

The **GlobeSurfer III** *Gateway Router*



3G Wireless Gateway Router with full client customizable features.

Dual and Tri band variants, designed to meet the needs of a truly nomadic, remote and global marketplace.

Unprecedented ease of use, combined with the depth and breadth of power-user functionality, making the GlobeSurfer family the number one choice for wireless gateway routers.

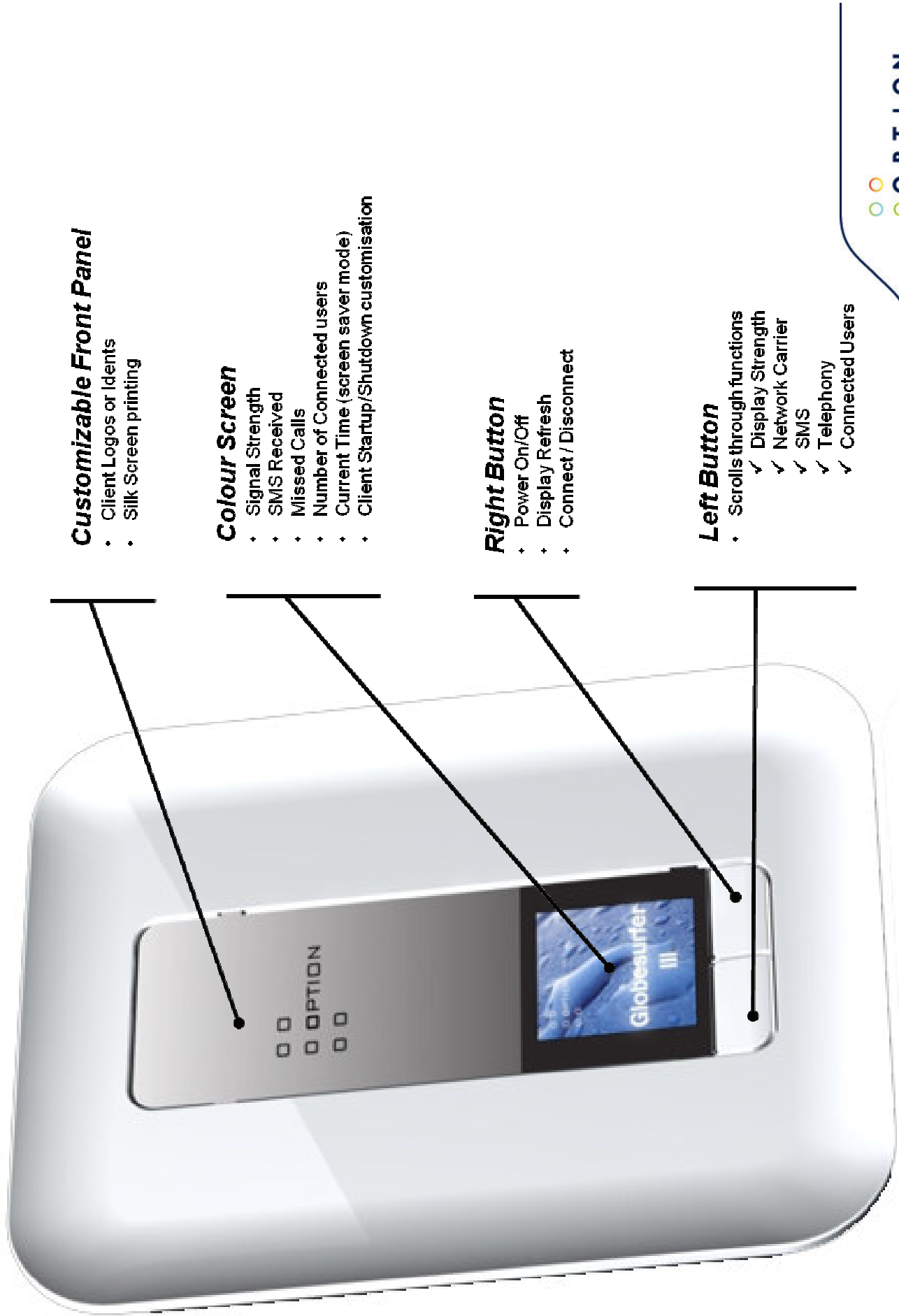


The GlobeSurfer III

Technologically and Aesthetically Enhanced

- ✓ Portrait form factor, with wall hanging or desktop design
- ✓ Full Client Customisation
- ✓ Colour CSTN Display (64k colours)
- ✓ High Speed Download and Uploads
 - *HSDPA at 7.2Mbs and HSUPA at 5.76Mbs*
- ✓ Rx Diversity on all bands, high and low
- ✓ 2 x RJ45 Ethernet Ports
- ✓ POTS RJ11 Telephone Port
- ✓ USB port
 - *Printer Server*
 - *File Server (Network Attached Storage)*
 - *Multimedia distribution (MP3, AVI, Video)*
- ✓ Incorporation of Qualcomm 7225 Chipset
 - *“EMEA” dual band : 900/2100 (GS311)*
