



RADWAG BALANCES AND SCALES
ADVANCED WEIGHING TECHNOLOGIES



RADWAG Development System

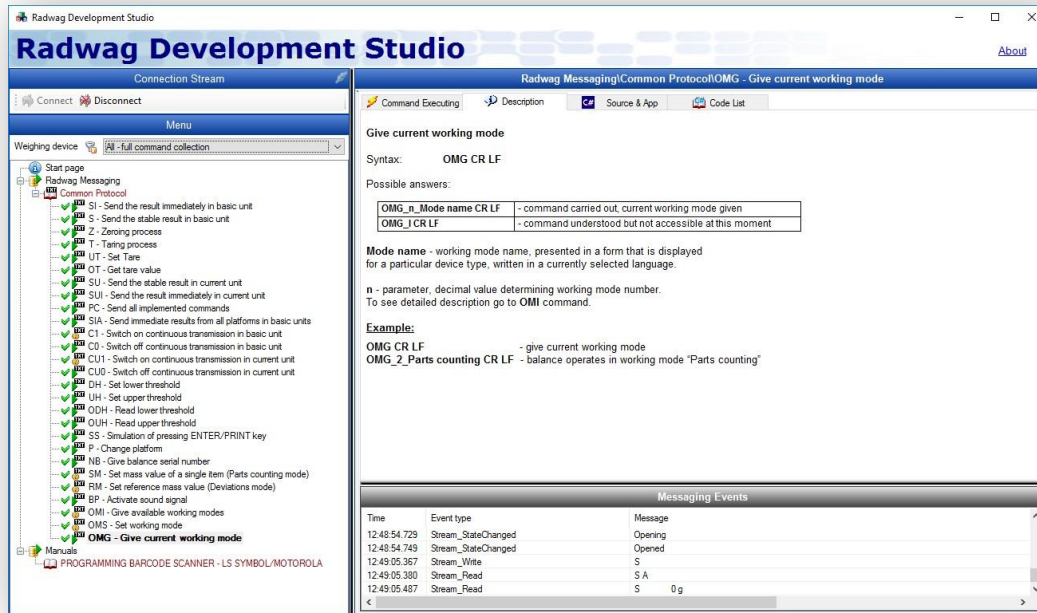
Learn about the convenience and possibilities offered by
development environment of RADWAG

General information

RADWAG Development Studio is a new program intended for software developers employed by companies using **RADWAG-manufactured** weighing equipment.

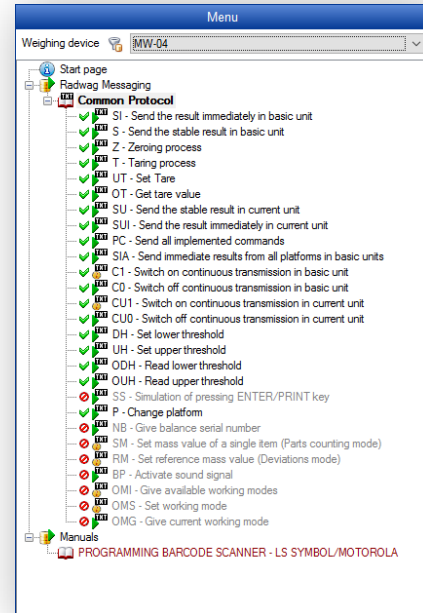
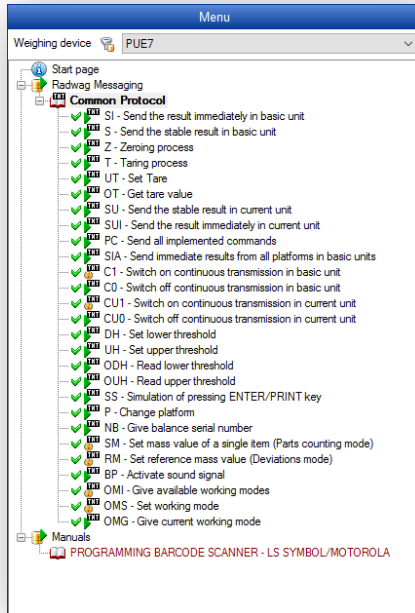


Common Communication Protocol



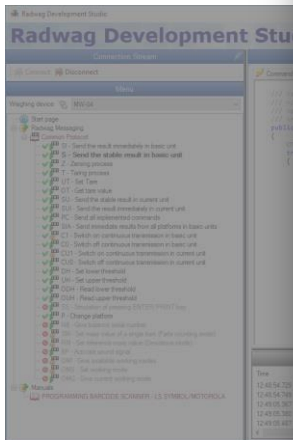
The aim of this software is to present functions (and subfunctions) of **Common Communication Protocol** used for communication with **RADWAG** weighing instruments.

Common Communication Protocol



These functions can be presented with reference to particular weighing instrument models.

