RUT900 Hotspot 2.0

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Hotspot 2.0

The **Hotspot 2.0** displays available WiFi interfaces. In order to begin configuring an interface click the 'Edit' button next to it:



After this you should be redirected to the configuration page for that interface.

Hotspot 2.0 Configuration

The main **configuration parameters** of a Hotspot 2.0 interface will be discussed in this section.

A Hotspot 2.0 interface requires WPA2-EAP encryption. You can configure it in the *Network → Wireless* page (click 'Edit' next to an interface and find the Wireless Security section).



General Setup



Field	Value	Description
Enable	off | on; default: **off**	Turns Hotspot 2.0 for this interface on or off.
Internet access	off | on; default: **off**	Is used to inform the client device whether internet access is available.

Access Network Type	Private network | Private network with guest access | Chargeable public network | Free public network | Personal device network | Emergency services only network | Test or experimental; default: **Private network**	The access network type present in beacon and probe response frames. Mobile devices can use this information when selecting a hotspot.
HESSID	mac; default: **none**	Homogeneous ESS identifier (optional). This shall be identical to one of the BSSIDs in the homogeneous ESS.
Roaming consortium OI	3 or 5 octet hexstring; default: **none**	Only first three entries are available through Beacon and Probe Response frames.
Network authentication type	Not configured | Acceptance of terms and conditions | On-line enrollment supported | http/https redirection | DNS redirection; default: **Not configured**	Type of authentication used on this network.
IP Address type availability	Address type not available | Public IPv1 address available | Port restricted IPv4 address available | Single NATed IPv4 address available | Double NATed IPv4 address available | Port restricted IPv4 address and single NATed IPv4 address available | Port restricted IPv4 address and double NATed IPv4 address available | Availability of the address type is not known; default: **Availability of the address type is not known**	Provides information about the IP address version and type that would be available to a mobile device after it authenticates to the network.
Domain name	domain name; default: **none**	The Domain Name ANQP-element provides a list of one or more domain names of the entity operating the hotspot network.
Venue group	various; default: **Unspecified**	Describes the venue in which the hotspot is located.
Venue type	various; default: **Unspecified**	Describes the venue in which the hotspot is located.

OSU Provider

Field	Value	Description
OSU ssid	string; default: **none**	Informs client devices about the SSID used for OSU connections.
OSU server URL	url; default: **none**	Is used to inform the client device whether internet access is available.
Name language code	string; default: **none**	Two or three character language code (ISO-639).
OSU friendly name	string; default: **none**	User-friendly name of an OSU service provider.
OSU NAI	string; default: **none**	OSU network access identifier.

OSU method list	OMA-DM | SOAP-XML; default: **none**	Configures the supported OSU method(s) of the OSU provider.
Description language code	string; default: **none**	Two or three character language code (ISO-639).
Description	string; default: **none**	OSU service description.

WAN Metrics



Field	Value	Description
Link Status	Link up | Link Down; default: **Link up**	Provides information about the WAN link that connects the hotspot to the Internet.
Downlink Speed	integer [1..4294967295]; default: **none**	Maximum downlink speed in Kbps.
Uplink Speed	integer [1..4294967295]; default: **none**	Maximum uplink speed in Kbps.

Venue Name Information

The **Venue Name Information** is used to configure one or more Venue Name values for Venue Name ANQP information. To add a new Venue configuration, click the 'Add' button.



You should see a new entry appear in the Venue Name Information list.



Field	Value	Description
Language Code	string; default: **none**	Two or three character language code (ISO-639).
Venue Name	string; default: **none**	Name of this venue.
Venue URL Information	url; default: **none**	Venue URL to provide additional information corresponding to Venue Name information (the URL should contain protocol).

3GPP Cellular Network Information

The **3GPP Cellular Network Information** section is used to uniquely identify mobile network operators. To add a new mobile operator instance, click the 'Add' button.



You should see a new entry appear in the 3GPP Cellular Network Information list.



Field	Value	Description
Mobile Country Code	integer; default: **none**	Mobile country code (3 decimal digits).
Mobile Network Code	integer; default: **none**	Mobile network code (2 or 3 decimal digits).

Network Access Identifier (NAI) Realm Information

The **Network Access Identifier (NAI) Realm Information** parameters provide information for stations using interworking network selection to allow automatic connection to a network based on credentials. To add a new NAI Realm Information configuration, click the 'Add' button.



You should see a new entry appear in the Network Access Identifier (NAI) Realm Information list.



Field	Value	Description
NAI Realm	url; default: **Link up**	The NAI Realm provides a list of NAI realms corresponding to the Home SPs that can authenticate a client device.
EAP Method	EAP-TLS | EAP-TTLS | PEAP | EAP-FAST; default: **Undefined**	Identifies the EAP method supported by that NAI realm for authentication.
Authentication Parameter	Undefined | Non EAP PAP | Non EAP CHAP | Non EAP MSCHAP | Non EAP MSCHAPV2 | Credential certificate | Credential username/password; default: **Undefined**	EAP method authentication parameter.

Operator Friendly Name

The client device may obtain the **Operator Friendly Name** via GAS/ANQP queries to assist the user during manual hotspot selection. To add a new Operator Friendly Name configuration, click the 'Add' button.



You should see a new entry appear in the Operator Friendly Name list.



Field	Value	Description
Language Code	string; default: **Link up**	Two or three character language code (ISO-639).
Operator's Name	string; default: **none**	Provides a friendly name for the Hotspot Operator.

Connection Capability

The **Connection Capability** section provides information on the status of commonly used communication protocols and ports. To add a new protocol/port configuration, click the 'Add' button.



You should see a new entry appear in the Connection Capability list.



Field	Value	Description
Protocol	ICMP | TCP | UDP; default: **ICMP**	Network protocol type.
Port Number	integer [0..65535]; default: **none**	TCP/UDP port number.
Status	Closed | Open | Unknown; default: **Closed**	Status to be displayed for the selected protocol/port combination.