

# QNX<sup>®</sup> MOMENTICS<sup>®</sup> DEVELOPMENT SUITE & QNX NEUTRINO<sup>®</sup> RTOS v6.3.0 SP3

## LICENSE GUIDE

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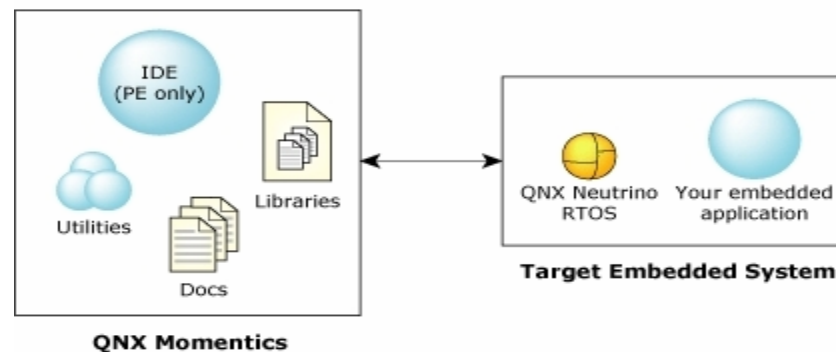
## 1. Introduction

This License Guide describes the contents and corresponding licensing attributes of version 6.3.0 Service Pack 3 of the QNX Momentics Development Suite tools as well as the corresponding QNX Neutrino Real Time Operating System (collectively, the "Software"). It is also designed to present in a convenient manner the third party licensing considerations in the software.

The QNX Momentics Development Suite includes everything you need to build and maintain your QNX Neutrino-based embedded system. There are two versions available: the Standard Edition (SE) and the Professional Edition (PE). The PE version includes everything in the SE version, plus the Integrated Development Environment (IDE), Phindows and the Photon MicroGUI Application Builder for Windows (for Windows environments).

Components included with the QNX Momentics Development Suite are:

- QNX Neutrino Real Time Operating System
- QNX Momentics Base Development Kit: These tools represent the components that are typically used in-house by QNX customers within their embedded device development teams. If Neutrino is the "engine" that will empower the embedded system that you're developing, then QNX Momentics is the "factory" where you modify your engine as well as build, test and finish your product.
- Integrated Development Environment (included only with PE version): This is your toolbox. The IDE's task-oriented interface helps you quickly set up your project, choose your programming language, choose a target processor, compile your code, connect to your target, transfer your application to your target, run it, debug it, profile it and fine-tune it. If you aren't using the IDE, you can use command-line tools to develop applications.



QNX Momentics is the development environment on your host for the QNX Neutrino RTOS running on your target.

After installing your QNX Momentics Development Suite, you are entitled to download the following:

- Binary versions of Board Support Packages (BSPs): BSPs help you get the Neutrino RTOS and your applications running on specific evaluation boards, allowing you to target the best platform for your system.
- Driver Development Kits (DDKs): Full source and detailed documentation to help you write your own drivers for various devices such as audio, graphics, input (mice, keyboards, etc.), network, printer and USB.

Other components available separately (at additional cost) are:

- Technology Development Kits (TDKs): These are kits that augment the base Neutrino OS platform with specialized, value-added technologies. They are packaged separately to help you control costs for systems that you build with QNX Momentics.
- Source code for BSPs

This Guide is broken out into separate tables for each product type listed above, with each table containing a series of columns used to link the applicable attributes to the relevant components. Runtime components are identified separately unless otherwise noted - your developers will select a subset of the runtime components to ship in the devices they develop. Most of these runtime components are bundled with the QNX Momentics Development Tools. Specific export / import information is provided at the end of this Guide.

Most of the Software is licensed to you under version "meula1\_05d" of the QNX Software System End User License Agreement ("QSS MEULA"), a copy of which was provided with the Software and which is also published at [http://licensing.qnx.com/published/eula/meula1\\_05d.html](http://licensing.qnx.com/published/eula/meula1_05d.html). However, like all other operating system technology providers in the embedded marketplace, QSS includes certain third party software contributions in its products. Examples include our Eclipse-based Integrated Development Environment, our GNU-based compiler, linker & debugger tools, our NetBSD based TCP/IP stack, various standard development and runtime utilities, and a host of drivers that incorporate third party code supplied by the vendors of the hardware for which they were written. Third party license terms are a fact of life in any modern embedded development project. When adopting QNX tools or runtime components your developers can review this License Guide to determine any applicable license terms or special considerations that apply to the QNX products they plan to use. To identify the subset of relevant license terms for a particular configuration of runtime components in your target device, gather the applicable references in the License(s) column for the applicable technologies adopted.

A license to distribute runtime components embedded in your product is provided under a separate agreement (e.g., a Runtime License Agreement or an OEM License Agreement). These agreements provide license rights to redistribute "Runtime Components" (as defined in the QSS MEULA). Runtime Components are described in the QNX Neutrino Runtime Components, QNX Momentics TDK and QNX Neutrino BSP & DDK portions of this document. Runtime Components of fully paid up Driver Development Kits and Technology Development Kits generally do not bear additional royalties when distributed for use in association with a corresponding version of QNX. See the Licenses column for details on particular products.

## 2. Product Information

### 2.1 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 of the referenced product.
Code	Indicates the form of software code provided. References to "Source" indicate that "source code is included", rather than "comprehensive source code for every elements of the product is included". "Object" means binaries in object or executable form.
Type	Indicates the Type I, Type II and Type III Software ratings, as defined in the QSS MEULA.
Support	Indicates the level of support provided for the referenced products. "Full" means full support by QSS under its Standard and Priority Support Plans. "Limited" means there limits are imposed on QSS's support - "Limited (Source)" means the limits relate to support of source code and "Limited (3rd Party)" means the limits relate to QSS reliance on third parties for support. "Unsupported" means QSS does not provide support for the referenced component(s).
Licenses	Indicates the end user license terms, including any flow-through terms referenced in the consolidated Third Party License Terms Guide (version 1_05d) ("TPLTG") which is published at <a href="http://licensing.qnx.com/published/eula/TPLTG1_05d.html">http://licensing.qnx.com/published/eula/TPLTG1_05d.html</a> .

\* Copies of the QSS MEULA and the TPLTG may also be obtained directly from QNX Software Systems.

QNX Software Systems International Corporation is the licensing entity for intellectual property owned by QNX Software Systems GmbH & Co. KG. All intellectual property, including without limitation copyrights, formerly held by QNX Software Systems Ltd. are now owned by QNX Software Systems GmbH & Co. KG. Copyright notices in the Software and documentation will be updated in due course to reflect change in ownership.

## 2.2 QNX Momentics Development Tools

The QNX Momentics Development Tools comprise development tools and software development kits that are not redistributable except as expressly provided under the corresponding QNX Neutrino Runtime Component description. In particular, libraries are provided in several different forms. Each type has different redistribution rules, as follows:

- Static archives: these libraries are incorporated directly into executables during compilation. Like header files, they may only be redistributed as part of the larger work that they are used to create. These are ELF files ending in a ".a" extension.
- Dynamic (shared) libraries: these libraries are loaded independently at runtime as needed by executables, in a process that automatically occurs when the application is run. These libraries are redistributable, subject to proper licensing of the corresponding module(s) described in the QNX Neutrino RTOS table. These are ELF files ending in a ".so" extension. Shared libraries are usually found in a directory named "lib".
- Dynamic link libraries (a.k.a. plug-ins): these libraries are loaded on demand under control of the application itself. These libraries are also redistributable under the same terms as dynamic libraries. These are ELF files ending in a ".so" or "dll" extension. Dynamic link libraries are usually found in a directory named "dll"

