Multitenant Kiuru MSSP
Product Fact Sheet v.1.0

Product Description

In a multitenant Kiuru MSSP system, a single MSSP node with a single MSSP configuration (including software, hardware, network, operating system), is shared between several tenants. The multitenant MSSP node can be managed by one or multiple mobile operators and/or enterprises acting as tenants.

The Kiuru MSSP multitenant feature enables a SaaS business model. The MSSP software is licensed to a prime tenant who can acquire new subscription basis tenants and host the software centrally. One MSSP node or a complete MSSP system can be hosted as a multitenant MSS service.

Service account management is done by each tenant and service usage reports can be created for each tenant. The MSSP provides services for Application Providers and Mobile Users which have been defined by tenants. The prime tenant manages the MSS service configuration centrally. The prime tenant may define specific service features available only for some tenant's customers. This can be done by using tenant specific routing rules in the MSSP configuration.

Main System Parts

Multitenant MSSP system has two main service parts: MSS service (based on MSSP role) and MSS service management (Management Entity role). The MSS service that the multitenant MSSP system provides is common for each tenant and equivalent to a system where multiple MSSPs are connected with a Mesh. The MSSP server provides the same database engine, service monitoring capabilities and shared or dedicated OTA and CA connections etc. for each tenant.

The MSS management part separates each tenant into their isolated silos. Each administrative silo is managed by a tenant. One silo may hold any combination of managed accounts like mobile users, application providers, entity users and UICC cards. Managed account uniqueness is handled by MSSP software. For example, the mobile user or application provider can belong to only one silo, and only the silo owner can define access rights for the account.

Key Features

Access Control

MSSP Management operations access can be restricted based on the tenant's AP_ID, managed account and operation classification. An AP authentication is based on mutual TLS authentication and optional user authentication by using Web Service Security Extension. Access righs are managed in MSSP's Entity Database. The prime tenant has a root account for system maintenance purposes.

SOAP or REST

Both ETSI 102 204 MSS Registration (MReg) and Admin REST API interfaces are supported.

Multitenant AE

Multitenant AE MSSP enables acquiring service management for enterprises and operators. A tenant can insert new APs, manage their credentials and their EntityUsers in the MSSP service. For example a tenant can maintain SSO, RADIUS or IdentityIssuer service and corresponding MobileUser's identifiers and authorization directly in the MSSP service.

Multitenant HMSSP

Multitenant HomeMSSP provides wireless and MSSP connectivity for multiple operators in a single HomeMSSP node. A tenant can manage Mobile User accounts, register new Mobile Users and revoke Mobile User certificates.

Tenant

MSSP system tenant and its role can be for example one of following:

1. Multiple domestic mobile network operators provide the same MSS service.
2. Network operator shares the same MSSP server with multiple Mobile virtual network operators.
3. Government issues national identity certificates
4. Corporate tenant registers and manages their employee accounts

Standards
Mobile Signature Service

ETSI TS 102 204 V1.1.4 (2003-08);

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 the Kiuru trademark. Kiuru products provide open standard based services for service provisioning and mobile signature services.