 - *“NAR” tri band : 850/1900/2100 (GS312)*
- ✓ Advanced GUI interface
 - *Task Bar ‘Pop-up Notifier’*
 - *Brand new “Browser” graphical interface*
- ✓ External Antenna Connector





Customizable Front Panel

- Client Logos or Idents
- Silk Screen printing

Colour Screen

- Signal Strength
- SMS Received
- Missed Calls
- Number of Connected users
- Current Time (screen saver mode)
- Client Startup/Shutdown customisation

Right Button

- Power On/Off
- Display Refresh
- Connect / Disconnect

Left Button

- Scrolls through functions
 - ✓ Display Strength
 - ✓ Network Carrier
 - ✓ SMS
 - ✓ Telephony
 - ✓ Connected Users



External Antenna Connector
Right angled MMX connector

Ethernet Ports
Direct PC/Laptop connectivity

USB Port
External Hard Disk Drive
Network Printer

RJ11 Telephone Port

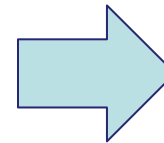
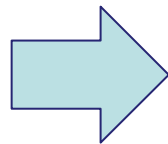
Power Input

**SIM slot and
Reset button**

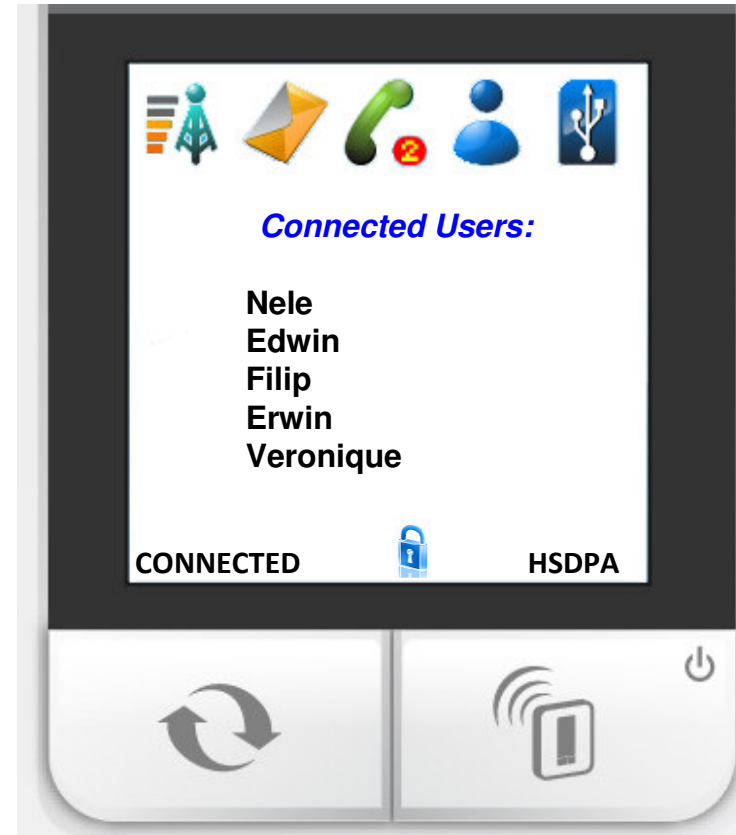
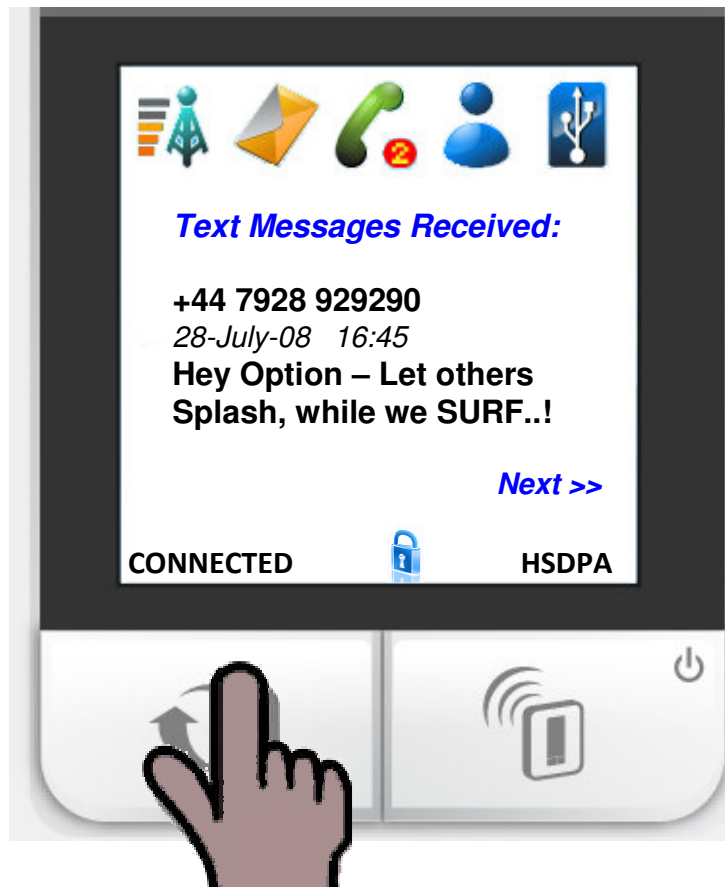
GlobeSurfer

