

AZOTEL 07-01 v100 (2013-06)

S07 – SIMPLer Hotspots SIMPLer Hotspot Systems & Controller Set-up Guide



Phone (Poland): +1-312-239-00007+1-902-339-20 Phone (Poland): +48-71-710-1530 Phone (UK): +44-20-719-3417 Phone (South Africa): +27-11-083-6900 Fax: +353-21-467-1699 <u>info@azotel.com</u>

> Azotel Confidential Proprietary © Azotel Technologies Ltd 2024

Contents

Contents		2
1	Introduction	3
2	Hotspot System Overview	4
2.1	SIMPLer hotspot feature overview and compatibility	4
2.2	Network Layout	7
2.2.1	Simple Hotspot Network Example with HIB-C deployment	7
2.2.2	Hotspot Network Example with Multiple Hotspot Locations with HIB-C deployment	7
2.2.3	Simple Hotspot Network Example with MikroTik deployment	8
2.2.4	Hotspot Network Example with Multiple Hotspot Locations with MikroTik deployment	8
2.3	HIB-C and MikroTik Hotspot Set-Up guide	9
2.3.1	HIB-C (Hotspot-In-a-Box-Client) Hotspot Set-Up Guide	9
2.3.2	MikroTik Hotspot Set-Up Guide.	11
2.4	Share plans.	15
2.5	Hotspot	16
2.5.1	Adding a New Hotspot	17
2.5.2	Deleting an Existing Hotspot	19
2.6	Products	21
2.6.1	Adding a Product	22
2.6.2	Deleting a Product from SIMPLer	24
2.6.3	Modifying an existing product	26
2.7	Tokens	26
2.7.1	Adding Tokens for a Product	27
2.7.2	Deleting Tokens from SIMPLer	29
2.7.3	Reissuing Passwords for Tokens	31
2.8	Graphs	32
2.9	Stats	33
2.9.1	Summary Tables	34
2.10	Usage	35
2.11	Customers	36
2.12	Captive Portal Overview	
2.12.1	Sign Up and Registration Process for online token purchase	
2.12.2	Login Page and Hotspot access.	43
2.13	Customer End User Portal (EUP)	44
3	Customization	47
3.1	Captive Portal and Login page	47
3.1.1	Example of Hotspot Captive Portal and Login Page customization	47
3.2	Terms and Conditions for Customer registration	49
Annex A:	References	50
A.1	Document References	50
A.2	Link References	50
Annex B:	Definitions and Abbreviations	51
B.1	Definitions	
B.2	Abbreviations	
Annex C	Change History	

1 Introduction

The purpose of this guide is to provide a quick start guide to configuring an Azotel HIB-C gateway or MikroTIk gateway and detailed instructions on how to use the Azotel SIMPLer system with Hotspot additions and a hotspot controller which can either be Azotel's HIB-C (Hotspot-In-a-Box Client) or a MikroTik device. The Azotel SIMPLer hotspot system was built based on the requirements of a number of WISPs, and consists of four components:

- 1) SIMPLer server to manage the system, issue tokens, etc (provided by Azotel)
- 2) RADIUS server for authentication and accounting (provided by Azotel)
- 3) HIB-C client or MikroTik device, which sits between the customers network and the Internet.
- 4) Access network could be Wi-Fi Access Points, metro MESH network, wired network (e.g. hotel/apartments), point-to-multipoint RF network, etc (provided by Operator)

As it has been built on the requirements of a number of WISPs, Azotel's Hotspot solution offers AEOs (Azotel Enabled Operators) a highly flexible and cost effective hotspot solution that can be swiftly and efficiently rolled out allowing the Operator full control over network access. Azotel's hotspot solution also supports single or multiple hotspot locations offering an Operator a single platform from which to grow.

2 Hotspot System Overview

The Hotspot billing solution proposed by Azotel is based on client-server environment. Azotel supplies the operator with a network device with HIB-C software, which acts as a hotspot gateway for the Operator's customers. Starting up the hotspot services is very easy. To do that first:

- get an Azotel HIB-C client device from Azotel
- register an operator account with Azotel SIMPLer system
- connect the HIB-C client to a broadband feed and a customers network (WiFi, Mesh, etc)
- add a Hotspot entry to the database
- add at least one product for the hotspot
- generate tokens through tokens page or let your customers buy them online

2.1 SIMPLer hotspot feature overview and compatibility

			Hot	spot Type
Feature		Description	HIB- C	MikroTik
Flexible Product Definition	Limit tokens by duration	Tokens can be limited by duration (mins., hours, days, wweks, months) from first login, and/or by maximum continuous duration (mins.) This can be combined with a data limit, so that the token expires	1	1
	Limit tokens by data	when whichever limit is reached first. Tokens can be limited by total traffic (MB). This can be combined with a duration limit, so that the token expires when whichever limit is reached first.	1	Х
	Simultaneous use check	Tokens can be configured to allow just a single concurrent user, or an unlimited number.	1	1
	Fixed expiry date	Tokens can have a specific termination data, after which they can't be used.	1	1
	Hidden Products	Products can be specified as hidden, so tokens using this product can be generated within SIMPLer, but cannot be purchased online.	1	1
Flexible Pricing Options	Ability to specifiy tax rate	The tax rate to be applied to token charges can be specified for each product.	1	1
	Support for free service	Tokens can be generated with a zero cost. This is useful if an operator wants to provide a free trial service. Detel Confidential Proprietary	1	1

	Azo	tel Confidential Proprietary		
	Sreamlined	Where possible, data fields during the		
Captive Portal	Customisation of portal pages	Captive portal pages can be customized to match the operator's branding, and the desired look and feel.	✓	✓
	Token portability	Tokens generated on one hotspot can be used on other hotspots. This allows customers purchasing longer-term tokens to have flexibility in where they use those tokens.	√	1
Radius Support	Integrated Radius Server	SIMPLer comes with an integrated Radius server, which stores and authenticates token data.	✓	✓
	Per token	Usage graphs per token can be viewed, to help understanding of customer usage patterns and diagnosis of any network problems.	1	1
Usage Graphs	Per hotspot	Overall usage graphs for the hotspot can be viewed, to help in diagnosing any network problems, and to ensure that the service is not being overloaded.	✓	Х
Bandwidth Management	Maximum upload and download rates	Maximum upload and download rates can be configured per token, so as to prevent heavy users from overloading the service.	√	1
	Pre-generated tokens	through a credit card payment gateway. Tokens can be generated in advance within SIMPLer, so that they can be sold or distributed at retail outlets, hotel check-in desks etc.	√	1
Token Generation	Online token purchases	Tokens can be purchased online, with payments being processed via credit card	1	1
	Single Usage Option	This is typically used when a free trial service is provided. The MAC address is captured and recorded when a user signs up, and subsequent sign-ups for the same product by that MAC address are blocked. This prevents the same user from repeatedly signing up for the free trial service.	1	1

© Azotel Technologies Ltd 2024

	registration process	sign up process are auto-populated. At the end of the process the user can login in with a single click using the token details, which have just been provided, rather than having to go back to the login page to enter these again.	1	X
End User Portal	Automatic portal creation	When a user registers for the hotspot service, an individual end-user portal can be automatically created for them.	1	1
	Ability to view and update personal details	The end user can view and edit their personal details (name, address, email, phone etc.)	1	1
	Ability to view and update credit card information	The end user can view and update their credit card details, which can be used when purchasing additional tokens.	1	1
	Ability to view toekn status	The end user can view their current tokens, and the status of each of them.	1	1
	Ability to purchase additional tokens	The end user can purchase additional tokens directly from the portal.	1	1
Reporting	Hotspot Statistics	The operator can view overall and per- hotspot statistics. These include the number of tokens, usage, total income, total tax etc.	✓	√
Payment Gateways	Authorize.Net	SIMPLer supports an interface to the Authorize.Net payment gateway for processing of credit card charges.	1	1
	Moneris	SIMPLer supports an interface to the Moneris payment gateway for processing of credit card charges.	1	1
	Paypal	SIMPLer supports an interface to the PayPal payment gateway for processing of credit card charges.	1	1
	Realex	SIMPLer supports an interface to the Realex payment gateway for processing of credit card charges.	1	1

2.2 Network Layout

2.2.1 Simple Hotspot Network Example with HIB-C deployment



Fig 2.2.1-1 Simple Example of Hotspot Network Diagram with HIB-C deployment

2.2.2 Hotspot Network Example with Multiple Hotspot Locations with HIB-C deployment



Fig 2.2.2-1 Hotspot Network Diagram with Multiple Hotspot Locations with HIB-C deployment



2.2.3 Simple Hotspot Network Example with MikroTik deployment

Figure 2.2.3-1 Simple Example of a Hotspot Diagram with MikroTik deployment

2.2.4 Hotspot Network Example with Multiple Hotspot Locations with MikroTik deployment





Azotel Confidential Proprietary © Azotel Technologies Ltd 2024

2.3 HIB-C and MikroTik Hotspot Set-Up guide

2.3.1 HIB-C (Hotspot-In-a-Box-Client) Hotspot Set-Up Guide

I. Connect the HIB-C

- 1) Locate an optimum location in your network for the HIB-C.
- 2) Connect the included crossover Ethernet network cable to the LAN3 port of the HIB-C (fig. 2.3.1-1). Connect the other end of the network cable to a Laptop or a Desktop PC.
- 3) Note: Certain versions of the HIB-C hardware only contain two LAN ports in this case connect the Ethernet network cable to the LAN1 port.



