



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

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|--------------------------|--|
| 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 |
| 12.2.0 January 8, 2026 | 'Substring for Event' property was missing from some versions, added variable FULL_STRING_RECEIVED |