Evolutionary Changes from GSII to GSIII

<i>GSII</i>	✓	✗	✓ (1)	✗	✗	✗	✓
	HSDPA 7.2	HSUPA 5.7	LAN/WAN	USB	Colour Display	Desktop GUI	External Antenna
<i>GSIII</i>	✓	✓	✓ (2)	✓ (1)	✓	✓	✓



What You See On Screen...





Desktop Notifier

Hovering over the taskbar Notifier icon displays the following information:

- Home or Roaming based Operator connected
- Connection Status – “Connected” / “Not Connected” (GPRS, UMTS, HSDPA)
- Incoming SMS, (including 2 line SMS summary)
- Incoming / Missed phone calls, (including Call Line Identity)
- Signal strength (represented by percentage)
- Number of connected users
- Additional ‘event’ based notification (error messages)

Clicking on an area (eg SMS) will take the client to the GSIII Web Client facility page (eg SMS).



***When an ‘event’ occurs, the Notifier alerts the user
(click to initiate event)***

Enhanced Browser – Basic Mode



GlobeSurfer III

Welcome **admin** | [Go to Advanced Mode](#) | [Site Map](#) | [Reboot](#) | [Logout](#)



Home



Quick Setup



Telephone



SMS

Quick Setup

Web interface and display

Language:

EN English

Telephony

Caller ID:

ETSI DTMF

UMTS

Access point name:

internet.proximus.be

UMTS connect method:

- Connect Manually
- Automatically connect upon traffic
- Always connected

In case of inactivity, disconnect after (minutes):

0



Enhanced Browser – Advanced Mode



GlobeSurfer III

Welcome admin | [Go to Basic Mode](#) | [Site Map](#) | [Reboot](#) | [Logout](#)

Home Quick Setup Internet Connection Local Network Services System Shortcuts Telephone SMS

Overview Map View Installation Wizard Quick Setup

Home

Internet Connection

Operator: _____
Signal strength: Good (-75 dBm)
Connection status: Disconnected
Current connection time: -

[Connect](#)

