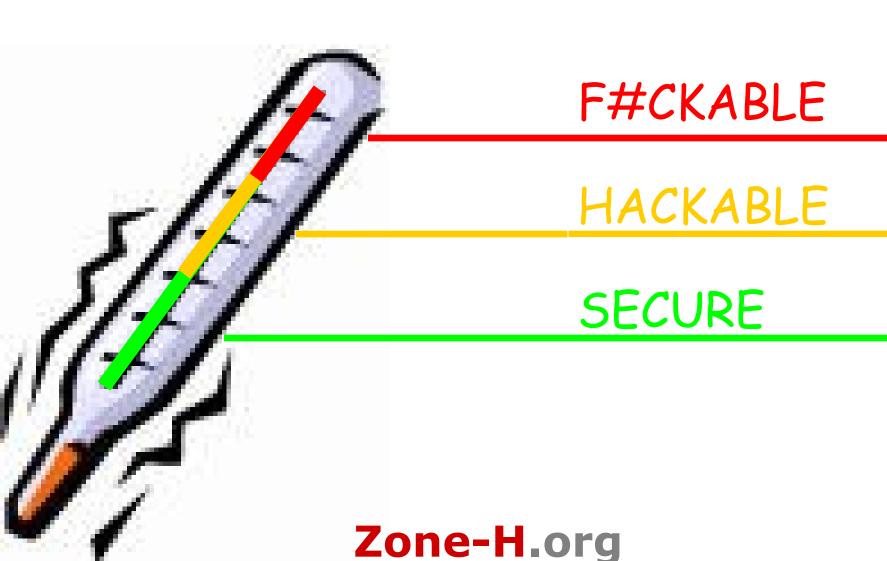
The future frontier of Hacking - UMTS mobile phone platform Web intrusions: the best indicator of the vulnerable status of the Internet

