



DOMOSAPIENS RS232 SERIAL EVENT TRIGGER

This driver enables you to trigger events based on serial data received in Control4. The driver also allows you to send ASCII and/or HEX messages on the serial port. Most popular baud rates are supported.

INSTRUCTIONS

- Use the free trial period or activate the driver at any time by assigning to this project the license you purchased from the driverCentral website (requires the driverCentral cloud driver).
- Include the appropriate serial event trigger driver in your project. You may have multiple copies of the driver in the same project operating at different speeds.
- Connect the Serial In binding to a source serial port (usually a Control4 serial port).
- Select the maximum event number to be generated (up to 256). For compatibility purposes, the driver will generate that number of events (1 to nnn), plus event 0, which is also supported.
- To troubleshoot, select a message trace type (ASCII, HEX or BOTH). ***NEW*** You may also use the Action 'Send a Serial Message' with the parameter 'Send to ourselves for testing' set to 'Yes'. This simulates a message received.
- The driver will trigger events based on 'ttt\r' messages received from the serial port, where ttt is the event number to be triggered; it does not have a specified length but must be convertible to a number (ex.: '5' or '010' or '000015'). The value may be '0' (or a string of '0'), which is supported and triggers event 0. The message must end with a carriage return (0x0D). Line feeds (0x0A) are ignored if present.
- ***NEW*** Instead of equating the whole initial message to being the event number (you may receive, for example, a string containing '123456\r' which would equate to event 123456), you may want to trigger events based on a substring (say the second and third digits, for example). This could generate a more reasonable 100 different events (00 to 99). A new property allows you to specify the substring as one digit (example: 2 for the 2nd digit) or consecutive digits (example: 3-4 for the 3rd and 4th digits).
- The driver can also set one or more of 3 numerical variables (A, B and/or C) with values from the message. Ex.: 15A01C2 - Variable A will be set to 1 and Variable will be set to 2 before event 15 is triggered. **IMPORTANT:** this facility is only available when substrings are NOT used.
- Use the Action and/or the programming command to send a serial message on the connected port when appropriate. Start HEX messages with 0x (ex.: 0xF29907). Otherwise, simply enter ASCII characters (ex.: PWROFF). Use \r and \n for CR and LF when required. The Action also allows you to send a message to the driver itself, to simulate a message received and test event triggering.

SUPPORT

For support on this driver please go to <https://help.drivercentral.io/>. Give a detailed description of the problem and also include the version number of the driver and the version of Control4 OS that you are using.

AUTO UPDATE

This driver is updated with fixes and new features from time to time. To ensure your project uses the latest version, set the Automatic Updates property of the driver to On.

CHANGELOG

1.0.0	November 21, 2016	Initial Release
10.0.0	July 17, 2017	Migrated to driverCentral
10.0.1	November 10, 2017	Fixed issue when receiving message with no CR
10.0.2	August 22, 2018	Added 19200 baud version
11.0.0	May 3, 2019	Infrastructure update
11.0.1	July 1, 2019	Added 4800 and 2400 baud version, no changes to 9600, 19200
11.1.1	February 5, 2020	Event 1 was duplicated, infrastructure improvements, documentation updated
11.2.0	March 7, 2021	Licensing update
11.3.0	May 10, 2021	Added 38400, 57600 and 115200 baud versions
12.0.0	June 29, 2021	Added ability to consider only a substring of incoming messages for event number
12.0.1	February 15, 2022	Minor issue fixed
12.1.0	February 13, 2024	Added ability to send messages with CR/LF