

“Conferenza_GARR_05”

Pisa, 10-13 maggio 2005



“Panoramica della conferenza”

Mauro Campanella – GARR

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La rete Da e Per Tutto

<i>Auditorium</i>	<i>Room 27</i>	<i>Room 29</i>
	Infrastrutture	
Infrastrutture fisiche	Infrastrutture ed applicazioni di Griglia	Applicazioni scientifiche network demanding
IPv6		
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Communities		
Privacy, security e diritti		Collegare le scuole
Stage musicale		
Conclusioni		

Global Communications Submarine Cable Map 2004

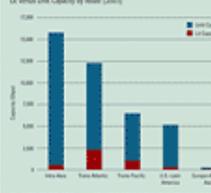
Produced by
TeleGeography Research



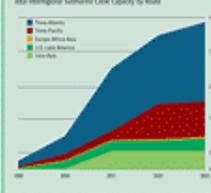
A Research Division of PricewaterhouseCoopers

The independent market leader providing fully integrated research on the global media and communications markets

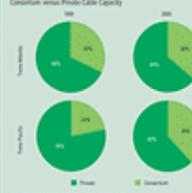
Capacity



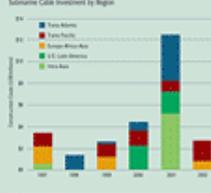
Best Interregional Submarine Cable Capacity by Route



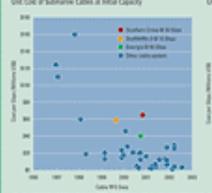
Continental versus Private Cable Capacity



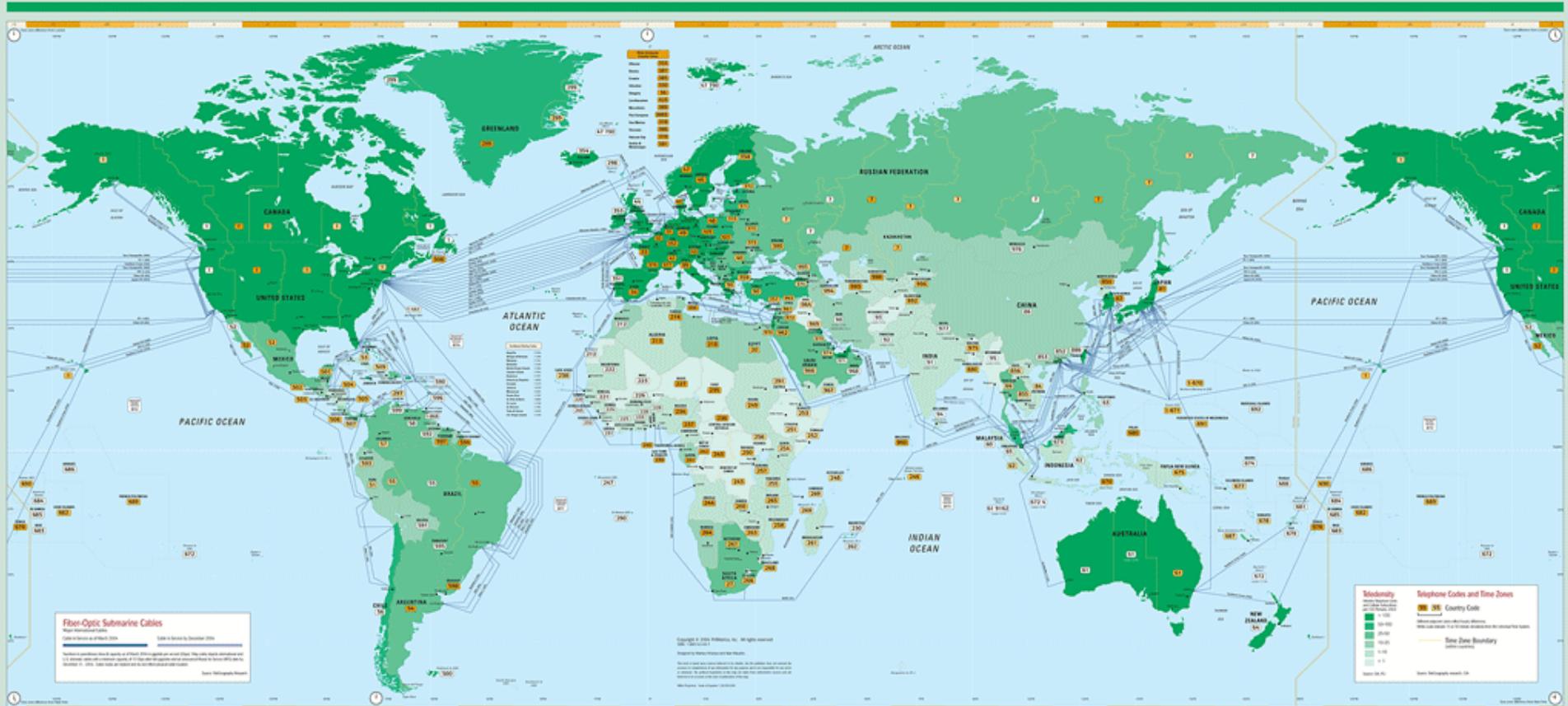
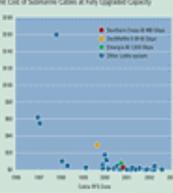
Submarine Cable Investment by Region



