License Guide for
QNX® SDK for Bluetooth® Connectivity 1.0
Version 1.0

(See **Publication History** for version details)

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1. Introduction

This License Guide describes the contents and corresponding licensing attributes the QNX® SDK for Bluetooth® Connectivity 1.0 ("QNX SDK for Bluetooth"). This License Guide is also designed to present the third party licensing considerations that apply to the QNX SDK for Bluetooth. All capitalized terms used but not defined in this License Guide have the respective meanings ascribed to them in the QNX Developer Licenses (as defined below).

QNX Developer Licenses

The QNX SDK for Bluetooth is licensed to you by QNX Software Systems Limited ("QSS") under one of three QNX developer licenses, copies of which are provided in the installation media for the QNX SDK for Bluetooth and which have also been published at the URL below (collectively the "QNX Developer Licenses" or the "QDLs"), which include the following:

   (1) the QNX Commercial Software License Agreement ("CSLA"), for commercial developers;

   (2) the QNX Partner Software License Agreement ("PSLA"), for members of the QNX eco-system; and

   (3) the QNX Evaluation, Non-Commercial & Academic End User License Agreement ("NCEULA"), for non-commercial developers, including evaluators, students and academic faculty members.

Please refer to http://licensing.qnx.com/document-archive/ for these QDLs.

Third Party Software

Like other embedded technology providers, QSS may include a number of third party software contributions in its products. Before adopting Development Tools or Runtime Components, your developers should review this License Guide and the corresponding version of the Third Party License Terms List ("TPLTL"), a copy of which is included in the QNX SDK for Bluetooth installation media or is available at http://licensing.qnx.com/document-archive/, to determine any applicable open source license terms or special considerations that apply to the QNX SDK for Bluetooth product(s) they plan to use. The TPLTL contains the full text of all relevant open source licenses, along with tables listing those that apply to specific binary files that make up the Runtime Components.

Except for published source code files that are expressly identified by QSS as open source software, none of the QNX SDK for Bluetooth components are open source software. To the extent permitted by applicable open source license(s), any licenses identified in the License Guide/Third Party License Terms List or other references identifying applicable open source license terms only apply to the original open source code used by QSS or its licensors and not to any pre-existing code modified using, or combined with, such open source code, or any new interests in derivative works created from such open source code. These other software elements are licensed to you under the terms and conditions of your QNX Developer License.

Relevant Open Source Licenses

To identify the open source license terms for a particular configuration of Runtime Components that you intend to use in your Target System, you start by (1) gathering the legal identification codes ("Legal ID Codes") and/or QNX technology categories from the "End User Licenses" column of this License Guide for the applicable technologies. From there, you can (2) look-up the specific open source license terms for the relevant Legal ID Codes (e.g., "BSD-4C:70" or "UL:61") in the main body of the TPLTL. For QNX technology categories (e.g. "Neutrino Core OS") you go to the File Mapping tables included in the TPLTL. These tables list all of the Legal ID Codes that apply to the referenced QSS technology categories, which can then be cross-referenced to the specific open source license terms in the main body of the TPLTL as described above.

The File Mapping tables allow you to isolate the open source license terms that apply to the particular binary files that you intend to ship. The File Mapping tables are generated from a database tool ("File Mapping database") that QSS uses to map Legal ID Codes to binary files that have been built using the applicable source code files, libraries and header files. The File Mapping tables address all Runtime Component sections of this License Guide and applicable components (including static link libraries). Please contact licensing@qnx.com for any updates to the File Mapping tables, or if it would be helpful for you to have the File Mapping tables in a different format (e.g., in an Excel file).

If a Legal ID Code is referred to generically in the License Guide as one of the families of open source licenses listed in the TPLTL (for example, "BSD-3C" or "UL" without any specific notice numbers), then refer to the File Mapping table for the specific references, or contact licensing@qnx.com for further assistance.

If your developers have downloaded other code from Foundry27™ or the myQNX download center, or if you have included Priority Support Patch updates or custom engineering deliverables from QSS, to be complete, you must also check for additional restrictions or licensing considerations identified on Foundry27, or in the source code you were provided with, and/or you must request a custom report from QSS. Custom reports for these types of files are available from our File Mapping database. Contact licensing@qnx.com for more information.