Local Network

3 Computers Connected

	computer	192.168.1.2	Connected
	hp (me)	192.168.1.3	Connected
	computer-2	192.168.1.5	Disconnected

Storage No Disks Connected

Printers Print Services Disabled

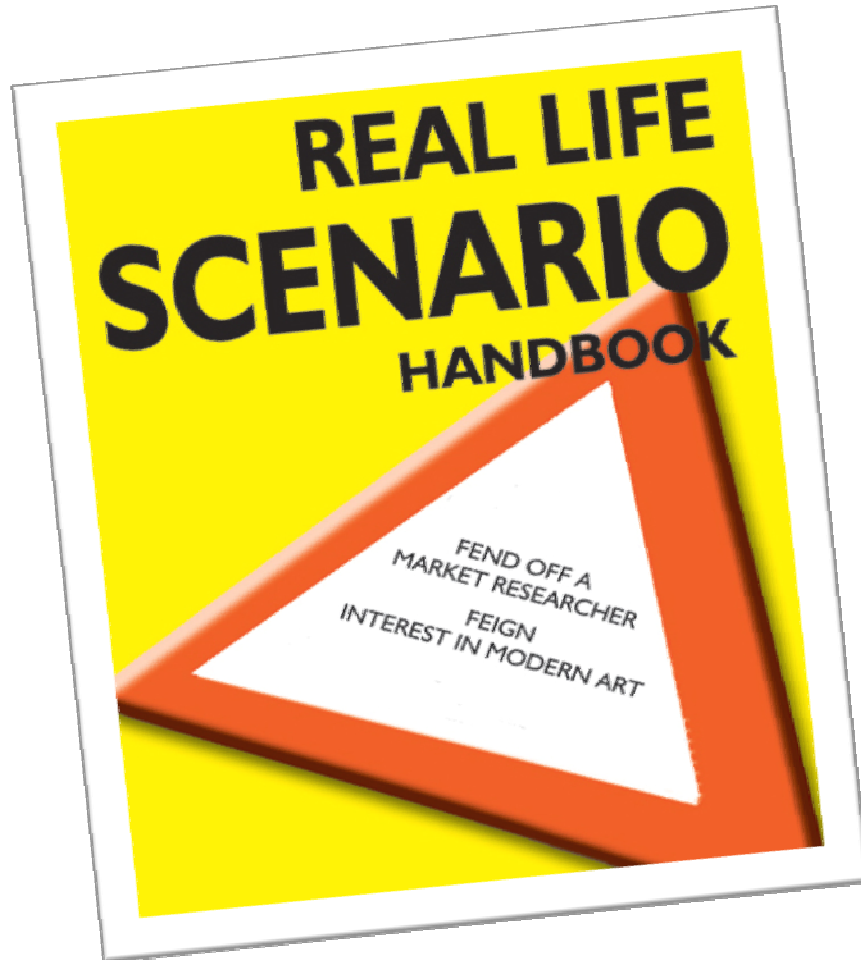
Services

- Firewall Typical Security
- File Server No Disks Online
- Print Server Disabled
- IPSec Disabled
- Personal Domain Name Disabled





Real Life Scenarios...



***How the GlobeSurfer
makes life easier..!***

From Personal Experience...



✓ Signal Strength

At the Office

- With the GlobeSurfer III sitting on my desk, the display oscillated between HSDPA and GPRS. By moving the device 1 meter to the left it locked onto HSDPA and the speed increased significantly.



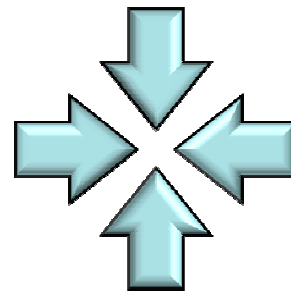
Without the GlobeSurfer display, noticing the cell fluctuation would have been unlikely



From Personal Experience...

✓ At Home

- Walking the GlobeSurfer III around the house determined the location offering the greatest signal strength was not the highest location in the house, but the middle level; in my 12 year old daughters bedroom, between pictures of The Pussycat Dolls and The Black Eyed Peas.!



Without the GlobeSurfer display, this walk test would not have been practical

From Personal Experience..