Speaker: SyS64738 www.zone-h.org





# **Zone-H.org:** the Internet thermometer?



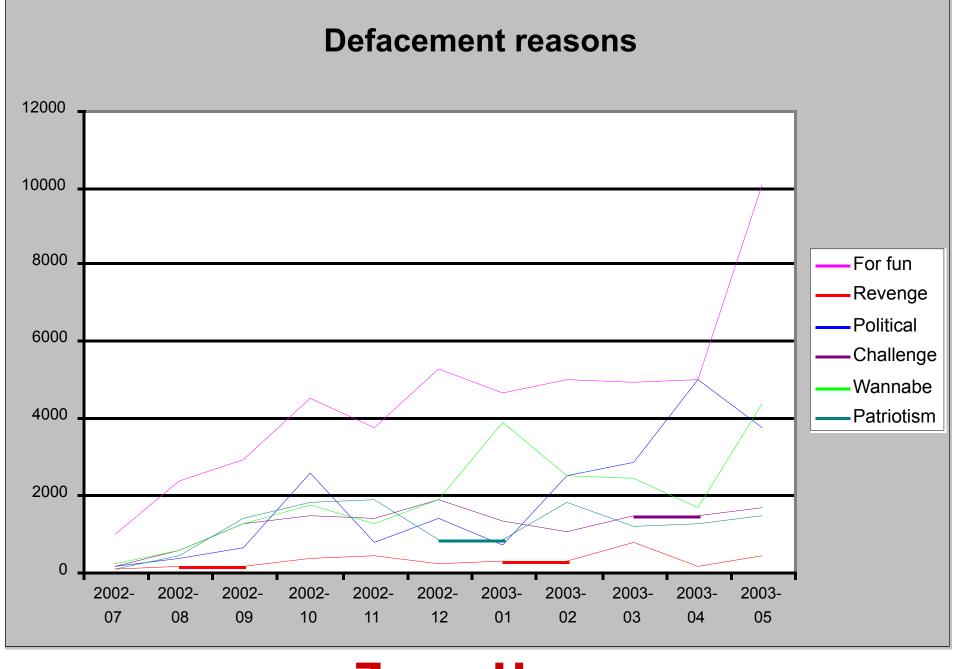
# attacks techniques and tools

#### By attack method:

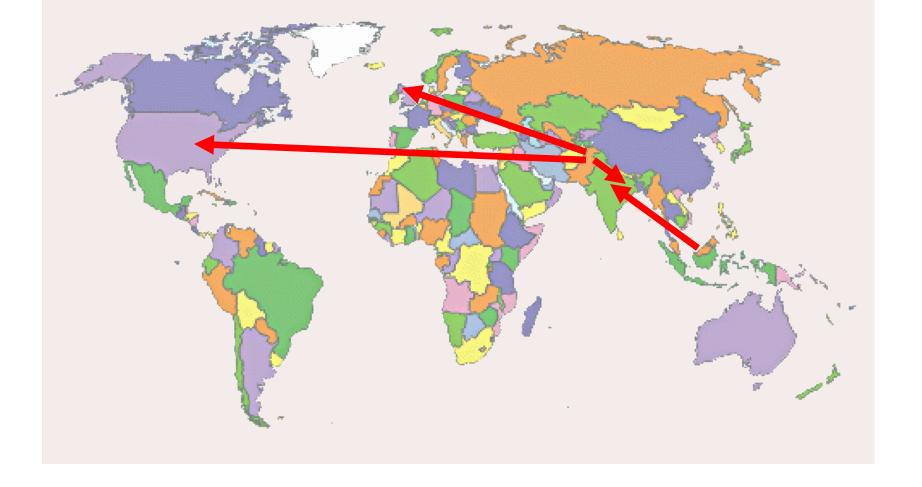
known vulnerability (i.e. unpatched system)	31.3%	
configuration / admin. mistake	24.2%	
undisclosed (new) vulnerability	21.3%	
brute force attack	16.2%	
social engineering	4.7%	
no method specified	0%	

#### 2003 top used vulnerabilities by attackers

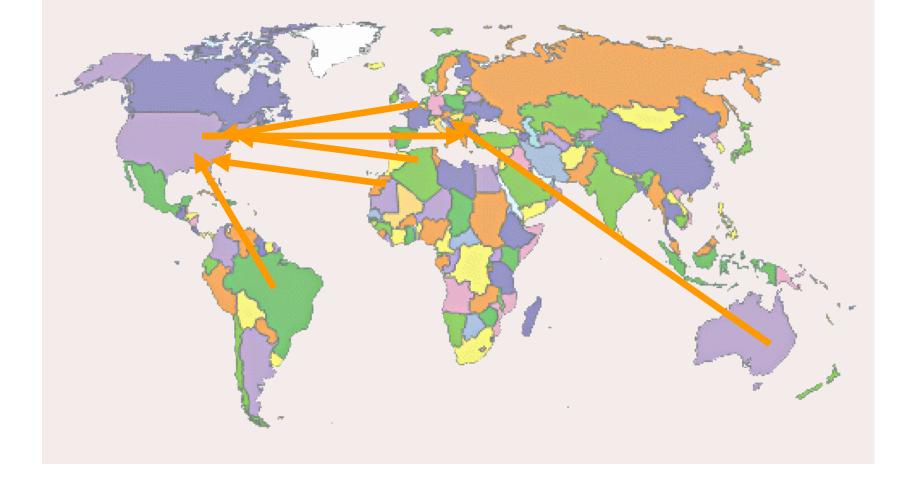
- -Webdav Samba
- -Frontpage extensions Php nuke
- -Openssl



