

Release Notes

Development Libraries Release Notes

IMPINJ RAIN RFID READERS (SPEEDWAY® R220 AND R420) AND GATEWAYS (XPORTAL R640 AND XARRAY R680)

ABOUT THIS RELEASE

These release notes are applicable to the following versions of the Impinj Octane Software Development Kit (SDK) and Impinj LLRP Tool Kit (LTK):

APPLICATION COMPATIBILITY

LIBRARY	VERSION
Octane .NET SDK	2.22.0.30
Octane Java SDK	1.22.0.30
.NET LTK	10.22.0.30
Java LTK	10.22.0.30
C++ LTK for Win32	10.22.0.34
C++ LTK for Linux	10.22.0.34
C LTK for Linux	10.22.0.34
LLRP Definitions	10.22.0.30

These libraries are designed to be used in conjunction with the Octane 5.6.x firmware release for the Impinj RAIN RFID Readers (Speedway® R220 and R420) and Gateways (xPortal R640 and xArray R680).

SUPPORTED REGIONS OF OPERATION

Impinj readers and gateways have been certified for use in multiple regions and geographies. A list of supported regions and geographies is available online: www.impinj.com/supported_regions

APPLICATION COMPATIBILITY

APPLICATION	VERSION
Octane Firmware	5.6.x.240

DOCUMENT COMPATIBILITY

DOCUMENT	VERSION
Impinj Speedway Installation and Operations Manual	5.6.2.240
Impinj xArray Installation and Operations Manual	5.6.2.240
Impinj Firmware Upgrade Reference Manual	5.6.2.240
Impinj RShell Reference Manual	5.6.2.240
Impinj Octane SNMP	5.6.2.240
Impinj Octane LLRP	5.6.2.240
Impinj LLRP Tool Kit (LTK) Programmers Guide	5.6.2.240
Impinj Embedded Developers Guide	5.6.2.240

NEW FEATURES AND CHANGES

- All LTKs and SDKs now support connecting to readers over a secured connection. Please see the library-specific documentation for more information on how to make your application take advantage of this new feature.
- All LTKs and SDKs now support Octane's new "Direction" feature for xArray. Please see the library-specific documentation for more information on how to use this new functionality.
- The Java LTK has upgraded the version of Mina it uses to 2.0.9 (up from 1.1.7)
- For xArray-based applications using the SDK, transmit power can now be set inside of the LocationConfig object.
- Two new reader modes are now exposed in the SDK: AutoSetStaticFast and AutoSetStaticDRM. Please see the appropriate SDK's documentation for more information on what these modes do.
- All C and C++ LTKs now rely on the OpenSSL Libraries for network communication. For the Win32 LTK, a copy of libeay32.dll and ssleay32.dll are provided. For the Linux C/C++ LTKs, libraries are only provided for the Atmel architecture to enable linking for on-reader apps. Libraries for other architectures running Linux are not provided as they should already be available from your Linux distribution.

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ISSUES RESOLVED

- For the C, C++ for Linux, and C++ for Windows libraries, we implemented a fix for non-blocking network communication for unencrypted (traditional) connections to the reader. However, if a user is attempting to connect over a TLS-encrypted connection, non-blocking calls to `recvMessage` are still not supported.

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