

LLRP Toolkit

Project Overview

1-21-2009

LLRP Toolkit (LTK)

LRP-Toolkit

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- **What is it?**
 - **Open source software**
 - Programming libraries for building LLRP enabled devices
 - Apache 2.0 license
 - <http://www.sourceforge.net/projects/llrp-toolkit>
 - **Integrated LLRP documentation**
 - With permission from EPCglobal
 - **Community web site**
 - <http://www.llrp.org>

Goals

LLRP Toolkit (LTK)

- **Goals**
 - Accelerate the development of LLRP enabled devices
 - LLRP interfaces for common programming languages
 - Common method to describe LLRP extensions
 - Human readable description of LLRP packets
 - Integrated documentation
- **Out Of Scope**
 - An implementation of LLRP client or reader
 - Define new features or packet for LLRP
 - Provide RFID based applications

Timeline

LLRP Toolkit (LTK)

- **2007 April – LLRP Ratified**
- **2007 May – Community meets to discuss LLRP libraries**
- **2007 June – Project Kickoff**
- **2007 August – Alpha release for LTK-Perl and LTK-C**
- **2007 September – Online packet decoder tools use LTK**
- **2007 October – LTK Java development begins**
- **2008 January – LTK C#.NET beta begins**
- **2008 March – Impinj ships production LTKC/LTK**
- **2008 December – Production release 1.0.0.5**

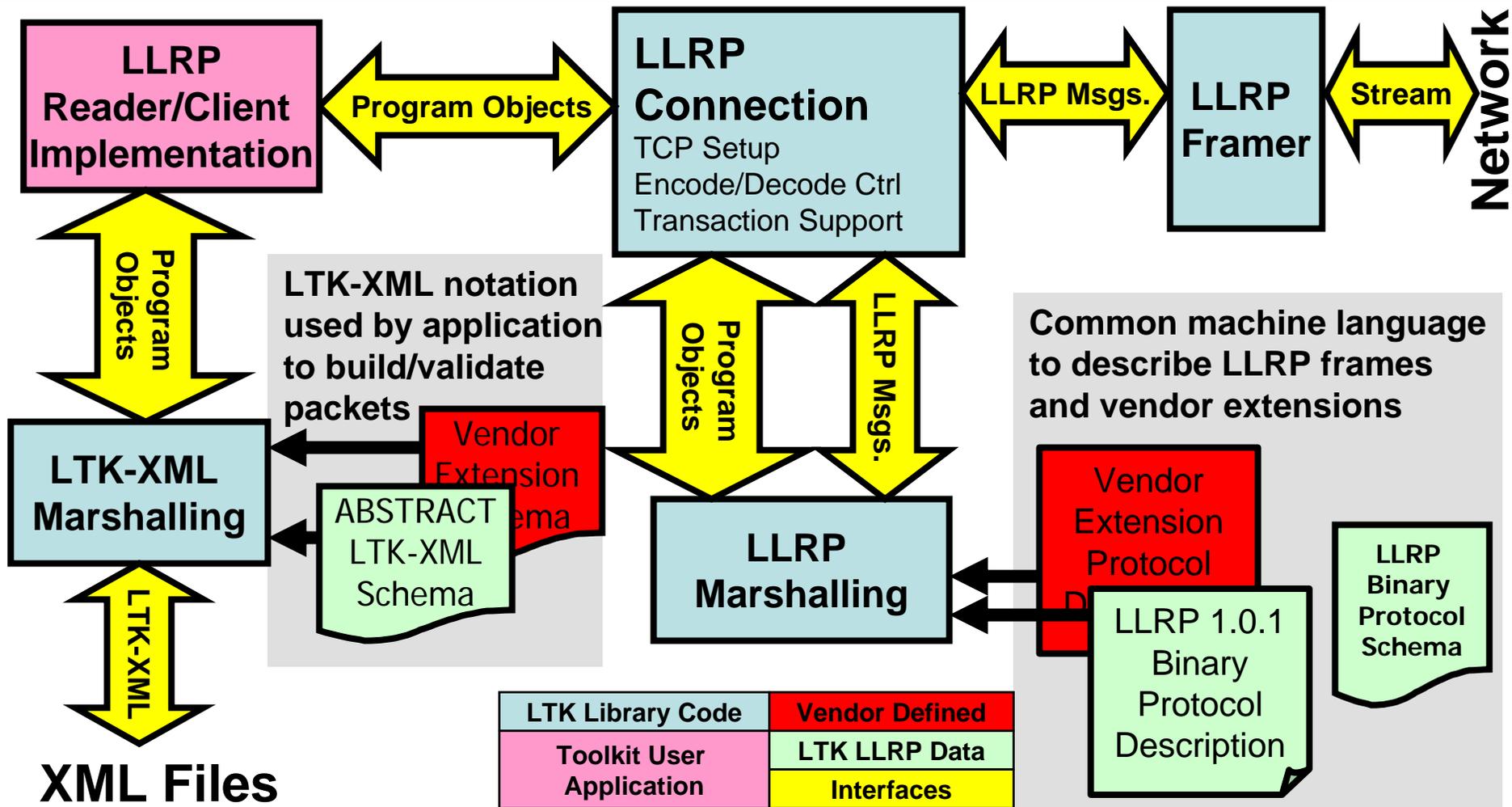
Status

LLRP Toolkit (LTK)

- **Production Libraries available:**
 - C, C++, Java, C#.NET, and Perl
- **Parsing and serialization of all LLRP frames**
- **Converts LLRP packets to LTK-XML**
 - Share among implementations
 - Debug or troubleshoot
- **Complete Vendor extension model**
 - Easily adapt extension into any language
- **Preliminary packet test framework**

Technology/Architecture

LLRP Toolkit (LTK)



Future

LLRP Toolkit (LTK)

- **Packet test framework**
- **LLRP 1.2**
- **More user documentation**
- **LTK-XML for C and C++**