Fig. 2.3.1-1. Azotel HIB-C back panel

- 4) Connect the power adaptor to HIB-C's Power port. Only use the power adapter supplied with the HIB-C. Use of different adapter may result in product damage.
- 5) Press power button on front panel to power up HIB-C (fig. 2.3.1-2)



Fig. 2.3.1-2. Azotel HIB-C front panel

II. Setup the HIB-C

1) Setup following IP settings on your laptop's Ethernet interface:

IP address: 192.168.168.1

Subnet mask: 255.255.255.0

- 2) Open an Internet Browser e.g. Microsoft Explorer
- 3) Use http://192.168.168.168 as the URL address
- 4) Authentication box will appear. Use following credentials:

Username: admin

Password: operator

Azotel Confidential Proprietary © Azotel Technologies Ltd 2024



Fig. 2.3.1-3 HIB-C web interface authentication page

5) The HIB-C configuration screen should appear on your monitor. Fill in HIB network settings with the broadband feed details (IP address, Mask length, Default gateway, DNS settings).

HIB settings:				
HIB NUMBER WISPer IP	200 84.203.220.249	_		
VLAN ID				
HIB network settings	HIB IP address		172.16.1.3	/ 24
	HIB default gatev	vay	172.16.1.1	
	HIB DNS		8.8.8.8	
			8.8.4.4	
HIB Radius / UAM settings	Radius Server 1	10.6.20	0.1	
	Radius Server 2	10.6.20	0.1	
	Radius Secret	az0s3cr3t		
	Radius NAS ID	acme_acme_hs_1		
	UAM Server	https://est1.azotel.com/hotspot/login.p		ot/login.pl
	UAM Secret	testing1	23	
	UAM allowed hosts	84.203.2	220.249	
	UAM Home Page			
	Hotspot Clients IP Network	192.168	.180.0/22	

Fig. 2.3.1-4. HIB-C web interface HIB settings page

6) Press Save Settings button then Reboot

III. Connect the HIB-C to Broadband

- 1) Connect LAN1 port to your internet feed (Leased Line, Fibre or Satellite backhaul etc.).
- 2) Connect LAN2 port to your customer/canopy network (switch, Canopy Networks, Mesh etc.).

- 3) Disconnect your Laptop/PC from LAN3 port as this port is not used at that point anymore.
- 4) Connect your laptop to switch or an SM on customer/canopy side of the network. Your equipment should obtain IP address automatically from DHCP server. The portal page will be presented on attempt to browse.

2.3.2 MikroTik Hotspot Set-Up Guide

I. **Basic MikroTik setup**

- basic motherboard 1) Do setup the а on as per http://wiki.mikrotik.com/wiki/Manual:First time startup Basic requirement is to configure ether1 with the following;
- 2) IP Address
- 3) Gateway
- 4) Once an IP address is assigned, use Winbox (download from the first time setup page) to do the remainder of the setup.
- 5) Setup the hotspot as follows (this info is based on http://www.hotspotsystem.com/en/hotspot/install guide mikrotik.html)
- 6) Verify that the routerboard DNS settings are correct click on IP \rightarrow DNS and then Settings – if the default values are not correct, update them to reflect the current network.
- 7) Add the hotspot service to ether2 (or any other ether port just replace references to ether2 with whatever port you are using below) by going to IP \rightarrow Hotspot and then clicking Hotspot setup as shown below, Fig 2.3.2-1 Hotspot Setup section

	ot							
ervers (Server Profiles	Users	User Profiles	Active	Hosts	IP Bindings	Service Ports	
-	8	7 R	eset HTML	Hotspot	Setup			Find
Name	8	/ Inter	face	Addres	loove	Profile	Addresses	

Figure 2.3.2-1 Hotspot Setup section.

- 8) Select ether2 from the drop down and click "Next".
- 9) Select a suitable IP range to use (Note: 192.168.182.1/24 is currently the default used on Azotel's HIB-Cs, so it is advised to use this in the MikroTIk routerboards) as shown below in Fig. 2.3.2-2

11

Hotspot Setup				
Set HotSpot address for inte	erface			
Local Address of Network: 192.168.182.1/24				
Masquerade Netwo				
Back	Next Cancel			

Figure 2.3.2-2 Hotspot address for interface

10) Click "Next" for the "Address Pool of Network"

Hotspot Setup	
Set pool for HotSpot addre	esses
Address Pool of Network:	192.168.182.2-192.168.182.254
	Back Next Cancel
	Back Next Cancel

Figure 2.3.2-3 Address Pool of Network

11) Click "Next" for the "Certificate" (Note: this is to be left at "none")

🗆 Hotspot Setup 🛛 🔀
Select hotspot SSL certificate
Select Certificate: none
Back Next Cancel

Figure 2.3.2-4 Certificate selection

12) Ignore the SMTP server setting, accept the default for the DNS server setting and leave the DNS name blank.

13) On the next dialog, create a password for the "admin" user – this will allow you to login to the hotspot with this Username/Password without having to use the Radius server (Note: this is useful to verify basic operation before going any further.)

At this point the basic hotspot should be up and running. Connect a laptop to the ether2 port and verify that you get an IP address from the range 192.168.182.2 – 192.168.182.254. Try to access the Internet using a web browser and you should get the default MikroTik Splash page. You can enter the admin Username/Password you created above in order to get access to the Internet. (If the status/logout dialog does not popup, you can logout using http://192.168.182.1/logout)

II. Adding RADIUS support to authenticate against SIMPLer

 Again using Winbox, configure RADIUS support as follows; In the hotspot profiles (IP → Hotspot → Server Profiles), double click the hotspot you created (should probably be hsprof1).

Hotspot Serve	r Profile <hsprof1></hsprof1>	×
General Login RA	DIUS	OK
- Login By		Cancel
MAC HTTP CHAP		Apply
HTTP PAP	Trial	Сору

Figure 2.3.2-5 Login settings for Hotspot Server

- 2) In the Login tab, deselect Cookie and select CHAP and PAP.
- 3) In the RADIUS tab, select "Use RADIUS", and click OK.

Hotspot Server F	Profile <hsprof1></hsprof1>
General Login RADI	US OK
Us	e RADIUS Cancel
Default Domain:	Apply
Location ID:	Сору

Figure 2.3.2-6 Radius settings for Hotspot Server

4) On the left column, click "RADIUS" and then the red + to add a new RADIUS server. On the dialog, click hotspot and enter the IP address of the RADIUS server and the RADIUS secret (the default, which can be found within the HIB-C Quick Start Guide (09016_HIB-C_Quick_Start_002) is az0s3cr3t)

New Radius Server				
General Status			ОК	
- Service			Cancel	
 ppp hotspot 	wireless		Apply	
dhcp			Disable	
Called ID:		-	Comment	
Domain:		-	Сору	
Address:	84.203.220.252		Remove	
Secret:			Reset Status	
Authentication Port:	1812			
Accounting Port:	1813			
Timeout:	300	ms		

Figure 2.3.2-7 RADIUS server details

- 5) If it is required to allow access to certain sites without authentication (e.g. payment gateways, etc.), it is possible to add them to IP →Hotspot → Walled Garden. For basic setup this should not be necessary.
- 6) Set the clock on the routerboard by going to System → NTP Client and click "Enabled", set the mode to unicast and the server to "pool.ntp.org".

NTP Client		
	Enabled	ОК
Mode:	unicast 🗧	Cancel
Primary NTP Server:	pool.ntp.org	Apply
Secondary NTP Server:	•	
	0	

Figure 2.3.2.8 NTP Client settings

7) Set the system identity to be the hotspot name as follows; Go to System → Identity and enter the full hotspot name (for example demowisp_demowisp_h5 is the one used in the example below)



Figure 2.3.2-9 Setting system identity

8) At this point it should be possible to login using a token from the selected hotspot. You can verify which users are logged in using IP → Hotspot →Active Winbox.

III. Updating the login splash page

1) The login (and logout) splash pages can be updated as wished. To get the html code for the current login page, click on "Files" in Winbox and go to hotspot/login.html;

The second se				
VPLS	hotspot	directory	0 8	3 Jan/02/1970 00:06:07
Bouting D	🖹 hotspot/alogin.html	.html file	1293 E	3 Jan/02/1970 00:06:07
- Incounty	hotspot/error.html	.html file	898 E	3 Jan/02/1970 00:06:07
System D	hotspot/errors.txt	.txt file	3615 E	3 Jan/02/1970 00:06:08
Queues	hotspot/img	directory	0 8	3 Jan/02/1970 00:06:08
-	hotspot/img/logobottom.png	.png file	3925 E	3 Jan/02/1970 00:06:08
Files	🖹 hotspot/login.html	.html file	3362 E	3 Jan/02/1970 00:06:07
Loa	🖹 hotspot/logout.html	.html file	1813 E	3 Jan/02/1970 00:06:08
-	hotspot/lv	directory	0 6	3 Jan/02/1970 00:06:08
Kadius	hotspot/lv/alogin.html	.html file	1303 E	3 Jan/02/1970 00:06:08
Tools D	hotspot/lv/errors.txt	.txt file	3810 E	3 Jan/02/1970 00:06:08
New Terminal	33 items (1 selected)		37.6 MB of 520.1 MB used	92% free

Figure 2.3.2-10 html code for login page

- 2) It is possible to drag'n'drop this file to a desktop, update the file and to drag it back into the "Files" dialog, shown above.
- 3) Alternatively, it is possible to copy the file to a PC using ssh/ftp. The ssh command to copy it is as follows;
 - To copy it:

Scp admin@,ip of mikrotik>:/hotspot/login.html login.html

• To copy it back:

Scp login.html admin@<ip of mikrotik>:/hotspot/login.html

4) It is also possible to drag'n'drop graphics to the hotspot/img directory to be used on the login page.