Of course, any third party and open source license restrictions relating to code your developers have developed or that you have sourced from other licensors will need to be taken into account.

Source code for all copyleft-licensed software is available by contacting licensing@qnx.com. QSS does not sub-license open source software to you. Instead, you have your own direct license from the original licensor. Any terms of your QDL that extend to such software, and that differ from the terms of the applicable open source license(s), are offered to you by QSS alone.

Distribution

A license to distribute Runtime Components is available from QSS as part of the QNX Commercial Software License Agreement (See Schedule C). Custom OEM License Agreements are also available from QSS. For more information see http://licensing.qnx.com/oem-distribution/ or contact licensing@qnx.com.

2. QNX SDK for Bluetooth Overview

The QNX SDK for Bluetooth is a flexible software stack built on top of the QNX Neutrino OS and powered by Mindtree® technology, that developers use to add Bluetooth connectivity to their embedded system and create interoperable devices for consumer, industrial and medical applications. The SDK is compliant with the Bluetooth Core Specification 4.2 and is a dual mode stack that supports both Classic and Low Energy profiles. The product offers different SDK packages that are comprised of the Bluetooth protocol stack and different sets of profiles. Customers license the package that most closely fits their end-product requirements.

Profiles supported in the product across all packages include the following Classic profiles: PAN, SPP, HDP, HID, FTP, and OPP, as well as Low Energy profiles: GATT, BAS, FMP, HRP, HOGP (HID over GATT), and PXP. Additionally, the IEEE 11073 Personal Health Data stack is available for medical applications, and operates over Bluetooth using HDP. Out of the box, the IEEE 11073 PHD stack supports the pulse oximeter and weight scale device specializations. The QNX SDK for Bluetooth consists of the following packages that are standalone licensable software stacks:
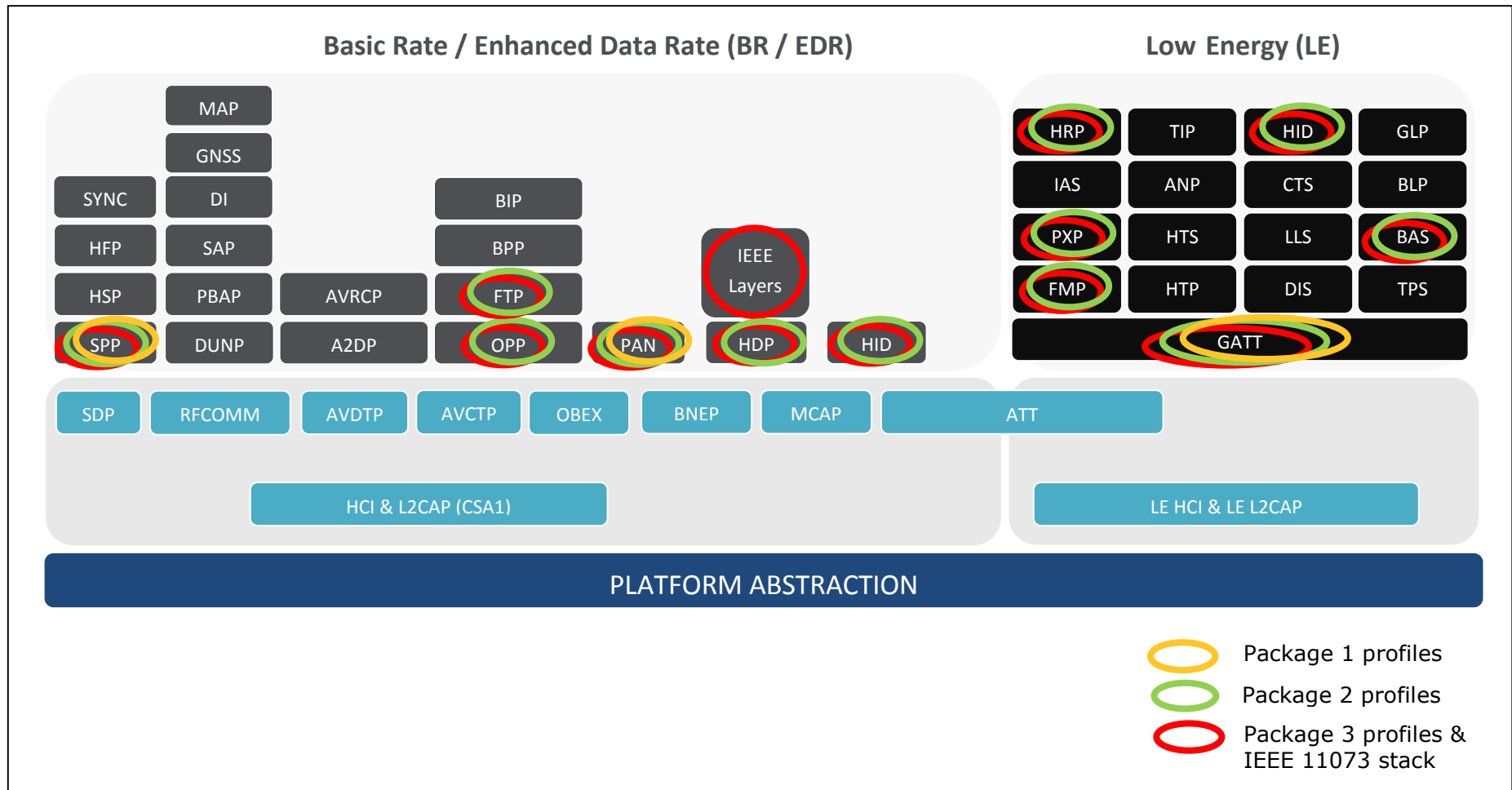
- Package 1: Bluetooth Smart Ready Protocol Stack for Bluetooth core specification version 4.2 with PAN, SPP and GATT profiles;

