Building with 'MinGW64 Compiler (C)'.

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\test\_modem\_app.c: In function 'test\_env\_rx\_from\_modem':

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\test\_modem\_app.c:63:5: warning: implicit declaration of function 'LpuartRxSched' [-Wimplicit-function-declaration]

LpuartRxSched(rxStr, strlen(rxStr));

^~~~~~~~~~~~~

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\test\_modem\_app.c: In function 'test\_env\_switch\_modem\_on':

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\test\_modem\_app.c:83:5: warning: implicit declaration of function 'test\_env\_hal\_set\_Cts' [-Wimplicit-function-declaration]

test\_env\_hal\_set\_Cts(true);

^~~~~~~~~~~~~~~~~~~~

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem.c:359:37: warning: initialization from incompatible pointer type [-Wincompatible-pointer-types]

static uint8\_t \*modem\_queuedTxPkg = (int \*)50;

^

In file included from C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem.c:24:0:

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem.c: In function 'Modem\_IsActionRetryCounterExceeded':

src/test\_modem\_app.h:15:16: warning: implicit declaration of function 'mexPrintf' [-Wimplicit-function-declaration]

#define printf mexPrintf

^

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem.c:1038:5: note: in expansion of macro 'printf'

printf("tries: %u, limit: %u\n", Rtc\_GetUptimeSeconds(), action\_retry\_last);

^~~~~~

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_at.c: In function 'AtCmdIndClean':

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_at.c:369:36: warning: implicit declaration of function 'strtol' [-Wimplicit-function-declaration]

int errorNum = strtol(argp[2], NULL, 10);

^~~~~~

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_at.c:57:36: warning: implicit declaration of function 'strtoul' [-Wimplicit-function-declaration]

#define strtou16(...) (uint16\_t)strtoul(\_\_VA\_ARGS\_\_)

^

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_at.c:565:44: note: in expansion of macro 'strtou16'

uint16\_t bytes\_ready = strtou16(argp[2], NULL, 10);

^~~~~~~~

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_at.c:61:16: warning: implicit declaration of function 'mexPrintf' [-Wimplicit-function-declaration]

#define printf mexPrintf

^

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_at.c:619:13: note: in expansion of macro 'printf'

printf("Command: Send Data through a UDP Connection\n");

^~~~~~

In file included from C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c:21:0:

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c: In function 'Modem\_Hal\_ResetLow':

src/test\_modem\_app.h:15:16: warning: implicit declaration of function 'mexPrintf' [-Wimplicit-function-declaration]

#define printf mexPrintf

^

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c:90:27: note: in expansion of macro 'printf'

#define PRINT\_FUNC\_NAME() printf("Call to hal function: %s\n", \_\_func\_\_)

^~~~~~

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c:125:5: note: in expansion of macro 'PRINT\_FUNC\_NAME'

PRINT\_FUNC\_NAME();

^~~~~~~~~~~~~~~

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c: In function 'LpuartRxSched':

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c:165:25: warning: implicit declaration of function 'strlen' [-Wimplicit-function-declaration]

for (int i = 0; i < strlen(respStr); i++) {

^~~~~~

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c:165:25: warning: incompatible implicit declaration of built-in function 'strlen'

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c:165:25: note: include '<string.h>' or provide a declaration of 'strlen'

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c: In function 'Modem\_Hal\_TransmitStr':

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c:204:26: warning: passing argument 1 of 'test\_env\_tx\_to\_modem' discards 'const' qualifier from pointer target type [-Wdiscarded-qualifiers]

test\_env\_tx\_to\_modem(msg);

^~~

In file included from C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c:21:0:

src/test\_modem\_app.h:33:6: note: expected 'char \*' but argument is of type 'const char \*'

void test\_env\_tx\_to\_modem(char\* txStr);

^~~~~~~~~~~~~~~~~~~~

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c: In function 'Modem\_Hal\_TransmitCmdWaitRsp':

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c:217:26: warning: passing argument 1 of 'test\_env\_tx\_to\_modem' discards 'const' qualifier from pointer target type [-Wdiscarded-qualifiers]

test\_env\_tx\_to\_modem(atMsg);

^~~~~

In file included from C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_hal.c:21:0:

src/test\_modem\_app.h:33:6: note: expected 'char \*' but argument is of type 'const char \*'

void test\_env\_tx\_to\_modem(char\* txStr);