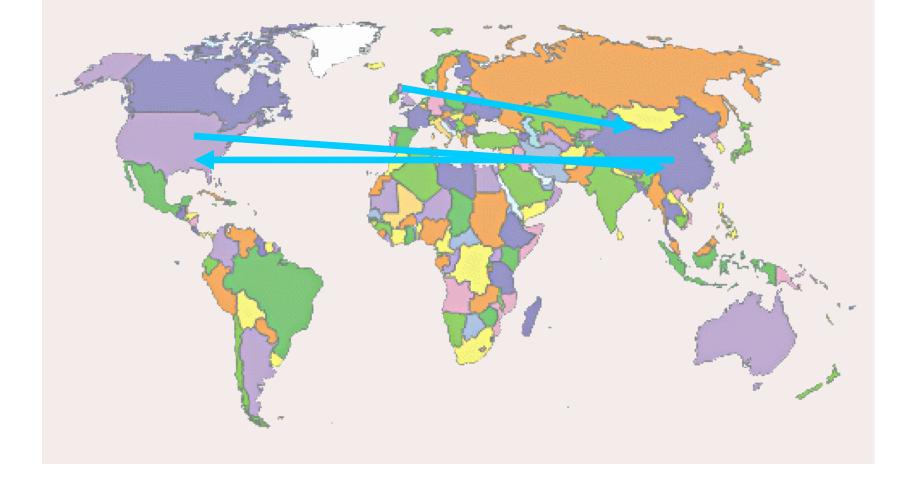
Zone-H.org



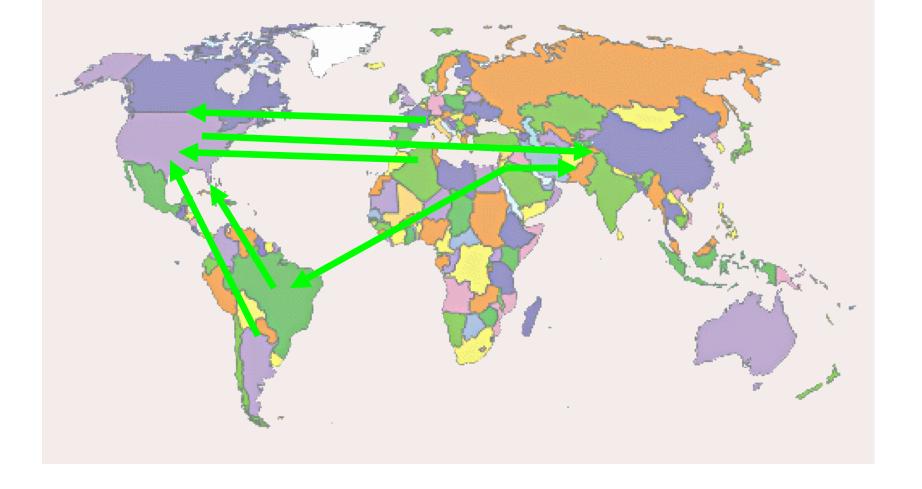
Kashmir related
Iraq war related
Code red release related
Palestine-Israel related
No-Global related



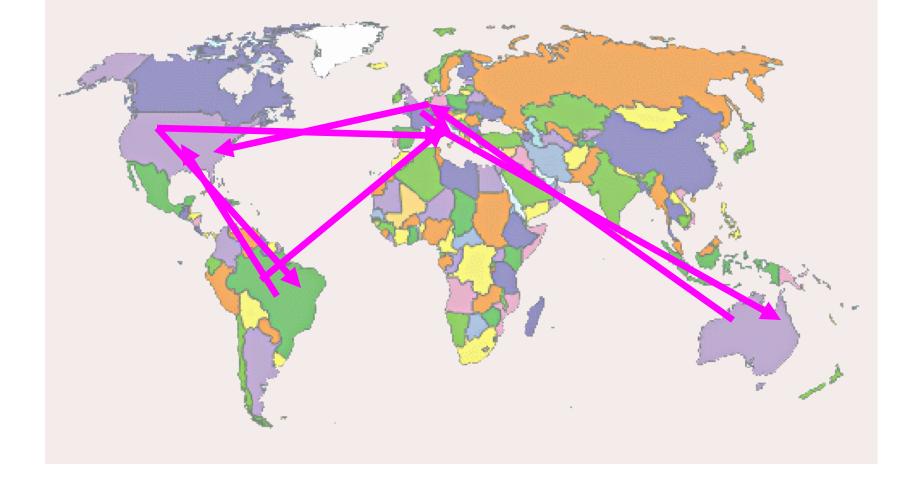
Kashmir related
Iraq war related
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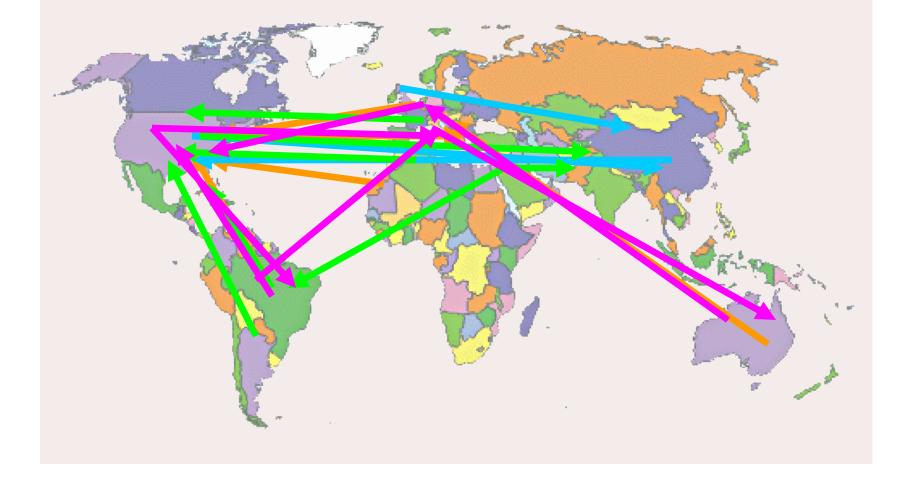


