

2.1 Differences Between Polaris Rev 18 and Rev 24

This section lists the changes in the API between Polaris combined firmware revision 018 (Rev 18) and Polaris combined firmware revision 024 (Rev 24). Read this section if:

- you have written an application for a Polaris System (Passive Polaris, Hybrid Polaris, or enhanced Hybrid Polaris) with Rev 18 firmware, and
- you wish to update the application to function with Polaris Rev 24 firmware.

New Commands

New commands are as follows:

New Command	Description
BX (page 55)	Returns the latest tool transformations, individual marker positions, and system status in binary format.
GETIO (page 80)	Returns the current status of the input/output lines of a synchronization port.
HCWDOG (page 84)	Sets up a host communication timeout check.
PHF (page 102)	Releases system resources from an unused port handle. See “Port Handles” on page 25 for details.
PHINF (page 103)	Returns port handle status, and information about the tool associated with the port handle, including physical port location. See “Port Handles” on page 25 for details.
PHRQ (page 111)	Assigns a port handle to a tool. See “Port Handles” on page 25 for details.
PHSR (page 114)	Returns the number of assigned port handles and the port status for each one. Assigns a port handle to a wired tool. See “Port Handles” on page 25 for details.
SENSEL (page 136)	Sets the IR sensitivity level, or returns the current IR sensitivity level.
SETIO (page 140)	Sets the current status of the input/output lines of a synchronization port.
TX (page 162)	Returns the latest tool transformations, individual marker positions, and system status in text format.

Deprecated Commands

Deprecated commands will no longer be enhanced to support new hardware devices or new API features. Support for deprecated commands may be discontinued in future releases. Deprecated and replacement commands are as follows:

Deprecated Command	Replacement Command
GX	BX (page 55), TX (page 162)
PSTAT	PHSR (page 114), PHINF (page 103)
PVCLR	PHF (page 102)
PVTIP	PHRQ (page 111)