Kiuru AE MSSP Release 5
Product Fact Sheet
v1.21

Product Description

Kiuru Acquiring Entity MSSP is a Mobile Signature Service (MSS) platform. *Kiuru AE MSSP* provides mobile signature service functionality for applications and operators to establish open, standard based and secure channel between end users and business applications.

Kiuru AE MSSP integrates with Application Providers who want to utilize Mobile Signature Services. On the other hand, *Kiuru AE MSSP* may connect to multiple HomeMSSP servers. Thus each application needs to integrate with only one system, *Kiuru AE MSSP*, to reach all the mobile phone users in a single market.

Kiuru AE MSSP software is based on the latest Java and Servlet technologies and system design. *Kiuru AE MSSP* provides interfaces and tools for service monitoring, remote logging and billing reporting.

Kiuru AE MSSP server provides high messaging and validation scalability and high availability for signature services.

Key Features

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

Web Services for Application Providers
Kiuru AE MSSP provides a standard SOAP interface for application connectivity. Kiuru platform provides also additional modules for RADIUS, REST and single sign-on services.

Application User Profile Management
Kiuru AE MSSP provides an SPML2 interface for provisioning application user information.

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

Key management
Kiuru AE MSSP system exports automatically public key material (X.509 certificates) in XML format and you can monitor validity periods and share this material with your partners. Additionally you can use the same tools to import your partner's key material into the MSSP.

Configuration
Kiuru AE MSSP has only one configuration file, which can be split into various subsystem configuration files. You just include these new subsystems configurations in MSSP configuration.

MSS message routing is also configurable. You can build various rules how to make routing decisions. For example you can select different routes for each application provider, define new restrictions for some application providers etc.

In large systems you can use separate configuration management server with revision control and distribute configuration by using RSYNC.

Reporting and logging
Kiuru AE MSSP reporting tool extracts MSS transaction data for business transactions. This provides an integration point to fraud control systems, document management and billing systems.

Kiuru AE MSSP supports vanilla logging (log4j). You can fine tune logging files and content or even use remote logging host.

Modular software and additional modules
Kiuru AE MSSP 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 AE MSSP 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.

Environment

Operating Environment
Kiuru AE MSSP is a Java 7 server application. Supported server platforms are various Linux distributions. Extending the platform support requires existence of Mozilla NSS for that platform.

Configuration and Databases
Kiuru AE MSSP 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 platform. Performance depends on the used routing scenario.

Security

Kiuru AE MSSP supports TLS/SSL connections for all services. SSL certificates and certificate revocation lists can be managed without service breaks.

Routing

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

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

Software

Kiuru AE MSSP is based on the latest Java 7 software technology and it uses Java Security Manager tools. The platform uses Servlet 3 framework.

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 service.

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