

## (1) Frame Header

```

87 typedef struct MmwDemo_output_message_header_t
88 {
89     /*! @brief   Output buffer magic word (sync word). It is initialized to {0x0102,0x0304,0x0506,0x0708} */
90     uint16_t    magicWord[4];
91
92     /*! @brief   Version: : MajorNum * 2^24 + MinorNum * 2^16 + BugfixNum * 2^8 + BuildNum */
93     uint32_t    version;
94
95     /*! @brief   Total packet length including header in Bytes */
96     uint32_t    totalPacketLen;
97
98     /*! @brief   platform type */
99     uint32_t    platform;
100
101     /*! @brief   Frame number */
102     uint32_t    frameNumber;
103
104     /*! @brief   Time in CPU cycles when the message was created. For XWR16xx/XWR18xx: DSP CPU cycles, for XWR14xx: R4F CPU cycles */
105     uint32_t    timeCpuCycles;
106
107     /*! @brief   Number of detected objects */
108     uint32_t    numDetectedObj;
109
110     /*! @brief   Number of TLVs */
111     uint32_t    numTLVs;
112
113     #if (defined(SOC_XWR16XX) || defined(SOC_XWR18XX) || defined(ENABLE_ADVANCED_FRAME))
114     /* SOC_XWR18XX has 2 demo modes. In mmw demo mode which is similar to xwr16xx
115      * ENABLE_ADVANCED_FRAME is enabled while in mmwhwa mode which is similar to xwr14xx
116      * it is disabled. Due to these 2 demo modes the SOC_XWR18XX is not used directly
117      * in the above #if.*/
118     /*! @brief   For Advanced Frame config, this is the sub-frame number in the range
119      * 0 to (number of subframes - 1). For frame config (not advanced), this is always
120      * set to 0. */
121     uint32_t    subFrameNumber;
122     #endif
123 } MmwDemo_output_message_header;

```

## (2) TLV header

```

180 typedef struct MmwDemo_output_message_tlv_t
181 {
182     /*! @brief   TLV type */
183     uint32_t    type;
184
185     /*! @brief   Length in bytes */
186     uint32_t    length;
187
188 } MmwDemo_output_message_tlv;

```

## (3) QFormat

```

162 typedef struct MmwDemo_output_message_dataObjDescr_t
163 {
164     /*! @brief   Number of detected objects */
165     uint16_t    numDetectedObj;
166
167     /*! @brief   Q format of detected objects x/y/z coordinates */
168     uint16_t    xyzQFormat;
169
170 } MmwDemo_output_message_dataObjDescr;

```

(4) JB modified method

```
864     /* Header: */
865     //message.body.detObj.header.platform = 0xA1642 ;
866     message.body.detObj.header.platform = 0xF1843; // (83.02)
867     message.body.detObj.header.magicWord[0] = 0x0201; //0x0102; (83.02)
868     message.body.detObj.header.magicWord[1] = 0x0403; //0x0304; (83.02)
869     message.body.detObj.header.magicWord[2] = 0x0605; //0x0506; (83.02)
870     message.body.detObj.header.magicWord[3] = 0x0807; //0x0708; (83.02)
```