



OpenLCB Standard	
OpenLCB-CAN Event Transport	
May 29, 2012	Preliminary

1 Introduction (Informative)

This specification describes the protocol for transporting OpenLCB events via CAN segments.

2 Intended Use (Informative)

3 References and Context (Normative)

5 This specification is in the context of the following OpenLCB-CAN Specifications:

The OpenLCB Message Network Specification, which specifies ...

The OpenLCB Node Identifier Specification, which specifies ...

The OpenLCB Event Identifier Specification, which specifies ...

10 “CAN” refers to the electrical and protocol specifications as defined in ISO 11898-1:2003 and ISO 11898-2:2003 and their successors.

- External certification of parts shall be accepted for conformance to these standards. Conformance with a later version of a standard shall be accepted as conformance with the referenced versions.

For more information on format and presentation, see:

- 15
- OpenLCB Common Information Technical Note

4 Message Formats (Normative)

“EventID with mask” relies on low order 0 or 1 bits...

20

Name	Dest ID	Event ID	Simple Node	Common MTI	CAN format	Data Content
Producer/Consumer Event Report	N	Y	N	0x0000	0x1800,0sss	EventID

Name	Dest ID	Event ID	Simple Node	Common MTI	CAN format	Data Content
Identify Consumer	N	Y	N	0x0000	0x1800,0sss	Event ID

Name	Dest ID	Event ID	Simple Node	Common MTI	CAN format	Data Content
Consumer Identified	N	Y	N	0x0000	0x1800,0sss	Event ID

25

Name	Dest ID	Event ID	Simple Node	Common MTI	CAN format	Data Content
Consumer Range Identified	N	Y	N	0x0000	0x1800,0sss	Event ID with mask

Name	Dest ID	Event ID	Simple Node	Common MTI	CAN format	Data Content
Identify Producer	N	Y	N	0x0000	0x1800,0sss	Event ID

Name	Dest ID	Event ID	Simple Node	Common MTI	CAN format	Data Content
Producer Identified	N	Y	N	0x0000	0x1800,0sss	Event ID

30

Name	Dest ID	Event ID	Simple Node	Common MTI	CAN format	Data Content
Producer Identified Range	N	Y	N	0x0000	0x1800,0sss	Event ID with mask

Name	Dest ID	Event ID	Simple Node	Common MTI	CAN format	Data Content
Identify Events	N	N	N	0x2AB7	0x18AB,7sss	
	Y	N		0x32B0	0x1Edd,dsss 2B	

35 Coverage of status bits...

Two forms of identify events; recommendation on uses for global form

5 Interactions (Normative)

- 40 After the IC message is sent, and before any corresponding Producer/Consumer Event Report messages are sent, the node must identify all events produced or consumed on the board via zero or more Identify Consumers, Identify Consumed Range, Identify Producers and Identify Consumed Range messages. These are not required to be in any particular order.

Table of Contents

1 Introduction (Informative).....	1
2 Intended Use (Informative).....	1
3 References and Context (Normative).....	1
4 Message Formats (Normative).....	1
5 Interactions (Normative).....	3

45