### 2.2.1 QNX Momentics Base Development Kit

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
6.3.0. SP3	910271 (SE) 910272 (PE)	Complete set of development tools, associated configuration files (e.g., header files for APIs), static libraries and documentation for creating applications for the QNX Neutrino RTOS.	Object	Type 1, except as noted	Full	QSS MEULA, except as noted in any TPLTG references
		A. GNU Tools				GPL
		A1. GNU Compiler Collection (GCC): Complete set of development tools, associated configuration files and static libraries for compiling applications for QNX Neutrino RTOS.				
		A2. GNU binutils: Assembler (gas), Linker (ld) – Tools for manipulation of binary (executable, object) files in development environments.				
		A2. GNU binutils: Assembler (gas), Linker (ld) – Tools for manipulation of binary (executable, object) files in development				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		environments.				
		B. GNU Debugger: GNU debugger (GDB) with remote debugging capability				GPL
		B1. Utilities: Tools used with GDB				OO: 83
		C. Systems libraries and headers				
		C1. QNX system library for OS API				BPL: 1; BSD1: 53; BSD2: 62; OO: 30,82, 84
		C2. Device driver interface: headers and libraries for use with device drivers				LGPL - - lib/asound only
		C3. Legacy libraries: libraries from previous versions of Neutrino and Photon				
		C4. QNX/Dinkum C library				
		C5. Dinkum C++ library and template support				OO:27
		C6. Embedded C++ library and template support (Dinkum abridged library)				
		C7. Networking library				BSD1: 20, 57,72; BSD2: 18; DEC: 9; IBM: 5; ISC: 6; OO: 150, 2, 33, 62, 86
		C8. Compression libraries		Type II		OO: 147, 31
		C9. XML library				
		C10. Encryption libraries				Contact QSS at <a href="mailto:licensing@qnx.com">licensing@qnx.com</a> for details on specific encryption-enabling utilities.
		C11. Image handling libraries: libraries for reading image formats. N.B. QSS does not offer any 3rd party JPEG patent licenses or related infringement indemnification.		Type III		OO: 47, 48, 79  <b>No 3<sup>rd</sup> party patent licenses provided.</b>

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		C12. GNU C++ legacy library: GNU libstdc ++ library from previous versions of Neutrino, for compatibility		Type III		LGPL
		D. Utilities: Command line development tools for object files and executable file manipulation, and utilities tools primarily provided for development purposes.				
		D1. SDK utilities: Tools used for creating applications and boot images				
		D2. QNX development utilities: developer productivity tools				BSD1: 6; BSD2: 30, 78; OO: 142, 57, 58
		D3. QNX development utilities: self-hosted environment utilities				BSD2: 30, 6, 78, 92, 94; OO: 143, 149. 22, 25, 72
		D4. TCPI/IP Development utilities (rpcgen – only for QNX (self) hosted development)				
		D5. Runtime utilities (See QNX Neutrino runtime component table)				
		D6. GNU Development Utilities: version control and other development services				GPL
		D7. GNU Development Utilities: used in development for data transfer				GPL
		D8. GNU Development Utilities: optional/convenience development tools				GPL
		E. Cross-Hosted Development: Provides complete support for QNX Neutrino development under either Windows NT (including Windows XP, Windows 2000), Solaris (SPARC), or Linux (Red Hat) operating systems.				
		E1. Windows host environment: Operating environment for development tools				
		F. Processor Support: Provides complete support for developing QNX Neutrino RTOS				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		applications targeting a variety of processor architectures (32 bit MMU).				
		G. Embedding Tools: Provides complete support for creating boot images for embedded devices, based on single-board computers or custom board designs. Adds features for reduced memory footprint on the target device.				
		G1. Target system development utilities				BSD1: 32
		G2. Utilities (mkifs, mkefs, mkimage, mkrec, dumpifs)				
	Included in 910272 only	H. GUI Connectivity: Photon MicroGUI connectivity tools for the development environment (also known as Phindows software)				CMU: 10
		I. Sample code			Unsupported	

## 2.2.2 QNX Momentics Integrated Development Environment (IDE)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
6.3.0 SP3	Included in 910272	QNX Momentics Integrated Development Environment (IDE) provides a cross-platform, integrated development environment as an added value to the QNX Momentics Development Kit. The IDE provides complete development life cycle tools for QNX Momentics RTOS applications, as well as the ability to “plug in” third party tools in an integrated manner.	Object	Type I, except as noted	Full	QSS MEULA, except as noted in any TPLTG references below.  Licensed on a Licensed Seat or Floating Licensed Seat basis.
		A. Eclipse Platform				See note in Description column re 3 <sup>rd</sup> party contributions in Eclipse
		A1. Java-based IDE framework				
		A2. Graphical Workbench: Workbench for managing projects and their resources				
		A3. Plug-in model for integrating new tools				
		A4. Frameworks for integrating important tool categories (navigators, source code repositories) Cross-platform				
		A5. Java-based tools (same tool for all platforms)				
		<b>Information about 3<sup>rd</sup> party contributions (and their license terms) for the Eclipse IDE may be referenced from the IDE as follows: “Help -&gt; About QNX Momentics IDE -&gt; Plug-In Details”, select each plug-in then “More Info”.</b>				
		B. Target Agent: Target resource request broker				BSD2: 98
		C. C/C++ Code Developer.		Experimental code	Unsupported	
		C1. C Project Manager				
		C2. Project Builder				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		C3. Project creation wizard				
		C4. Syntax-aware editing of C/C++ files				
		C5. File navigation				
		C6. Team Collaboration				
		D. C/C++ Debugger				
		D1. Graphical debugger				
		D2. Application state view				
		D3. Dynamically updating source and data views				
		E. System Builder: Graphical boot image editor.				
		F. Target System Information: Analyzer for visualizing state of target systems.				
		F1. Dynamic system resource views				
		G. Memory Analyzer				
		G1. Dynamic memory views for a process				
		G2. Memory allocation logging and probing				
		H. Application Profiler				
		H1. Post-mortem views of time spent in functions				
		H2. Post-mortem, call tree/call pairs display				
		I. System Profiler: Dynamic time-based visualization tool for behaviour of target system				
		I1. Post-mortem system state transition view				
		I2. Post-mortem view of system execution				
		J. Code Coverage Tool				
		J1. Post-mortem views of basic block execution				
		J2. Post-mortem statistical views				
		K. Sun Java™ 2 runtime environment				OO: 207

### 2.2.3 Photon MicroGUI Development Kit

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
6.3.0 SP3	Included in 910271 and 910272 unless otherwise noted	Development tools, configuration files, static libraries and documentation for creating MicroGUI (Photon) graphical applications.	Object	Type I	Full	QSS MEULA, except as noted in any TPLTG references below.  Licensed on a Licensed Seat or Floating Seat basis.
		A. Photon Application Builder (PhAB): Visual design and code generation tool for graphical applications.				
		A1. Layout of user interface from palette of components (widgets)				
		A2. Resource editors for controlling the properties of any user interface element (widget, icons, bitmaps, etc.)				
		A3. Automated code generation				
		B. Utilities				BSD2: 57
		C. Photon MicroGUI libraries				
		C1. Graphics				CMU: 10
		C2. Widget				
		C3. Application Builder intrinsics				
		C4. Plug-in libraries (images)				
	Included in 910272 only	D. Photon MicroGUI Application Builder for Windows host operating system — (not available for Solaris or Linux hosts)				
		E. Photon Samples			Unsupported	
		E1. Demos				
		E3. Games				OO: 138

## 2.2.4 Driver Development Kits

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
6.3.0 SP3	Included in 910271 and 910272	<p>Basic kits for creating different classes of device drivers.</p> <p>Kits include:</p> <ul style="list-style-type: none"> <li>- Source code driver templates</li> <li>- Sample drivers - Source code exemplars built upon standardized driver frameworks.</li> <li>- Class driver libraries - Libraries to handle common operations for different types of drivers for deeply embedded devices and headers to define interfaces to libraries.</li> <li>- Pre-built debug versions of managers</li> <li>- Complete documentation</li> </ul> <p>Information for the specific drivers included in this DDK has been provided in the QNX Neutrino BSPs and Drivers table below.</p>	Object and source	Type I, except as noted in QNX Neutrino BSPs and Drivers table	Limited (Source)	<p>QSS MEULA, except as noted in any TPLTG references in the QNX Neutrino BSPs and Drivers table.</p> <p>Licensed on a Licensed Seat or Floating Licensed Seat basis.</p>
		A. Driver class kits	Object and source	Type I, except as noted in QNX Neutrino BSPs and Drivers table	Limited (Source)	<p>QSS MEULA, except as noted in any TPLTG references in the QNX Neutrino BSPs and Drivers table.</p> <p>Licensed on a Licensed Seat or Floating Licensed Seat basis.</p>
		A1. Character (serial 8250) Driver Development Kit : sample serial driver, libraries and utilities				
		A2. Audio Driver Development Kit: kit for creating hardware drivers for raw audio capture and playback.				
		A3. Graphics Driver Development Kit: Provides source code for a number of drivers and library utilities shipping with the QNX Photon microGUI, including:				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		A4. Input Driver Development Kit: Provides source code for a number of input modules (mouse, keyboard, touch-screen) and library utilities				
		A5. Network: kit for creation of Ethernet drivers				
		A6. Printer Driver Development Kit: Library with functions for writing code to read and process files, break pages into slices, and return rendered slices for printing				
		A7. USB: development kit (headers & libraries) for creation of new new USB drivers of standard (mouse, keyboard) and other types (e.g. camera, etc.)				

