



Qt Receives Certification for Functional Safety

Qt Group Plc Press release 31 May 2018

Qt Safe Renderer receives certification for functional safety standards in automotive, medical device, industrial automation, railway and other safety-critical industries.

Espoo, Finland, May 31, 2018 -- The Qt Company (Nasdaq: QTCOM) today launched the [Qt Safe Renderer](#) 1.0 to seamlessly integrate functional safety compliance into the software development process for safety-critical systems and devices. By giving organizations a head start in meeting industry-specific compliance requirements, the Qt Safe Renderer allows them to focus valuable time and resources towards moving their businesses forward.

Functional safety requirements aim to mitigate unacceptable harm to people by lowering or eliminating the impact of system failures.

Customers that develop safety-critical systems need functionally safe software that complies with their respective industry standards. Functional safety standards validate that software is safe for use in safety-critical systems, such as automotive instrument clusters and medical devices. Since standards differ depending on the industry, there is no one-size-fits-all solution. Therefore, developers need a specialized, stable process to ensure their user interfaces (UIs) and devices comply with functional safety standards.

The new Qt Safe Renderer is closely integrated with the user-friendly Qt tooling, in which designers can easily create safety-critical systems with rich graphical content. Qt Safe Renderer can be used in parallel with traditional Qt-based solutions to show safety-critical content such as warning indicators and text, while other Qt tools render non-safety-critical UI features such as speedometers – all on a single display.

“Customers in various industries expect good usability and modern functionality also from safety-critical systems. Developers are facing a challenge to strike the balance between pushing the edge of innovation and adhering to required safety standards,” says **Tuukka Turunen**, Senior Vice President of R&D, The Qt Company. “Safety should never be compromised, and the Qt Safe Renderer enables them to simultaneously keep safety as a primary focus while creating visually rich next-generation user interfaces, making functional safety a consistent part of safety-critical software development processes.”

The Qt Safe Renderer is certified by TÜV NORD according to the following functional safety standards:

- Functional safety of electrical/electronic/programmable electronic safety-related systems: IEC 61508 SIL 3
- Road Vehicles – Functional Safety: ISO 26262 ASIL D
- Railway Software: EN 50128 SIL 4
- Medical Device Software: IEC 62304

The Qt Safe Renderer can use both certified real-time operating systems (RTOS) and hypervisor technology to separate safety-critical functionalities from non-safety-critical ones.

Media Contacts

10Fold for The Qt Company
Webbo Chen
qt@10fold.com
(415) 800-5367

The Qt Company
Virpi Raski
Virpi.Raski@qt.io
+358 45 106 5363

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To learn more about functionally safe software and Qt Safe Renderer, please visit: www.qt.io/functional_safety

[Qt:n blogi: Released and Certified: Qt Safe Renderer – An ASIL-D Functional Safety Solution](#)

[Qt:n blogi: Functional Safety with the Qt Safe Renderer](#)

Functional Safety with Qt and Qt Safe Renderer webinar: [Functional Safety and Safe Renderer webinar](#)

If you are interested in Qt Safe Renderer, please contact us: www.qt.io/contact-us

About The Qt Company:

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