- Package 2: Bluetooth Smart Ready Protocol Stack for Bluetooth core specification version 4.2 with PAN, SPP, HDP, HID (Host), FTP, OPP profiles and GATT, BAS, FMP, HRP, HOGP and PXP low energy profiles;

- Package 3: Comprises Package 2 and IEEE 11073 stack. The IEEE stack components are integrated via the HDP profile and support the following device specializations out-of-the box:
    - Pulse Oximeter (IEEE 11073-10404)
    - Weighing Scale (IEEE 11073-10415)

The SDK packages have been ported to both ARMle-v7 and x86 processor architectures, and can support any Bluetooth certified radio module or chipset over Host Controller Interface (HCI), with the appropriate HCI driver. Reference implementations are available for the following hardware platforms: OMAP5 uEVM + TI Wilink8, i.Mx6 + TI Wilink8, and Baytrail (NUC) + AzureWave AWCP178NF.
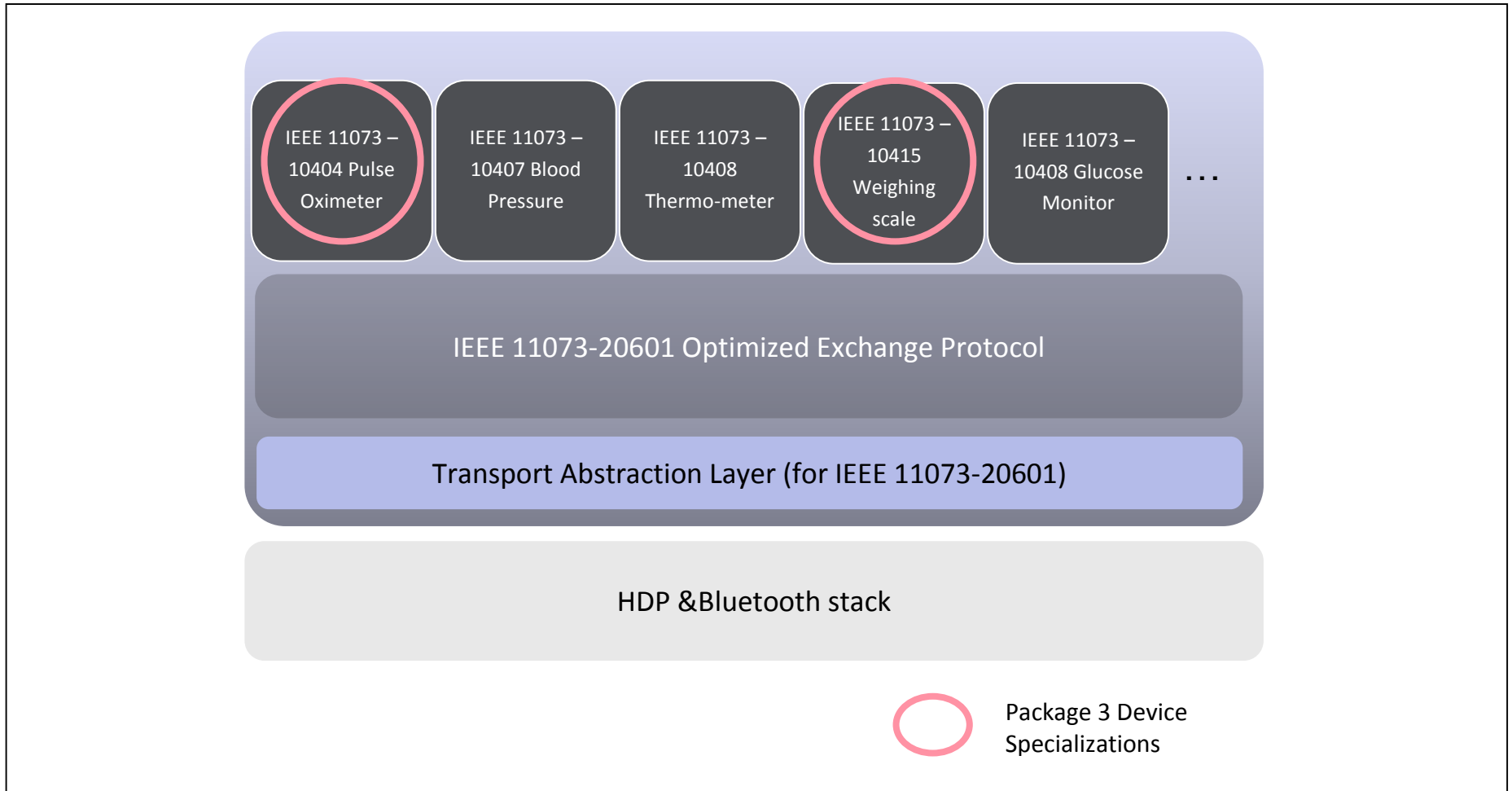
The QNX Software Development Platform v6.6 and related BSPs are a prerequisite for the QNX SDK for Bluetooth and are licensed separately. For more information about the QNX Software Development Platform v6.6.0, please visit http://www.qnx.com/download/group.html?programid=26071 .

NOTE: Bluetooth SIG requires that all Bluetooth branded products satisfy certain qualification requirements for compliance. To receive a copy of the Qualified Design Identification number (QDID) associated with this product, for referencing during your end product qualification, contact your sales representative.

Block Diagrams

QNX SDK for Bluetooth Connectivity 1.0 Packages and Profile Offering

IEEE 11073 Personal Health Data Stack and Device Specializations

The figures above illustrate profiles and device specializations supported in the product. Additional Bluetooth profiles and Device Specializations are available. Contact your QNX sales representative for more information.

3. Licensing Overview