^~~~~~~~~~~~~~~~~~~~

In file included from C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_umi.c:23:0:

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_umi.c: In function 'Modem\_GetConfigurationFromUmi':

src/test\_modem\_app.h:15:16: warning: implicit declaration of function 'mexPrintf' [-Wimplicit-function-declaration]

#define printf mexPrintf

^

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\modem\modem\_umi.c:105:5: note: in expansion of macro 'printf'

printf("Information from UMI:\n");

^~~~~~

In file included from C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\os\os.c:19:0:

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\os\os.c: In function 'Timer\_StartOnce':

src/test\_modem\_app.h:15:16: warning: implicit declaration of function 'mexPrintf' [-Wimplicit-function-declaration]

#define printf mexPrintf

^

C:\Users\H555102\OneDrive - Honeywell\Desktop\EI4\_NBIOT\_matlab\_test\src\os\os.c:37:5: note: in expansion of macro 'printf'

printf("%s Timer %d with period %d\n",\_\_func\_\_, timer, periodMs);

^~~~~~

MEX completed successfully.

Call to hal function: Modem\_Hal\_Init

Timer\_StartRecurring Timer 1 with period 1000

Call MODEM\_NEXT\_ACTION

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 1(OFF) 0

tries: 0, limit: 65535

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 2(RSTP) 0

tries: 0, limit: 10

Information from UMI:

APN: 'internet.cxn'

RemoteAddress: 199.64.78.128

RemotePort: 4154

cnx\_type: UDP

band\_bitmap0: 000000000000000A0A188E

bnd\_bitmap1: 0000000000000000080084

Call to hal function: Modem\_Hal\_UartClose

Call to hal function: Modem\_Hal\_ResetLow

Call to hal function: Modem\_Hal\_ResetHigh

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 3(BOOT) 15

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_CtsIsHigh

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 4(BOOT) 19

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_CtsIsHigh

Call to hal function: Modem\_Hal\_UartOpen

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 5(ON) 20

tries: 0, limit: 20

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 2

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: ATI

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: ATI

Call to hal function: LpuartRxSched

## Rx Message from Modem: HL7810

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 3

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CGMR

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+CGMR

Call to hal function: LpuartRxSched

## Rx Message from Modem: HL7810.4.6.9.4

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 4

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KGSN=3

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+KGSN=3

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KGSN: D13062105213B1

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 36

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CGSN

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+CGSN

Call to hal function: LpuartRxSched

## Rx Message from Modem: 354720510148914

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 5

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CGDCONT?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: +CGDCONT: 1,'IPV4V6','.cxn',,0,0,0,0,0,,0,,,,

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CGDCONT: 2,'IPV4V6',,,0,0,0,0,0,,0,,,,

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 6

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CGDCONT=1,IPV4V6,"'internet.cxn'",,0,0,0,0,0,,0,,,,,

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: +CGDCONT: 1,'IPV4V6',"'intet.cxn'",,0,0,0,0,0,,0,,,,

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CGDCONT: 2,'IPV4V6',,,0,0,0,0,0,,0,,,,

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 36

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CGDCONT=1,IPV4V6,"'internet.cxn'",,0,0,0,0,0,,0,,,,,

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: +CGDCONT: 1,'IPV4V6',"'internet.cxn'",,0,0,0,0,0,,0,,,,

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CGDCONT: 2,'IPV4V3',,,0,0,0,0,0,,0,,,,

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 36

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KBNDCFG?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

.## Rx Message from Modem: +KBNDCFG: 0,000000000000000A0A188E

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KBNDCFG: ,

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KBNDCFG: 2,0

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 7

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KBNDCFG?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: +KBNDCFG: 0,000000000000000A0A1880

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KBNDCFG: 1,0000000000000000080084

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KBNDCFG: 2,0

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 7

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KBNDCFG=0,000000000000000A0A188E

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: +KBNDCFG: 0,000000000000000A0A188E

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KBNDCFG: 1,0000000000000000080084

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KBNDCFG: 2,0

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 7

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KSELACQ?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

.## Rx Message from Modem: +KSELACQ:

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 8

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KSELACQ=0,2,1

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: +KSELACQ: 2,1

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 2(RSTP) 14

tries: 0, limit: 15

Information from UMI:

APN: 'internet.cxn'

RemoteAddress: 199.64.78.128

RemotePort: 4154

cnx\_type: UDP

band\_bitmap0: 000000000000000A0A188E

bnd\_bitmap1: 0000000000000000080084

Call to hal function: Modem\_Hal\_UartClose

Call to hal function: Modem\_Hal\_ResetLow

Call to hal function: Modem\_Hal\_ResetHigh

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 3(BOOT) 15

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_CtsIsHigh

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 4(BOOT) 19

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_CtsIsHigh

Call to hal function: Modem\_Hal\_UartOpen

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 5(ON) 20

tries: 0, limit: 20

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 2

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CEREG?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: +CEREG: 2,0

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 32

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CFUN?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: +CFUN: 0

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 9

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KBND?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

.## Rx Message from Modem: +KBND:1,

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 10

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KBND?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: +KBND: 1,0000000000000000080084

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 10

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CCID

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: +CCID: +491747365135

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 11

tries: 0, limit: 15

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 12

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CFUN=1,1

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+CFUN=1,1

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CEREG: 2

Call to hal function: LpuartRxSched

## Rx Message from Modem: +WDSI: 0

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 3(BOOT) 30

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_CtsIsHigh

## Rx Message from Modem: AT

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CEREG: 2

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CEREG: 0

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CEREG: 2

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CEREG: 2

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CEREG: 5,"DAD9","01AF8F0D",9

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 4(BOOT REG) 19

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_CtsIsHigh

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 4(BOOT REG) 20

tries: 0, limit: 20

Call to hal function: Modem\_Hal\_CtsIsHigh

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 4(BOOT REG) 20

tries: 0, limit: 20

Call to hal function: Modem\_Hal\_CtsIsHigh

Call to hal function: Modem\_Hal\_UartOpen

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 5(ON REG) 20

tries: 0, limit: 20

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT REG) 2

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CGDCONT?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: +CGDCONT: 1,'IPV4V6','internet.cxn',,0,0,0,0,0,,0,,,,

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CGDCONT: ",'IPV4V6',,,0,0,0,0,0,,0,,,,

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT REG) 6

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KBND?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+KBND?

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KBND: 1,0000000000000000000080

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT REG) 10

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CESQ

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+CESQ

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CESQ: 99,99,255,255,20,39

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT REG) 27

tries: 0, limit: 15

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT REG) 12

tries: 0, limit: 15

ready\_to\_send

All info collect

Ready for communication

Connected: FALSE

modemSessionState[0]: FALSE

modemSessionState[1]: FALSE

modemSessionState[2]: FALSE

want\_to\_send: TRUE

wait\_for\_rsp: 0

modem\_queuedTxPkg: TRUE

cfgWritten: FALSE

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KCNXCFG=1,"GPRS","'internet.cxn'"

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+KCNXCFG=1,"GPRS","'internet.cxn'"

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT REG) 21

tries: 0, limit: 15

ready\_to\_send

All info collect

Ready for communication

Connected: FALSE

modemSessionState[0]: FALSE

modemSessionState[1]: FALSE

modemSessionState[2]: FALSE

want\_to\_send: TRUE

wait\_for\_rsp: 0

modem\_queuedTxPkg: TRUE

cfgWritten: TRUE

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KUDPCFG=1,0

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+KUDPCFG=1,0

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KUDPCFG: 1

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KCNX\_IND: 1,1,0

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KUDP\_IND: 1,1

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT REG CON UDP) 22

tries: 0, limit: 25

ready\_to\_send

All info collect

Ready for communication

Connected: TRUE

modemSessionState[0]: TRUE

modemSessionState[1]: FALSE

modemSessionState[2]: FALSE

want\_to\_send: TRUE

wait\_for\_rsp: 0

modem\_queuedTxPkg: TRUE

cfgWritten: TRUE

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KUDPSND=1,"199.64.78.128",4154,0

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+KUDPSND=1,"199.64.78.128",4154,0