2.4 Share plans

Share plan (see Figure 2.4-1 below) page contains information about revenue share schemes available to the operator. Each hotspot needs to have one share plan attached. A share plan defines

the set of fees and the revenue shares that are applied while both generating batches of tokens through SIMPLer system and buying the tokens online via credit card/paypal interface. During those processes Azotel will charge the operator's account according to the share plan used. Note that share plans may only be added/modified by Azotel – in case one of the predefined share plans does not fit the operators model, please contact Azotel at: *support@azotel.com* to have a new share plan added

board	Map Customers Invoi	ces Products	Network	Hotspots	Voip Radiu:	s Tools	Settings	Logout QuickSearch
share p	lans hotspots	tokens	pro	ducts	graphs	stats	Usag	e customers
evenue \$	Share Plans							
venue Shar	e Plans are edited by Azotel Technolo	igies Ltd.						
erator shou otel Technol	ogies Ltd. will deduct all charges from	the online credit ca	rd payment collect	ion account.				
erator shou otel Technol esults 1 - 1 c	ogies Ltd. will deduct all charges fron	n the online credit ca	rd payment collect	ion account.			Number of	f results to display per page : All
erator shou otel Technol esults 1 - 1 c	ogies Ltd. will deduct all charges from of 1 Revenue Name ? Online Char	n the online credit ca	rd payment collect	ion account. ration Charge (per	generation) ? Gen	eration Charge (p	Number of er token) ? Genera	results to display per page : All ation Share [%] ? Actions
erator shoul otel Technol isults 1 - 1 c erator ?	ogies Ltd. will deduct all charges from of 1 Revenue Name? Online Cha General Share Plan 1 EUR	rrges ? Online Sh	rd payment collect aare[%] ? Gener 0 EUR	ion account. ration Charge (per	generation) ? Gen 0.29	eration Charge (p	Number of er token) ? Genera 10	results to display per page : All ation Share [%] ? Actions

Figure 2.4-1 Share Plans

2.5 Hotspot

The *Hotspot page* contains information about all operator hotspots added to the SIMPLer system in both 'current' and 'pending' states. Each hotspot entry represents one physical hotspot device. There is a set of attributes to be set for each hotspot such as: share plan, IP address, RADIUS server parameters etc. It's essential that all of the *RADIUS data* is correct as these entries are crucial for the correct operation of the hotspot. Longitude and Latitude variables are information only fields, and are used to position the hotspot on the map.

Note: Hotspot IP address in Radius Data section has to be set to IP address Radius server sees hotspot RADIUS queries coming from (it may vary from IP set in hotspot if it's working in NATed environment) – if in doubt, please contact <u>support@azotel.com</u> for advise.

Note: Share Plan used for hotspot defines all revenue shares and fees

Note: New hotspot entry will become active in less than five minutes from the time moment it has been added

Note: After adding a hotspot a default hotspot captive portal page will be displayed. Please contact Azotel at <u>support@azotel.com</u> if you would like to have your own look & feel for the captive portal and payment pages.

2.5.1 Adding a New Hotspot

1) In order to add a new Hotspot to SIMPLer, Go to hotspots → hotspots → "Add a new hotspot" as shown in Fig 2.5.1-1

azote	WISP: Test Hots login: emma Search for informa	pots	Recently Viewed Custo	mers	Logou		MPLer
Dashboard Map (Customers Maintenan	ice Invoices Produc	WIB (100) out of	sync! Update WIB file tots Radius	s inbox (2 Tools Setting	25	QuickSearch
share plans h	otspots token	s products	stats usage	online signups			
Hotspots Results 1 - 1 of 1					Nurr	nber of results to d	display per page : 10 🗘
Name ? Mnemor	nic ? Location ?	Share Plan ? Invo	ices/Payments ? Type ?	IP address ?	Description ?	Status ?	Actions
test_hs_1 te1	Azotel	General Share Plan 10	HIB-C	00.00.00.00	-	current	9000
rbsch Aindling Linger Affing Ge hofen Veuzaft*	Inchenholen Hollenbach Kuhbach Aichach S Sielenbach	Map Satellite Gerc Schiltberg	d a help with hotspot configure	tion, please move the curs	or over the hotspot st.	atus to bring the h	elp hover window.
r Friedberg Ra Jau Haunstetten Siebenbrunn	Adelzhausen Eurasburg Ödelzhau Ried Egenhofen	In Erdweg sen Sulzemoos					
ngen 7 en – Prittriching	Mittelstetten Juhegnenberg Mammendorf 2	Maisach Gr					

Fig 2.5.1-1 Adding a new hotspot to SIMPLer

2) In order to set up a new Hotspot certain details are required for the hotspot configuration within SIMPLer, as shown in Fig 2.5.1-2

hboard Map Customers Mainten	ance Involces Products Network	k Hotspots Radius Tools Settings
share plans hotspots toker	is products stats u	isage online signups
dd Hotspot		
lotspot Unique Name	(test_hs_2 ?	
Inemonic	(te2) ?	Show Map
ype	Mikrotik (Generic RADIUS server)	\$?
tatus	current	\$?
P address	?	
Radius Data		
P address	?	
lorts	3799 ?	
ecret	az0s3cr3t ?	
Lustomer Untime Sign-Up Page inable Sign-Up Page Austom Usemame / Password orce sign-up process for tokens (scratch-cards) end SMS with User details	ସ ? ସ ? ସ ?	Address Details Longtitude ? Latitude ?
MS charge	?	Location
end Email with User details	? ✓ ?	
iend Email copy to	?	Description
collect Customer First Name collect Customer Last Name	*	
iollect Customer Street Vollect Customer City Vollect Customer Postal/ZIP Code Vollect Customer State Customer Country Vollect Customer Cell Phone Vollect Customer Cell Phone Vollect Customer Email Address	ୟ ? ସ ? ସ ? ସ ? ? ? ? ? ? ? ? ? ? ? ? ? ?	
Reselling		
Share Plan		\$?
ump Sum Allocation	EUR ?	
Regional Sales Manager	\$	
Additional / Custom Template Variables		
VARIABLE1 = VALUE1 VARIABLE2 = VALUE2		
	/ 2	

Back Reset Add

Fig 2.5.1-2 Input page for Hotspot Details within SIMPLer

- Hotspot Unique Name: Unique Hotspot Identification Field
- **Mnemonic:** Unique Hotspot Mnemonic. This will be used as a prefix for all tokens relating to a specific Hotspot.
- Type: This is the device type on which SIMPLer's hotspot platform will work i.e. (HIB-C)
- **Status:** There are two statuses, Current and Pending. Current is used for operational Hotspots. Pending is used to turn off Hotspots.

- IP Address: IP Address of device (used to pull MRTG data)
- Share Plan: Each Hotspot has to have a Share plan assigned. Share plans specify how the revenue will be split up.
- Lump Sum Allocation:
- Online Payments:
- Register generated tokens:
- Longitude/Latitude: GPS Co-ordinates used to position Hotspot on the Map
- Location: Information field containing address of Hotspot
- **Description:** Information field for descriptions/notes/comments
- IP Address:
- **Ports:** Port used to communicate with Radius Server
- Secret: Configure Radius Server password here, this is then used in the Hotspot configuration.
- Portal Page Operator Name: This is the Operators name that will how up on a portal Page
- **Portal Page Greeting Message:** This is the greeting message that will show up on a portal page
- IP address (for Radius connection): IP address used to communicate to Radius Server. In certain situations, this address may be different to IP used to communicate with SIMPLer platform. (Note: it is important to get this right. Otherwise Hotspot will not connect to Radius Server.
- Additional Template Variables:
 - 3) Once the above data has been entered into the Hotspot Data sheet, press the "Add" tab in order to add the Hotspot record to SIMPLer.

2.5.2 Deleting an Existing Hotspot

- In order to delete an existing hotspot, Go to → hotspots → hotspots and select the "E" (Modify) icon to the right of the hotspot that is to be deleted.
- 2) This will redirect the page to the Modify a hotspot page, as shown in Fig. 2.5.2-1 Modify a hotspot page.

asmooaro map Customers	maintenance invoices	Products Ne	work notspots kaulus roots setur	iĝa -
share plans hotspots	tokens product	s stats	usage online signups	
lotspot - test_hs_1				
Hotspot Unique Name	test_hs_1	?		
Mnemonic	(te1)?			_
Туре	HIB-C ?		Map Sa	tellite
Status	current	\$?		
IP address	00.00.00.00	?	€ + • AIC22	
Radius Data				
IP address	00.00.00	?		
Ports	3799	?	NCA	
Secret	az0s3cr3t	?	Google Map Data 200 m Terms of Use Report am	ap error
Customer Online Sign-Up Page				
Enable Sign-Up Page Custom Username / Password Force sign-up process for tokens (scrat Send SMS with User details SMS charge SMS default prefix	 ✓ ? ? ? ? ? ? ? ? ? 		Address Details Longtitude 48.351258 ? Latitude 11.080108 ? Location Azotel	
Send Email with User details	?			
Send Email copy to		?	Description ?	
Collect Customer First Name Collect Customer Last Name Collect Customer Street Collect Customer City Collect Customer Postal/2IP Code Collect Customer Postal/2IP Code Collect Customer Country Collect Customer Coll Phone Collect Customer Cell Phone Collect Customer Email Address Confirm Customer Email Address	 ▲ ▲			
Reselling				
ihare Plan			\$?	
ump Sum Allocation		EUR		
tegional Sales Manager				
°		•		
Additional / Custom Template Var	riables			
VARIABLE1 = VALUE1				
VARIABLEZ = VALUEZ				
		2 ?		

