Date: July 9, 02
To: T10 Technical Committee
From: Jim Coomes (jim.comes@seagate.com)
Subject: SAS bit and byte order for scrambling, CRC and transmission

Rev 3 includes changes from the SAS Protocol conference call July 9, 02. The spelling of byte was corrected and the figure titles were changes for "port" to "link layer".

This update includes figures illustrating the byte and bit order for SAS transmit and receive paths. If adopted, the current scrambling, CRC, transmit order and receive order bit order figures in the SAS draft remain unchanged.
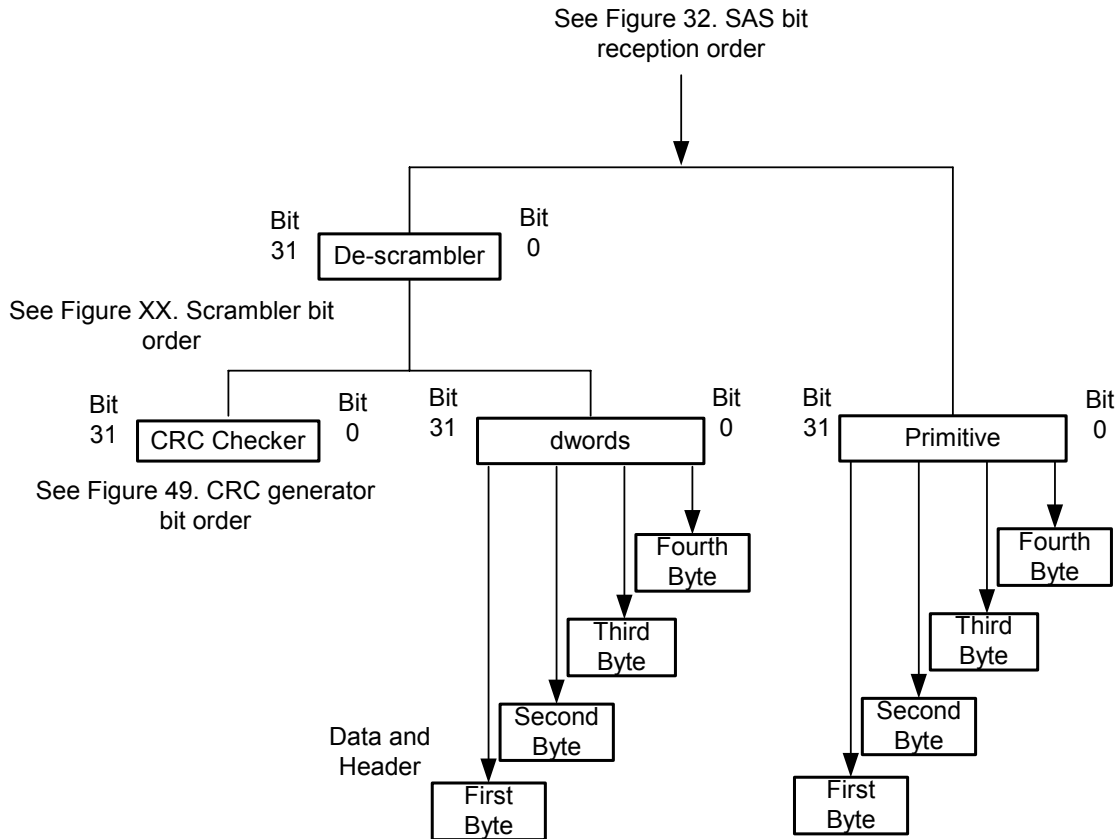