Source Code



```
Radwag Messaging\Common Protocol\S - Send the stable result in basic unit
Command Executing Description Source & App Code List

/// <summary>Execute command: S - Get the stable result in basic unit.
/// </summary>
/// <param name="stream">Connection channel of weighing device.</param>
/// <returns>Return complex state result.</returns>
public static CMPCompletion ExecuteCommand_S(Stream stream)
{
    CMPCompletion result = new CMPCompletion();
    try
    {
        // sending request command and wait for response
        // waiting 5s for stable weight
        result.RequestCommand = EnsureCommandsCompletion("S");
        string response = SendRequestWaitForResponse(stream, result.RequestCommand, "S ", 5000);

        // exiting if response is not expected
        if (string.IsNullOrEmpty(response)) return result;
        result.ResponseList.Add(response);

        // getting response status
        result.ResponseLastState = CMPResponseHelper.GetResponseState(response);

        // checking response status
        if (result.ResponseLastState == CMPResponseState.Ok_A_StartAsync)
        {
            // waiting for the next response, witch long time e.g. 5 sec.
            response = CMPProtocolExecutor.WaitForResponse(stream, 5000);
            result.ResponseList.Add(response);

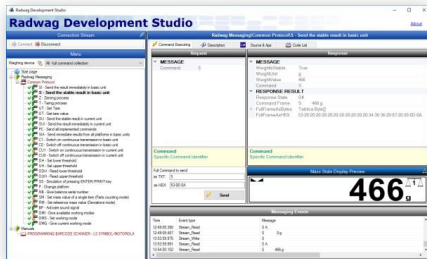
            // checking expected response syntax
            if (!CMPProtocolExecutor.ResponseIsCommandOf(response, "S ")) return result;
        }
    }
}
```

Description of each function contains source code that is ready for copying and implementing in new applications.

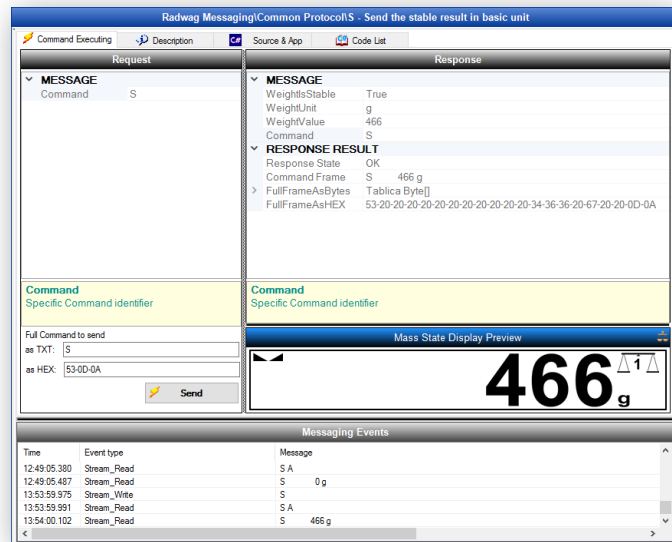
Communication with the Weighing Instrument

Possibility to connect RDS with balance or scale and to carry out each described function and to carry out each described function

Presenting data packets in form of bytes, in a hexadecimal form and as text.