Figure 2.5.2-1 Modify a hotspot page

- 3) In order to delete the hotspot, select the "delete" button at the end of the page to delete the hotspot from SIMPLer.
- 4) Modifying a Hotspot
- 5) In order to modify a Hotspot, Go to → hotspots → hotspots and select the "E" (Modify) icon to the right of the hotspot that is to be Modified

- 6) This will redirect the page to the Modify a hotspot page, as shown in Fig 2.5.2-1 Modify a hotspot page.
- 7) Modify any details that is required i.e. Share plan, location, IP address.
- 8) Select the "Update" button, to finalise the changes made, as shown below Fig. 2.5.2-2 Updating a Hotspot.

Additional Template Variables	
VARIABLE1 = VALUE1 VARIABLE2 = VALUE2]
	4 ?
Back Reset Update Delete	

Figure 2.5.2-2 Updating a Hotspot

2.6 Products

Products page (Figure 2.6-1) contains definitions of products available for each hotspot. Each product defines customer's connection details such as:

Dashboard Map	Customers Invoices	Products	Network Hotspots	Radius Te	ools Settings	Logout	Q QuickSearch
share plans	hotspots	tokens	products	graphs	stats	Usage	customers
Products							
Pick Hotspot:	Results 1 - 1 of 1					Number of results to dis	olay per page : 10 💌
All	Code Name	Hotspot Price	VAT rate Nominal	Hidden Sale date	Description	Hotspot Session	Details Actions
	test1 Test_Product Add a new product	test_hs_1 10.00 El	JR 21.00	No 2012-06-22		See Detail Duration from first login Continous Duration (min) Simultanous Use Check Maximum Bandwidth Up Maximum Bandwidth Down Traffic Limit Session Termination Date	1 day unlimited on unlimited unlimited unlimited unlimited

Fig 2.6-1 Products detail page

- *hotspot* to which product is assigned
- token price (including VAT/TAX) and VAT/Tax rate
- how long token will be valid from the first login
- *continuous session time for token* for example an operator may want to issue token that will be valid for a week from first login, but will give customer only 10hours online
- *total traffic usage limit* specified in MB (mega-bytes) or GB (giga-bytes)
- *upload / download* speeds

- *simultaneous use check* allows only one machine to be logged per token
- *session termination date* unconditional termination date for the token regardless of other time conditions

Most of the above parameters are optional, and give the operator complete flexibility in the type of products they offer – for example, it is possible to define a product which is valid for a fixed period from first use, or a product which is valid for a fixed traffic usage, or both, or a product which is valid until a certain future time, regardless of usage, etc.

Note: One Product is assigned to one hotspot. In the case of multiple hotspots it is necessary to define at least one product per hotspot

Note: At least one defined product is needed to generate a token or accept online payments.

2.6.1 Adding a Product

1) In order to add a product to SIMPLer, Go to → Hotspots → Products → Add a new product, as shown in Fig 2.6.1-1

Dashboard Map	Customers Invoice	s Products Netwo	ork Hotspots R	adius Tools	Settings Logou	Q Quicks	Search
share plans	hotspots	tokens	products	graphs	stats	Usage custor	mers
Products Pick Hotspot:	Results 1 - 1 of 1				N	umber of results to display per p	age : 10 -
test_hs_1 All	Code Name test1 Test_Product	Hotspot Price V test_hs_1 10.00 EUR	AT rate Nominal Hidden	Sale date Descript	ion	Hotspot Session Details See Details	Actions
	Add a new product						

Fig 2.6.1-1 Products Detail Page

2) By selecting the "Add a new Product" tab, the product details page will automatically be re-directed to the Product Input page as shown below. This will require the operator to enter all relevant details regarding the product that is being added to the Hotspot.

Dashboard Map O	Customers Invoices	Products Network	Hotspots	Voip	Radius	Tools	Settings l	Logout QuickSearch
share plans	hotspots	tokens pi	oducts	graphs		stats	Usage	customers
Add Product								
Code								
Name								
Hotspot(s)	testss_hs_1	•						
Valid for Sale Date								
Hidden From Portal	0							
Allow Only One Use								
Price	0.00	EUR •						
VAT rate	21.00							
Description								
Product Nominal Account	Nominal: Description: Add Nominal	• Delete	<u>A</u>					
Hostpot Session Param	eters							
Continous Duration (min)	1	day(s)						
Simultaneous Use Check	2							
Maximum Download Rate (i	kbps)							
Maximum Upload rate (kbp:	s)							
Total Traffic limit		MB -						
Session Termination date		:						
Idle Timeout (min)	15							
Back Resel Add Pro	oduct							

Figure 2.6.1-2 product details page

Product Details:

- **Code:** The code is used as a unique product Identifier. This can contain numbers and letters and can be as vague or as detailed as the Operator permits i.e. Basic_1hr. This is not displayed to customers when they are purchasing tokens.
- **Name:** This can be used as a more detailed identifier for the product than that of the product code. The name is displayed to customers to choose an appropriate token for their needs.
- **Hotspot(s):** This will be the Hotspot to which the product will be assigned. (Note: A product can only be assigned to one Hotspot, if it is required to assigned the same product to a different Hotspot, then a second product will need to be created).
- Valid for Sale Date: This is the date on which the Product will be available for purchase.
- **Hidden from Portal:** These are products that can be created, but that will not be available for purchase through the normal public Hotspot Captive Portal. Tokens can then be created for these products within SIMPLer the details of which can then be sent to Customers. An example of where this would be applicable is in the case of a customer that may already be purchasing a contractual service from an Operator. The Operator can then offer the customer access to their available hotspots by using one of these hidden products.
- Allow Only One Use: This ensures that a product can only be purchase once by the same

MAC address. The product will not be displayed for purchase for customers reconnecting with the same MAC. This is useful for defining free trial products.

- **Price**: This will be the gross price of the product with the included tax.
- VAT Rate: This will be the tax rate that will be used to calculate the tax portion of the price of the product.
- **Description:** This field is for additional descriptions/notes/comment for the product

Hotspot Session Parameters:

- **Duration from first login:** This is a time restriction that can be set on a product. This restricts the customer's use of the product for a pre-defined time period from their first login. During this period they will be able to log in and out of their account until the time period expires.
- **Continuous Duration (min):** This is a time restriction that can be set on a product. This restricts the customer's use of the product to a pre-defined continuous time-period. An example of this is where an Operator creates a product with a continuous time period of 1 hour. This will entitle the customer to long on for continuous time periods until they accumulate to the 1-hour period i.e. 4 x 15 mins.
- Simultaneous Use Check: If this is checked, SIMPLer will NOT allow multiple users to use of the same token at the same time.
- Maximum Download Rate (kbps): This is the Maximum Download Rate that the product will offer to users
- Maximum Upload Rate (kbps): This is the Maximum Upload Rate that the product will offer to users
- Total Traffic Limit: This is the maximum traffic limit constraint that is placed on the product i.e. GB & MB
- Session Termination date: This date will determine the expiration of the product. Once this date has been set, it will over-ride all other product parameters including duration from first login and Continuous Duration.
- Idle Timeout (min): If the customer has logged in and is inactive for a set period of time, SIMPLer will automatically log the customer out. An operator can set this to any time in terms of minutes in order to correspond to the product duration.

2.6.2 Deleting a Product from SIMPLer

1) In order to delete a product from SIMPLer, Go to → Hotspots → Products to display a list of all products that have been entered into SIMPLer, Fig 2.6.2-1 Products page;

	WISP: Testss Hol login: justyna Search for informati	tspots ion about products	Recently Vi	ewed Customers			MPLer
Dashboard Map	Customers Involces	Products Netv	vork Hotspots	Volp Rad	tius Tools	Settings Logout	Q QuickSearch
share plans	hotspots	tokens	products	graphs	stats	Usage	customers
Pick Hotspot:	Results 1 - 1 of 1					Number of results to di	splay per page : 10 🔹
All	Code Name test1 Test Product	Hotspot Price testss_hs_1 10.00 USD	VAT rate Nominal 21.00	No 2010-12-31	Description	Hotspot Sessio	ails
	Add a new product						

Figure 2.6.2-1 Products Page

2) Click on the "E" icon beside what product is to be deleted in the table. This will re-direct the page to the "Modify a product" page as shown below in Fig. 2.6.2-2 Modify a product page

Dashboard Map Cu	istomers Involces Product	s Network Hotspots	Voip Radius	Tools	Settings Logout	Q QuickSearch
share plans	hotspots tokens	products	graphs	stats	Usage	customers
Product - Test Produc	t (test1)					
Code	test1					
Name	Test Product					
Hotspot(s)	(testss_hs_1 •					
Valid for Sale Date	Dec \$ 31 \$ 2010					
Hidden From Portal	0					
Allow Only One Use						
Price	(10.00	EUR •				
VAT rate	(21.00					
Description		4				
Product Nominal Account	Nominal: Description: Add Nominal	Delete				
Hostnot Session Parame	tors					
Duration from first login	1	day(s)				
Continous Duration (min)						
Simultaneous Use Check						
Maximum Download Rate (kt	ops)					
Maximum Upload rate (kbps)						
Total Traffic limit		MB -				
Session Termination date						
Idle Timeout (min)						
Back Reset Update Clear Recorded MAC Addresse	Delete					



3) To delete the product, select the "delete" button shown above.

2.6.3 Modifying an existing product

- 1) In order to modify an existing product, Go to → hotspots → products to display a list of all products that have been entered into SIMPLer as shown in Fig. 2.6.1-1 Products Page.
- 2) Select the "E" icon along side which product is required to be modified.
- 3) This will redirect the page to the "Modify a product" page, shown in Fig. 2.6.3-1
- 4) Modify any details that are required i.e. price, continuous duration, total traffic limit etc. Once this has been done, select the "Update" to update the product with the new modified details.