## 2.2.5 Platform Core Source Kit

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
1.0.x	910091, 910138	<p>Source code for most components of the platform core runtime module. It does not include:</p> <ul style="list-style-type: none"> <li>- kernel (including process manager (proc) and microkernel (instrumentation, SMP, QNET Kernel Interface)).</li> <li>- anything provided as part of another TDK or Source Kit, including: <ul style="list-style-type: none"> <li>- Transparent Distributed Processing</li> <li>- Multimedia Frameworks</li> <li>- Character / Serial Drivers</li> <li>- Extended Networking</li> <li>- Other components which QSS is not authorized to distributed because it contains third party confidential information or otherwise</li> </ul> </li> </ul>	Source	Type I	Limited (source)	<p>QSS MEULA, except as noted in any TPLTG references below.</p> <p>Licensed on a Project, Platform or Field of Use basis.</p>

## 2.2.6 Transparent Distributed Processing (Qnet) Source Kit

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
1.0.x	910122, 910139	Development kit for OEMs, enabling them to implement their own transport protocols for transporting Qnet traffic. For example, board-level, box-level interconnect, backplane or switch fabric (RapidIO, etc.)	See below	Type I	Limited (source)	QSS MEULA, except as noted in any TPLTG references below.  Licensed on a Project, Platform or Field of Use basis.
		A. Development Kit — Development components and documentation required to write a protocol for transporting Qnet protocol traffic. Provides the capability to extend distributed processing (message-passing) over a network, back-plane, or other medium of transport.	Object			
		A1. Headers and libraries				
		A2. Documentation				
		B. Source Code	Source			
		B1. Source code to the existing TCP/IP transport protocol for Qnet. Requires Platform Source (see above)				
		B2. Qnet network protocol module				

## 2.2.7 IBM WebSphere Studio Device Developer

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
5.6	910108	Eclipse Platform-based tools for the development of Java 2 Micro Edition applications. WebSphere runtime environments for use in application development.	Object	Type III	Limited (Third Party)	IBM PLA
5.7	910199					Licensed on a per Licensed Seat basis.
		A. Eclipse Platform: Platform for creation of integrated development environments.				
		B. Eclipse work-bench and plug-ins: Tools for embedded Java development.				
		B1. Smart-linker — Java static linker				
		B2. Micro-analyzer — Shows activity on target.				
		B3. On-target debug — Remote debugging support.				
		C. Custom Environment				
		C1. J9 virtual machine				
		C2. Custom configurations				
		D. Micro Environment				
		D1. J9 virtual machine				
		D2. Java 2 Micro Edition compliant runtime configurations				
		<b>Note: Flow-through obligation disallowing sub-setting or super-setting applies to this environment</b>				

## 2.2.8 SNMP Development Components/Kits

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		EMANATE - SRI development components for customizing SNMP network management.	See below.	Type III	Limited (Third Party)	SNMP MEULA. Contact QSS for details.  Limited on a per site basis.
15.3.1.7	008081	A. EMANATE sub-agent development kit — Agent libraries and tools for creating extended agents.	Object			
15.3.1.7	008083	B. EMANATE cross-hosted development kit — Support for extended agent development on Windows NT and Solaris hosts only.	Object			
		B1. MIB compiler, tools and utilities				
15.3.1.7	008079	C. EMANATE Source Tools	Object and Source			See open source license notices in source code.
		C1. EMANATE master agent and sub-agent source code				
		C2. EMANATE sub-agent development kit				
		C3. EMANATE master agent (binary)				
15.3.1.7	008082	D. EMANATE/Lite Sources — Source code to the EMANATE/Lite agent.	Source			See open source license notices in source code.

## 2.3 QNX Neutrino Base Runtime Components

The following tables identify QNX Neutrino realtime operating system runtime technologies that are bundled for development purposes as part of the QNX Momentics Development Suite. Runtime components of Source Kits are covered by the descriptions for the corresponding bundled Neutrino RTOS binaries (i.e., Platform Core for Platform Core Source Kit and Transparent Distributed Processing Source Kit).

Contact an authorized QNX sales representative for runtime distribution license information.

### 2.3.1 QNX 6 Embedded Runtimes [AKA Platform Core] (Runtime Components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
6.3.0. SP3	Included in 910271 and 910272 (for development)  070126 (for runtime components)	Standalone OS functionality, allowing either embedded ROM (e.g. Flash) deployment or network booting. Suitable for either sealed device or connected device configurations. Includes the kernel, core facilities (libraries, services), frameworks and IPv4 networking. In the case of hardware-specific components, third party code is provided to you only for use in association with hardware from that manufacturer.	Object	Type I, except as noted	Full	QSS MEULA, except as noted in any TPLTG references below.  Runtime Royalty Bearing
		A. Kernel: Provides fundamental IPC, scheduling and process management services.				
		A1. microkernel (version 6.3.2)				
		A2. process manager (version 6.3.2)				
		B. System libraries				
		B1. QNX system library for OS API				BPL: 1; BSD1: 53; BSD2: 62; OO: 30, 82, 84, 202
		B2. QNX/Dinkum C library				
		B3. Dinkum C++ library and template support				OO:27
		B4. Embedded C++ library and template support (Dinkum abridged library)				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		B5. Networking library				BSD1: 20, 57, 72; BSD2: 18; DEC: 9; IBM: 5; ISC: 6; OO: 150, 2, 33, 62, 86
		B6. Compression libraries		Type II		OO: 147, 31
		B7. XML library				
		B8. Encryption libraries				
		B9. Image handling libraries: libraries for reading image formats <b>N.B. QSS does not offer any 3<sup>rd</sup> party JPEG patent licenses or related infringement indemnification</b>		Type III		OO: 47, 48, 49  <b>No 3<sup>rd</sup> party patent licenses provided.</b>
		B10. GNU C++ legacy library: GNU libstdc++ library from previous versions of Neutrino, for compatibility		Type III		LGPL
		C. Frameworks — Frameworks for extending the services of the OS. Individual frameworks providing customizable support for specific categories of services.				
		C1. Core services				
		C2. Facilities & resource manager framework				BPL: 1; BSD1: 53; BSD2: 62; OO: 30, 82, 84
		C3. File systems (fsys)				
		C4. Networking (io-net)				
		C5. Power management (client/driver interfaces)				
		C6. Device Driver interfaces				LGPL -- lib/asound only  <b>N.B. Redistribution of devb-* drivers requires</b>