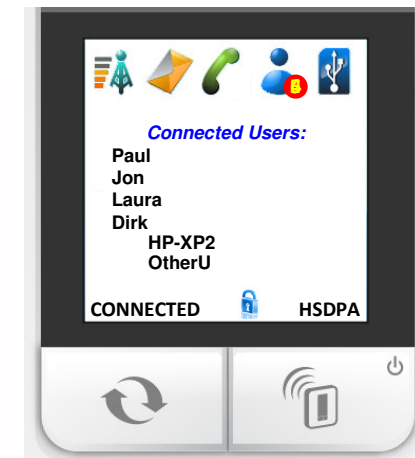
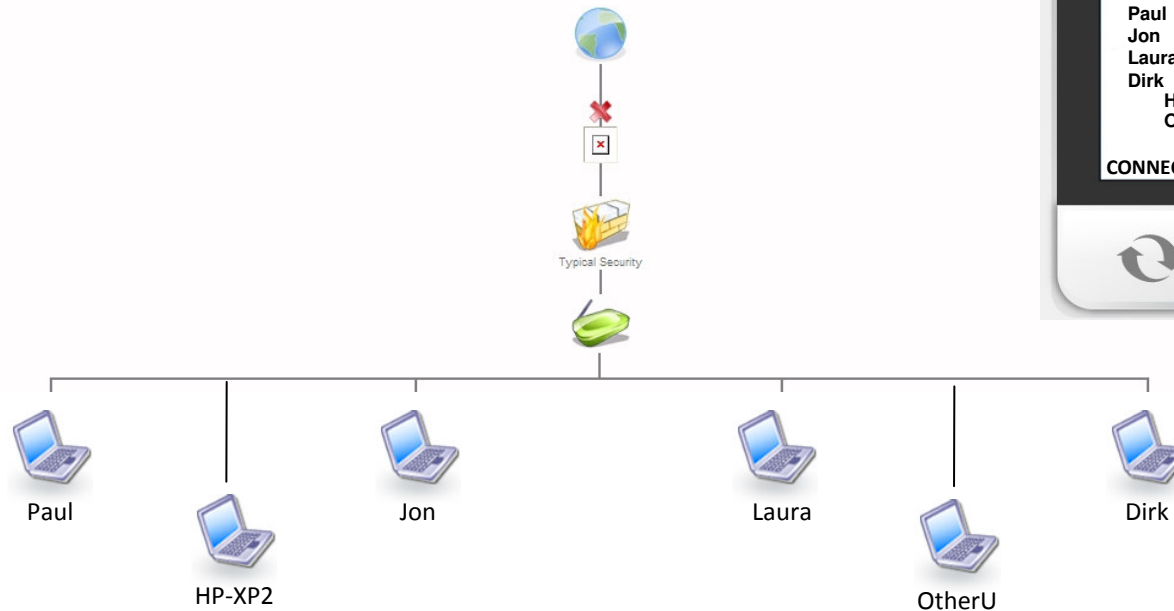


✓ Connected Users

Offsite meeting

- Group of 12 delegates attending an off-site meeting used the GlobeSurfer in order to save money using the hotel WiFi (saving €10 per person).
- GlobeSurfer III was used with security turned 'off', and as such, "parasites" began to appear – from meeting rooms adjacent to ours!
- By viewing the display panel, it was obvious to see the interlopers appear, and 'corrective' steps were taken (they were disconnected, and then the GlobeSurfer III was WEP/WPA security enabled).

Network Map

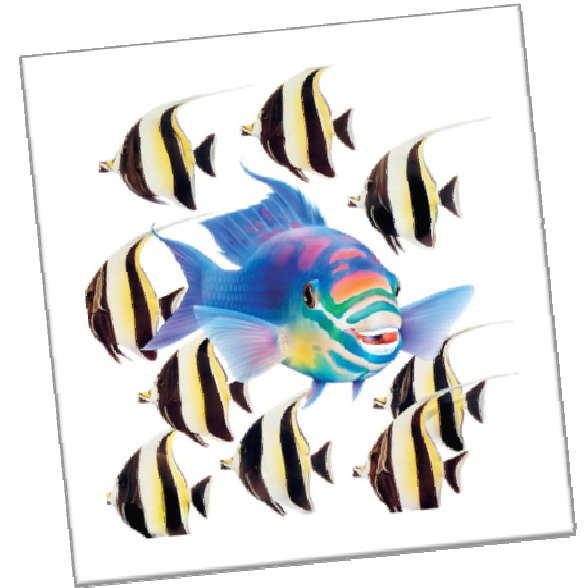


Without the GlobeSurfer display, noticing the interlopers would have been unlikely

One of a kind...



