

| Name | DID?EID?CAN Y/N/CY/N/Flags? | Wire Hex Nibble 1 (3 bits) | Wire Hex Nibble 2 (5 bits) | Wire Hex Nibble 3 | Wire Hex Total | CAN Var Total | Flag bit A 0 default | Flag bit B 1 default | Flag bit C 0 default | Flag bit D 1 default | CAN Content |
|---|--------------------------------|-------------------------------------|----------------------------------|----------------------|------------------------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|---|
| | | Simple Node MsgGroup (2 bits) | Priority (4 bits) | Type (3 bits) | DID/EID/Flags 16 bits hex | Format 15 bits hex | Type 3 bits | Byte 8 bits | | | |
| Base Messages | | | | | | | | | | | |
| Initialization Complete | N N | | 0 | 8 | 0 | 3080 | 1 | 1 | 0x08 | | Full Source Node ID |
| Verify Node ID Number | Y N | Y | 0 | 10 | 4 | 30A4 | 6XXX | 6 | dest NIDa | | MTI byte 0x0A |
| Verify Node ID Number | N N | Y | 0 | 10 | 0 | 30A0 | 1 | 0 | 0x0A | | |
| Verified Node ID Number | N N | | 0 | 11 | 0 | 30B0 | 1 | 1 | 0x0B | | Full Source Node ID |
| Optional Interaction Rejected | Y N | | 0 | 12 | 4 | 30C4 | 6XXX | 6 | dest NIDa | | MTI byte 0x0C, MTI, optional information |
| Terminate Due to Error | Y N | | 0 | 13 | 4 | 30D4 | 6XXX | 6 | dest NIDa | | MTI byte 0x0D, MTI, optional information |
| Event Exchange Messages | | | | | | | | | | | |
| Identify Consumers | N Y | Y | 1 | 4 | 2 | 3242 | 1 | 0 | 0x24 | | EventID (no room for DestID!) |
| Consumer Identify Range | N Y | | 1 | 5 | 2 | 3252 | 1 | 1 | 0x25 | | EventID w mask (no room for DestID!) |
| Consumer Identified | N Y Y | | 1 | 6 | 3 | 3263 | 0 | 1 | 0x26 | valid | uncertain EventID (no room for DestID!) |
| Identify Producers | N Y | Y | 1 | 8 | 2 | 3282 | 1 | 0 | 0x28 | | EventID (no room for DestID!) |
| Producer Identify Range | N Y | | 1 | 9 | 2 | 3292 | 1 | 1 | 0x29 | | EventID w mask (no room for DestID!) |
| Producer Identified | N Y Y | | 1 | 10 | 3 | 32A3 | 0 | 1 | 0x2A | valid | uncertain EventID (no room for DestID!) |
| Identify Events | Y N | Y | 1 | 11 | 2 | 32B2 | 6 | 6 | dest NIDa | | MTI byte 0x2B |
| Identify Events | N N | Y | 1 | 11 | 0 | 32B0 | 1 | 0 | 0x2B | | |
| Learn Event | N Y | Y | 1 | 12 | 2 | 32C2 | 1 | 0 | 0x2C | | EventID |
| Producer/Consumer Event Report | N Y | Y | 1 | 13 | 2 | 32D2 | 1 | 0 | 0x2D | | EventID |
| Datagram Messages | | | | | | | | | | | |
| Datagram (General) | Y N | Y | 2 | 0 | 4 | 3404 | 4/5XXX | 4,5 | dest NIDa | | Data (0-8 bytes) |
| Datagram Received OK | Y N | Y | 2 | 12 | 4 | 34C4 | 6XXX | 6 | dest NIDa | | MTI byte |
| Datagram Rejected | Y N | Y | 2 | 13 | 4 | 34D4 | 6XXX | 6 | dest NIDa | | MTI byte, error code |
| Stream Messages | | | | | | | | | | | |
| Stream Initiate Request | Y N | | 2 | 14 | 4 | 34E4 | 6XXX | 6 | dest NIDa | | MTI byte, buffer size (2 bytes), Source Stream ID (1 byte), reserved byte, flags (tagged=0x80) |
| Stream Initiate Reply | Y N | | 2 | 15 | 4 | 34F4 | 6XXX | 6 | dest NIDa | | MTI byte 0x4B,buffer size (2 bytes), Source Stream ID (1 byte), Dest Stream ID, flags (tagged=0x80; error info) |
| Stream Data Send | Y N | | 3 | 9 | 4 | 3694 | 7XXX | 7 | dest NIDa | | (stream IDs inferred on CAN); 8 bytes data |
| Stream Data Proceed | Y N | | 3 | 10 | 4 | 36A4 | 7XXX | 6 | dest NIDa | | MTI byte, Stream IDs (2 bytes) |
| Stream Data Complete | Y N | | 3 | 11 | 4 | 36B4 | 7XXX | 6 | dest NIDa | | MTI byte, Stream IDs (2 bytes); optional length (4 bytes) |
| <div> <div>0 gets more priority</div> <div>coding 1=carries EID 2=carries DID</div> <div>0=simple MTI 1=complex MTI</div> </div> | | | | | | | | | | | |
| <div> <div>Full value must be checked!</div> <div>4=DestID datagram 5=DestID datagram last segment 6=DestID non-Stream 7=DestID stream data</div> <div>If flags not specified, send and check 1 bits</div> </div> | | | | | | | | | | | |
| <div> <div>Places these appear in code:</div> <div>prototypes/Arduino/libraries/OpenLCB/OpenLcbCan.h prototypes/CBUS-PIC/canlib/frametypes.c</div> </div> | | | | | | | | | | | |