

SINGLE FI

WHITEPAPER

Cloud Based Wireless
Networking Solution

EAP and NON-EAP supporting smart case portal, enhancing the subscriber experience and reducing congestion in 3G networks and provides the user satisfaction.

Single Fi is a cloud Wi-Fi PCRF solution, helping large enterprises to meet carrier grade Wi-Fi access control requirements.

Single Fi is an easy to use hosted public cloud Wi-Fi access control solution of Kron. Single Fi offers operators a comprehensive solution for rising demand of Wi-Fi and ensures considerable increase of business value.

Single Fi brings together all required components for public Wi-Fi including administration module, user management, captive portal capabilities, various protocol request logs, policy management and enforcements, multiple gateway load balancing, bandwidth prioritization and AAA proxy support, truly end-to-end access control solution offering various features like inbuilt DHCP-DNS.

Single Fi, an end-to-end access control solution, is a perfect solution for small venues which are in need of a single Wi-Fi Access Point and also as well as for larger venues requiring hundreds of Access Points.

Single Fi For Industry

Single Fi makes possible to supply all Wi-Fi needs of increasing number of devices such as laptops and tablets which are designed to upload and download anywhere. It finds solutions for mobile operators' urgent needs of more bandwidth in order to satisfy customers in a cost-effective way and helps you to monetize your spaces easily.

Single Fi gives you total power of a service provider at minimum investments.

Customer Benefits

For Operators

- » Reduces congestion in 3G networks and provides the user satisfaction,
- » Helps operators that intend to comprehend Wi-Fi
- » Offload services to be more awareness,
- » Enhances the subscribers experience based on location, context and content,
- » Can be promoted as an independent as well as
- » Wi-Fi VAS service,
- » Supports all EAP-SIM and Non EAP-SIM enabled devices,
- » Targets walk-in customers as potential subscribers, both voucher-based and SMS-based access,
- » Revenue targeting of non-operator users,

For Subscribers

- » Ensures location independent carrier-grade quality of service of Wi-Fi network,
- » Enhances carrier-grade service quality and supplies managed secure access, compared to ad hoc and unmanaged Wi-Fi hotspots,
- » Enables Wi-Fi roaming plan,
- » Enables to connect anytime or anywhere,
- » Shared data plans for subscribers' multiple devices such as smartphones and tablets,
- » Avoids bill shock and provides huge cost savings for customers,

Business Scenarios

Single Fi can be used to support a number of scenarios when deployed with or without network equipment vendors' management systems.

One of the most powerful uses is to create location-aware service business model which is an innovative approach to increase Wi-Fi service penetration. For instance, in case of special events such as football games, concerts or congresses which are organized in stadiums or auditoriums, operators' subscribers will be informed about available free Wi-Fi service by getting SMS notification.

Besides, it is possible to keep subscribers be posted about special offerings of events around that location.

The other prominent scenario is to have capability of providing increasing number of Wi-Fi portable devices in public places such as cafes and restaurants. Augmenting demand for anywhere and anytime connectivity, it is easier to

attract notice of existing operator subscribers with offloaded Wi-Fi. Also, non-operator users can be catered by notifying about your campaigns.

Single Fi can be used for enterprise customers in order to extend Wi-Fi connectivity for large or small organizations. It enables to complete offerings for operators' enterprise users since cost effective results and increases loyalty. Moreover, Single Fi helps to create sell occasions by enabling the registered enterprise users with operator all hotspot access at minimum cost.

Furthermore, Single Fi offers operators enabling mobile data offload to Wi-Fi networks on the purpose of reducing data congestion on cellular networks. For subscribers, it is possible to have multiple devices such as tablets, smartphones and laptops under a single data plan.

Improving service quality and user satisfaction is much more easier with Single Fi.

Key Features

- » User profile management via self-care portal
- » Session management and monitoring capabilities
- » Multi-vendor AP, APC, WAG, AAA device support
- » Alert and notification mechanism regarding service expiration (Quota based)
- » IOS, Android web browser support
- » Open garden web browsing
- » Capability to apply different bandwidth profiles for different user groups
- » Authentication and Registration via SMS
- » Multi-vendor Radius Attribute Dictionary
- » Mapping Support
- » LI integration
- » AAA Radius Accounting log interface for NAT log correlation
- » Restful API for Mobile APPs
- » Top-up/new package purchasing capability (vouchers may also be used in this process other than credit card etc.)
- » Prepaid billing
- » Postpaid billing
- » MAP Adapter - Sigtran HLR interface
- » EAP-SIM Authentication
- » User creation and authentication after online purchasing by credit card etc.
- » Prioritization or special pricing for costumers
- » Location based subscriber radius profile matching
- » Volume Based, Time Based Quota Management
- » Capability to apply charging based on time and/or quota
- » Easily editable landing page allows advertising, interactive questionnaires
- » Virtual Network Operator (Multi-tenancy)
- » Location based branding and advertising
- » EAP-AKA Authentication
- » Diameter Adapter - Diameter HSS Interface
- » Self-care via USSD
- » Geo Redundancy
- » Any time pushed advertisements
- » WISPr support for Wi-Fi roaming
- » Hotspot 2.0 support
- » AAA Multi-protocol Routing

|Kron

For more details
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