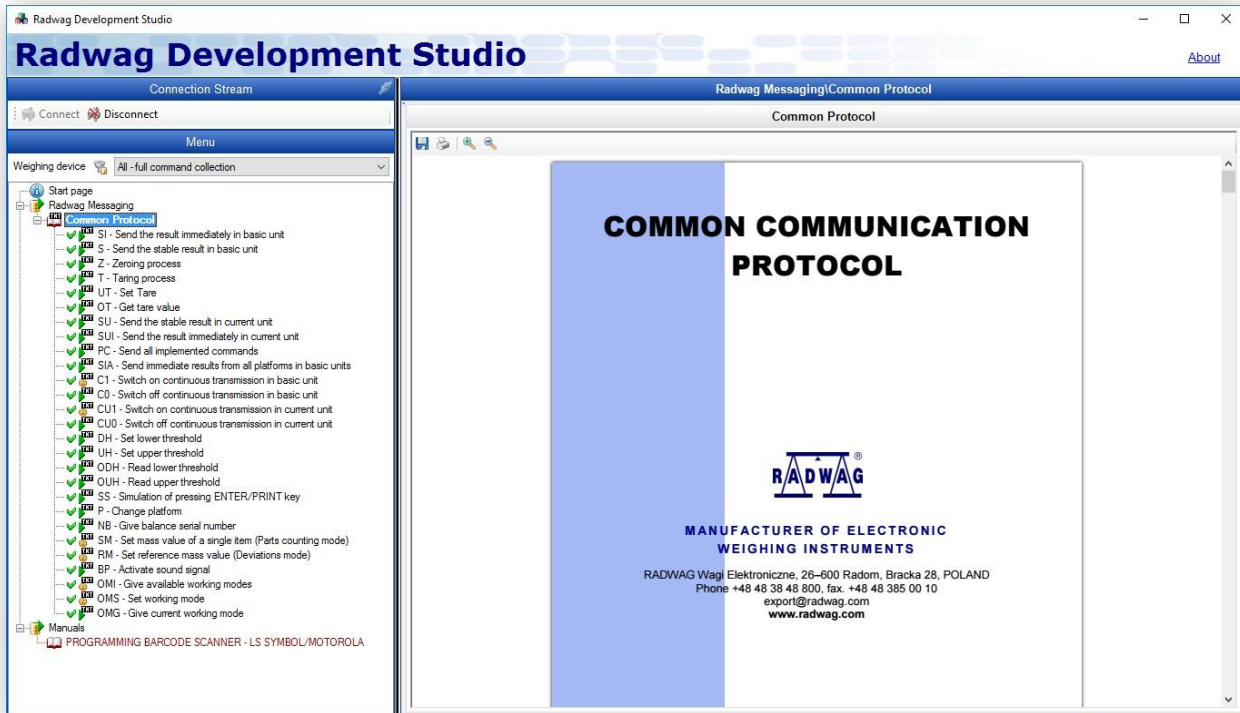


The software developer can use library with mass control (widget), contained within the development environment.



Documentation

Complete documentation of the communication protocol

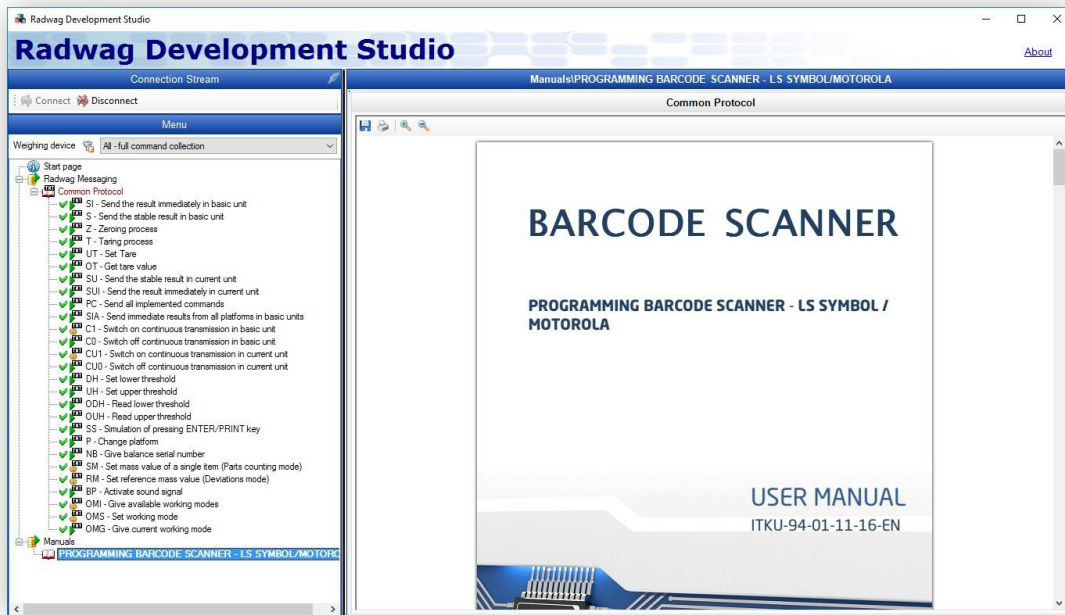


The screenshot displays the Radwag Development Studio interface. The main window is titled "Radwag Development Studio" and contains a "Connection Stream" panel on the left and a "Radwag Messaging/Common Protocol" panel on the right. The "Connection Stream" panel includes a "Connect" button, a "Disconnect" button, and a "Menu" dropdown. Below the menu is a "Weighing device" dropdown set to "All - full command collection". The "Radwag Messaging" tree view is expanded to show a list of commands, each with a green checkmark icon and a description:

- SI - Send the result immediately in basic unit
- S - Send the stable result in basic unit
- Z - Zeroing process
- T - Taring process
- UT - Set Tare
- OT - Get tare value
- SU - Send the stable result in current unit
- SUI - Send the result immediately in current unit
- PC - Send all implemented commands
- SIA - Send immediate results from all platforms in basic units
- C1 - Switch on continuous transmission in basic unit
- C0 - Switch off continuous transmission in basic unit
- CU1 - Switch on continuous transmission in current unit
- CU0 - Switch off continuous transmission in current unit
- DH - Set lower threshold
- UH - Set upper threshold
- ODH - Read lower threshold
- OUH - Read upper threshold
- SS - Simulation of pressing ENTER/PRINT key
- P - Change platform
- NB - Give balance serial number
- SM - Set mass value of a single item (Parts counting mode)
- RM - Set reference mass value (Deviations mode)
- BP - Activate sound signal
- OMI - Give available working modes
- OMS - Set working mode
- OMG - Give current working mode

The "Radwag Messaging/Common Protocol" panel displays a document titled "COMMON COMMUNICATION PROTOCOL". The document content includes the RADWAG logo, the text "MANUFACTURER OF ELECTRONIC WEIGHING INSTRUMENTS", and contact information: "RADWAG Wagi Elektroniczne, 26-600 Radom, Bracka 28, POLAND", "Phone +48 48 38 48 800, fax, +48 48 385 00 10", "export@radwag.com", and "www.radwag.com".

User Manuals



Set of user manuals for different solutions addressed for software developers employed in companies using **RADWAG-manufactured** weighing equipment.



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Thank you for your attention

www.radwag.com