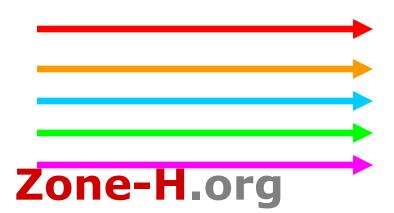












## CYBER-CRIMES ARE CONVENIENT BECAUSE:

- Lack of IT laws
- Lack of L.E. international cooperation
- ISPs are non-transparent

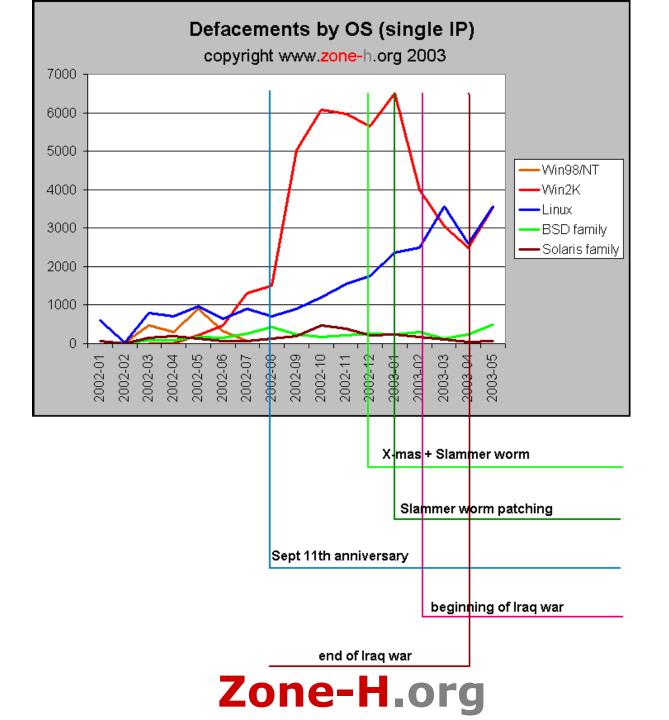
### CYBER-PROTESTS ARE CONVENIENT BECAUSE:

- General lack of security
- No need to protest on streets
- No direct confrontation with L.E.



#### CYBER-CRIMES WILL NEVER STOP BECAUSE:

- Inherent slowness of the Institutions
- The Internet is getting more complicated
- Software producers are facing a market challenge



Traditional hacker's limited world

**Universal** 

**Mobile** 

**Telecommunication** System

Our every day's

life activities

# UMTS vs Wi-Fi (P.A.P.) why not?

• 80.000.000.000 USD paid for UMTS licenses and tight development plans will force Telecoms to spread the UMTS service as fast as possible offering connectivity at a very convenient price.