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
						payment of Filesystems royalties or purchase of the applicable Flash File System TDK license
		C7. Input and graphics				OO: 131, 132, 134, 136
		C8. Graphics tools				
		C9. USB				
		C10. Printing				OO: 137, 27
		C11. Audio (io-audio)				
		C12. Multimedia (Basic)				
		C13. Add-on Interface library				
		C14. Media framework — Media library and convenience library.				
		C15. Media format handlers — au, aiff, avi audio, wav formats				
		C16. Filters and Codecs  <b>N.B. QSS does not offer any third party patent licenses (e.g. media format patents – such as MPEG, Dolby, CSS/DVD, WMA, etc. – or coding patents – such as GSM) or related infringement indemnification for Filters and Codecs.</b>		Type III		OO: 107, 159, 162  <b>No 3<sup>rd</sup> party patent licenses provided.</b>
		C17. mixer				
		C18. restore				
		C19. file / stream readers				
		C20. output renderers (e.g. Photon window)				
		C21. Sample player (unmodified)				
		D. Hardware Support				
		D1. Basic board support packages, and derivative works of BSP source code.				
		D2. Core peripherals, and any drivers associated with base OS frameworks.				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		D3. BSP binaries (see BSP and DDK chart for details)				
		D4. Driver binaries — See BSP and DDK chart for details:				
		D5. Graphics				
		D6. Audio				
		D7. Network				
		D8. HID (mice, keyboards, USB)				
		D9. Printers				
		E. Utilities — POSIX command line environment, all POSIX utilities, including shells, file and text manipulation and other utilities.				
		E1. Base utilities — POSIX and Neutrino utilities.				
		E2. POSIX utilities		Type I		ANU: 12; BSD2: 89; OO: 146, 151, 23
		E3. Other QNX and third-party utilities		Type I (except bzip – Type II)		BSD2: 30, 6, 78, 92, 94; OO: 143, 149, 22, 25, 72
		E4. GNU utilities — GPL licensed runtime utilities.		Type III		GPL
		E5. Other GNU utilities — development utilities that may be used in target environments.		Type III		GPL
		F. TCP / IP Networking				BSD1: 12, 14, 24, 41, 5, 76, 8; BSD2: 2, 33, 34, 4, 58, 59, 6, 61, 79, 88, 90; DEC: 10; IBM: 5; ISC: 1, 2, 6; OO: 103, 104, 105, 12, 14, 148, 86, 89, 94
		F1. TCP/IP protocol stack (IPv4) : standard NetBSD (v. 1.6) implementation (IP,				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		forwarding, multicast, UDP, TCP, ICMP)				
		F2. PPP client (PPP, PPPoE) & server				ANU: 11, 16, 17, 18, 5, 8; OO: 10, 78, 79, 9
		F3. Dhcp client				BSD1: 26, 27, 28
		F4. Utilities and Services (RPC, RTP, telnet, rx, ftpd, telnetd, rshd, inetd, etc.)				BSD1: 13, 18, 20, 22, 24, 41, 47, 76, 8, 80; BSD2: 12, 13, 27, 39, 4, 62, 64, 76, 8, 80, 84; DEC: 10; OO: 2, 86, 88, 89
		F5. Remote file systems access (NFS v.2, CIFS, etc.)				ANU: 6, 7, 8; BSD1: 47; OO: 100
		Note: includes encryption software				<b>Contact QSS for details on specific encryption-enabled utilities.</b>
		F6. Embedded Networking — Alternative networking options for resource-constrained devices.				
		G. Transparent distributed processing — Transparent distributed processing over IP networks, or custom (derivative works) transports created using the source kit.				
		G1. <u>npm-qnet</u> — Qnet protocol module				
		H. Instrumentation — Core ("SAT" runtime components) components for the capture, target manipulation, or distribution of instrumentation data (trace information). <b>Note: "Instrumented kernel" means any kernel with instrumentation feature enabled.</b>				
		H1. Trace utilities				
		H2. Trace libraries				

### 2.3.2 Mass Storage File System Technology (Runtime Components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
6.3.0 SP3	010231	File systems for mass storage devices, particularly either rotating media (platter, CD, etc.) or USB mass storage class.	Object	Type I	Full	QSS MEULA, except as noted in any TPLTG references below.  Runtime Royalty Bearing
		A. Block-based file systems:				BSD1: 22; BSD2: 65, 66
		A1. io-block:				
		A2. CD ROM/ DVD (Support for ISO9660 file systems, supporting Rock Ridge extensions and Julliet)				
		A3. DASD / disk				
		A4. USB mass storage				
		A5. disk-on-chip driver				<b>N.B. This driver may only be used to support M-Systems DiskOnChip flash disks.</b>
		B. Formats				
		B1. POSIX / QNX4 * (Full POSIX file semantics) * — Exception for limited use: NAND, RAM in conjunction with Flash file systems and Embedding license				
		B2. Linux (Support for EXT2 file system partitions)				
		B3. DOS (Support for FAT12, FAT16 and FAT32 file systems)				
		<b>N.B. QSS does not offer any Microsoft FAT patent licenses or related infringement indemnification.</b>				<b>No 3<sup>rd</sup> party patent licenses provided.</b>
		C. Virtual file systems — Package (Virtual file			Unsupported	

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		system, supporting unioning of directories)				

### 2.3.3 Photon GUI Technology (Runtime Components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
6.3.0 SP3	010230	All Photon services, libraries and applications, except for graphics drivers themselves, which are covered by the ""Platform Core"" license.	Object	Type I	Full	QSS MEULA, except as noted in any TPLTG references below.  Runtime Royalty Bearing.
		A. Base Graphics and Services				
		A1. Basic graphics facilities and services				
		A2. Libraries				CMU: 10
		A3. Font services				
		A4. Photon server				
		A5. Window manager				
		A6. Task-bar				
		B. Applications and Services				
		B1. Full-scale embedded graphics for a standalone device				BPL: 8; CMU: 30; OO: 139, 154
		B2. Applications				BSD2: 57
		B3. Utilities (configuration, etc.)				
		B4. All productivity applications (dialer, etc.)				

### 2.3.4 IBM WebSphere (Runtime Components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		Runtime environment, providing support for standard Java applications and applets. Support is provided for both Java 2 Micro Edition compliant configurations and custom configurations, based on a subset of the Java 2 Standard Edition specifications. Refer to availability for particular J2ME configurations and profiles supported. Refer to Sun Java Community Process for configuration and profile definitions.	Object	Type II	Limited (Third Party)	QSS MEULA, except as noted in any TPLTG references below.  Runtime Royalty Bearing.
	010258	A. Custom Environment				
		A1. J9 virtual machine				
		A2. Custom configurations				
	010257	B. Micro Environment				
		B1. J9 virtual machine				
		B2. Java 2 Micro Edition compliant runtime configurations N.B. Sub-setting or super-setting is not allowed in this environment.				
		B3. Services Management Framework (SMF)				

### 2.3.5 SNMP Research (Runtime Components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
15.3.1.7	Custom generated only	Runtime redistribution of pre-built or custom SNMP agents created using SNMP Research sub-agent development kit or Source tools.	Object	Type III	Limited (Third Party)	SNMP MEULA, except as noted in any TPLTG references below. Contact QSS for details.  Runtime Royalty Bearing.
		A. Emanate — Full SNMP v1, v2c, v3				
		A1. Binary agent — Pre-built master agent; Extensible sub-agents built using sub-agent development kits				
		A2. Custom Agent — Binary generated from any EMANATE Source Tools.				
		B. Emanate/Lite — Basic SNMP v1, v2c, v3				
		B1. Binary agent — No sub-agents.				
		B2. Custom Agent — Binary generated from any EMANATE / Lite tools.				

### 2.3.6 Asian Language Technology (Runtime Components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
6.3.x	070129	Support for non-European languages, including Unicode font sets, input methods for character composition (for languages with large character sets).	Object	See below.	Full	QSS MEULA, except as noted in any TPLTG references below.  Runtime Royalty Bearing
		A. Fonts		Type II		
		A1. Japanese Stroke Fonts				
		A2. Chinese Stroke Fonts (Traditional)				
		A3. Chinese Stroke Fonts (Simplified)				
		A4. Chinese Stroke Font (Hong Kong Extension)				
		A5. Korean Stroke Fonts				
		A6. Asian Stroke Font Bundle				
		A7. Japanese Truetype Font Bundle				
		B. Input Methods		Type II		BPL: 8, 11 CMU: 13
		B1. Chinese				
		B2. Japanese				
		B3. Korean				
		<b>N.B. QSS does not offer any third party patent licenses or related infringement indemnification for Input Methods.</b>				<b>No third party patent licenses provided</b>

### 2.3.7 Macromedia Flash Plug-In (Runtime Components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
	Included in 910271 and 910272	Browser support for Macromedia Flash 4 web content  Note: For trial purposes only. No OEM licensing available directly from QSS.	Object	Type III	Unsupported – Trial Software	QSS MEULA  Not eligible for runtime distribution

## 2.4 QNX Momentics Technology Development Kits (TDKs)

### 2.4.1a Flash File Systems and Embedding Technology Development Kit (development tool)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
1.0.0 and 1.1.0	910116, 910201, 910202, 910203, 910123, 910151	Resilient file system support for flash media, including support for decompression and compression tools. Resilient to failure, support for NAND or NOR, allows use of POSIX file system modules with flash media (devb-nand). Flash file system support is not required for embedded images (IFS).	Object and source	Type I	Limited (Source)	QSS MEULA, except as noted in any TPLTG references below.  Licensed on a Single Project, Platform or Field of Use basis.
		A. Flash file system — Read/write file systems for different flash parts.				
		A1. FFSv2 — NOR flash file system. (only included in version 1.0.0, not in version 1.1.0)				
		A2. FFSv3 — NOR flash file system with added resilience features.				
		A3. NAND (devb-nand) — NAND block driver for limited use with various file system formats. (devb-nand is not included in version 1.1.0, only in version 1.0.0)				
		A4. ETFS— Resilient transactional file system for flash media. (only included in version 1.1.0, not in version 1.0.0)				
		A5. Inflator tool — on-the-fly decompressor.				
		A6. Deflator tool — off-line compression utility.				
		B. Formats * (only included in version 1.0.0, not in 1.1.0)				<b>* Flash File System runtime license is limited to use with io-block subsystem</b>

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
						and NAND driver (devb-nand).
		B1. POSIX / QNX4 — POSIX file semantics.				
		B2. DOS — Support for FAT12, FAT16 and FAT32 file systems for devb-nand only		Type III		
		<b>N.B. QSS does not offer any Microsoft FAT patent licenses or related infringement indemnification.</b>				<b>No 3rd party patent licenses provided</b>
		C. BSPs — Source code, binaries and documentation to board support packages for QSS-specified reference designs. Each BSP's contents will vary according to the vertical market focus. The BSPs generally include:				
		C1. Board bring-up libraries (IPL, Startup, flash) and headers				
		C2. Embedding Source				
		C3. Source code to board bring-up libraries				
		C4. Source code to driver libraries				
		C5. Validation environments — Source code and pre-compiled debug versions of board support packages for QNX reference platforms.				
		BSP-specific information is provided in the QNX Neutrino BSP tables below.				

