



OpenLCB Working Note	
Stream Transport	
Oct 18, 2013	Preliminary

## 1 Introduction

A Working Note is an intermediate step in the documentation process. It gathers together the content from various informal development documents, discussions, etc into a single place. One or more Working Notes form the basic for the next step, which is one or more

5 Standard/TechNote pairs.

### 1.1 Served Use Cases

### 1.2 Unserved Use Cases

## 2 Specified Sections

10 This is the usual section organization for a Technical Note, to accumulate the Standard and Technical Note content in its eventual order.

### 2.1 Introduction

Note that this section of the Standard is informative, not normative.

### 2.2 Intended Use

Note that this section of the Standard is informative, not normative.

### 15 2.3 Reference and Context

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### 2.4 Message Formats

#### 2.4.1 Stream Initiate Request

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It carries a "Max Buffer Size" value (2 bytes), a "Type Included" boolean flag (1 bit in a byte; see below for meaning) and a "Source Stream ID" (1 byte) in the data section. The combination of source, destination, and Source Stream ID must uniquely identify this stream transmission.

Data content:

Byte	Byte	Byte	Byte	Byte	Byte
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<sup>1</sup>See the "Common Information" OpenLCB Technical Note for detailed conventions on bit and byte numbering. Briefly, the least significant bit of a field is numbered with zero in OpenLCB descriptions, but note that other technologies may use other conventions.

Max Buffer Size	Flags: LSB: Type Included 0: No type byte 1: First byte is type byte	Additional Flags:	Source Stream ID	(Reserved)
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### 2.4.2 Stream Initiate Reply

Byte	Byte	Byte	Byte	Byte	Byte
Max Buffer Size		Flags  LSB: Type Included 0: No type info 1: Type UID at start of data  Bit 1: 1: Stream Rejected, out of order or other “should not happen” error 0: (nothing)  Bit 2:  Bit 3:  Bit 4:  Bit 5:  Bit 6: Error Type (if Reject) 1: Permanent Error 0: Temporary Error  MSB: Accept/Reject 0: Reject 1: Accept	Additional Flags  If Reject  LSB: 1: Information Logged  Bit 1:  Bit 2:  Bit 3:  Bit 4:  if Reject, Permanent Error:  Bit 5: 1: Invalid Stream Request  Bit 6: 1: Source not permitted  Bit 7: 1: Streams not accepted  if Temporary Error:	Source Stream ID	Destination Stream ID

		Bit 5: 1: Buffer full  Bit 6: 1: Internal error, out of order		
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### 30 2.4.3 Stream Data Send

#### 2.4.4 Stream Data Proceed

Byte	Byte	Byte	Byte
Source Stream ID	Destination Stream ID	Flags	Additional Flags

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#### 2.4.5 Stream Data Complete

Byte	Byte	Byte	Byte
Source Stream ID	Destination Stream ID	Flags	Additional Flags

## 2.5 States

### 40 2.6 Interactions

## 3 Background Information

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