



- Success
- Retry or Reset
- UART
- Configuration
- Error

| State | Enter State | Acceptable Events | Notes |
|----------------|---|---|---|
| Uninitialized | Setup GPIO for IRQ GPIO interrupt Reset module via DIO | Was Reset Erase Flash Status Timeout IRQ Flag was set UART Pass Thru cmd | Start here No host interface to module |
| After Reset | Get Address Check MAC mode Check FW version | - | OK to use host interface to module Events are not processed in this state |
| Initializing | Set Config - Network Token - App Token - DL Always ON - QoS | Was Reset Connected IRQ Disconnected IRQ Erase Flash Status Timeout IRQ Flag was set DL Band Config UART Pass Thru cmd | Polls ll_get_state() for module status |
| Idle | GW LED on Single beep | Was Reset Connected IRQ Disconnected IRQ Tx Done Rx Done Erase Flash Status Timeout IRQ Flag was set DL Band Config UART Pass Thru cmd | Able to receive downlink |
| Tx | llabs_msg_send() Set Tx LED state | Was Reset Connected IRQ Disconnected IRQ Tx Done Rx Done Erase Flash Status Timeout IRQ Flag was set DL Band Config UART Pass Thru cmd | Module is reset after 30 seconds of not receiving Tx Done (module bug?) Able to receive downlink |
| Disconnected | GW LED off Triple beep Retry | - | Events are not processed in this state |
| UART Pass Thru | GW LED off Enable UART bypass | Was Reset IRQ Flag was set Status Timeout Connected IRQ | Mock reset event push on queue by UI to exit state |