Your QNX Developer License allows you to develop Target Systems using the QNX SDK for Bluetooth package that you have licensed from QSS, as described in your Development License Certificate(s). In addition, a license is available from QSS to create and distribute copies of your Runtime Configuration in or for your Target System (see Schedule C of your QDL, if applicable), provided that Runtime License Certificates are available for all Runtime Components in your Runtime Configuration. You can invoke these optional distribution terms and conditions by purchasing the appropriate Runtime License Certificates from QSS, or from an authorized QNX distributor. Schedule C does not apply unless and until you purchase Runtime License Certificates from QSS, or an authorized QNX distributor. Each Runtime License Certificate expressly authorizes the distribution of a specified number of copies of a specified Runtime Configuration in or for Target Systems in accordance with the terms of your license. Additional Runtime License Certificates can be purchased as required. Contact an authorized QNX sales representative for more information (see http://www.qnx.com/company/contact/).

The next section provides important information to ensure you have obtained all license rights for the technologies you want to use in your Target System. Please contact licensing@qnx.com if you have any questions or require any assistance.

3.1 Engagement Models & Licensing Considerations

The QNX SDK for Bluetooth may integrate a variety of QSS proprietary, open source and third party technologies in order to deliver a broad range of capabilities to embedded developers. In order to develop and ship devices that offer such functionality, it is necessary to understand the various technology and content stakeholders and how to obtain the requisite intellectual property license rights. This can be a complicated picture. It will depend on a number of factors, including the hardware platform to be used, the device's desired capabilities, its intended use(s) and the markets in which the device is to be manufactured, distributed and sold.

