OpenLCB Technical Note	
Gateways Between OpenLCB Segments	
Jan 30, 2021	**Preliminary**

1 Introduction

This Technical Note addresses topics of interest to people designing and implementing gateways between OpenLCB segments. It is not normative in any way.

2 Annotations to the Specification

5   There Technical Note is currently independent of any Specification.

3 General Considerations

What do you have to forward? What/when can you omit?

(Broadcast vs reply to request)

Initialization Complete may be a candidate for omission, particularly at startup when a lot
10   happen at once. But if a gateway fails to deliver them, certain operations will be impossible e.g. contact new nodes automatically when they first come up.

Omitting PCER messages is right out; they must be delivered, because there's no way to get them to be resent.

Datagrams and streams have support build in for a temporarily failure to deliver. The protocol
15   just has to be obeyed.

Startup and other Global Traffic

5K node analysis. Start up time.

MTI remap and reformatting. Size and buffering.

Speed Mismatch. Handling and reporting overruns. (Ken Cameron interested in reporting; Event-
20   based mechanism?) This is the start of gateway-to-gateway protocols.

4 CAN-specific Considerations

Use of alias pools. Alias reuse.

Alias allocation time for large pools.

25   Datagram and Stream rebuffering.

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