Call to hal function: LpuartRxSched

Command: Send Data through a UDP Connection

Ready to send 0 bytes via UDP

## Rx Message from Modem: CONNECT

Call to hal function: LpuartRxSched

Call to hal function: Modem\_Hal\_TransmitRaw

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KUDP\_DATA: 1,51

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT REG CON UDP) 28

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KUDPRCV=1,51

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+KUDPRCV=1,51

Call to hal function: LpuartRxSched

Command: Receive Data through a UDP Connection

Ready to receive 51 bytes via UDP

## Rx Message from Modem: CONNECT

Call to hal function: LpuartRxSched

## Rx Message from Modem: 00 01 00 10 00 01 00 2b 60 29 a1 09 06 07 60 85 74 05 08 01 01 a6 0a 04 08 45 49 43 54 43 4f 4d 4d be 10 04 0e 01 00 00 00 06 5f 1f 04 00 00 7e 1f 10 00 --EOF--Pattern--

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KUDP\_RCV: "199.64.78.128",4154

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT REG CON UDP) 18

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CESQ

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+CESQ

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CESQ: 99,99,255,255,19,40

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT REG CON UDP) 27

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KUDPCLOSE=1

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+KUDPCLOSE= 1

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT REG CON) 34

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+KUDPDEL=?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: +KUDPDEL: 0

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT REG) 35

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CFUN=4,1

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+CFUN=4,1

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CEREG: 0

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CEREG: 0

Call to hal function: LpuartRxSched

## Rx Message from Modem: +KCNX\_IND: 1,0,0

Call to hal function: LpuartRxSched

## Rx Message from Modem: +WDSI: 0

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 3(BOOT) 13

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_CtsIsHigh

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 4(BOOT) 19

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_CtsIsHigh

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 4(BOOT) 20

tries: 0, limit: 20

Call to hal function: Modem\_Hal\_CtsIsHigh

Call to hal function: Modem\_Hal\_UartOpen

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 5(ON) 20

tries: 0, limit: 20

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 2

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CFUN?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

.## Rx Message from Modem: AT+CFUN?

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CFUN: 1

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 9

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CFUN=4,1

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+CFUN?

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CFUN: 4

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 3(BOOT) 13

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_CtsIsHigh

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 4(BOOT) 19

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_CtsIsHigh

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 4(BOOT) 20

tries: 0, limit: 20

Call to hal function: Modem\_Hal\_CtsIsHigh

Call to hal function: Modem\_Hal\_UartOpen

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 5(ON) 20

tries: 0, limit: 20

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 2

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CFUN?

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+CFUN?

Call to hal function: LpuartRxSched

## Rx Message from Modem: +CFUN: 4

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 7(ON AT) 9

tries: 0, limit: 15

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 8(SHTDWN) 9

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_TransmitCmdWaitRsp

## Tx Message to Modem: AT+CPOF

Timer\_StartOnce Timer 2 with period 4000

Call MODEM\_AT\_TIMEOUT after 4000ms

## Rx Message from Modem: AT+CPOF

Call to hal function: LpuartRxSched

## Rx Message from Modem: OK

Call to hal function: LpuartRxSched

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 9(SHTDWN) 16

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_CtsIsHigh

\*\*\*\*\* Simulate OS Timer Call to MODEM\_NEXT\_ACTION

ModemNextAction 9(SHTDWN) 16

tries: 0, limit: 15

Call to hal function: Modem\_Hal\_CtsIsHigh

.

Done TestSuite2

\_\_\_\_\_\_\_\_\_\_

result =

1×5 TestResult array with properties:

Name

Passed

Failed

Incomplete

Duration

Details

Totals:

5 Passed, 0 Failed, 0 Incomplete.

2.868 seconds testing time.

rt =

5×6 table

Name Passed Failed Incomplete Duration Details

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

{'TestSuite2/Test1\_Injecting\_wrong\_PDP\_Context\_from\_modem\_to\_driver' } true false false 2.84 {1×1 struct}

{'TestSuite2/Test2\_Injecting\_wrong\_LTE\_Band\_from\_modem\_to\_driver' } true false false 0.0047528 {1×1 struct}

{'TestSuite2/Test3\_Injecting\_wrong\_RAT\_Response\_from\_modem\_to\_driver' } true false false 0.0058582 {1×1 struct}

{'TestSuite2/Test4\_Giving\_no\_LTE\_band\_Response\_from\_modem\_to\_driver' } true false false 0.0089285 {1×1 struct}

{'TestSuite2/Test5\_Injecting\_wrong\_sim\_functionality\_Response\_to\_driver'} true false false 0.0084217 {1×1 struct}

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