Figure 2.6.3-1 Updating product with modified details

2.7 Tokens

The *Tokens page* (Figure 2.7-1) contains a list of all tokens entries available for each of the hotspots. Each token represents one username/password combination that can grant access to the internet via the hotspot. Token attributes such as session time, upload / download speeds etc. are defined during the generation process as outlined in section 2.5.

A Token inherits the attributes from the product used for its generation. Operator can generate numerous *batches of tokens* via the tokens page that can be then used, for example, to sell them at a hotel's reception. Tokens can also be purchased through the captive portal page via a *credit card interface*. The Tokens page covers the following functionality:

- Adding tokens
- *Changing password* token password can be changed in case a customer has forgotten it
- Deleting Expired tokens
- Reset token usage
- Inspect token usage status as tokens are displayed with different colours depending on what state they are.
- *Generate token spreadsheets* operator can download fully featured token spreadsheet for each of the hotspots (Figure 2.7-2)
- *Traffic graphs* for currently used tokens

Dashboard Map	Customers M	laintenance	Involces	Products Net	work Hotspots	Radius	Tools Set	tings QuickSearch
share plans	hotspots	tokens	products	stats	usage onlin	ne signups		
lokens								
Pick Hotspot:	Hot	^{spot} test_hs_1	- Tokens (u	semames)				Tokens Spreadsheet 🖲
test_hs_1		Add Tokens	Delete Expire	d Tokens				
		te163	72	te14472	te	14257	te1463	33 te17798
		te149	95	te13255	te	13423	te1422	te14237
		te196	62	te14293	te	13853	te1834	l8 te19955
		te148	45	te15287	te	17692	te1837	77 te12947
		te186	56	te12934	te	13833	te1938	18 te13365
		te133	94	te1sdfsdf2	te1	johdoe	te1johd	oe1 te1johdoe2
		te1johd	loe3	te1johdoe4	te1j	johdoe5	te1johd	oe6 te1sdfsf
		te1paw	dur					
		Add Tokens	Delete Expire	d Tokens				
	Not	te: Click on use	ername to reissu	e the password.				
	The Tol	e table above c ken states are l	ontains all existi highlighted with f	ng tokens on the hots the colours:	spot. You can download 'i	token spreadshee	t' by using link on the	e right.
	- bl	lack - token	was never used,					
	- bl	lue - token	was used at leas	st once and is still val	lid,			
	- gi	reen - token	is currently in us	e,				
	- re	d - token	has expired,					
	- pi	ink - token	has expired, but	has no usage data.				

Figure 2.7-1 Tokens page

Microsoft Excel - TokenSpreadsheet	-1.xls		
: File Edit View Insert Format T	ools <u>D</u> ata <u>W</u> indow <u>H</u> elp		Type a question for help 🔍 🗖 🗙
i 🗅 💕 🖵 🖪 🖪 🛍 • 🔊 • 🛍	100% 🔻 🕜 🚆 🗄 Arial	• 10 • B <i>I</i> <u>U</u> = = =	🔤 🛂 % 🔸 🔝 🕮 ≢ 💷 • 🖄 • 🗛 • 🥊
1 ha ha ca na ha 167 ka 1 8 B	Reply with Changes End Rev	iew	
A1 f		X	
A	В	С	D
azotel			
1outside		Azotel Technologies Ltd. 2008	
2 Username	Password	Status	Product
3 de3s1tntq	zebra04406	never used	0
4 de3x4gyhw	swan54878	never used	0
5 de3ce13m0	lion59020	never used	0
6 de3tcy5oe	wasp11637	expired	0
7 de3eou06t	Green42261	expired	0
8 de36t1ggg	Cow17226	never used	0
9 de33k8llp	black84438	expired	1 hour - Access for one Hour - 0 EUR
10 de31dhy4h	Wasp51760	partially used	1 hour - Access for one Hour - 0 EUR
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21 Chest 1			
Sneet 1/			
Ready			NUM .:

Figure 2.7-2 Sample Token Spreadsheet

2.7.1 Adding Tokens for a Product

In order to generate tokens for a given product, Go to hotspots \rightarrow tokens \rightarrow Add Tokens as shown in Fig 2.7.1-1



Figure 2.7.1-1 Tokens Page

1) Selecting the "Add Token" tab will re-direct the page to the tokens generation page as shown below (Fig 2.7.1-2);

azote	WISP: Test Hote login: just Tokens	tss spots yna	Recently	Viewed Customers		Inbox (0)	SI	MPLer
Dashboard Map	Customers II	nvolces Products	Network Hotspots	i Volp H	Radius Tools	Settings	Logout	Q QuickSearch
share plans	hotspots	tokens	products	graphs	stats	Usa	ge	customers
Tokens								
Hotspot: testss_hs_1 Type in number of tokens to 1 ? Choose token type: test1 - Test Product - Fill in email to which xml file stephen@azotel.com Back Add Product Details	o generate:	? sent:						
No. Product See	ssionTermination	ContinousDuration	Download Rate (kbps)	Upload Rate (kbps)	Traffic (aggregate)	Price		
1. Test Product 1 d	ay	unlimited	unlimited	unlimited	unlimited	10.00 USD		

Figure 2.7.1-2 Tokens generation page

- 2) This page allows Operators to generate single or multiple tokens for a selected product.
- 1) Once the number of tokens has been selected by the Operator, and the product has been select for which the tokens will be generated, clicking the submit tab will lead to the generation of the tokens.
- 2) It is also possible for the details of each token to be emailed to a specified email address. This email will contain both the Username and Password for each generated token both

Azotel Confidential Proprietary © Azotel Technologies Ltd 2024 within the main body of the email and in an excel spreadsheet that will be downloadable. Details of this is shown below in Fig 2.7.1-3;

From: noresponse@azotel.com Subject: kbnet_hs_1- Hotspot Username and Password details Date: 12 August 2010 10:00:01 IST To: Tomas O'Neill ► A 1 Attachment, 5.5 KB Save Cuick Look				
Thanks for using Azotel servic	les			
Please find attached tokens g	enerated for product: TEST1 - Test Product 1			
USERNAME PASSWORD				
kb18969 as935				
kb13854 ah934				
kb15826 df497				
kb19472 jk553 kb12388 b/424				
kb17823 df626				
kb13524 df679				
kb18843 bh537 kb15242 cv753				
	1			
Azotel Technologies Limited,				
River House, Blackpool Cork				
Ireland.				
Telephone: + 353 (0) 21 467 1	1600			
Lman. mowazoter.com				
denerated ts.xls (5.5 KB)				

Figure 2.7.1-3 Token details Email

2.7.2 Deleting Tokens from SIMPLer

Currently there are two ways in which a token can be deleted from the SIMPLer Hotspot system;

- Deleting all Tokens that have expired
- Manually deleting a token.

I. Deleting expired Tokens

 In order to delete all expired Token records from SIMPLer, Go to hotspots → tokens → Delete Expired Tokens as shown in Fig. 2.7.2.1

	SP: Testss Recently Viewed Customers Hotspots in: justyna tens
Dashboard Map Custom	ers Involces Products Network Hotspots Voip Radius Tools Settings Logout QQuickSearch
share plans hots	pots tokens products graphs stats Usage customers
Pick Hotspot: testss_hs_1	Hotspot testss_hs_1 - Tokens (usernames) Tokens Spreadsheet Add Tokens Delete Expired Tokens Add Tokens Delete Expired Tokens
	Note: No users configured for this hotspot. The table above contains all existing tokens on the hotspot. You can download 'token spreadsheet' by using link on the right. Token states are highlighted with the colours: • black - token was never used, • blue - token was used at least once and is still valid, • green - token has expired, • red - token has expired, • pink - token has expired,

Figure 2.7.2.1-1 deleting expired Tokens from SIMPLer

29

Azotel Confidential Proprietary © Azotel Technologies Ltd 2024 2) The expired Tokens will be displayed in red as shown above. Note: SIMPLer will display Token status according to a specific colour scheme.

Black Tokens – Token was never used

Blue Token – Token was used at least once and is still valid

Green Token – Token is currently in use

Red Token – Token has expired

Pink : Token - token has expired, but has no usage data

3) In order to delete all expired/red Tokens, click the "Delete Expired Tokens" button.

II. Manually deleting a token

1) In order to delete a Token manually from SIMPLer, Go to → hotspots → tokens, Fig. 2.7.2.2-1

azotel outside	E Testss Recently Viewed Customens Hotspots justyna Is	(0) SIMPLer
Dashboard Map Customers	is Involces Products Network Hotspots Volp Radius Tools Settl	ngs Logout QQuickSearch Usage customers
Tokens Pick Hotspot: testss_hs_1	Hotspot testss_hs_1 - Tokens (usernames) Add Tokens Delete Expired Tokens te12456	Tokons Spreadsheet 🕷
	Add Tokens Delete Expired Tokens Note: Click on username to reissue the password. The table above contains all existing tokens on the hotspot. You can download 'token spreadsheet' by using link on the Token states are highlighted with the colours: - black - token was never used, - blue - token was used at least once and is still valid,	right.
	 - green - token is currently in use, - red - token has expired, - pink - token has expired, but has no usage data. 	

Figure 2.7.2.2-1 Manually deleting a Token from SIMPLer

- 2) Next, select the token that is required to be deleted by clicking on the name of the token.
- 3) The page will be redirected to the "Tokens" page as shown below, Fig 2.7.2.2-2 Tokens page

azote	WISP: Testss Hotspots login: justyna Tokens			Recently View	ved Customers	
Dashboard Map	Customers Invoices	Products	Network	Hotspots	Voip	Radius
share plans	hotspots	tokens	prod	ucts	graphs	
Tokens						
Hotspot: testss_hs_1						
Token: te12456						
Reissue password:						
	Reissue					
Delete Reset Toker	Back					

Figure 2.7.2.2-2 Tokens page

4) Clicking the "Delete" button will then delete the Token from the SIMPLer records.