# The UMTS 3G platform



Full multi-media platform

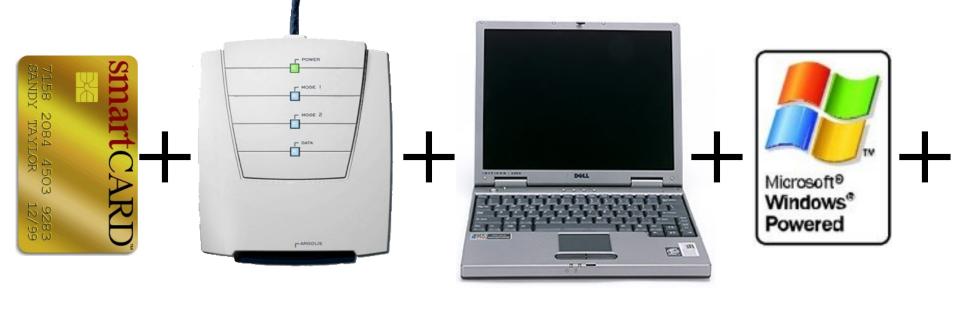
Data bank

Office files

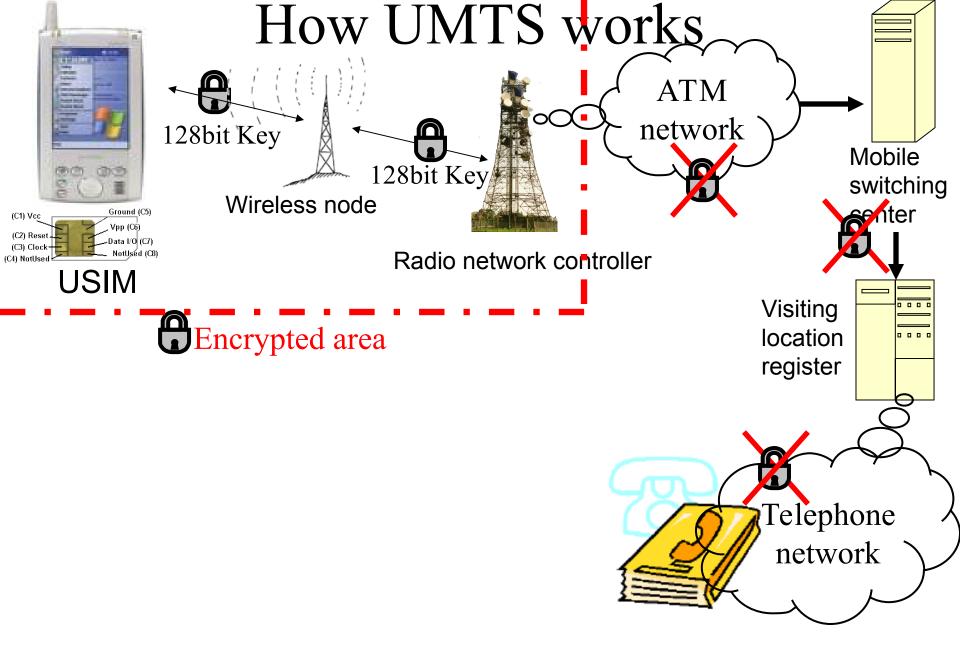
Mobile computing

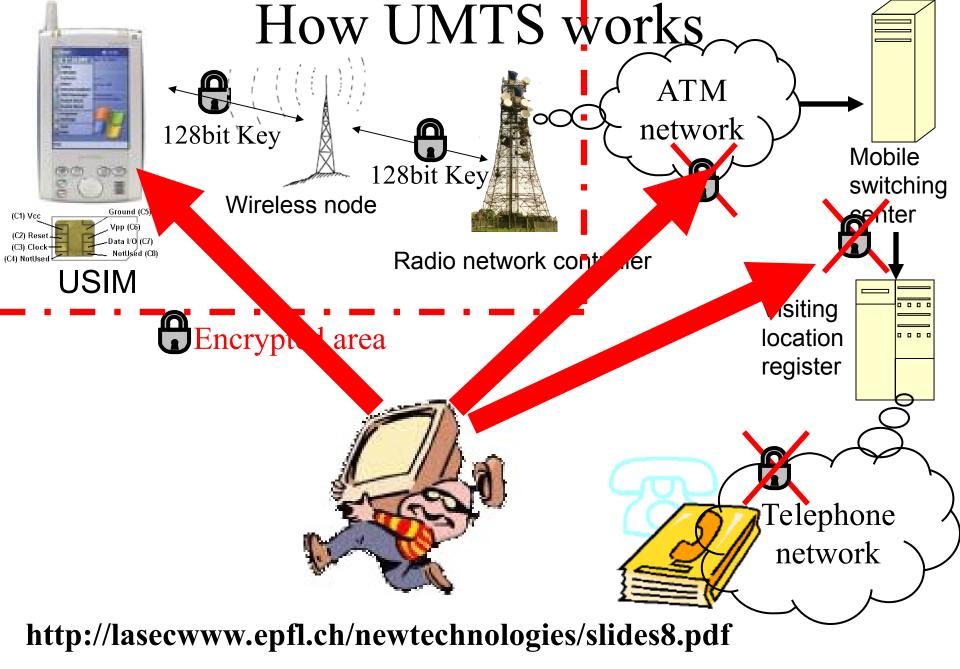
Web browsing

NO LIMITS: they will do whatever a PC currently does as they will be powered by Windows, Linux and other commercial OSs









How crackers will exploit UMTS

- Using OS security flaws
- Through open ports
- Virus (mail, downloaded prgs)
- Trojan (mail, downloaded prgs)
- Using components flaws (media player browser, active sync etc.)
- Webserver flaws
- Exploiting application level







#### Security flaw in Pocket PC Phone Edition

By Simon Rockman, What Mobile Posted: 18/05/2002 at 08:50 GMT



The page car

The page you are looking name changed, or is tem



The June issue of What Mobile magazine reveals a security flaw in the supposedly integrated Phone