This License Guide provides an explanation of the license rights being offered by QSS, as well as other third party licensing considerations that QSS is aware of that may impact your development of products.

None of this information should be construed as legal advice. You must consult your own legal advisor to determine and satisfy your own licensing obligations. Please note that no attempt has been made to identify any content licensing considerations that may need to be taken into account.

To simplify the explanation, QSS has broken the licensing of the QNX SDK for Bluetooth technologies down into the following 2 types of engagement models.

> **A. QSS Licensed or Sublicensed Code** – QSS licenses all of its intellectual property rights embodied in QSS Licensed Code and QSS Sublicensed Code under QSS's standard development and distribution license agreements described at the beginning of this License Guide. QNX SDK for Bluetooth is made up of QSS-authored software licensed to you as "QSS Licensed Code" and proprietary 3rd party code that has been modified or supplemented by QSS and is sublicensed to you as "QSS Sublicensed Code" (together with QSS Licensed Code, the "QSS Licensed or Sublicensed Code"). QSS Licensed or Sublicensed Code may also include elements of open source software, may embody confidential 3rd party specifications, and may embody or enable patented functionality or proprietary off-board services.

Deviations from QSS standard license terms that relate to QSS Licensed or Sublicensed Code are identified in the tables below or in the applicable License Guide Details section of this document. Other 3rd party licensing considerations known to QSS are further described in the Licensing Considerations matrices below, but these matrices should not be assumed to be a comprehensive list or to constitute legal advice. You must consult your own legal advisor to determine and satisfy your own licensing obligations.

B. 3rd Party Licensed Code - These are other components of QNX SDK for Bluetooth that may contain primarily 3rd party code delivered by QSS, which may have been modified or supplemented by QSS. They fall into two main categories, namely:

(i) 3rd party proprietary components – 3rd party proprietary components are generally provided as elements of board support packages, or as part of optional hardware-specific packages.

(ii) 3rd party open source components – 3rd party open source components are provided either as part of the QNX commercially released products you have licensed (e.g., Development Tools) or as an element of a separately downloadable package.

Any QSS IP rights, or sub-licensable rights, in 3rd Party Licensed Code are licensed/sublicensed by QSS under the standard QSS license agreements. However, unlike QSS Sublicensed Code, 3rd Party Licensed Code must be licensed for commercial development and distribution directly from another technology supplier. Any QSS intellectual property rights in 3rd Party Licensed Code (if any) are licensed under the standard QSS license agreement terms and conditions.

4. Interpretation of Column References

The information provided in any row of a product description applies to all of its constituent components, unless otherwise expressly stated.

Column	Content Description
Version	Indicates the version number of the referenced product.
Part Number(s)	Indicates the QSS part number for the referenced product.
Code Provided	Indicates the form of software code provided. "**Source**" indicates that "source code is included", rather than "comprehensive source code for every element of the product is included". "**Object**" means code in binary form.
Support Provided	Indicates the level of support available for the referenced components. "**Full**" means support by QSS under its Standard, Priority and Custom Support Plans or other QSS enhanced support agreements. "**Custom**" means QSS will provide support, but only under the terms of its Custom Support Plan or other QSS enhanced support agreements. "**Limited**" means there are additional limits to the support provided by QSS under any Custom Support Plan or other QSS enhanced support agreements, indicated as follows: "**Limited (Source)**" means QSS will only provide support for the unmodified version of the source code, "**Limited (3rd Party)**" means QSS relies on third parties for support and therefore our ability to provide support will be limited to what those third parties have committed to provide, and "**Limited (Integration)**" means QSS will support issues relating to integration of a third party component with QNX but does not provide support for the integrated component itself. "**Unsupported**" means QSS does not provide support for the referenced component(s).
Type of Software	These terms are used in the QDLs and other QSS license agreements in risk allocation provisions relating to the associated technologies. "**Type I Software**" (also known as "Core Software") indicates Commercially Released Software, other than Type II or Type III Software (see your QDL for definitions of "Commercially Released Software"). It typically includes QSS proprietary code and may include some third party proprietary and open source code elements. "**Type II Software**" (also known as "Collateral Software") indicates Commercially Released Runtime Components identified as "Type II". It may include third party proprietary and some open source code elements. "**Type III Software**" or **"As Is Code"** (also known as "As Is Software") indicates Software that is licensed, or sublicensed by QSS strictly on an "as is" basis. It typically includes primarily Experimental, third party proprietary and/or open source code elements.
Engagement Model	See Section 3.1 for a detailed explanation of Engagement Models.

