



Impinj LLRP Tool Kit (LTK) version 10.20.0

Release Notes



About this Release

This is the Impinj LLRP Tool Kit (LTK) version 10.20.0 release for the Impinj RAIN RFID Readers (Speedway® Revolution R220 and R420) and Gateways (xPortal R640 and xArray R680). Impinj LTK version 10.20.0 does not support Speedway IPJ-R1000 readers.

For technical support, contact Impinj:

Email: support@impinj.com

Telephone: 866-IMPINJ-0 (866-467-4650)

Web: <http://support.impinj.com>

Supported Regions of Operation

Impinj LTK version 10.20.0 is supported on the following hardware and regions.

Model / SKU	Region
IPJ-REV-R420-USA IPJ-REV-R220-USA IPJ-REV-R640-FCC IPJ-REV-R680-USA	USA, Canada, Mexico
IPJ-REV-R420-EU1 IPJ-REV-R220-EU1 IPJ-REV-R640-EU1 IPJ-REV-R680-EU1	European Union, India
IPJ-REV-R420-GX1 IPJ-REV-R220-GX1 IPJ-REV-R640-GX1 IPJ-REV-R680-GX1	Various
IPJ-REV-R420-GX2 IPJ-REV-R220-GX2 IPJ-REV-R640-GX2	Various

REV 1.0

www.impinj.com

Copyright © 2015, Impinj, Inc.

Impinj, Octane, and Speedway are either registered trademarks or trademarks of Impinj, Inc.

For more information, contact support@impinj.com

IPJ-REV-R680-GX2	
IPJ-REV-R420-GX3	Australia
IPJ-REV-R220-GX3	
IPJ-REV-R640-GX3	
IPJ-REV-R680-GX3	
IPJ-REV-R420-JPN	Japan (956MHz)
IPJ-REV-R420-JP2	Japan (920MHz)
IPJ-REV-R680-JP2	Japan (920MHz)

New Features and Changes

Version 10.20.0

- None

Version 10.18.1

- CustomParameterDefinition; Subtype: 1523 field BeaconDuration was changed to BeaconDurationSeconds for "ImpinjBeaconConfiguration"
- (27) "Peru_916_928_MHz" Added to "ImpinjRegulatoryRegion"
- (5) "Japan_952_954_MHz" Removed from "ImpinjRegulatoryRegion"
- (6) "Japan_952_954_MHz" Removed from "ImpinjRegulatoryRegion"
- (11) "Japan_952_956_MHz" Without_LBT" Removed from "ImpinjRegulatoryRegion"
- (4) "No_Target" Added to "ImpinjInventorySearchType"
- (5) "Single_Target_BtoA" Added to "ImpinjInventorySearchType"
- CustomParameterDefinition; Subtype: 1554 "ImpinjIntelligentAntennaManagement" was added
- CustomParameterDefinition; Subtype: 1528 "ImpinjSectorID" was removed
- CustomParameterDefinition; Subtype: 1534 "ImpinjTagReporting" was removed
- CustomParameterDefinition; Subtype: 1535 "ImpinjEnableTagReport" was removed
- CustomParameterDefinition; Subtype: 1534 "ImpinjAllowStaleTags" was removed
- CustomParameterDefinition; Subtype: 1545 "TimestampUTC" renamed as "LastSeenTimestampUTC" for "ImpinjLocationReportData"
- (2002) "Impinj_Forklift_Configuration" Removed from "ImpinjRequestedDataType"
 - CustomParameterDefinition, Subtype: 32 was also removed for "ImpinjForkliftConfiguration"
 - CustomParameterDefinition, Subtype: 33 was also removed for "ImpinjForkliftHeightThreshold"
 - CustomParameterDefinition, Subtype: 34 was also removed for "ImpinjForkliftZeroMotionTimeThreshold"
 - CustomParameterDefinition, Subtype: 35 was also removed for "ImpinjForkliftCompanionBoardInfo"
- (1003) Impinj_Array_Capabilities -> Impinj_xArray_Capabilities
 - CustomParameterDefinition, Subtype: 1521 was updated to "ImpinjxArrayCapabilities" from "ImpinjArrayCapabilities"
 - CustomParameterDefinition, Subtype: 1521 description was updated for "ImpinjxArrayCapabilities"
 - Single Bit Field "SupportsTSISpecs" was added to "ImpinjxArrayCapabilities"
- CustomParameterDefinition; Subtype: 1523 field BeaconDuration was changed to BeaconDurationSeconds for "ImpinjBeaconConfiguration"
- Added "ImpinjLocationConfig"



- Moved and Renamed “ReportIntervalSeconds” from “ImpinjLocationReporting” to “ImpinjLocationConfig” as “UpdateIntervalSeconds”
- Renamed MotionWindowSeconds to ComputeWindowSeconds and changed data type from byte data type (0-255) to ushort type (0-65535)
- (2015) “Impinj_Hub_Configuration” Added to “ImpinjRequestedDataType”
- GET_REPORT behavior changed from xArray LP release; now it will NOT re-compute location estimates but instead send the last computed location estimates. Also, if no tags are in field of view, then an empty report is sent.

Resolved Issues

Version 10.20.0

- Fixed issue where Java LTK ImpinjC1G2LocationConfig.setC1G2FilterList(null); causes exception
- Fixed memory leak in the CPP libraries caused by the xmlDecoder class

Version 10.18.1

- Java LTK application no longer depends on external web sites.
- Fixed issue where Java LTK AntennaEvent.getAntennaID() reports an incorrect Antenna ID.
- Fixed memory leak (ProcessNotificationThread in LLRPClient does not terminate) affecting LTK and Octane SDK.
- LTK libraries are now supported on Visual Studio 2012.

Known Issues

- In certain configurations, LTK is able to establish a socket-level connection to the device’s LLRP port (port 5084). However, it takes 60+ seconds to see the connection event come back. The LTK connect methods should be waiting for the READER_EVENT_NOTIFICATION event, with the ConnectionAttemptEvent status set to Success.
WORKAROUND: Add a wait for connection attempt event.

Notices:

Copyright © 2015, Impinj, Inc. All rights reserved.

The information contained in this document is confidential and proprietary to Impinj, Inc. This document is conditionally issued, and neither receipt nor possession hereof confers or transfers any right in, or license to, use the subject matter of any drawings, design, or technical information contained herein, nor any right to reproduce or disclose any part of the contents hereof, without the prior written consent of Impinj and the authorized recipient hereof.

Impinj reserves the right to change its products and services at any time without notice.

Impinj assumes no responsibility for customer product design or for infringement of patents and/or the rights of third parties, which may result from assistance provided by Impinj. No representation of warranty is given and no liability is assumed by Impinj with respect to accuracy or use of such information.

These products are not designed for use in life support appliances, devices, or systems where malfunction can reasonably be expected to result in personal injury.

These products may be covered by one or more U.S. patents. See www.impinj.com/about-us/patents for details.

www.impinj.com