Edition of the Pocket PC operating system.

Register Services

Mobile phones offer protection against unauthorized use in the form Register ISP



## DIRECT DAMAGES

- Loss of precious information
- Denial of service (received)
- Denial of service (attack), \$\$\$ loss
- Espionage (loss of documents)
- Eavesdropping (audio and video)
- Unauthorized online shopping
- Bank account unauthorized access



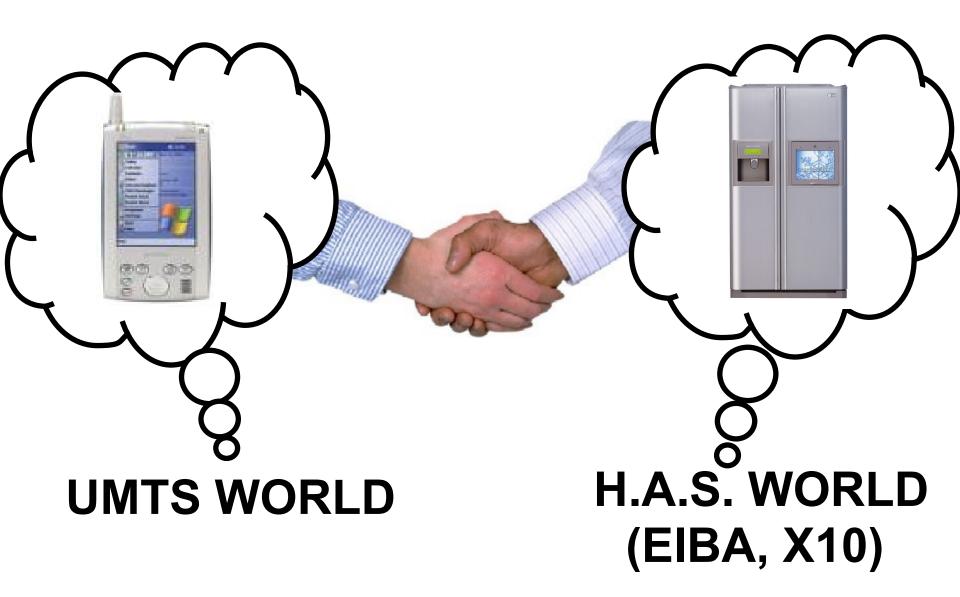
# Privacy threat

- Cyber-stalking (GPS)
- Cyber-stalking (last node ID)
- Direct targeting . The wideband nature of the UTRA/FDD facilitates the high resolution in position location. The duration of one chip (3.84Mcps) correspond to approximately 78 meters in propagation distance. If the delay estimation operates on the accuracy of samples/chip then the achievable maximum accuracy is approximately 20 meters.

