OpenLCB Standard	
Protocol Identification Protocol	
10/08/10	**Preliminary**

1 Introduction (Informative)

2 Intended Use (Normative)

This Standard defines an optional protocol.

3 Reference and Context (Normative)

5   Cite to transfer Standards and Technical Notes, CAN and others (complicated cites...)

4 Messages (Normative)

Protocol Support Inquiry

Content: None

10   Destination address required.

Protocol Support Reply

Content: Bytes containing bits identifying the available OpenLCB protocols; see definitions in separate (spreadsheet) (pdf).

5 Interactions (Normative)

15   OpenLCB defines a number of specific protocols for interacting with nodes, including event exchange, datagrams, streams, configuration, etc. These protocols are optional, in the sense that not every node will implement every one.

To determine which protocols a node implements, a Protocol Support Inquiry message is sent to the specific node. It will reply with a Protocol Support Reply message that contains one or more
20   bytes of data. A specific bit position has been reserved for each defined protocol in a separate spreadsheet (.ods, .pdf form). If the bit is zero or not present, the protocol is not supported and requests to use it will result in a error. If present and 1, the protocol is supported.

It is not necessary to check whether a protocol is supported by a node before attempting to use the protocol. If it's not, the error handling mechanism (see below) will indicate that.

6 Protocol Identification Values (Normative)

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0x80 00 00 00 00 00 00 00 Protocol Identification Protocol

0x40 00 00 00 00 00 00 00 Datagram Protocol

0x20 00 00 00 00 00 00 00 Stream Protocol

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