

Kiuru HomeMSSP Release 5

Product Fact Sheet

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Product Description

Kiuru HomeMSSP is a Mobile Signature Service (MSS) platform. *Kiuru HomeMSSP* provides mobile signature service functionality for applications and operators to establish open, standard based and secure channel between end users and business applications. *Kiuru HomeMSSP* is a mobile operator system which connects wirelessly to the end users' mobile devices through an SMSC.

Kiuru HomeMSSP software is based on modern Java technology and system design. *Kiuru HomeMSSP* provides interfaces and tools for service monitoring, remote logging and billing reporting. *Kiuru HomeMSSP* server provides high messaging and validation scalability and high availability for signature services.

Key Features

Mobile Signature Messaging

Kiuru HomeMSSP routes MSS signature requests received from Acquiring Entity to end users. End users can sign the requests by using their mobile phones with WPKI SIM cards. *Kiuru HomeMSSP* handles MSS roaming, signature validation and routing back to the Acquiring Entity MSSP.

Mobile User and SIM card Profile Management

Kiuru HomeMSSP provides a MSS registration request interface (*MReg*) for provisioning Mobile User and SIM card information. *MReg* supports multiple simultaneous registration processes against different CA's for complete User Management.

Integration

Kiuru HomeMSSP provides multiple open integration points. All MSSP data sources can be external, routing rules can access JDBC, LDAP, HTTP, SAML2 and SPML2 data sources and all external MSSP interfaces are based on open standards.

Reporting

Kiuru HomeMSSP reporting tool extracts technical MSS transaction data to business transactions. This provides an integration point to fraud control systems, document management and billing systems.

Environment

Operating Environment

Kiuru HomeMSSP is a Java 6/7 server application. Supported server platforms are Linux and Sun Solaris. Extending the platform support requires Mozilla NSS for the platform.

Configuration and Databases

Kiuru HomeMSSP uses a single configuration folder for overall system configuration. Supported databases are PostgreSQL 9, and Oracle 10g.

Performance

Throughput for signature transactions is up to 80 txn/s on x86 hardware. Performance depends on the used routing scenario.

Security

Kiuru HomeMSSP supports SSL connections for all services. SSL certificates and certificate revocation lists can be managed without service breaks.

Routing

Kiuru HomeMSSP provides flexible rule-based SOAP routing. Routing can be done based on signature message elements or external routing services like number portability.

Audit Logging and Monitoring

Kiuru HomeMSSP reporting tool provides remote audit logging. Open audit log interface is based on JDBC. System monitoring is based on SNMP. All MSSP interfaces and routing rules can be monitored.

Standards

PKI

Kiuru HomeMSSP includes a component for signature validation as per RFC 5280. Signature validation is done on FIPS 140 certified validation module. Proof-of-Possession (PKCS#10, CRMF) and validation additional services are supported.

Kiuru HomeMSSP PKI features include CA connectivity with LDAP(S) and HTTP(S) for CRL checking and signature verification as per RFC 5280.

ETSI M-COMM Standards

Kiuru HomeMSSP supports all functions of ETSI TS 102 204. Both synchronous and asynchronous messaging-modes for signature requests are supported.

Kiuru HomeMSSP transaction roaming is fully compatible with ETSI TS 102 207. *Kiuru HomeMSSP* is fully compliant with the FiCom recommendations and extensions.

Modular software and additional modules

Kiuru HomeMSSP has the same flexible module architecture as Servlet engines. You can include new binary modules and use them in your configuration.

Clustering and geo-redundancy

Kiuru HomeMSSP supports clustering. You can do active-passive or active-active cluster. The cluster shares common databases and you can run tenths of servers in the same cluster. The cluster provides you real performance and high-availability for you service.

Additionally you can run the servers in a geo-redundant configuration. The geo-redundant system has a build-in data replication and system state monitoring and you can run the geo-redundant system in both active-active or active-passive mode.

Support for multiple WPKI systems

Kiuru HomeMSSP has a concept of WPKI Profile, which allows you to define WPKI properties for end users or SIM cards. When WPKI Profile is in use, Kiuru HomeMSSP can support multiple different WPKI systems and versions at the same time.

About Methics

Methics Oy is a privately held consulting company specialized in subscriber management and data communication infrastructure development for security, service management and business intelligence. The company offers Java technology based software products under Kiuru-trademark. Kiuru products provide open standard based services for service provisioning and mobile signature services.