## 2.4.1b Flash File Systems and Embedding Technology Development Kit (runtime components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
6.3.x	010273/T0	Covers all uses of resilient flash file systems (ffsv3, etfs) and technologies related to their use (inflator, deflator), as well as RAM file systems ("RAM disk").  The embedding kit also entitles licensees to redistribute components of any BSP, and board bring-up code (drivers, libraries, etc.) in original or modified form.	Object	Type I, except as noted below	Full	QSS MEULA, except as noted in any TPLTG references below.  No additional runtime royalty (note however that runtime distribution may be limited depending on TDK purchased).
		A. Embedded file systems				
		B. NAND — Block driver for use of NAND technology flash parts with supported formats.				
		C. devf-* (FFSv3) — Purpose-specific file systems for NOR technology flash parts.				
		D. RAM — Standalone RAM ("RAM-disk") file system.				
		E. inflator —on-the-fly decompressor				
		F. Block sub-system for limited use with NAND Driver (only included with version 1.0.0, not with version 1.1.0)				BSD1: 22; BSD2: 65, 66
		G. inflator — on-the-fly decompressor				
		H. Formats * (only included with version 1.0.0, not with version 1.1.0) <b>* Flash File System runtime license is limited to use with io-block subsystem and NAND driver (devb-nand).</b>				<b>See note in Description column</b>
		I. POSIX / QNX4 — POSIX file semantics (included in versions 1.0.0 and 1.1.0; QNX4 for devb-nand only)				
		J. DOS — Support for FAT12, FAT16 and FAT32 file systems. (only included with version				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		1.0.0, not with version 1.1.0; with devb-nand only)				
		<b>N.B. QSS does not offer any Microsoft FAT patent licenses or related infringement indemnification.</b>				<b>No third party patent licenses provided.</b>

## 2.4.2a Extended Networking Technology Development Kit (development tool)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
1.0.x	910093, 910204, 910205, 910206, 910125, 910152	IPv6 and private networking (IPSec, IKE2) technologies. Includes all protocol stacks, utilities and services for the corresponding domains.	Object and source, except as noted below.	Type I, except as noted below.	Limited (source) unless otherwise noted below.	QSS MEULA, except as noted in any TPLTG references below.  Licensed on a Single Project, Platform or Field of Use basis.
		A. IPv6 Networking — Protocol stacks (including source code which is an extension to Platform Source).				BSD2: 62; OO: 87, 42
		A1. Stack				
		A2. Utilities & Services				BSD1: 20, 72, 76, 79; BSD2: 81, 82; DEC: 10; IBM: 5; ISC: 4, 5
		B. Secure Private Networking (IPSec) — Protocol stacks (including source code which is an extension to Platform Source).				
		B1. Key management utilities				BSD1: 72, 76
		B2. Security utilities				
		Note: includes encryption software				Contact QSS for details on specific encryption-enabled utilities.
		C. Additional Protocols — Streaming transport and control protocol (e.g. streaming media). For applications requiring timely delivery of streamed data (e.g. VoIP).				BSD1: 70; BSD2: 70
		C1. SCTP				
		D. Management — Provides additional support for networking, such as additional TCP/IP stacks, protocols, daemons (e.g. SNMP v1, v2				BSD1: 3, 41, 81, 82; BSD2: 85, 86,

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		agent) and utilities.				88; CMU: 2, 28; DEC: 10, 11, 13, 14; IBM: 5; ISC: 4; OO: 103, 76, 99
		D1. MIB Compiler Tools and runtime support for v1 and 2 of the SNMP standards				CMU: 14, 17, 18; OO: 101, 102, 96
		E. SNMP Support				
		E1. SNMP v.1, 2, 3 MIB II agent (SRI)	Object	Type III	Limited (Third Party)	BSD2: 100; OO: 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201

## 2.4.2b Extended Networking Technology Development Kit (runtime components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
	010228/T0	IPv6 and private networking (IPSec, IKE2) technologies. Includes all protocol stacks, utilities and services for the corresponding domains.	Object and source, except as noted below.	Type I, except as noted below.	Full, except as noted below.	QSS MEULA, except as noted in any TPLTG references below.  No additional runtime royalty (note however that runtime distribution may be limited depending on TDK purchased).
		A. IPv6 Networking — Protocol stacks (including source code which is an extension to Platform Source).				BSD2: 62; OO: 87, 42
		A1. Stack				
		A2. Utilities & Services				BSD1: 20, 72, 76, 79; BSD2: 81, 82; DEC: 10; IBM: 5; ISC: 4, 5
		B. Secure Private Networking (IPSec) — Protocol stacks (including source code which is an extension to Platform Source).				
		B1. Key management utilities				BSD1: 72, 76
		B2. Racoon (IKE daemon) N.B. Must be ordered separately.				BSD1: 61 BSD2: 23
		B3. Security utilities				
		Note: includes encryption software				Contact QSS for details on specific encryption-enabled utilities.
		C. Additional Protocols — Streaming transport and control protocol (e.g. streaming media). For applications requiring timely delivery of				BSD1: 70; BSD2: 70

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		streamed data (e.g. VoIP).				
		C1. SCTP				
		D. Management – SNMP v1, v2 agent, and others				BSD1: 3, 41, 81, 82; BSD2: 85, 86, 88; CMU: 2, 28; DEC: 10, 11, 13, 14; IBM: 5; ISC: 4; OO: 103, 76, 99
		D1. Utilities (runtime component only)				CMU: 14, 17, 18; OO: 101, 102, 96
		E. SNMP Support				
		E1. SNMP v1, 2, 3 MIB II agent (SRI) – Only includes binary version as provided by QSS	Object	Type III	Limited (Third Party)	BSD2: 100; OO: 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201

### 2.4.3 Advanced Graphics Technology Development Kit (includes both development tool and runtime components, unless otherwise noted)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
2.0	910259, 910260, 910261 (for development tool)  010272/T0 (for runtime components)	<p>2D graphics libraries, open standards-based 3D libraries and use of accelerated 3D graphics drivers. Includes OpenGL® ES API Common Profile version 1.0 libraries and OpenGL® ES API Common Lite Profile version 1.0 libraries for ARM processors, certified by Khronos Group (www.khronos.org). Supported targets include x86, SH4, PPC and ARM.</p> <p>Note that update rights do not provide automatic entitlement to new technologies that may be developed such as OpenVG or Java bindings.</p> <p><b>Note: OpenGL is a trademark of Silicon Graphics, Inc. Contact QSS for details on how to/whether you can present this trademark with your product.</b></p>	See below.	Type II	Limited (Source)	<p>QSS MEULA, except as noted in any TPLTG references below.</p> <p>Development tool is licensed on a Single Project, Platform or Field of Use basis.</p> <p>No additional runtime royalty for runtime components.</p> <p><b>No 3<sup>rd</sup> party patent licenses provided.</b></p>
		A. Development Components (All dynamic libraries listed as a Development Component are distributable as a Runtime Component.)	Object and some Source			
		A1. GF library. Static only				
		A2. Open GL ES Common Profile library. Dynamic only				
		A3. Open GL ES Common Lite Profile library, Dynamic only, ARM only				
		A4. Image support library. Static only				
		A5. header files for gf, GLES_CM, GLES_CL and img libraries				
		A6. header files for Font Fusion libraries 2D and 3D sample code including but not limited to gears, tunnels, etc.				
		C. Runtime Components	Object			

