



**Allen-Bradley  
Data Highway, Data Highway Plus, Data Highway II Products**

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**Delivery Order of Commands**

**Important:** If any node on a Data Highway, Data Highway Plus, or Data Highway II network initiates multiple commands (for example, the initiating node sets multiple bits at any one time), the order in which those commands get executed at the remote node cannot be guaranteed.

The initiating node, the network, and the receiving node execute commands based on network conditions, including but not limited to:

- o nodes buffering commands
- o retries due to noise on the network

If your application requires that commands be delivered in a specific order, your logic must control the initiation of one command at a time on the network and verify delivery before initiating additional commands. This verification is completed by:

- o a done bit or an error bit in a PLC
- o a reply message in a computer

A done bit or a successful reply should cause the next command to be initiated. If an error bit or a reply with non-zero status is returned, you must decide the appropriate action based on your application.