```
COMMS_READY
                                   ✓ INITIAL
                                                                                                                             // Initialize the RPMsg transport structure
payload = new uint8 t[RPMSG MESSAGE SIZE];
                                                                                                                            pru rpmsg init(&transport,
resource table wrapper = new Resource Table Wrapper();
                                                                                                                               &resource_table_wrapper -> to_resourceTable -> rpmsq_vring0,
                                                                                     (*status & VIRTIO_CONFIG_S_DRIVER_OK)
one_beep_a_second(PRU_0_GREEN_LED);
                                                                                                                               &resource_table_wrapper -> to_resourceTable -> rpmsg_vring1,
// Clear the status of all interrupts
                                                                                                                               IRQ PRU0 TO ARM,
CT INTC.SECR0 = 0xFFFFFFF;
                                                                                                                                IRQ ARM TO PRU0);
                                                                                        pru rpmsg channel(RPMSG NS CREATE,
CT_INTC.SECR1 = 0xFFFFFFF;
                                                                                                                             two_beeps_a_second(PRU_0_BLUE_LED);
                                                                                                                                                                                                On Entry
                                                                                        &transport, CHAN_NAME, CHAN_DESC,
// Allow OCP master port access by the PRU so the PRU can read external
                                                                                        CHAN_PORT) == PRU_RPMSG_SUCCESS
memories
CT_CFG.SYSCFG_bit.STANDBY_INIT = 0;
// Clear the status of the PRU-ICSS system event that the ARM will use to
                                                                                                                                                                     ARM_KICKED_US
'kick' us
                                                                                                                               true
                                                                                                CHANNEL_CREATED
//CT_INTC.SICR_bit.STATUS_CLR_INDEX = IRQ_ARM_TO_PRU0;
                                                                                                                                                 //Clear the RPMsg received event status
                                                                                                                                                 CT_INTC.SICR_bit.STATUS_CLR_INDEX = IRQ_ARM_TO_PRU0;
                                                                                                               CT_INTC.SECRO bit.ENA STATUS 31 0 & (1 <<
// Make sure the Linux drivers are ready for RPMsg communication
                                                                                                               IRQ_ARM_TO_PRU0)
status = & resource_table_wrapper -> to_resourceTable -> rpmsg_vdev.status;
                                                                                                                                                                                                   On Entry
                                                                          On Entry
                                                                                                                                                pru_rpmsg_receive(&transport, &src, &dst, payload, &len) ==
                                                                                                                                                PRU RPMSG SUCCESS
                                                                                                                                                     PAYLOAD_RECEIVED
                                                      SEND_TO_OTHER_PRU
                                                                                                              for (uint16 t i=0; i<len; i++) { // convert to Leds pattern and show for one second
                                                                                                                   fill struct LEDS unsigned(payload, &dynamic Buffer);
                               Comms PRU ucFSM local_Buffer = dynamic_Buffer;
                                                                                                              }//for
                               CT INTC.SICR = IRQ XFR PRU1 TO PRU0;
                                                                           //Clear IRQ
                                                                                                              //Send IRQ to PRU1 so it gets ready to receive struct
                                _R31 = IRQ_XFR_PRU0_T0_PRU1 + PRU_IRQ_out_strobe; // signal
                                                                                                               R31 = IRQ XFR PRU0 TO PRU1 + PRU IRQ out strobe;
                               sent to PRU1 to immediately receive this
                                                                                                                                                                                                          On Entry
                                ___xout(14, 5, 0, local_Buffer);
                               five beeps a second(PRU 0 RED LED);
                                                                                           On Entry
                                                                                           On Exit
                                                                                                   CT_INTC.SECRO_bit.ENA_STATUS_31_0 & (1 << IRQ_XFR_PRU1_TO_PR
```