2.7.3 Reissuing Passwords for Tokens

- 1) If a customer has lost or forgotten their password for the Token they were issued, an operator can re-issue a password for that Token and re-issue the Token details to the customer.
- 2) In order to re-issue a password for a token, Go to → hotspots → tokens → and select the token for which a password will be re-issued.
- 3) This will re-direct the page to the "Tokens" page as shown in Fig. 2.7.3-1

	ISP: Testss Hotspots gin: justyna kens	Recently V	iewed Customers	📾 Inbox (0)	SIMPLer
Dashboard Map Custon	ners Invoices Produ	cts Network Hotspots	Voip Radius	Tools Settings	Logout Q. QuickSearch
share plans hot	spots tokens	products	graphs	stats Usage	e customers
Tokens					
Hotspot kbnet_hs_1					
Token - kb1kb3					
Usage: Fist Used: 2010-08-19 1 Last Used: 2010-08-19 1 Time Online: 00h 08m 50s Upload: 931.2 KB Download: 23.4 MB Ressue password: Ressue	15:05:29+01 15:05:29+01				
Back		Documentation copyright © Azotat Tact	Release Notes Indegies Ltd. 2004 - 2012		

Figure 2.7.3-1 Tokens page

Azotel Confidential Proprietary © Azotel Technologies Ltd 2024

- 4) To re-issue a password, type a new password in the field shown above and select the reissue button.
- 5) The new password along with the original Username will be sent to either the Maintenance email, if this has been specified within the initial WISP Settings or else it will be send to the General Operator's email. An example of the email is shown below;

```
Thanks for using Azotel services
```

Please find attached tokens generated for product:



Figure 2.7.3-2 Password re-issue email

6) In the above example the password has been change to "changeme". The operator can then forward this email to the customer, so that the customer can gain access to the Internet again using the re-issued Username and Password.

2.8 Graphs

Graphs page gives operator a tool to monitor bandwidth usage over time. There will be a summary graph for each of the hotspots plus traffic graphs for all currently active sessions displayed. There is also a possibility to display historical graphs for customers not logged via captive portal anymore

1) To go to the graphs section within SIMPLer, Go to \rightarrow Hotspots \rightarrow Graphs, Fig 2.8-1;



Figure 2.8-1 Hotspot Traffic Graphs page

2) This graphs page will outline a graphical summary for the total Hotspot Traffic, all actve Hotspot sessions and all historical Inactive Session Graphs shown in Fig. 2.8-2:



Figure 2.8-2 Graphs page outlining Total Hotspot Traffic, all active Hotspot Sessions and Inactive Sessions.

2.9 Stats

Stats page lists hotspot financial statistics. It gives operator a tool to drill down into the revenue a hotspot generates. It is also a tool used by Azotel to charge the operator for using Azotel services according to share plans chosen. All statistics can be generated for any time period selected by specifying both start and end date of the period. All statistics are split into four sections:

- Summary Table contains totals for all financial aspects of hotspot,
- Online Invoices 'per product' Summary
- Online Invoices Details
- Batch Token Generation charges Details

In order to view the Stats page for a given hotspot, Go to \rightarrow hotspots \rightarrow Stats, Fig 2.9-1 Stats Page;

azote	WSP: Testss Hotspots login: justyna Hotspot Financial Statistics	Recently Viewed Customers	
Dashboard Map C	ustomers Involces Products Network	Hotspots Volp Radius	Tools Settings Logout QuickSearch
share plans	hotspots tokens pr	roducts graphs	stats Usage customers
Hotspot Financial Sta	tistics		
Pick Hotspot:	Current settings: Hotspot:	Start Date:	End date: Go
All			
		All - Hotspot: Charges (Summ	ary Table)
		Online Income (nett): Online Charges:	0.00
		Online TAX/VAT:	0.00
		Total Online Income:	0.00
		Tokens Income (estimated):	10.00
		Tokens Charges:	1.12
		Total Token Income:	7.14
		iour ionar moune.	
	7	Total Income (nett):	10.00
	1	Total Charges:	1.12
	1	Total TAX/VAT:	1.74
	L	Total Income:	7.14
	All - Hotspot: Invoices top-up		
	No. Usage Hotspot Base Price	Operator Cut TAX/VAT Rate T	Total TAX/VAT Azotel Income Operator Income
	No daily statistics for specified parameters.		
	All - Hotspot: Invoice Details		
	Date Hotspot Invoice No. Amount	TAX/VAT Rate Charges Shares	Operator Income Payment Method Token Customer
	IND daily statistics for specified parameters.		
	All - Hotspot: Token Generation Charges		
	Date Hotspot Tokens Quantity	Generated by (User) Product	Total Generation Charge Token Charges Shares
	2012-02-16 testss_hs_1 1	justyna 70 10	0.00 USD 0.00 EUR 0.29 EUR 0.83 USD
	Total	10	0.00 EUR 0.00 EUR 0.29 EUR 0.83 EUR

Fig 2.9-1 Stats Page

2.9.1 Summary Tables

1) The Hotspot Charges summary table contains the relevant totals of all financial aspects for specified hotspots or for all hotspots.

	Total Income:	7.14
1	Total Charges:	1.12
1	Total Income (nett):	10.00
\triangleleft	Total Token Income:	7.14
1	Token TAXA/AT	1.74
1	Tokens Charges:	1.12
1	Tokens Income (estimated):	10.00
\triangleleft	Total Online Income:	0.00
1	Delice Trace of	0.00
0	Online Charges:	0.00
0	Online Income (nett):	0.00

All - Hotspot: Charges (Summary Table)

Figure 2.9.1-1 Financial Summary Table

Azotel Confidential Proprietary © Azotel Technologies Ltd 2024

- 2) This table outlines the Online Income Total (Note: this is any income that is received through online payments made through the online Captive Portal page.), the Token Income total (Note: this is any income that is received through the sales of any toek through nononline methods i.e. at a hotel reception) and the Total Income which is the sum of both the Total Online Income and the Total Token Income.
- 3) The "All Hotspot: Token Generation Charges" table contains relevant information regarding the generation of tokens and the charges associated with token generation.

All - Hotspot: Token Generation Charges

Date	Hotspot	Tokens Quantity	Generated by (User)	Product	Total	Generation Charge	Token Charges	Shares
2012-02-16	testss_hs_1	1	justyna	70	10.00 USD	0.00 EUR	0.29 EUR	0.83 USD
		Total			10.00 EUR	0.00 EUR	0.29 EUR	0.83 EUR

Figure 2.9.1-2 All – Hotspot: Token Generation Charges

4) This tables outlines the date the token were genreated, the hotspot for which the tokens were generated for, the quantity of tokens created, who the tokens were generated by, the product for which the tokens were genreated, the total monetary value of the tokens generated, the generation charge associated with the generation of tokens, the token charges and the share plan charges associated with the sales of each token.

2.10 Usage

The Usage page (Figure 2.10-1) lists hotspot usage statistics. It gives operators a tool to drill down into all of the important information about token usage such as the Token Username, Session start, Session stop, session time, MAC and IP addresses, bandwidth Used. Time boundaries can be defined for each drill down. There is also a tool to limit the system to list only sessions for token with specified name. Usage page gives three types of drill downs:

- All sessions all statistic entries stored in system
- Active sessions stats for currently logged in customers. This drill down gives also access to traffic graph
- Unique tokens cumulative statistics on 'per username' basis
- To Access the Usage Page, Go to \rightarrow hotspots \rightarrow usage Fig 2.10-1



Figure 2.10-1 Usage Page

2.11 Customers

Customers page (Figure 2.11-1) lists data gathered in the process of generating token via online credit card system available on the online captive portal. Keeping this personal information may help in resolving customer issues, it can also give operator an overview about repetitive customers.

Note: No credit card information is stored during the initial registration and purchase phase. However customers have the option of entering their credit card information in the customer's End User Portal (EUP). Details of which can be found in section 2.13

• To access the customers page, Go to \rightarrow hotspots \rightarrow customers, Fig 2.11-1 customers page.

azote	WISP: Azotel Recently Viewed Customers Hotspots login: justyna Registered Customers
Dashboard Map Cu	ustomers Involces Products Network Hotspots Volp Radius Tools Settings Logout QQuickSearch
share plans	hotspots tokens products graphs stats Usage customers
Registered Customers	S
Pick Hotspot: sunny hs 1 acme hs 1	Current settings Hotspot Start Date: End date: All • • • • • • • • Current settings All • • • • • • • Go • • • • • • • • • Customer Spreadsheet • • • • • • • •
microlink hs 1 toneillcyb hs 1	Note: Below customer records are gathered using online payment system. Each row represents one purchase made. Use 'Action' icons to access detailed usage, invoice statistics or manage token password.
demowisp hs 1 testss hs 1	Customer List - All
	Results 1 - 0 of 0 Search : ? Number of results to display per page : 20 •
	Date Name Phone Email Address Token Misc 1 Misc 2 Misc 3 Misc 4 Misc 5 Misc 6 Misc 7 Action No results.

Figure 2.11-1 Customers page

- Under the customers page, all customer records are gathered using an online payment system.
- Under the Customer List, each row represents one purchase made.
- Information such as detailed usage, invoice statistics or to manage token passwords can be accessed through the "T" and "U" action buttons on the right hand side of every record.