- ✓ **Full Client Customisation**
 - It becomes a part of the Operator family
- ✓ **Aesthetically pleasing**
 - “Living Room” friendly (the Bang & Olufsen of Routers)
 - Quality plastics
 - Vibrant display screen
 - Multi-functional buttons
- ✓ **A great host**
 - Hard Drive Storage
 - Printer Server
- ✓ **A great ‘Notifier’**
 - It ‘talks’ to you through the ‘Notifier’
 - Immediately see what signal is best, and place device accordingly
 - See the number of connected users
 - See whether you have WEP Security enabled or not (Padlock)
- ✓ **Basic and Advanced Web Browser**
 - Attractive to the Novice or Rocket Scientist alike
 - Geekish replaced with English for more intuitive browsing
- ✓ **IP Security**
 - Firewalling and Security functionality is standard



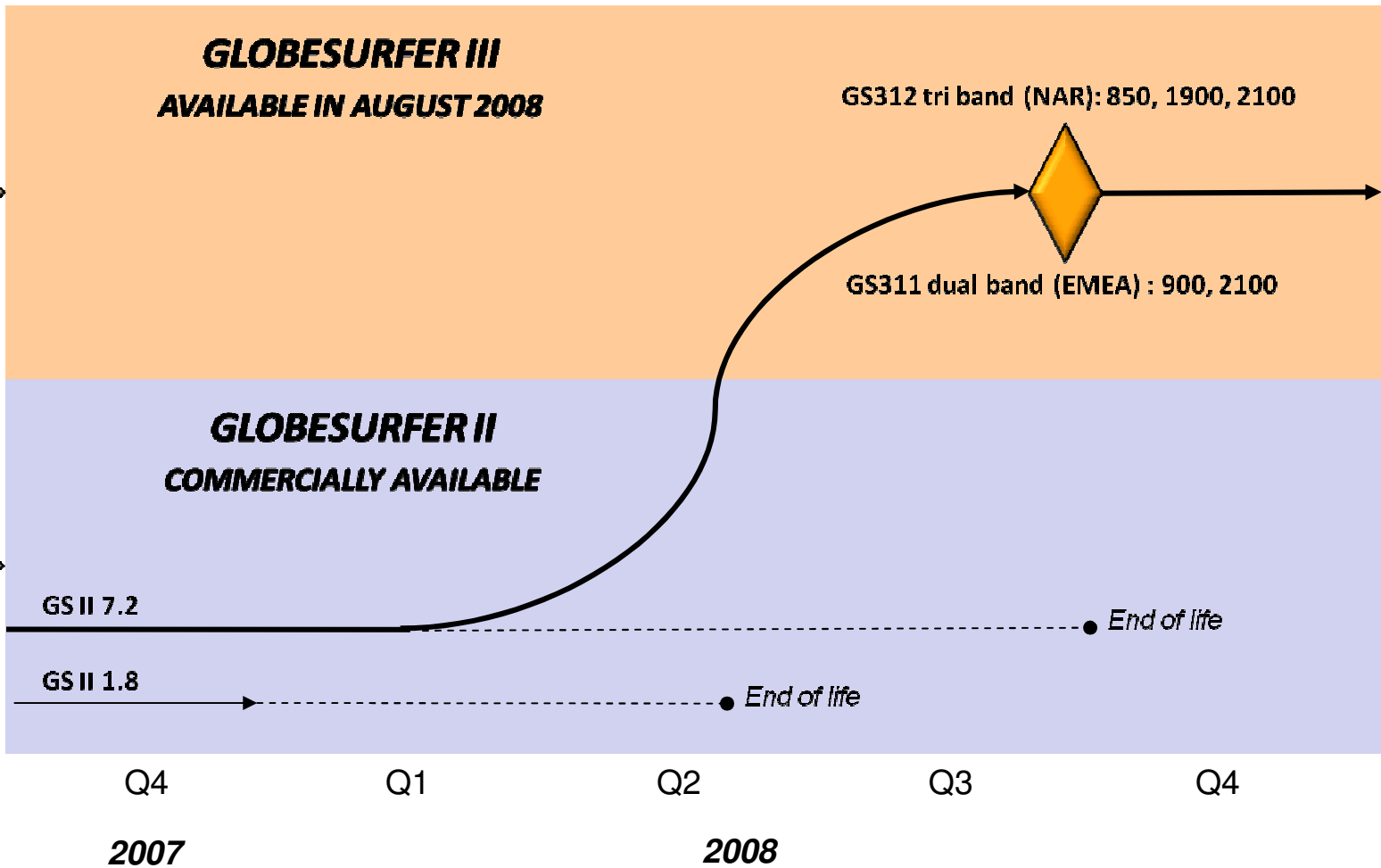
GlobeSurfer Roadmap



HSUPA



HSDPA





Supplementary Slides



The Competition...



OPTION



Huawei E960 vs GlobeSurfer III



Device Characteristics	Option GlobeSurfer III	Huawei E960
Size, Weight & environmental		
Size	155x 100 x 32 mm	155 mm x 115 mm x 28 mm
Weight	255 g plus power adapter	300 g plus power adapter
Communication Possibilities		
Highest HSDPA Speed	7.2 Mbps	3.6 (7.2 Mbps Ready)
Highest HSUPA Speed	5.76 Mbs	384 Kbs
Receive Diversity	2100	2100
UMTS Bands	850 / 900/ 1900 / 2100	2100
(E)GPRS Bands	850 / 900 / 1800 / 1900	850/900/1800/1900
Tech details		
Chipset	QC7225 (Broadcom BCM5354)	QC7200 (Broadcom (BCM5354)
Interfaces		
Hardware Connect button	Yes	No
External antenna connector	Yes (Automatic switching)	Yes (Manual switching)
USB	Yes (Client based)	No (power only)
USB transfer speed	2.0	No (host based)
WIFI types	802.11 b / g / i	802.11 b/g
Ethernet ports	Yes (2)	Yes (4)
PSTN connection(s)	1 POTS RJ11	1 POTS RJ11
Fax support	No	(Yes) Not reliable