Figure 1 – Link layer receive path

Fourth
Byte

Third
Byte

Second
Byte

Data and
Header

First
Byte

Bit
31

Bit
0

dword

Bit
31

Bit
0

CRC
Generation

See Figure 49. CRC generator
bit order

Fourth
Byte

Third
Byte

Second
Byte

First
Byte

mux

Bit
31

Bit
0

Bit
31

Bit
0

Scrambler

Primitive

See Figure XX. Scrambler bit
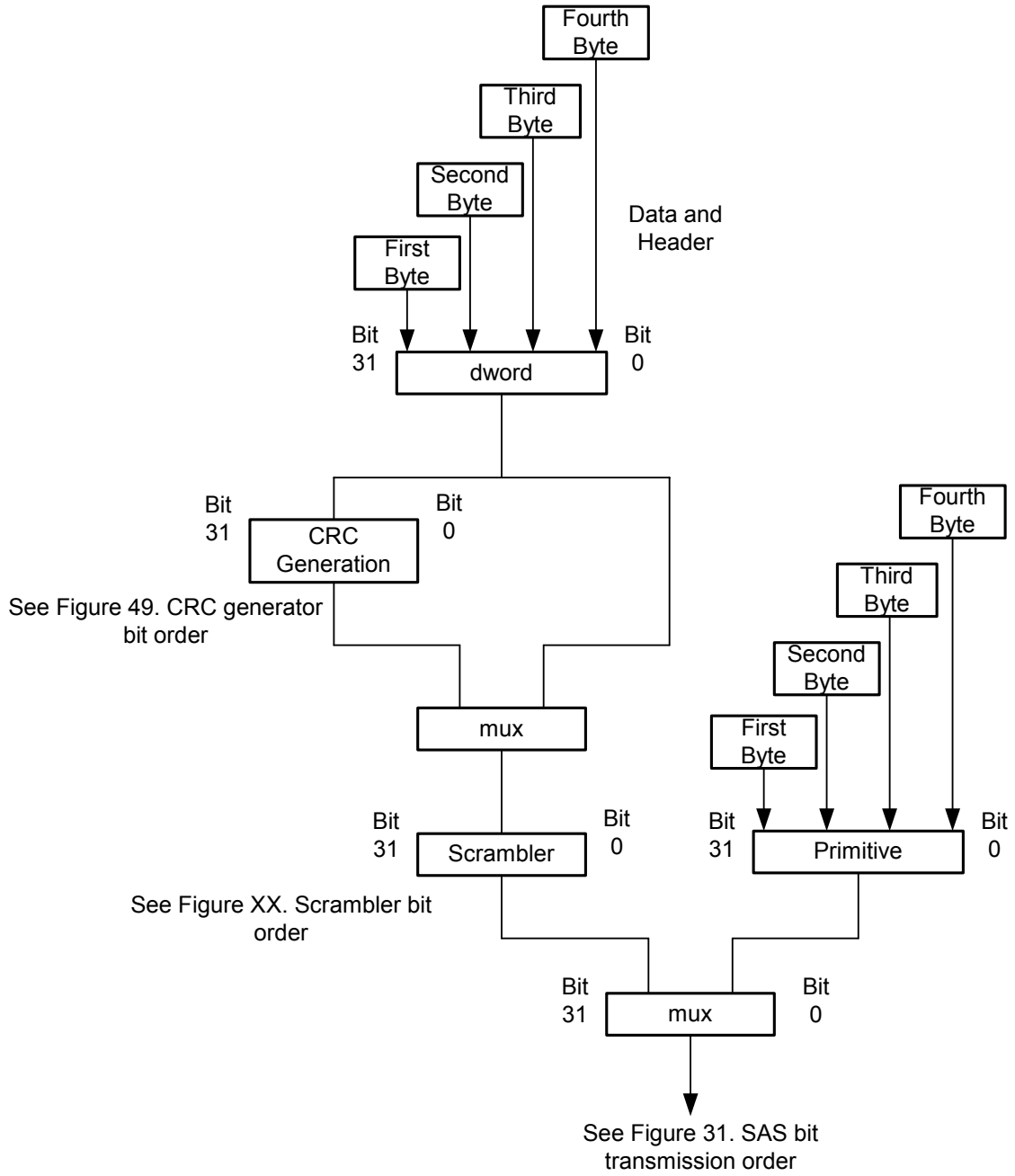order

Bit
31

Bit
0

mux

See Figure 31. SAS bit
transmission order

Figure 2 – Link layer transmit path