2.12 Captive Portal Overview

2.12.1 Sign Up and Registration Process for online token purchase

- In order for a customer to purchase a token online, they must first register their details.
- Once a customer is in an available Hotspot, they will be presented with a login splash page, prompting them to either enter a username and password for a token that they have already purchased, or to purchase a token online.
- In order for a customer to purchase a token online, they must first check that they have read the terms and conditions before proceeding, then they must select the "Purchase" tab, as shown below, **Fig. 2.13.1-1 Customer login page.** (Note: A customer will not be allowed to proceed unless they have indicated they have read the Terms & Conditions)

KB Networks	
Please enter your username and password Username: Password:	
LOGIN	
Purchase User Account	

Figure 2.13.1-1 Customer login page

• Once a customer has selected the purchase tab, they will be presented with a customer registration page as shown below in Fig. 2.13.1-2 Customer Registration page.

KB Networks	
Re	gister Customer.
	Sign up details
Token	One Day Show Details
First Name *	Joe
Last Name *	Bloggs
Street *	Main Street
City *	Cork
Postal/ZIP Code *	1AB CD2
Cell Phone *	021 1234567
Your email address *	joe.bloggs@email.com
	Continue
* Required fields	

Figure 2.13.1-2 Customer Registration page.

- Within the Token field is a drop down list, outlining all the available products within that given hotspot. A customer can select any product they wish and see available details regarding that product by selecting the "Show Details" tab, as shown in Fig. 2.13.1-2
- If the customer selects the "Show Details" tab, they will be presented with a product details page as shown below, Fig 2.13.1-3;

				Product	Details				_
	No.	Product	Session Termination	Continous Duration (minutes)	Download Rate (kbps)	Upload Rate (kbps)	Traffic (aggregate)	Price	
	1	One Day	1 day	unlimited	1024	1024	unlimited	4.99 EUR	
	2	Test Product 1	10 day	unlimited	1024	1024	unlimited	19.99 EUR	
yright © 2010	KB Netv	vorks. All rights re	served						Powered by A

Figure 2.13.1-3 Product Details page

- The Product Details page outlines a number of key details in relation to the available products;
 - 1. Product Name
 - 2. Session Termination
 - 3. Continuous duration (minutes)
 - 4. Download Rate (Kbps)
 - 5. Upload Rate (Kbps)
 - 6. Traffic (aggregare)
 - 7. Price
- Once the customer has selected the product they wish to purchase, they have entered the relevant details and selected the continue tab, they will then be presented with a Choose Payment Method page

Note: Token types/prices presented in the online payment system can be configured in "products" part of hotspot manager

KB Networks		
	Choose P	ayment Method
	Token First name Last name Street City Postal Code Cell Phone Email Address	One Day - 4.99 EUR <u>Details</u> Joe Bloggs Main Street Cork 1AB CD2 021 1234567 keith@azotel.com
<	Choose Payment M Credit Card PayPar Moneris Socurions Continue	lethod:

Figure 2.13.1-4 Choose Payment Method page

- From this page, Customers can choose which online payment option they would prefer. Currently SIMPLer supports the use of four payment gateways;
 - 1. Authorize.Net
 - 2. Paypal
 - 3. Moneris
 - 4. Realex
- Also SIMPLer allows the Operators to fully customize their payment labelling, i.e. Payment Methods can either be described simply as "Credit Card" as shown above in Fig 2.13.1-4 or by the Payment Gateway.
- Once the customer has selected their chosen payment method, selecting the "Continue" tab will redirect them to the payment details page as shown in Fig. 2.13.1-5 Payment Details page.
- On the Payment Details page, the customer will be instructed to enter their credit card details, including the Credit Card Number, the Expiry Date (Month and Year) and the CCV.
- The customer will also be instructed to enter a Credit Card Billing Address, as shown below. (Note: The credit card billing address will automatically be populated with the customer's address initial entered in the registration process. If the customer has a different billing address, it is possible to enter a different address at this stage)

KB Networks
Payment Details
Description One Day
Amount: 4.99
Credit Card Details
Credit Card Number * Expiry Date * CCV *
Credit Card Billing Address *
Firstname *
Dioggs
Main Street
main sueet
Cark
Post / ZIP Code *
1AB CD2
Process Payment Cancel

Figure 2.13.1-5 Online Payment Details.

- Once all the relevant details have been entered, selecting the "Process Payment" tab will finalize the token purchase.
- The customer also has the option of cancelling the token purchase, by selecting the "Cancel" tab shown above in Fig. 2.13.1-5.
- Once the payment process has been confirmed, SIMPLer will generate a Username and Password for the token purchased by the customer, shown below in Figure 2.13.1-6. This Username and Password can then be used to access the Internet, through the Operator's Hotspot.

KB Networks
Welcome to KB Networks
Purchase Confirmation
Dear Joe Bloggs,
You have received 15 minutes of Internet Access.
Please use the following details to access the internet:
Username: kb1joeblo8 Password: gh727
Please record the username and password above or open a new browser page in order to use the hotspot. The username and password will also be sent to you via email for future reference.
In order to purchase additional tokens please use the following link to access your account details.
http://www.kbnet.ie/ Username: kb 1joeblo8 Password: gh727
Log In Now!

Figure 2.13.1-6 Username & Password for Generated Token

• Also once the payment process has been confirmed, SIMPLer will generate and send an email to the email address specified by the customer during the customer registration phase.

Thank you for signing up for KB Networks Your username and password are listed below. Username: kb1kb3
Password: er545
Please keep your username and password in a safe location and do not share it with anyone. Your password cannot be retrieved it it is lost and your token may only be used by one person at a time. In order to purchase additional tokens please use the following link to access your account details.
https://172.16.9.71/CustomerPortal/login.pl?operator=kbnet Username: kb1kb3 Password: er545
f you need any assistance please contact our technical support line at .
Thank you!
River House Biver House Blackpool Park Cork
Email: keith@azotel.com

Figure 2.13.1-6 Email with token details sent to customer

- Shown in Fig. 2.13.1-6 is an example of the email that is sent to the customer following the payment confirmation for a token.
- This email outlines the Username and Password needed to gain access to the Internet through the Operators hotspot and outlines the Username and Password need for the customer to access their online End User Portal. Details of which are discussed in Section 2.13 Customer End User Portal (EUP)
- Please note that this email is customizable to the point that the Operator's name will be evident within the body of the email, i.e. in the above example, the Operator's name "KB Networks" will be replaced with the Operators name that is providing the hotspot. Also any contact details contained within the email will reflect the Operator's details that is providing the hotspot.
- An invoice is also sent as an attachment with this email outlining the payment and product details associated with the customer's purchase. *Note: The design and layout of the Invoice as*

Azotel Confidential Proprietary © Azotel Technologies Ltd 2024 shown in Fig. 2.13.1-7 is completely customisable from Company logo replacement to a complete graphical layout change.

Date: Period:	155 19 Aug 2010 19 Aug 2010 - 19 Nov 2010	azote	
Account IL	2: KB1KB3		
КВ		KB Networks	
BB		River House Blackpool Park	
		Cork Tel Finit	
Previou	us Payment Details		
Date	Description No navmants wara made since the last invoice date	\$	
Balanc	e Forward	\$	
	Previous Balance Owing	0.00	
Subsci	ription Details		
Qty	Product Take our Broadband Septise for a test Drive Vey est 1	\$ 0 Meashulas of	
	ake our broaduarig bervice for a test brive, top det r	U Medabytes OI	
1.00	Take our alloaddand betwide for a test of the set of th	is service or try 0.00	
1.00	Bragadout access on our Freedom Flan. After the half will be regured to make a payment to continue using the out our faster options.	empine, you 0.00	\$ 0.0
1.00	Bragdand access on our Freedom Fina. After the high will be regard of one as payment to contrave using the out our faster options.	emping, you 0.00 is service of by 0.00 Net Amount Tax Amount Tax Amount	\$ 0.0 \$ 0.0
1.00	Bragada d access on our Freedom Flan. After the high will be regarded on make a payment to continue using the out our faster options.	veprins, you is service or by 0.00 Net Amount Tax Amount Invoices Total Invoices Total	\$ 0.0 \$ 0.0 \$ 0.0
1.00	Brandpard access on our Freedom Flan. After the half will be requered to make a payment to continue using the act our faster options.	versing, you is service or by 0.00 Net Amount Tax Amount Invoice Total Providuous Balance	\$ 0.0 \$ 0.0 \$ 0.0 \$ 0.0
1.00	Brandpard access on our Freedom Flan. After the half will be regarded on make a payment to continue using the out our faster options.	Net Amount Tax Amount Invoice Total Previous Balance Total Amount Due	\$ 0.0 \$ 0.0 \$ 0.0 \$ 0.0 \$ 0.0 \$ 0.0

Figure 2.13.1-7 Default Invoice/Statement design (Customizable)

2.12.2 Login Page and Hotspot access.

After connecting to the client side of the Azotel HIB-C device, each customer device will be assigned an IP address by a DHCP server. Rogue devices, whose IP addresses have not been assigned by the DHCP server, will not be served by HIB-C client and all traffic generated by those will automatically get dropped. To get access to the Internet, the customer has to login through the Captive portal with a valid token (username/password combination) first.

Customers that are not already logged in will be presented with a Captive Portal page while trying to browse internet websites. Through the Captive Portal, customer can purchase access tokens, browse operator specific websites or login with a token to get access to the internet.

By default, HIB-C client will present a common Azotel Captive Portal page, presented on figure 2.13.2-1. Contact <u>support@azotel.com</u> for details on how to change the graphic layout.

Note: Operator can turn off the online purchase module in Hotspot attributes (via 'Create Hotspot' or 'Modify Hotspot Page'). In this case customers will have to purchase/obtain the token details from the operator first.