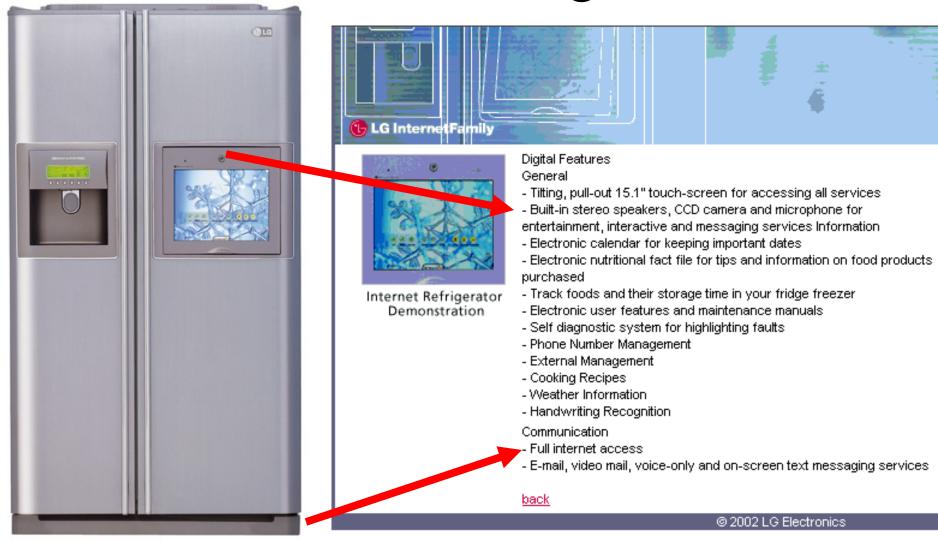
# What a UMTS hacker should study: links

- <a href="http://www.tutorgig.com/searchtgig.jsp?query=um\_ts">http://www.tutorgig.com/searchtgig.jsp?query=um\_ts</a>
   <a href="mailto:(several tutorials">(several tutorials)</a>
- <a href="http://www.ericsson.de/downloads/pressenews/pra">http://www.ericsson.de/downloads/pressenews/pra</a> esentation\_cornelius\_boylan.pdf
- <a href="http://lasecwww.epfl.ch/newtechnologies/slides8.p">http://lasecwww.epfl.ch/newtechnologies/slides8.p</a>
   <a href="http://lasecwww.epfl.ch/newtechnologies/slides8.p">http://lasecwww.epfl.ch/newtechnologies/slides8.p</a>
   <a href="http://creativecommons.gov/">http://creativecommons.gov/</a>
   <la>http://creativecommons.gov/</a>
   <a href="http://creativecommons.gov/">http://creativecommons.gov/</a>
   <a href="http://creativecommons.gov/">http://creativecommons.gov/</a>
   <a href="http://creativecommons.gov/">http://creativecommons.gov/</a>
- <a href="http://www.sans.org/rr/paper.php?id=253">http://www.sans.org/rr/paper.php?id=253</a>
- http://www.pocketpcdn.com/
- http://www.itsx.com/pocketpc/BH-AMS-2003-its x.ppt
- http://www.3gpp.org/specs/titles-numbers.htm (all 3G specs and current releases)