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		B1. Open GL ES Common Profile library. Dynamic only				
		B2. Open GL ES Common Lite Profile library, Dynamic only, ARM only				
		B3. Image support dynamic libraries: bmp, gif, jpg, png, tga				
		B4. Io-display monitor process				
		B5. Accelerated graphic drivers				
		B6. Pre-compiled sample applications built from sample source code				
		<b>Note: QSS does not offer any 3rd party JPEG patent licenses or related infringement indemnification.</b>				
	910119, 910135, 910155	3D Graphics OpenGL ES Source Kit	Source	Type II	Limited (Source)	QSS MEULA, except as noted in any TPLTG references below.  Licensed on a Single Project, Platform and Field of Use basis.
		A. Source code OpenGL ES to libraries  N.B. Not included with Advanced Graphics TDK - must be purchased separately  <b>Note: QSS does not offer any 3rd party JPEG patent licenses or related infringement indemnification.</b>				<b>No 3<sup>rd</sup> party patent licenses provided.</b>

### 2.4.4a Multimedia Framework Technology Development Kit (development tool)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
6.3.x	910120, 910137, 910156	<p>Framework for integration of components for format handling (reading, writing, parsing, streaming) and content handling (coding, decoding) specific media formats. Includes QNX format handlers (in source and binary form), as well the Xing content handlers for MPEG 1 audio and video (on x86 processors only).</p> <p><b>N.B. QSS does not offer any patent licenses (e.g., media format patents - such as MPEG, Dolby, CSS/DVD, WMA, etc.) or infringement indemnification for the Multimedia Framework TDK.</b></p>	Object and source, except as noted below	Type II	Limited (Source)	<p>QSS MEULA, except as noted in any TPLTG references below.</p> <p>Licensed on a Single Project, Platform or Field of Use basis.</p> <p><b>No 3<sup>rd</sup> party patent licenses provided.</b></p>
		A. Development Kit				
		A1. Multi-media framework libraries and headers				
		A2. Headers files for basic decoders; filters in binary form				OO: 107, 159, 162
		B. Source Code* * Initial release may not include full source code				
		B1. Filters and Codecs				OO: 107, 159, 162
		B2. Add-on interface library				
		B3. QNX player (mmplay)				
		B4. Sample applications				
		B5. Media framework (corresponds to binaries provided in Platform Core)				
		B6. Format handlers				
		B7. Content Handlers				
		C. Additional content handlers (source and binary)				OO: 107
		C1. Xing MPEG 1 audio content handlers (x86)	Object			
		C2. MPEG video (ffmpeg) filter				For use with

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
						FFMPEG decoder.  Requires use of FFMPEG decoder (below) under LGPL terms
		C3. MPEG format (parsing)				
		C4. System stream parser				
		C5. Audio/Video elemental stream parsers				
		C6. CDDA (CD audio)				
		C7. Ogg Vorbis				
		<p>C8. ffmpeg — decoding library for MPEG video</p> <p>Decoder required by ffmpeg filter module.</p> <p><b>Note: Dolby audio, which is enabled by the GPL licensed code noted below, is not incorporated into the (Object code) decoder due to patent and copyright licensing considerations. The inclusion of GPL code is merely incidental to the provision of LGPL licensed source code.</b></p>	Object and Source	Type III	Limited (Third Party)	<p>GPL</p> <p>LGPL: 17, 18, 20, 24, 9; OO: 106, 158, 48</p> <p><b>Note: LGPL-licensed ffmpeg code may only be dynamically linked to other QSS-supplied code.</b></p> <p><b>No surround sound. See note in Description column.</b></p>

## 2.4.4b Multimedia Framework Technology Development Kit (runtime components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
6.3.x	010234/T0	<p>Framework for integration of components for format handling (reading, writing, parsing, streaming) and content handling (coding, decoding) specific media formats. Includes QNX format handlers (in source and binary form), as well the Xing content handlers for MPEG 1 audio and video (on x86 processors only).</p> <p><b>N.B. QSS does not offer any patent licenses (e.g., media format patents - such as MPEG, Dolby, CSS/DVD, WMA, etc.) or infringement indemnification for the Multimedia Framework TDK.</b></p> <p><b>N.B.B. The Redistribution rights for the basic components (framework, renderers and simply audio coding methods) are provided with the Platform Core runtime component license. However, an appropriate TDK license is required to redistribute the codecs listed in here.</b></p>	Object	Type II	Limited (Third Party)	<p>QSS MEULA, except as noted in any TPLTG references below.</p> <p>No additional runtime royalty.</p> <p><b>No 3<sup>rd</sup> party patent licenses provided.</b></p>
		A. Framework for multimedia applications				
		A1. Custom media applications player (derivative works) based on modified versions of mmplay				
		B. Filters and codecs – All decoders for different formats, in original or modified form.				
		C1. additional decoders				
		C2. CCDA (CD audio)				<p>For use with FFMPEG decoder.</p> <p>Requires use of FFMPEG decoder (below) under LGPL terms</p>
		C3. Ogg vorbis				
		C4. MPEG 1 system stream handlers (de-				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		multiplex)				
		C5. Xing audio decoder (MPEG 1, layer 1, 2 and 3 (MP3)) – requires floating point				
		<p>C6. MPEG video decode (ffmpeg) – MPEG video decoder required by ffmpeg filter module</p> <p><b>Note: Dolby audio, which is enabled by the GPL licensed code noted below, is not incorporated into the (Object code) decoder due to patent and copyright licensing considerations. The inclusion of GPL code is merely incidental to the provision of LGPL licensed source code.</b></p>	Object and Source	Type III	Limited (Third Party)	<p>GPL</p> <p>LGPL: 17, 18, 20, 24, 9;</p> <p>OO: 106, 158, 48</p> <p><b>Note: LGPL-licensed ffmpeg code may only be dynamically linked to other QSS-supplied code.</b></p> <p><b>No surround sound. See note in Description column.</b></p>

## 2.4.5a Web Browser Technology Development Kit (development tools)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
6.3.x	910121, 910124,	<p>OEM browser development package enabling customization of the user interface for Voyager 1 (HTML 3.2) and Voyager 2 (Access NetFront).</p> <p><b>N.B.: TDK royalty-free redistribution rights do not apply to the Voyager 2 (ACCESS NetFront) browser. However, this TDK is still a pre-requisite to any Web Browser deployment (i.e., still required for OEM use of Voyager 2).</b></p> <p><b>N.B.B. QSS does not offer any 3rd party JPEG patent licenses or related infringement indemnification.</b></p>	See below	See below	Limited (Source) unless otherwise noted below	<p>QSS MEULA, except as noted in any TPLTG references below.</p> <p>Licensed on a Single Project and Platform basis only.</p> <p><b>No 3<sup>rd</sup> party patent licenses provided.</b></p>
		A. Design Materials	Object and source	Type 1		
		A1. PhAB design files for Voyager 2 UI (multiple form factors)				
		A2. Source code to Voyager 2 User interface				
		A3. Command and control				
		A4. PtWebClient widget				
		B. Development Kit — ACCESS NetFront HTML 4.01 user agent. Provided in linkable form	Object	Type II	Limited (Third Party)	
		C. Mozilla Engine (Gecko)	Object	Type III	Unsupported	

### 2.4.5b Web Browser Technology Development Kit (runtime components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
	010233/T0	Provides graphical web browser user interface, access to HTTP services, and framework for integration of different web rendering engines (user agents). Includes a standard HTML 3.2 user agent (Spyglass/Voyager 1).	Object	Type I, except as noted below	Full, except as noted below.	QSS MEULA, except as noted in any TPLTG references below.  No additional runtime royalty, except as noted below.
		A. Voyager 1 (Spyglass) user agent	Object	Type II		OO: 13, 133, 148, 157, 48, 9
		A1. HTML 3.2 user agent				
	010254/T	B. Voyager 2 with ACCESS NetFront technology — NetFront HTML 4.01 user agent	Object	Type II	Limited (Third Party)	Runtime Royalty Bearing  OO: 152, 47, 48

## 2.4.6 Critical Process Monitoring Technology Development Kit (development tool)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
1.0.1	910207, 910208  010229/T0 (runtime component)	Source code to the QNX critical process monitor (HAM) and guardian, for tailoring to specific OEM use. Supersedes HA Customization Kit. Pre-compiled runtime binaries are included with a Momentics Development Seat.	Source	Type I	Limited (Source)	QSS MEULA, except as provided in any TPLTG references below.  Licensed on a Single Project or Platform basis.
		A1. Development components and documentation required to write a critical process monitor for managing service/application availability				
		A2. Headers and libraries				
		A3. Documentation				
		A4. Regression tests				
		A5. Source code to HA manager CPM, and associated components				
		A6. HA manager				
		A7. Guardian				
		A8. Client connection library (recovery)				

