

## Release Notes

# Development Libraries:

## LTK 10.24.1, SDK 1.24.1/2.24.1

### ABOUT THIS RELEASE

These are development libraries for Impinj RAIN RFID Readers (Speedway® R220 and R420) and Gateways (xPortal R640, xSpan R660 and xArray R680). 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	2.24.1
Octane Java SDK	1.24.1
.NET LTK	10.24.1
Java LTK	10.24.1
C++ LTK for Win32	10.24.1
C++ LTK for Linux	10.24.1
C LTK for Linux	10.24.1
LLRP Definitions	1.24.1

### FIRMWARE COMPATIBILITY

FIRMWARE	VERSION
Octane Firmware	5.8.1

## DOCUMENT COMPATIBILITY

DOCUMENT	VERSION
Impinj Speedway Installation and Operations Manual	5.8.0
Impinj xSpan/xArray Installation and Operations Manual	5.8.0
Impinj Firmware Upgrade Reference Manual	5.8.0
Impinj RShell Reference Manual	5.8.0
Impinj Octane SNMP	5.8.0
Impinj Octane LLRP	5.8.0
Impinj LLRP Tool Kit (LTK) Programmers Guide	5.8.0
Impinj Embedded Developers Guide	5.8.0

## NEW FEATURES AND CHANGES

### LTK 10.24.1, SDK 1.24.1/2.24.1

- New *SingleTargetReset* search mode. Used in combination with *SingleTarget* inventory to speed the completion of an inventory round by setting tags in B state back to A state.
- New *SpatialConfig* class. Used with xSpan and xArray gateways to configure Direction Mode. Used with the xArray gateway to configure Location Mode.
- New *AntennaUtilities* class. Used to provide an easier method of selecting xSpan and xArray antenna beams by rings and sectors.
- New *ImpinjMarginRead* class. Used to check if Monza 6 tag IC memory cells are fully charged, providing an additional measure of confidence in how well the tag has been encoded.

### LTK 10.22.0, SDK 1.22.0/2.22.0

- 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.
- 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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