# Home automation

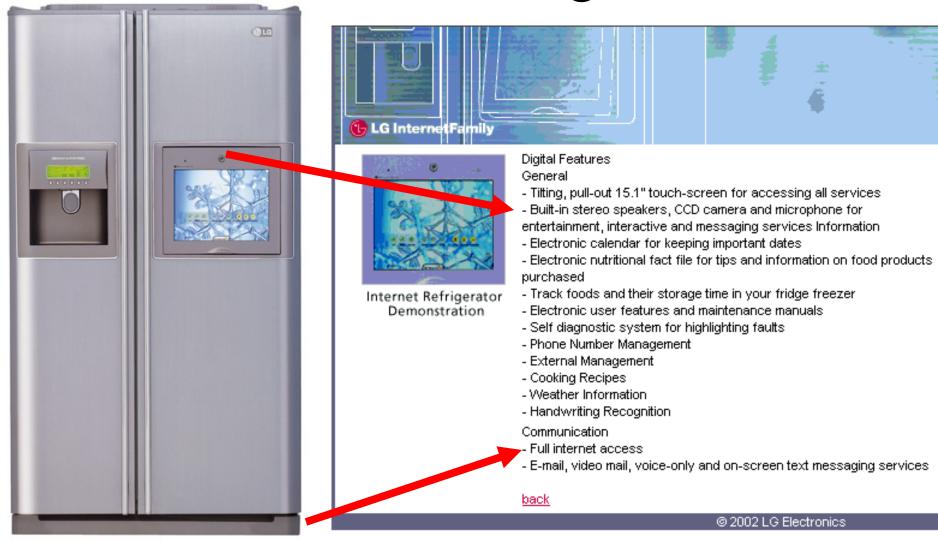


# The Internet refrigerator



The fridge's built-in PC is a low-spec affair based on a 300MHz National Semiconductor Geode processor, 128MB of RAM and a 17GB hard disk.

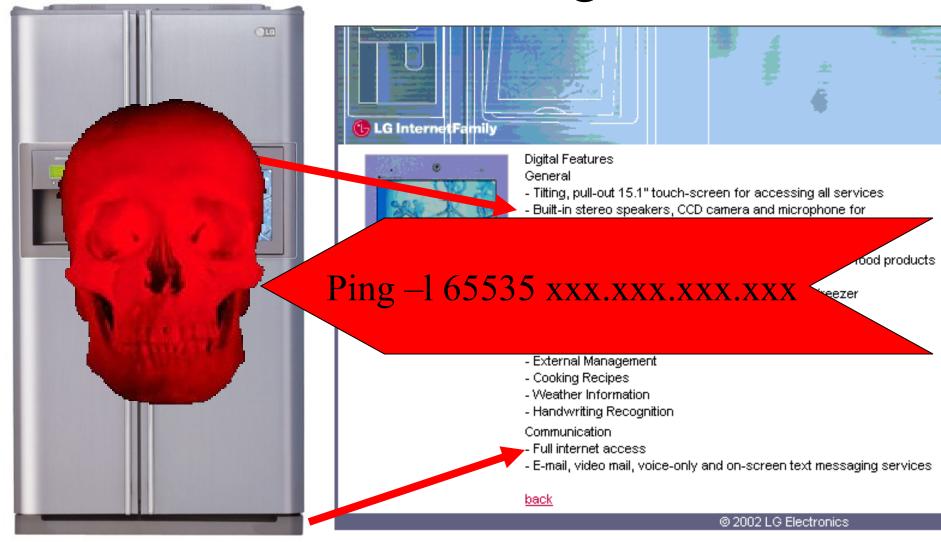
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It runs a modified version of Windows 98

# The Internet refrigerator



The fridge's built-in PC is a low-spec affair based on a 300MHz National Semiconductor Geode processor, 128MB of RAM and a 17GB hard disk.

It runs a modified version of Windows 98

# The Internet oven

HONEY, OUR THANKSGIVING TURKEY HAS BEEN BURNED BY A PAKISTANI CYBERFIGHTER IN RETALIATION OF THE KASHMIR TERRITORY OCCUPATION ...

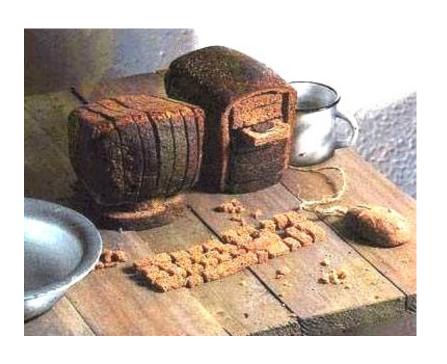




# Are we now scared about the implementation of these new technologies?

What system will be invented to let us feel secure and keep our privacy safe?

Is there anyone who can help me to get rid of these techno-nightmares?





# Call 1-800-AMISH !!!

sys64738 Zone-H.org admin@zone-h.org