## 2.4.7 Adaptive Partitioning Technology Development Kit (includes both development tool and runtime components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
1.0.0	910244, 910250, 910251, 910252, 910253, 910245, 910246 (development tool)  010283/T0 (runtime components)	Includes all libraries and utilities for the adaptive partitioning scheduler for all processors. This requires the QNX Neutrino Core OS 6.3.2 update.	Object	Type I	Full	QSS MEULA, except as noted in any TPLTG references below.  Development tool is licensed on a Single Project, Platform or Field of Use basis.  No additional runtime royalty for runtime components (Note however that runtime distribution may be limited depending on TDK purchased)
		A. Utilities				
		B. Library for Adaptive Partitioning Scheduler				

## 2.4.8 Multi-Core Technology Development Kit (includes both development tool and runtime components)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
1.1.x	910236, 910237, 910238, 910239, 910240, 910241, 910243  010284/T0	Transparent thread scheduling across processors for all multi-core (SMP) processors (i.e. MIPS, PowerPC and x86). This requires the QNX Neutrino Core OS 6.3.2. update. For symmetric processing capabilities for QNX Momentics 6.3.0 SP2 or earlier, please refer to the Symmetric Multiprocessing TDK.	Object	Type I	Full	QSS MEULA, except as noted in any TPLTG references below.  Development tool is licensed on a Single Project, Platform or Field of Use basis.  No additional runtime royalty for runtime components (Note however that runtime distribution may be limited depending on TDK purchased)
		A. Multi-core Enabled kernels — Alternate kernel implementations for building embedded system images.				
		B. Instrumented variants — Multi-core kernels with instrumentation enabled.				

## 2.4.9 Instant Device Activation Technology Development Kit (development tool)

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
1.0.0	910254, 910255, 910256	Enable instant device activation and device control before QNX kernel has booted. This TDK includes additional source code to startup routines as well as sample code illustrating use. CPU targets in 1.0.0 version include PPC, ARM and SH4.	See below.	Type I, unless otherwise noted below.	Limited (Source)	QSS MEULA, except as provided in any TPLTG references below.  Licensed on a Single Project, Platform or Field of Use basis.
		A. Source Code				
		A1. Source development components required to implement Instant Device Activation (aka 'Minidriver') on all supported target CPUs. This includes header files and startup source code.	Source			
		A2. Documentation				
		A3. Source code samples specific to BSPs. With version 1.0.0, BSP samples include: Renesas Biscayne, Freescale MPC5200, TI OMAP 5912 and TI DaVinci. Note that this source code is provided as working examples and is not mandatory.	Source	Type III	Limited. Some techniques for interacting with hardware are specific to CPU and BSP and may include source code from CPU vendor. See individual license headers on source files for details.	
		A4. Sample source code not specific to BSPs	Source			

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		illustrating the techniques of data management and device interaction for all processors				

## 2.5 QNX Neutrino Board Support Packages (BSPs)

The following tables identify QNX Neutrino realtime operating system runtime drivers and board support packages that are licensed for use for development purposes. Board support packages (BSPs) include source code, binaries and documentation for QSS-specified reference designs. The contents of each BSP will vary according to the vertical market focus.

The BSPs generally include:

- Board bring-up libraries (IPL, Startup, flash) and headers
- Embedding source
- Source code to board bring-up libraries
- Source code to driver libraries
- Source code and pre-compiled debug versions of board support packages for QNX reference platforms. This includes board-specific drivers. (see DDK particulars in QNX Neutrino BSPs and Driver tables below), such as: Audio, Network, HID (mice, keyboards, USB), Printers, etc.

Each BSP is packaged for sale individually. Binary forms of all BSPs are freely available to all Momentics customers. Contact an authorized QNX sales representative for runtime distribution license information.

### 2.5.1 BSPs for Standard x86 Reference Platforms

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
			Object and source	Type I, except as noted	Limited (Source)	QSS MEULA, except as noted in any TPLTG references below.  No additional runtime royalty.
		2.5.1.1 BIOS disk boot				
		2.5.1.2 Generic x86 white box PC or SBC				
		2.5.1.3 Disk-based system device startup scripting				

## 2.5.2 BSPs for Standard PowerPC Reference Platforms

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
			Object and source	Type I	Limited (Source)	QSS MEULA, except as noted in any TPLTG references below.  No additional runtime royalty.
1.0.x	200037	2.5.2.1. BSP for Freescale Sandpoint Development Board				
6.3.x	200032	2.5.2.2. BSP for Freescale MPC8260 ADS (Application Development System)				
6.2.1	200018	2.5.2.3. BSP for Freescale MPS8266 ADS (Application Development System)				
1.0.2 6.2.1	200036 200053	2.5.2.4. BSP for Freescale PQ2FADS (Family Application Development System)				
6.3.0	200033	2.5.2.5. BSP for Freescale FADS800 (Family Application Development System)				
1.0.x	200035	2.5.2.6. BSP for Freescale MPC85x0 ADS (PowerQUICC3 Application Development System)				
1.0.1	200054	2.5.2.7. BSP for Freescale CDS MPC85xx				
1.0.x	200052	2.5.2.8. BSP for IBM PPC405 (Development Board)				
1.0.x	200030	2.5.2.9. BSP for IBM PPC440 (Development Board)				
6.2.1	200016	2.5.2.10. BSP for Freescale Lite5200EVB (Evaluation Board)				OO: 131, 165, 203, 204, 205, 206
1.0.x	200034	2.5.2.11. BSP for Freescale Total5200 / Lite5200EVB (Evaluation Board)				OO: 131, 165, 203, 204, 205, 206
1.0.0	200067	2.5.2.12. BSP for Xilinx Virtex ML403 (Evaluation Board)				OO: 177
1.0.x	200061	2.5.2.13. BSP for Xilinx Virtex-II Pro ML300				OO: 177

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		(Evaluation Board)				
1.0.x	200062	2.5.2.14 BSP for Marvell MV64460 (Reference Platform)				OO: 176
1.0.x	200055	2.5.2.15 BSP for Freescale MPC8349 MDS				
1.0.4	200059	2.5.2.16 BSP for Freescale Lite 5200B and Media5200				OO: 131, 165, 203, 204, 205, 206
1.0.0	TBD	2.5.2.17 BSP for Freescale MPC8360E MDS (availability subject to Commercial Release by QSS)				
1.0.0	TBD	2.5.2.18 BSP for Artesyn KatanaQp (availability subject to Commercial Release by QSS)				
1.0.0	TBD	2.5.2.19 BSP for AMCC PPC440 (availability subject to Commercial Release by QSS)				

### 2.5.3 BSPs for Standard MIPS Reference Platforms

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
			Object and source	Type I	Limited (Source)	QSS MEULA, except as noted in any TPLTG references below.  No additional runtime royalty.
6.3.x	200039	2.5.3.1 BSP for NEC Malta (Development Board)				
1.0.x 6.2.1	200038 200003	2.5.3.2 BSP for Broadcom BCM91250/BCM91125 (Development Board) (availability subject to Commercial Release by QSS)				
1.0.0	TBD	2.5.3.3 BSP for PMC-Sierra RM9150 (availability subject to Commercial Release by QSS)				

## 2.5.4 BSPs for Standard ARM family (ARM, StrongARM, Xscale, OMAP) Reference Platforms

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
			Object and source	Type I, unless otherwise noted	Limited (Source)	QSS MEULA, except as noted in any TPLTG references below.  No additional runtime royalty.
6.3.x	200040	2.5.4.1 BSP for ARM Integrator (Development Board)				
6.3.x	200041	2.5.4.2 BSP for Intel DBPXA250DP ("Lubbock")				
1.0.x	200044	2.5.4.3 BSP for Intel DBPXA270DP ("Mainstone")				
1.0.x	200060	2.5.4.4 BSP for TI OMAP 5905 OSK		Type III		N.B. This BSP may be used with DSP devices manufactured by or for Texas Instruments and not with DSP devices manufactured by or for an entity other than Texas Instruments.
1.0.x	200045	2.5.4.5 BSP for TI OMAP 5912 OSK		Type III		N.B. This BSP may be used with DSP devices manufactured by or for Texas Instruments and not with DSP devices manufactured by or for an entity other than Texas Instruments.

