

ACCESS Company's NetFront Browser Migrates to TLS 1.2 with Confidence

IWL's Maxwell Pro TLS test suite helps leading Japanese software developer implement Transport Layer Security 1.2.

"The Maxwell Pro TLS test suite helped us find and fix bugs as we migrated from the outdated and less secure 1.0 version of TLS to the latest and more robust TLS 1.2. IWL's independent test suite gave our clients assurance in the robustness of the new version of the NetFront Browser."

- Katsuhiko Mihara, Software Engineer

"I found Maxwell Pro very useful. Thanks to Maxwell Pro, we found and fixed several bugs while implementing the TLS 1.2 library. Maxwell Pro is now incorporated in our standard regression tests; we expect to see a 25% decrease in reported bugs."

- Takeshi Hayashi, Program Manager

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ACCESS Company Profile



Since 1984, ACCESS CO., LTD. (Tokyo Stock Exchange Mothers Index, 4813) has provided advanced IT solutions centered around mobile and network software technologies to telecom carriers, consumer electronics manufacturers, broadcasting and publishing companies, the automotive industry and energy infrastructure providers around the world.

The company develops mobile software solutions that have been installed on over 1 billion devices, and network software solutions that have been used by over 250 telecommunication equipment manufacturers.

Utilizing its network virtualization technology skills and knowledge, the company is currently focusing on the development and commercialization of Internet of Things (IoT) and media solutions that combine embedded and cloud technology.

Headquartered in Tokyo, Japan, the company operates subsidiaries and affiliates in Asia, Europe and the United States to support and expand its business globally.

Learn more about ACCESS at www.access-company.com

NetFront™ Browser Profile

NetFront™ Browser

NetFront™ Browser is the most advanced, versatile and powerful full

Internet browser for beyond-PC devices. Specifically designed and optimized to deliver high performance in resource-constrained environments, NetFront Browser supports almost any OS and CPU, and offers low power consumption, easy customization, and a broad range of plug-ins.

These reasons and more are why NetFront Browser is the most widely available mobile Internet browser in the world today. In fact, NetFront products, including NetFront Browser as an embedded Internet browser, have shipped in over one billion devices (as of the end of January 2011) around the world, including mobile phones, digital TVs, set-top boxes, mobile handhelds, game consoles, automobile navigation systems and many other types of products.

Challenge: Insuring RFC Conformance

For a successful protocol migration, ACCESS must test their TLS engine for conformance against the Request for Comments (RFC) 5246 and 6176 documents pertaining to the TLS protocol. RFC is a publication of the Internet Engineering Task Force (IETF) and the Internet Society, the principal technical development and standards-setting bodies for the Internet. These official documents detail the Internet standards and best current practices.

Maxwell Pro TLS test suite gives ACCESS and their clients reassurance that the TLS protocol is properly implemented and secure.

Challenge: Robustness Against Vulnerabilities

The on-going discovery of new TLS vulnerabilities mandates careful and systematic testing of the TLS protocol implementation. Some of the problems reported for TLS implementations were identified and **revealed through conformance and robustness testing**.

Companies must assure product robustness in the face of known and future TLS vulnerabilities. ACCESS uses the Maxwell Pro TLS test suite to affirm that their TLS implementation is not vulnerable to implementation level vulnerabilities such as the POODLE attack.

Testing with Maxwell Pro Reassures ACCESS' customers

Because ACCESS tested with Maxwell Pro, their customers are confident that the TLS 1.2 implementation was subjected to a third party conformance test suite.

"By using Maxwell Pro with the TLS Test Suite, our customers know that our product has gone through a set rigorous tests which insure conformance to the standards and best practices of the Internet"

-Katsuhiko Mihara, Software Engineer

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Want to learn more?



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