Connected

Normal

```
entry/ start pingReqTimer(3s, PERIODIC)
exit/ stop pingReqTimer, stop pingCfmTimer

PING_REQ_TIMER/ m_pingTime = current time,
                m_pingSeq = GEN_SEQ(),
                SendMsg(SrvPingReqMsg, m_srvId, m_pingSeq)
                start pingCfmTimer(600ms, ONCE)

NODE_PARSER_MSG_IND[SrvPingCfmMsg]
/ if (seq == m_pingSeq && success) stop pingCfmTimer
NODE_PARSER_MSG_IND[other msg recognized]
/ evt = HandleMsg(ind, to)
  Send(evt, to)

LEVEL_METER_CONTROL_CFM,
LEVEL_METER_DATA_IND
/ msg = get message from event
  SendMsg(msg)
```

HandleMsg() checks for known msgs in ind. If found, it creates a MsgEvt to carry the msg to the destination HSM.

SendMsg writes a message to m_dataOutFifo. If success and fifo was empty, it sends WIFI_WRITE_REQ to WIFI.

RECOVERED

PING_CFM_TIMER

RecoveryWait

```
entry/ start recoveryWaitTimer(5s)
exit/ stop recoveryWaitTimer
RECOVERY_WAIT_TIMER/ Raise(SRV_ERROR)
NODE_PARSER_MSG_IND[SrvPingCfmMsg]
/ if (seq == m_pingSeq && success)
    if (rsp time < 400ms) Raise(RECOVERED)
    else
      m_pingTime = current time,
      m_pingSeq = GEN_SEQ(),
      SendMsg(SrvPingReqMsg, m_srvId, m_pingSeq)

TODO - Add handling of events from other HSM.
       For critical msgs, defer them.
       For reoccurring status msgs, discard and
       sands fail cfm.
```