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
1.0.x	200063	2.5.4.6 BSP for Intel IXDP2351 (Development Platform)				Limited Availability – only available upon vendor pre-approval.
1.0.x	200043	2.5.4.8 BSP for Intel IXDP2800				Limited Availability – only available upon vendor pre-approval.
6.2.1 1.0.1	200021 200042	2.5.4.9 BSP for Intel IXDP425				OO: 175
1.0.0	TBD	2.5.4.10 BSP for TI DaVinci (availability subject to Commercial Release by QSS)		Type III		N.B. This BSP may be used with DSP devices manufactured by or for Texas Instruments and not with DSP devices manufactured by or for an entity other than Texas Instruments.
1.0.0	200069	2.5.4.11 BSP for Centrality Atlas II (availability subject to Commercial Release by QSS)				
1.0.0	200057	2.5.4.12 BSP for Freescale i.MX31				

## 2.5.5 BSPs for Standard Renesas Reference Platforms

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
			Object and source	Type I, unless otherwise noted	Limited (Source)	QSS MEULA, except as noted in any TPLTG references below.  No additional runtime royalty.
1.0.x 6.2.1	200047 200010	2.5.5.1. BSP for Renesas Big Sur/Amanda				OO: 163
6.2.1	200001	2.5.5.2 BSP for Renesas SH7760 HARP				
1.0.x	200050	2.5.5.3 BSP for Renesas Biscayne (Development System)				OO: 163
1.0.x 1.1.0	200065 TBD	2.5.5.4 BSP for Renesas EDOSK7780 (Development Board) (Version 1.1.0 only available subject to Commercial Release by QSS)				
1.0.x	200064	2.5.5.6 BSP for Renesas Lanbic (Reference Board)				
1.0.x 6.2.1	200048 200007	2.5.5.7 BSP for Renesas System H (Development Board)				OO: 163
1.0.0	TBD	2.5.5.8 BSP for Renesas SDK7785 (availability subject to Commercial Release by QSS)				

## 2.6 QNX Neutrino Driver Development Kits (DDKs)

Driver Development Kits (DDKs) are basic kits for creating drivers of all non-graphical types. They are downloadable entitlements when purchasing a QNX Momentics Development Suite.

Kits include:

- Source code driver templates
- Sample drivers: Source code exemplars built upon standardized driver frameworks
- Class driver libraries: Libraries to handle common operations for different types of drivers for deeply embedded devices and headers to define interfaces to libraries
- Pre-built debug versions of manager
- Complete documentation

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
			Object and Source	Type I, except as noted.	Limited (Source)	QSS MEULA, except as noted in any TPLTG references below.  No additional runtime royalty for runtime components.  DDKs provide a subset of the available drivers, in source code form. Consult the drivers section for third party attributions.
		A. Character (serial 8250) Driver Development Kit				
		A1. Sample serial driver (template)				
		A2. Full source code to the serial driver for 8250 compatible devices				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		A3. PrimeCell serial driver for ARM environments				
		A4. SA1110 serial driver for StrongARM designs based on the SA1110				
		A5. PowerPC 8260 serial driver for designs based on the Motorola MPC8260 family				
		B. Network (Pcnet) Driver Development Kit				
		B1. io-net architecture concepts and data flow examples				
		B2. Discussion of the interfaces used in a QNX network driver				
		B3. Full, commented source to the AMD PCnet driver				
		B4. Artesyn network driver for the Artesyn BSP				
		B5. Crystal Semiconductor network driver for Cirrus Logic Crystal 89xx chipsets				
		B6. Novell NE2000 network driver for NE2000 and compatible chipsets				
		B7. PowerPC 800 network driver for designs based on the Motorola MPC82x				
		B8. PowerPC 860 network driver for designs based on the Motorola MPC860				
		B9. PowerPC 8260 network driver for designs based on the Motorola MPC8260 family				
		B10. SMC 9000 network driver for SMC 91Cxx chipsets				
		B11. Structure and API documentation				
		C. Audio (PCI, template) Driver Development Kit – kit for creating hardware drivers for raw audio capture and playback				
		C1. io-audio architecture concepts and data flow examples				
		C2. Discussion of the interfaces used in a QNX audio driver				
		C3. Sample audio driver				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		C4. Full source to the PCI audio driver for generic PCI audio devices				
		C5. ESS 1938 audio driver for the ESS Solo chipset				
		C6. Structure and API documentation				
		D. Host-Controller interface (io-hid)				
		E. Basic kits for creating Input and Graphics drivers for use with the MicroGUI (Photon)				OO: 131, 132, 134, 136
		E1. Source code driver templates				
		E2. Source code for sample drivers built upon standardized driver frameworks				
		E3. Libraries to handle common operations for different types of drivers for deeply embedded devices and headers to define interfaces to the libraries				
		E4. Pre-built debug versions of managers				
		E5. Complete documentation				
		F. Input Driver Development Kit				
		F1. Sample skeleton for creating a module				
		F2. Sample device module and MS-mouse protocol code				
		F3. Command-line parsing code				
		F4. Code for modules and event bus lines, interfaces, and filter modules				
		F5. Sample input driver with various device and protocol modules				
		F6. Elo touchscreen driver and protocol module				
		F7. Carrol touchscreen driver and protocol module				
		F8. Dyna touchscreen driver and protocol module				
		F9. MicroTouch touchscreen driver and protocol module				
		F10. Gunze AHL driver and protocol module				
		G. Printer Driver Development Kit				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		G1. Library with functions for writing code to read and process files, break pages into slices, and return rendered slices for printing				
		G2. Function to swap the data port into raw data mode for printers				
		G3. Function for generic dithering of algorithms used in all print filters				
		G4. Sample PCL driver				
		H. Graphics Driver Development Kit — Provides source code for a number of drivers and library utilities shipping with the QNX Photon microGUI, including:				
		H1. Driver for IBM VGA-compatible adapters				
		H2. Driver for banked SuperVGA adapters				
		H3. Generic VESA 2.00 linear frame buffer driver				
		H4. Accelerated driver for the Chips and Technologies 655xx and 690xx				
		H5. Accelerated driver for the Intel 82810 and 82815 chipsets, including 2D draw, and the video overlay scaler				
		H6. Accelerated driver for the 3dfx VooDoo Banshee and VooDoo 3 chipsets				
		H7. Accelerated driver for the Chips and Technologies 655xx and 690xx				
		H8. Accelerated driver for the Intel 82810 and 82815 chipsets, including 2D draw, and the video overlay scaler				
		H9. Accelerated driver for the 3dfx VooDoo Banshee and VooDoo 3 chipsets				
		H10. MediaQ MQ200 graphics driver				
		H11. StrongARM SA1110 graphics driver				
		H12. Flat mode graphics driver, for quickly writing dumb frame buffer drivers				
		H13. Library utilities for implementing 2D routines using software rendering and for managing video memory and				

Version Number	Part Number(s)	Description	Code Provided	Type of Software	Support Provided	End-User Licenses
		performing various PCI-related operations				

### 3. Export/Import Information

This Software may not be transferred to: (i) any country prohibited by United States and/or Canadian laws and regulations (presently including Cuba, Iran, Iraq, Libya, Myanmar (Burma), North Korea, Sudan and Syria); (ii) any person or entity prohibited from receiving United States and/or Canadian exports (including, but not limited to, those involved with missile technology or nuclear, chemical or biological weapons); or (iii) any country which requires an import or use permit for encryption technology.

The following chart describes specific import / export reviews:

Country	Description	SE	PE	Automotive Technology*	Extended Networking TDK
U.S.	The Software has had a one time review by the U.S. Bureau of Information Security and the following reflects that review.	Version: QDSL1_05 CCATS # G031830 ECCN 5D002(C.1) License Exception: ENC (740.17(a) and (b)(3)) Country Chart Column: NS1 AT1 Note For Certain Technology: (a) Raccoon add-on is subject to License Exception: ENC (740.17(a) and (b)(2)) (b) SNMP Software is CCATS # G031831 & subject to License Exception: ENC (740.17(a) and (b)(2)). Please also review section 740.17(e)(3) of the EAR.			
France	The Software has been reviewed by the French Direction Centrale de la Securite des Systemes d'Information (DCSSI) which has provided the following import authorization numbers.	33768	43769	13329	43328 Raccoon add-on: 23772 SNMP: 13770