## Custom Echo Application

### Description

Custom echo (custom\_echo) can be used to monitor the host interface (UART/SPI/SDIO) transactions. In this application, host sends data to which Talaria TWO responds with same data or data with inverted case.

### Prerequisites

GTKTerm or similar application.

### Command Description with Procedure

Open a serial terminal and navigate to the directory where custom applications are placed and issue the commands in the following sequence to send the text to Talaria TWO and get a response for it.

Send <text\_to\_send> to Talaria TWO. Talaria TWO responds with the same data.

|  |
| --- |
| $ ./custom\_echo <text\_to\_send> |

Send <text\_to\_send> to Talaria TWO. Talaria TWO responds with data in inverted case.

[1=invert case | 0=don’t invert case]

|  |
| --- |
| $ ./custom\_echo <text\_to\_send> |

### Expected Output

#### Host Console Logs

A screenshot of a computer program

Description automatically generated

Figure 1: custom\_echo – host serial log

Host console log – text output:

|  |
| --- |
| # ./custom\_echo innophase 0  Resp status: 0  Resp len: 9  Resp data: innophase  Status : Success  # ./custom\_echo innophase 1  Resp status: 0  Resp len: 9  Resp data: INNOPHASE  Status : Success  # |

### List of Message IDs Used

This application uses two message IDs and Group number 67:

1. CUSTOM\_ECHO\_ECHO\_REQ

This message is sent to Talaria TWO when application is invoked with invert as 0. By default, invert is false. Talaria TWO receives this message and replies with CUSTOM\_ECHO\_ECHO\_RSP, with same data.

1. CUSTOM\_ECHO\_ECHO\_INVERTED\_REQ

This message is sent to Talaria TWO when application is invoked with invert as 1. Talaria TWO receives this message and replies with CUSTOM\_ECHO\_ECHO\_INVERTED\_RSP, with inverted case data.