Screen or LEDs	Vibrant Colour Display (CSTN) indicating functions and interactive information such as: SMS Messages received, Telephone Calls missed, Signal Strength, USB Connected device (HDD, Printer etc), Operator and network connection (HSDPA, GPRS etc)	One power LED One signal type LED One LED for WLAN in service One signal LED
SIM card	Yes	Yes
Extra Features		
Voice	Yes (inc. multiple call handling features)	Yes (limited to make/receive)
Software		
	Applet based pop-up 'Notifier' and Jungo Web Browser with Basic/Advanced functionality	Web-based management, parameter presetting, and plug-and-play
OS supported	Microsoft OS (2000, XP, XP Pro and Vista) and MAC OS X	Windows 2000, Windows XP, Windows Vista, and MAC OS
Commercials		
Launch Date	August 2008	Launched Feb 08



Fax Support...

FAXING OVER VOIP NETWORKS DOESN'T WORK... (YET)

Problems with Fax

- The Internet has no Quality of Service
- The internet 'jitters', faxes can't cope with it
- IP networks 'drop' packets, faxes can't cope with it
- T.38 protocol that enables FoIP is not common in conventional fax machines

Current Alternatives to Fax

- Send and receive documents as email attachments
- Digital Certificates for 'signed' documents (legally binding)
- File transfer via messaging programmes (MSN, AOL etc)
- Publish documents on FTP sites

You cannot get a gallon into a litre

Low bit rate voice signals are unable to carry fast IP signals without severe distortion or loss of data

Fax machines don't like relativity

The speed at which data enters the network is not the same speed as it leaves, thereby causing fax machines to lose connections or pages

Fax machines like a complete conversation

Silence kills fax calls. Data sends bursts and then silence. A fax machine interprets the silence as completed receipt.