End User Licenses	Indicates the end user license terms or where to find such terms, including any flow-through terms referenced in the corresponding Third Party License Terms List ("TPLTL") which is published at http://licensing.qnx.com/document-archive/.

* Copies of the QSS QDLs and the TPLTL may also be obtained directly from QNX Software Systems Limited.

5. License Guide Details

5.1 Development Components

QNX SDK for Bluetooth may be made available to licensees through a variety of delivery methods. The following table describes the development components associated with QNX SDK for Bluetooth.

The QNX Software Development Platform is a prerequisite for the QNX SDK for Bluetooth. To develop software with the QNX SDK for Bluetooth, the QNX SDP 6.6 must be installed on the host computer. Please refer to http://licensing.qnx.com/document-archive/ for the most current License Guide details associated with QNX SDP 6.6.

Version Number	Part Number(s)	Description	Code Provided	Support Provided	Type of Software	Engage-ment Model	End User Licenses
1.0	910706	**QNX SDK for Bluetooth Connectivity – Package 1** **Base protocol stack for Bluetooth Core specification v4.2, and includes PAN and SPP Classic profiles, and GATT for Low Energy.**	**Object**	**Full**	**Type I**	**A**	**QSS QDL**
	910707	**QNX SDK for Bluetooth Connectivity – Package 2** **Base protocol stack for Bluetooth Core specification v4.2, and includes PAN, SPP, HDP, HID (host), FTP, OPP Classic profiles, and GATT, BAS, FMP, HRP, HOGP (host), and PXP Low Energy Profiles.**	**Object**	**Full**	**Type I**	**A**	**QSS QDL**

Version Number	Part Number(s)	Description	Code Provided	Support Provided	Type of Software	Engage-ment Model	End User Licenses
	910708	**QNX SDK for Bluetooth Connectivity – Package 3** **Includes all components from Package 2 in addition to IEEE 11073 Personal Health Data stack including IEEE-11073-20601 and device specializations IEEE 11073-10404 (Pulse Oximeter) and IEEE 11073-10415 (Weighing Scale).**	**Object**	**Full**	**Type I**	**A**	QSS QDL
		A. Reference Applications **These are sample Applications provided to demonstrate typical usage of the underlying components.**	**Source**	**Limited**	**Type III**	**A**	QSS QDL

5.2 Runtime Components

The following tables identify Runtime Component technologies that are delivered as part of QNX SDK for Bluetooth.

All Runtime Components are royalty bearing when distributed. Separate distribution licenses are required, as explained in Section 3. Contact an authorized QSS sales representative for more information on Runtime Components.

Version Number	Part Number(s)	Description	Code Provided	Support Provided	Type of Software	Engage-ment Model	End User Licenses
1.0	010538	QNX SDK for Bluetooth Connectivity 1.0 (Package 1)	Object	Full	Type I	A	QSS QDL
	010539	QNX SDK for Bluetooth Connectivity 1.0 (Package 2)	Object	Full	Type I	A	QSS QDL
	010539	QNX SDK for Bluetooth Connectivity 1.0 (Package 3)	Object	Full	Type I	A	QSS QDL

6. Export/Import Information

QNX SDK for Bluetooth may not be exported, imported, used, transferred or re-exported except in compliance with the applicable laws and regulations of the relevant government authorities. Without limitation to the foregoing, QNX SDK for Bluetooth may not be used in the development, production, handling, maintenance, storage, detection, identification or dissemination of chemical, biological or nuclear weapons or their missile delivery systems, or materials or equipment that could be used in such weapons or their missile delivery systems, or resold or exported to anyone or any entity involved in such activity.

For additional information, please contact licensing@qnx.com.

7. Publication History

Version	Date Issued	Reason for Update
1.0	May 19, 2016	QNX SDK for Bluetooth Connectivity 1.0