
      "DETAILS_CURRENT": null,
      "DEFAULT": "",
      "TRANSLATION_EN": "Name",
      "TRANSLATION_CURRENT": "Nazwa"
    },
    {
      "NAME": "CODE",
      "TYPE": "TEXT",
      "MIN": "",
      "MAX": "",
      "DETAILS_EN": null,
      "DETAILS_CURRENT": null,
      "DEFAULT": "",
      "TRANSLATION_EN": "Code",
      "TRANSLATION_CURRENT": "Kod"
    },
    {
      "NAME": "PSW",
      "TYPE": "PASSWORD",
      "MIN": "",
      "MAX": "",
      "DETAILS_EN": null,
      "DETAILS_CURRENT": null,
      "DEFAULT": ""
    }
  ]
}
```

```

        "TRANSLATION_EN": "Password",
        "TRANSLATION_CURRENT": "Hasło"
    },
    {
        "NAME": "PERM",
        "TYPE": "ENUM",
        "MIN": "0",
        "MAX": "3",
        "DETAILS_EN": "None|Operator|Advanced Operator|Administrator",
        "DETAILS_CURRENT": "Brak|Operator|Operator  
Zaawansowany|Administrator",
        "DEFAULT": "3",
        "TRANSLATION_EN": "Access level",
        "TRANSLATION_CURRENT": "Uprawnienia"
    },
    {
        "NAME": "CARD_NUMBER",
        "TYPE": "TEXT",
        "MIN": "",
        "MAX": "",
        "DETAILS_EN": null,
        "DETAILS_CURRENT": null,
        "DEFAULT": "",
        "TRANSLATION_EN": "Card number",
        "TRANSLATION_CURRENT": "Numer karty"
    },
    {
        "NAME": "MODE",
        "TYPE": "ENUM",
        "MIN": "0",
        "MAX": "17",
        "DETAILS_EN": "Weighing|Parts counting  
|Deviations|PGC|Comparator|Vibratory Batcher|Vehicle scale|Dosing  
|Weighing animals|Mass  
control|Density|Formulations|Interactive|PGC|None|SQC|Transactions|  
Formulation orders",
        "DETAILS_CURRENT": "Ważenie|Liczenie  
sztuk|Odchyłki|KTP|Komparator|Dozownik Wibracyjny|Waga  
samochodowa|Dozowanie|Ważenie zwierząt|Kontrola  
masy|Gęstość|Receptury|Interaktywny|KTP|Brak|SQC|Transakcje|Zleceni  
a receptur",
        "DEFAULT": "14",
        "TRANSLATION_EN": "Change working mode",
        "TRANSLATION_CURRENT": "Zmień mod pracy"
    },
    {
        "NAME": "AUTO_MODE",
        "TYPE": "ENUM",
        "MIN": "0",
        "MAX": "1",
        "DETAILS_EN": "No|Yes",
        "DETAILS_CURRENT": "Nie|Tak",
        "DEFAULT": "0",
        "TRANSLATION_EN": "Automatically",
        "TRANSLATION_CURRENT": "Automatycznie"
    },
    {
        "NAME": "ACTIVE",
        "TYPE": "ENUM",
        "MIN": "0",
        "MAX": "1",
        "DETAILS_EN": "No|Yes",
        "DETAILS_CURRENT": "Nie|Tak",

```

```

        "DEFAULT": "1",
        "TRANSLATION_EN": "Active account",
        "TRANSLATION_CURRENT": "Konto aktywne"
    },
    {
        "NAME": "ID_WORKFLOW",
        "TYPE": "DB_IDENT",
        "MIN": "",
        "MAX": "",
        "DETAILS_EN": "WORKFLOW",
        "DETAILS_CURRENT": "WORKFLOW",
        "DEFAULT": "WORKFLOW",
        "TRANSLATION_EN": "Workflow",
        "TRANSLATION_CURRENT": "Proces identyfikacji"
    },
    {
        "NAME": "SURNAME",
        "TYPE": "TEXT",
        "MIN": "",
        "MAX": "",
        "DETAILS_EN": null,
        "DETAILS_CURRENT": null,
        "DEFAULT": "",
        "TRANSLATION_EN": "Name and surname",
        "TRANSLATION_CURRENT": "Imię i nazwisko"
    },
    {
        "NAME": "MIN",
        "TYPE": "NUMERIC",
        "MIN": "",
        "MAX": "",
        "DETAILS_EN": null,
        "DETAILS_CURRENT": null,
        "DEFAULT": "",
        "TRANSLATION_EN": "Min",
        "TRANSLATION_CURRENT": "Min"
    },
    {
        "NAME": "MAX",
        "TYPE": "NUMERIC",
        "MIN": "",
        "MAX": "",
        "DETAILS_EN": null,
        "DETAILS_CURRENT": null,
        "DEFAULT": "",
        "TRANSLATION_EN": "Max",
        "TRANSLATION_CURRENT": "Max"
    }
],
"STS": "OK"
}

```

8. Information about a Table - Records Quantity

Example: Users table

Request:

```
{  
  "COMMAND": "DBINFO",  
  "TABLE": "USERS",  
  "PARAM": "COUNT"  
}
```

Response:

```
{  
  "COMMAND": "DBINFO",  
  "TABLE": "USERS",  
  "COUNT": "4",  
  "STS": "OK"  
}
```


9. Downloading Records

Example: Users table

Request:

```
{
  "COMMAND": "DBREADRANGE",
  "TABLE": "USERS",
  "KEY": "1,4"
}
```

//CAUTION – in a single request concerning records range the maximum records quantity should be 100 records

Response:

```
{
  "COMMAND": "DBREADRANGE",
  "TABLE": "USERS",
  "RECORD": [
    {
      "ID": "1",
      "NAME": "Administrator",
      "CODE": "1",
      "PSW": "1",
      "PERM": "4",
      "CARD_NUMBER": "0001015213022101",
      "MODE": "15",
      "AUTO_MODE": "1",
      "ACTIVE": "2",
      "ID_WORKFLOW": "0",
      "SURNAME": "",
      "MIN": "0",
      "MAX": "0"
    },
    {
      "ID": "3",
      "NAME": "Standardowy123",
      "CODE": "3333",
      "PSW": "1",
      "PERM": "2",
      "CARD_NUMBER": "0076000114013185",
      "MODE": "15",
      "AUTO_MODE": "1",
      "ACTIVE": "2",
      "ID_WORKFLOW": "0",
      "SURNAME": "",
      "MIN": "0",
      "MAX": "0"
    },
    {
      "ID": "2",
      "NAME": "Zaawansowany",
      "CODE": "2",
      "PSW": "1",
      "PERM": "3",
      "CARD_NUMBER": "0005000146024067",
      "MODE": "15",
      "AUTO_MODE": "1",
      "ACTIVE": "2",
      "ID_WORKFLOW": "0",
    }
  ]
}
```

```

        "SURNAME": "",
        "MIN": "0",
        "MAX": "0"
    },
    {
        "ID": "5",
        "NAME": "testowy",
        "CODE": "",
        "PSW": "",
        "PERM": "1",
        "CARD_NUMBER": "",
        "MODE": "15",
        "AUTO_MODE": "1",
        "ACTIVE": "2",
        "ID_WORKFLOW": "0",
        "SURNAME": "",
        "MIN": "0",
        "MAX": "0"
    }
],
"COUNT": "4",
"STS": "OK"
}

```

10. Records Editing

Example: Users table

KEY_COLUMN = NAME or CODE or ID (Unless a given column is not in a given table)

Request:

```
{
  "COMMAND": "DBEDIT",
  "TABLE": "USERS",
  "KEY_COLUMN": "ID",
  "KEY": "5",
  "RECORD": {
    "ID": "5",
    "NAME": "Test",
    "CODE": "",
    "PSW": "",
    "PERM": "1",
    "CARD_NUMBER": "",
    "MODE": "15",
    "AUTO_MODE": "1",
    "ACTIVE": "2",
    "ID_WORKFLOW": "0",
    "SURNAME": "",
    "MIN": "0",
    "MAX": "0"
  }
}
```

Response:

```
{
  "COMMAND": "DBEDITID",
  "TABLE": "USERS",
  "KEY": "5",
  "STS": "OK"
}
```

11. Adding a New Record

Example: Users table

Request:

```
{
  "COMMAND": "DBADD",
  "TABLE": "USERS",
  "RECORD": {
    "NAME": "New"
  }
}
```

Response:

```
{
  "COMMAND": "DBADD",
  "TABLE": "USERS",
  "RECORD": {
    "ID": "7",
    "NAME": "New",
    "CODE": "",
    "PSW": "",
    "PERM": "1",
    "CARD_NUMBER": "",
    "MODE": "15",
    "AUTO_MODE": "1",
    "ACTIVE": "2",
    "ID_WORKFLOW": "0",
    "SURNAME": "",
    "MIN": "0",
    "MAX": "0"
  },
  "STS": "OK"
}
```

12. Record Setting/Selection

Example: Users table

Possible selection by column:

KEY_COLUMN = NAME or CODE or ID (Unless a given column is not in a given table)

Request:

```
{  
  "COMMAND": "DBSELECT",  
  "TABLE": "USERS",  
  "KEY": "New",  
  "KEY_COLUMN": "NAME"  
}
```

Response:

```
{  
  "COMMAND": "DBSELECT",  
  "TABLE": "USERS",  
  "STS": "OK"  
}
```

13. Record Deletion

Example: Users table

Possible selection by column:

KEY_COLUMN = NAME or CODE or ID (Unless a given column is not in a given table)

Request:

```
{  
  "COMMAND": "DBDEL",  
  "TABLE": "USERS",  
  "KEY_COLUMN": "ID",  
  "KEY": "7"  
}
```

Response:

```
{  
  "COMMAND": "DBDELID",  
  "TABLE": "USERS",  
  "KEY": "7",  
  "STS": "OK"  
}
```

14. Balance/Scale Status Readout

Request:

```
{
  "COMMAND": "GET_STATUS"
}
```

Response:

```
{
  "Product": {
    "id": "",
    "name": "",
    "code": "",
    "guid": "",
    "count": null
  },
  "Operator": {
    "id": "",
    "name": "",
    "code": "",
    "guid": "",
    "count": null
  },
  "Client": {
    "id": "",
    "name": "",
    "code": "",
    "guid": "",
    "count": null
  },
  "Warehouse_Dest": {
    "id": "",
    "name": "",
    "code": "",
    "guid": "",
    "count": null
  },
  "Packages": [
  ],
  "Warehouse_Source": {
    "id": "",
    "name": "",
    "code": "",
    "guid": "",
    "count": null
  },
  "WorkModeCurrent": "Ważenie",
  "WorkModeEN": "Weighing",
  "Batch_Number": "",
  "Lot_Number": "",
  "Min": 95,
  "Min2": 0,
  "Max": 105,
  "Max2": 0
}
```

15. Mass Readout

Request:

```
{  
  "COMMAND": "GET_MASS"  
}
```

Response:

```
{  
  "NetAct": {  
    "Value": "78",  
    "Unit": "g"  
  },  
  "NetCal": {  
    "Value": "78",  
    "Unit": "g"  
  },  
  "Tare": "0",  
  "Range": "",  
  "Max": 3009,  
  "isStab": true,  
  "isTare": false,  
  "isZero": false,  
  "PlatformIndex": 0  
}
```


16. Single Record Download

Request:

```
{  
  "COMMAND": "DBREADID",  
  "TABLE": "CLIENTS",  
  "KEY": "Radwag",  
  "KEY_COLUMN": "NAME"  
}
```

Response:

```
{  
  "COMMAND": "DBREADID",  
  "TABLE": "CLIENTS",  
  "KEY": "Radwag",  
  "KEY_COLUMN": "NAME",  
  "RECORD": {  
    "ID": "1",  
    "NAME": "Radwag",  
    "CODE": "1",  
    "TAX_ID": "",  
    "ADDRESS": "",  
    "POSTAL_CODE": "",  
    "CITY": "",  
    "DISCOUNT": "0",  
    "ID_LABEL": "0"  
  },  
  "STS": "OK"  
}
```

17. Example of Use

In the below example, few records will be created and selected: operator, customer and two products.

Requests:

```
{
  "COMMAND": "DBADD",
  "TABLE": "PRODUCTS",
  "RECORD": {
    "NAME": "Sample product 1"
  }
}
{
  "COMMAND": "DBADD",
  "TABLE": "PRODUCTS",
  "RECORD": {
    "NAME": "Sample product 2"
  }
}
{
  "COMMAND": "DBADD",
  "TABLE": "USERS",
  "RECORD": {
    "NAME": "Sample User 1",
    "PSW": "123"
  }
}
{
  "COMMAND": "DBADD",
  "TABLE": "CLIENTS",
  "RECORD": {
    "NAME": "Sample client 1"
  }
}
{
  "COMMAND": "DBSELECT",
  "TABLE": "CLIENTS",
  "KEY": "Sample client 1",
  "KEY_COLUMN": "NAME"
}
{
  "COMMAND": "DBSELECT",
  "TABLE": "USERS",
  "KEY": "Sample User 1",
  "KEY_COLUMN": "NAME"
}
{
  "COMMAND": "DBSELECT",
  "TABLE": "PRODUCTS",
  "KEY": "Sample product 2",
  "KEY_COLUMN": "NAME"
}
```

Downloading weighings performed using balance/scale.

Request:

```
{
  "COMMAND": "DBINFO",
  "TABLE": "WEIGHMENTS",
  "PARAM": "COUNT"
}
```

Response:

```
{
  "COMMAND": "DBINFO",
  "TABLE": "WEIGHMENTS",
  "COUNT": "3",
  "STS": "OK"
}
```

Request:

```
{
  "COMMAND": "DBREADRANGE",
  "TABLE": "WEIGHMENTS",
  "KEY": "1,3"
}

{
  "COMMAND": "DBREADRANGE",
  "TABLE": "WEIGHMENTS",
  "RECORD": [
    {
      "ID": "5",
      "TIME": "2017-11-21 09:28:01",
      "MASS_CAL": "11 g",
      "MASS_ACT": "11 g",
      "TARE": "0 g",
      "PLATFORM": "1",
      "CHECKWEIGHING": "0",
      "ID_USER": "1",
      "ID_PRODUCT": "3",
      "ID_CLIENT": "2",
      "ID_VEHICLE": "1",
      "ID_PACKAGE": "0",
      "ID_WH_DEST": "0",
      "ID_WH_SOURCE": "2",
      "LOT": "",
      "BATCH": "",
      "COUNTER_ST": "0",
      "COUNTER_USER": "0",
      "REF_MASS": "0 g",
      "UNIT_MASS": "0 g",
      "PRICE": "0 ",
      "VAT": "0",
      "DISCOUNT": "0",
      "VALUE": "--- ",
      "VAR1": "",
      "VAR2": "",
      "VAR3": "",
      "MIN": "9",
      "MAX": "11",
      "MIN2": "0",
      "MAX2": "0"
    },
    {
      "ID": "3",
```

```

"TIME": "2017-11-21 09:27:00",
"MASS_CAL": "30 g",
"MASS_ACT": "30 g",
"TARE": "0 g",
"PLATFORM": "1",
"CHECKWEIGHING": "0",
"ID_USER": "1",
"ID_PRODUCT": "2",
"ID_CLIENT": "2",
"ID_VEHICLE": "1",
"ID_PACKAGE": "0",
"ID_WH_DEST": "0",
"ID_WH_SOURCE": "2",
"LOT": "",
"BATCH": "",
"COUNTER_ST": "0",
"COUNTER_USER": "0",
"REF_MASS": "0 g",
"UNIT_MASS": "0 g",
"PRICE": "0 ",
"VAT": "0",
"DISCOUNT": "0",
"VALUE": "--- ",
"VAR1": "",
"VAR2": "",
"VAR3": "",
"MIN": "28.95",
"MAX": "33.05",
"MIN2": "0",
"MAX2": "0"
},
{
  "ID": "1",
  "TIME": "2017-11-21 09:26:18",
  "MASS_CAL": "154 g",
  "MASS_ACT": "154 g",
  "TARE": "0 g",
  "PLATFORM": "1",
  "CHECKWEIGHING": "0",
  "ID_USER": "1",
  "ID_PRODUCT": "1",
  "ID_CLIENT": "2",
  "ID_VEHICLE": "1",
  "ID_PACKAGE": "0",
  "ID_WH_DEST": "0",
  "ID_WH_SOURCE": "2",
  "LOT": "",
  "BATCH": "",
  "COUNTER_ST": "0",
  "COUNTER_USER": "0",
  "REF_MASS": "0 g",
  "UNIT_MASS": "0 g",
  "PRICE": "0 ",
  "VAT": "0",
  "DISCOUNT": "0",
  "VALUE": "--- ",
  "VAR1": "",
  "VAR2": "",
  "VAR3": "",
  "MIN": "151.5",
  "MAX": "168.5",
  "MIN2": "0",
  "MAX2": "0"
}

```

```
    }  
    1,  
    "COUNT": "3",  
    "STS": "OK"  
}
```