KB Networks
Please enter your username and password Username: Password:
LOGIN
Purchase User Account I have read and accept both the <u>"Terms & Conditions"</u> and <u>"Acceptable Usage Policy"</u> Purchase
Copyright@ 2010 KB Networks. All rights reserved Powered by AZOTEL

Figure 2.13.2-1 Default Azotel Captive Portal template/page

• To gain Internet Access, a Customer must enter the Username and Password in the login page, provided to them through SIMPLer. From the example previously, the Username and Password that would be entered is:

Username: **kb1joeblo8**

Password: gh727

- Once those details have been entered, the customer must then select the "Login" tab in order to gain access, which will re-direct the customer to the Google homepage.
- Depending on the parameters set down during the product addition stage in SIMPLer, a customer will be able to log-in and log-out at their own preference through this default Login Captive Portal.
- As well as customers gaining access to the Internet through the Operators Login Captive Portal page, they also have the option of login through a customer's End User Portal as outlined in Section 2.13.

2.13 Customer End User Portal (EUP)

• Once a customer has purchased a token, they will receive details on accessing an End User Portal (EUP) both through the generated token details page and through the customer email that outlines token details as shown below;



Figure 2.13-1 EUP details obtain from online token purchase and customer email.

• In order to access the EUP, a customer can click on the link provided, which will redirect them to the login page as shown below in Fig 2.13-2 Login page for customer EUP.

	Login	
KB Networks		
End-User Portal		
Authentication Required		
Username Password		
Login		
Forget Username or Password?		
Copyright © 2010 KB Networks. All rights reserved	Powered by AZOTEL	

Figure 2.13-2 Login page for customer EUP

- From here, a customer can access their EUP by entering the Username and Password provided.
- From the EUP, customers can view their current token usage, their previous token usage and their current and previous invoices as shown below in Fig 2.13-3 Home page of EUP
- Using the EUP, Customers will also be able to enter credit card details, and will be able to purchase additional tokens without having to complete the registration process time and time again. Fig 2.13-4
- The EUP will also give the customer the option to change their passwords, not only to login, but also to each individual token, giving the customer individual control over their account.
- The EUP's features and access is also customizable through the initial WISP set up outlined in the SIMPLer Operators Manual (06043_SIMPLer_Operators_Manual_v024). From here the Operator can choose what the customer has access to, through the EUP.

KB N	etworks			
Home				
Home	Account	Hotspot		
Account Holder		2		
Account ID	ko1ko3			
Customers Name	KB	L		
Current Pay Method	Credit Card	÷ L.	· · · · · · · · · · · · · · · · · · ·	
Auto Payment		Max In: 1902.5 Max Out: 543.9	Mic(1545) Average in 64.74b/c(159 Mic(1395) Average Out 932394/c029	 Cartest In: 20142/65-40.01 Cartest Car. 1557.4 his (0.01)
	View your most curr	rent bill below. You can view the deta	als by clicking on the Bill Date.	
		Charges this month	Amount Due	
Connect	Lill Chattan		Personal Long	

Figure 2.13-3 Home page of EUP

KB Ne	etworks					
Hotspo	ot Accounts					
Home	Account	Hotspot				
Account Holder			Customer Tekens			
Account ID	kb1kb3		Customer Tokens			
Customers Name	КВ		Token	Status	Details	Password
Current Pay Method	Credit Card		kb1kb3	active	Show	Change
Auto Payment						
		Buy Additiona	l Hotspot Token:			
		Product: TestDrive - 1 da	iy 🗘			
		Choose paym	ent interface:			
		Pur	chase			

Figure 2.13-4 Purchasing additional tokens through the customer EUP

3 Customization

3.1 Captive Portal and Login page

- As shown previously the Captive Portal and Login page will automatically be set to a default supplied by Azotel as part of the Hotspot system. i.e. Fig. 2.11.2-1
- Azotel can however offer a great deal of customization of the default in relation to the Captive Portal and Login page.

3.1.1 Example of Hotspot Captive Portal and Login Page customization

An example of the type of customization that Azotel can provide to AEOs (Azotel Enabled Operators) can be seen in the example below, with the default pages shown on the left hand side and the degree of customization on the right.

KB Networks	
	Did you ever think.
Parchase (that Account)	Harry?
	Take a Take Take Take Take Take Take Tak
Default manage at the most	Custom More about Whistley

Figure 3.1.1-1 Login Page Customization

	Reg	ister Customer.	The Viglion and the second sec	TRA 144-200
		Sign op detaile	The fault links of around the pair 20 Means of Bouillard acone of an HHI pair. Also the bar pair pair of his regional, you will be stapping by reading as an order by	nime Hored More Than 30 Minutes?
	Teent	One Day 💌 Show Details		Register Customer
	First Name *	-Ate		The sector is a sector in the sector is a
	Last Name *	Bayga	Test Drive	the Number of Strainste
	Street *	Subset Drawer	The second s	Pol Nety*
	106*	Con	There is which it is a part of a second second and a second	Last have "
	Pestal2P Late*	TAB CD2	capabilities.	(b)
	Call Phone 1	021 123496.7	Learn, Meer	handP
	The small address "	Feet-Grazeni con	most our company, promp and particle affectings	(all these "
		Contract		Kas anal ettere
Sam le	" Name and Series		Custom	Solice

Figure 3.1.1-2 Customer Registration Page



Figure 3.1.1-3 Payment Method Option Page

KB Networks	
Ovell Card Details	Facertinals
Institute California State California	innorpan kan kaakat j angat ya m Divalit Card Dataih
Could Card Million Aldress * Reducer *	Ited factories " Table fact "
Address *	(Indiff (art) filling Addition 1 Technical 1
any"	Aller *
	MALE PROMINENT
Default	Custom

Figure 3.1.1-4 Credit Card Details Entry Page

KB Networks Web and to 80 Minutes Perchant Configuration Data for the stand Lease	Encode and the second
Username: kb1joeblo8 Password: gh727	Username: wi2keibeo1 Pasewint: gh354
Please incode the memory and parameteric dense or open a sense to report a graph in other to not the belarget. The memory and parameteric and dense or open a sense to relate taken before otherware. In other to particular additional typicane preservation the belarget to access one account default. Minimum of the behalt default of the sense of the behalt of the sense one account default. Minimum of the behalt default of the sense of the behalt of the behalt of the sense of the behalt of the sense of	Here word the memory and partnered alone or spon a new homes page to obtain to see the beinget. The memory and partnered all also the outer part is small for black observed. In outer partnere works of the sponse or the black observed and also the black observed allowed in the sponse of the black observed and the black observed allowed in the sponse of the black observed and the black observed allowed in the sponse of the black observed and the black observed allowed in the sponse of the black observed and the black observed allowed in the sponse of the black observed and the black observed allowed in the sponse of the black observed and the black observed allowed in the sponse of the black observed and the black observed allowed in the black observed and the black observed allowed allowed allowed allowed allowed the black observed allowed allowed allowed allowed allowed allowed allowed allowed allowed allowed the black observed allowed
Default	Custom

Figure 3.1.1-5 Token 'Username' and 'Password' Page

• If an Operator wishes to customize their captive portal pages using their own company branding, templates of how they wish the captive portal to look can be sent to Azotel for customization of the pages shown above. The degree of customization can be as detailed or simplistic as the operator requires

3.2 Terms and Conditions for Customer registration

- As detailed in section 2.11.1, a customer will not be permitted to carry out the online registration process unless they except a set of "Terms & Conditions" and an "Acceptable usage policy", links to which are provided on the captive portal. See Fig 2.11.1-1 Customer Login page
- Similar to the layout and design of the captive portal pages, if an operator does not supply their own, Azotel will supply default "Terms & Conditions" and a default "Acceptable usage policy".
- If an Operator wishes to supply their own "Terms & Conditions" and an "Acceptable usage policy";
 - This can be done by through operators supplying their own URL that links to their "Terms & Conditions" and "Acceptable usage policy". This will be entered into the initial WISP settings (Hotspot settings), which is outlined in the SIMPLer Operators Manual (06043 Azotel SIMPLer Operators Manual V024).
 - Once a URL has been supplied, this will re-direct any potential customer to the operators "Terms & Conditions" and "Acceptable Usage Policy", if the customer wishes to read them.
 - Again the Customer will be unable to access the registration process unless he/she accepts the "Terms & Conditions" and "Acceptable usage policy"
 - If an Operator is unable to provide a URL, Azotel will provide a default option.

Annex A: References

A.1 Document References

- 06043 Azotel SIMPLer Operators Manual
- 09016 Azotel HIB-C Quick Start Guide
- 08005 Azotel SIMPLer Operator Support Procedure

A.2 Link References

- [L1] <u>http://www.azotel.com/</u>
- [L2] <u>http://wiki.mikrotik.com/wiki/Manual:First_time_startup</u>
- [L3] <u>http://www.hotspotsystem.com/en/hotspot/install_guide_mikrotik.html</u>)

Annex B: Definitions and Abbreviations

B.1 Definitions

B.2 Abbreviations

For the purposes of this document, the following abbreviations apply:

- SIMPLer Azotel's integrated operators' platform
- AEOs Azotel Enabled Operators
- HIB-C Hotspot-In-a-Box Client

Annex C: Change History

Change history					
Date	Author(s)	Subject/Comment	Old	New	
20/08/2010	Tomas	Original	000	001	
16/02/2013	Justyna	Updating screenshots	001	002	
15/06/2013	gawl	Document Revision & Updates	003	004	
22/06/2013	klaudia	Formatting	005	006	
13/Jun/13	paul	Changed doc's title, copyright and correct year, doc num on all pages	006	100	