

Remote management environment for Ubiquitous devices - SuperJ Engine Framework enhanced: Certified as the OSGi Release 4 Version 4.2 specifications compliant and passed Home Gateway Initiative SWEX Test Suite

Hitachi Solutions, Ltd.(Hitachi Solutions) has reinforced functions of the remote management environment for Ubiquitous devices “SuperJ Engine Framework” which is certified as the latest OSGi service platform Release 4 Version 4.2 specifications (R4 V4.2) by the OSGi Alliance. Hitachi Solutions also participated a test event organized by an European standardization organization “Home Gateway Initiative (HGI) ” and has passed all the test suite of SWEX (Software Execution Environment) based on the OSGi specifications prepared by the HGI. This is another evidence of the “SuperJ Engine Framework” to be an OSGi compliant middleware.

The OSGi specifications is the integrated service platform to develop, provide and manage variety of applications running on Java virtual environment and is defined by a standardization organization – the OSGi Alliance. The supported specification - R4 V4.2 is the latest specification published on September 2009. The SuperJ Engine Framework consists of the framework and services compliant with the OSGi specifications and is a middleware product to enable easy remote installation of applications by deploying on various devices represented by the home gateway (HGW) products.

R4 V4.2 Overview

(1) The access management function among bundles has been reinforced.

It allows more flexible access control by allowing importing packages and obtaining services depending on the digital signature associated with bundles.

(2) The access privilege has been improved.

While it was managing functions of bundles by specifying access privilege by allowing before V4.1, addition to it, it manages functions of bundles by specifying access privilege by denying in V4.2.

The SuperJ Engine Framework supporting those features provides the superior “application deployment” function as a remote management environment for all HGWs.

HGI test event

The purpose of HGI is to spread and promote the home network services and, as its part of activities, defines specifications commonly required to HGWs. HGI also holds the “Test Event” to improve compatibilities. The second annual Test Event was held from 24 November 2010 to 3 December 2010 at Hull UK. The test items in the SWEX test include performance, energy consumption, QoS and OSGi specifications to evaluate HGWs from variety of aspects, and the SuperJ Engine Framework has passed all the test items.

SWEX Test Overview

- (1) Platform Test: tests basic API and Remote management service function of OSGi.
- (2) Robustness Test: tests execution control of inappropriate OS commands and native codes.
- (3) Benchmark Test: tests the benchmark execution to see if there is any problem.

SuperJ Engine Framework has demonstrated to be a suitable OSGi based middleware for HGW by becoming compliant with R4 V4.2 and passing HGI's SWEX Test. Hitachi Solutions will try its best to spread SuperJ Engine Framework as standard infrastructure for worldwide HGW services.

<http://hitachisoft.jp/products/superjengineframework/english/>

OSGi Alliance:

The OSGi Alliance is a worldwide consortium of technology innovators that advances a proven and mature process to create open specifications that enable the modular assembly of software built with Java technology. The OSGi Service Platform facilitates the componentization of software modules and applications and assures interoperability of applications and services over a variety of networked devices.

<http://www.osgi.org/Main/HomePage>

Home Gateway Initiative:

The HGI, founded in 2004 by major broadband service providers (BSPs), and joined by leading vendors of digital home equipment, is shaping the way that IP services are delivered to the home. The HGI publishes requirements for digital home building blocks. Those building blocks are the hardware and software in the digital home that connect consumers and services. They include home gateways, home networks, and home network devices. HGI projects are triggered by the services vision of our BSP members, and build on the technical collaboration of all the HGI participants. The HGI welcomes BSPs and vendors from across the globe. Our members represent the entire spectrum of players in the broadband home area.

<http://www.homegatewayinitiative.org/>

Product Inquiries

URL: <https://www.hitachi-solutions.co.jp/inquiry/> (Japanese only)

Email: superj@hitachi-solutions.com

Press contacts:

Corporate Communications Division

Hitachi Solutions, Ltd.

Email: koho@hitachi-solutions.com

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