Unit Cost of Submarine Cables at Initial Capacity



Unit Cost of Submarine Cables at Fully Loaded Capacity



Fiber-Optic Submarine Cables
 Cable to Service as of 10/31/2004
 Cable to be Service by December 2004
 Cable to be Service by 2005
 Cable to be Service by 2006
 Cable to be Service by 2007
 Cable to be Service by 2008
 Cable to be Service by 2009
 Cable to be Service by 2010
 Cable to be Service by 2011
 Cable to be Service by 2012
 Cable to be Service by 2013
 Cable to be Service by 2014
 Cable to be Service by 2015
 Cable to be Service by 2016
 Cable to be Service by 2017
 Cable to be Service by 2018
 Cable to be Service by 2019
 Cable to be Service by 2020

Stability

Telephone Codes and Time Zones

Country Code

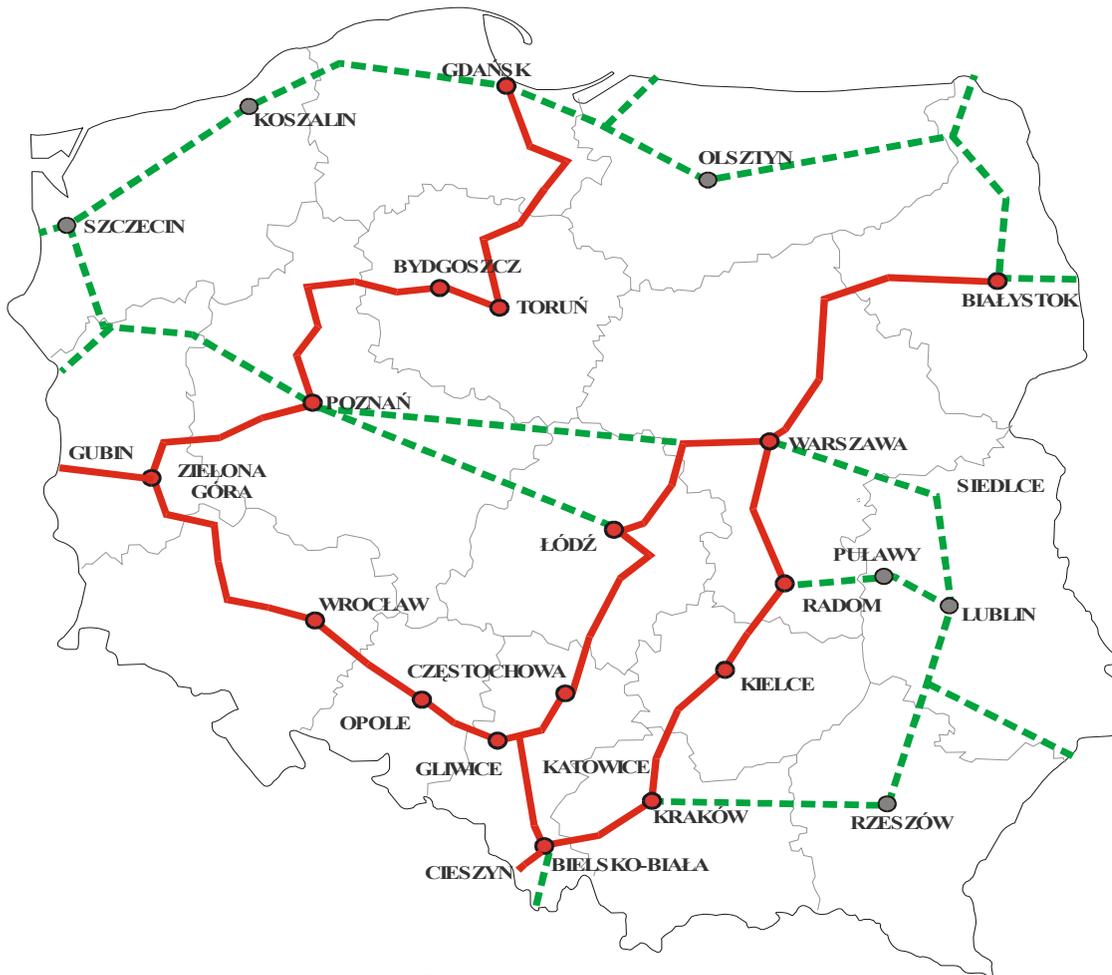
Time Zone Boundary



Ogni punto del mondo è distante 100 ms da un altro



Rete ottica Pionier in Polonia

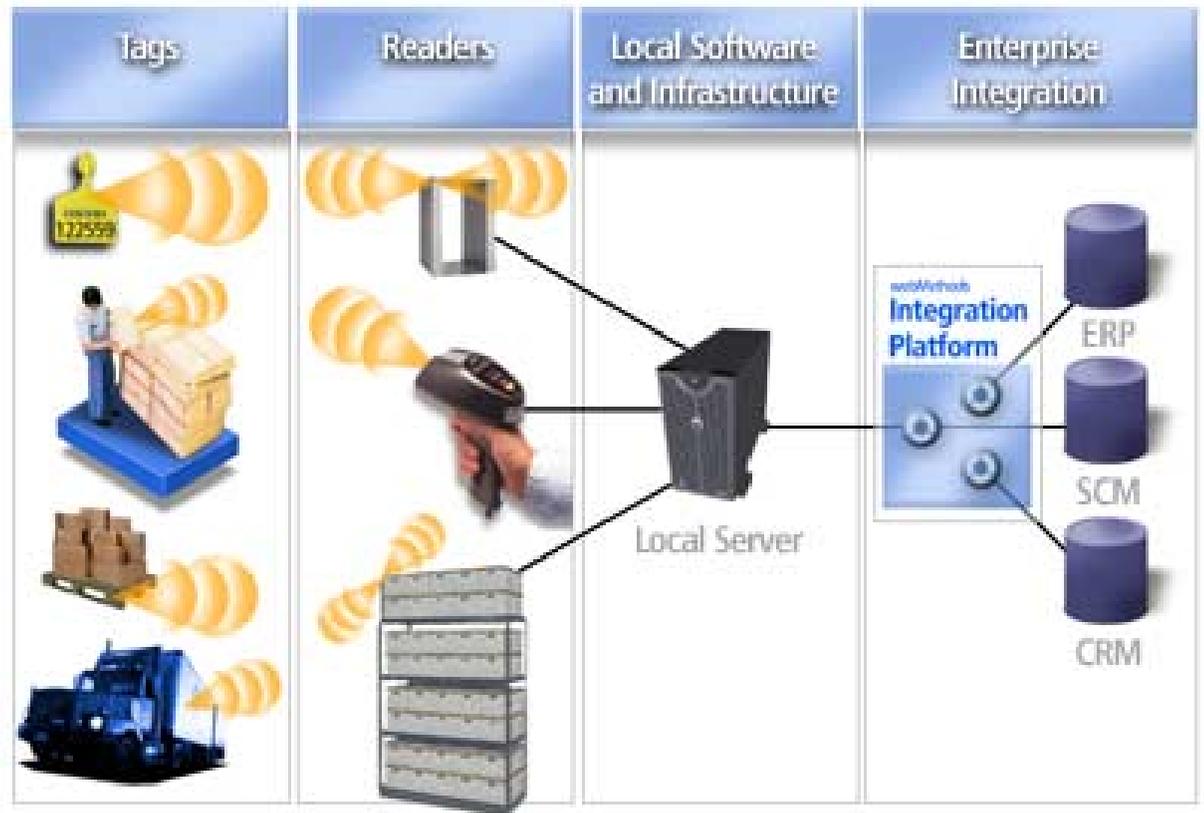
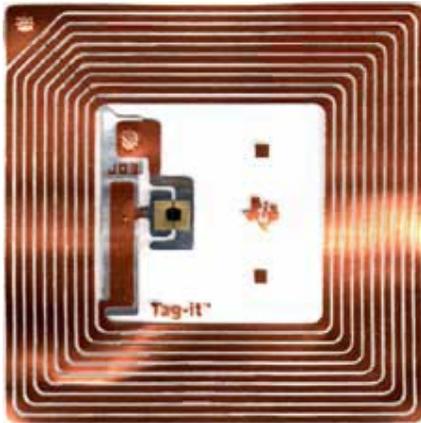


- Installed fiber
- PIONIER nodes
- - - Fibers planned in 2004
- PIONIER nodes planned in 2004



Fibre nude con Ethernet come data link

RadioFrequency ID



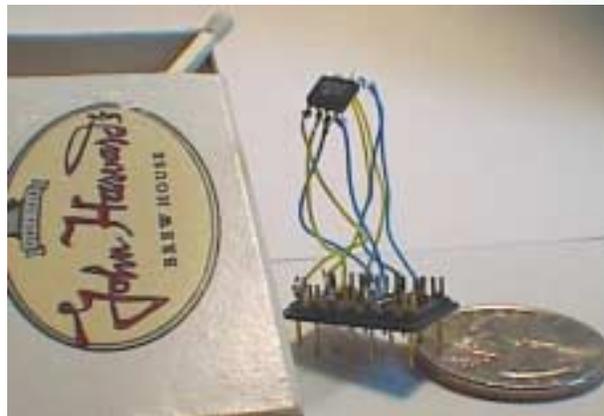
"Grandi" Internet appliances



Cornice per foto IP
<http://www.ceiva.com/>

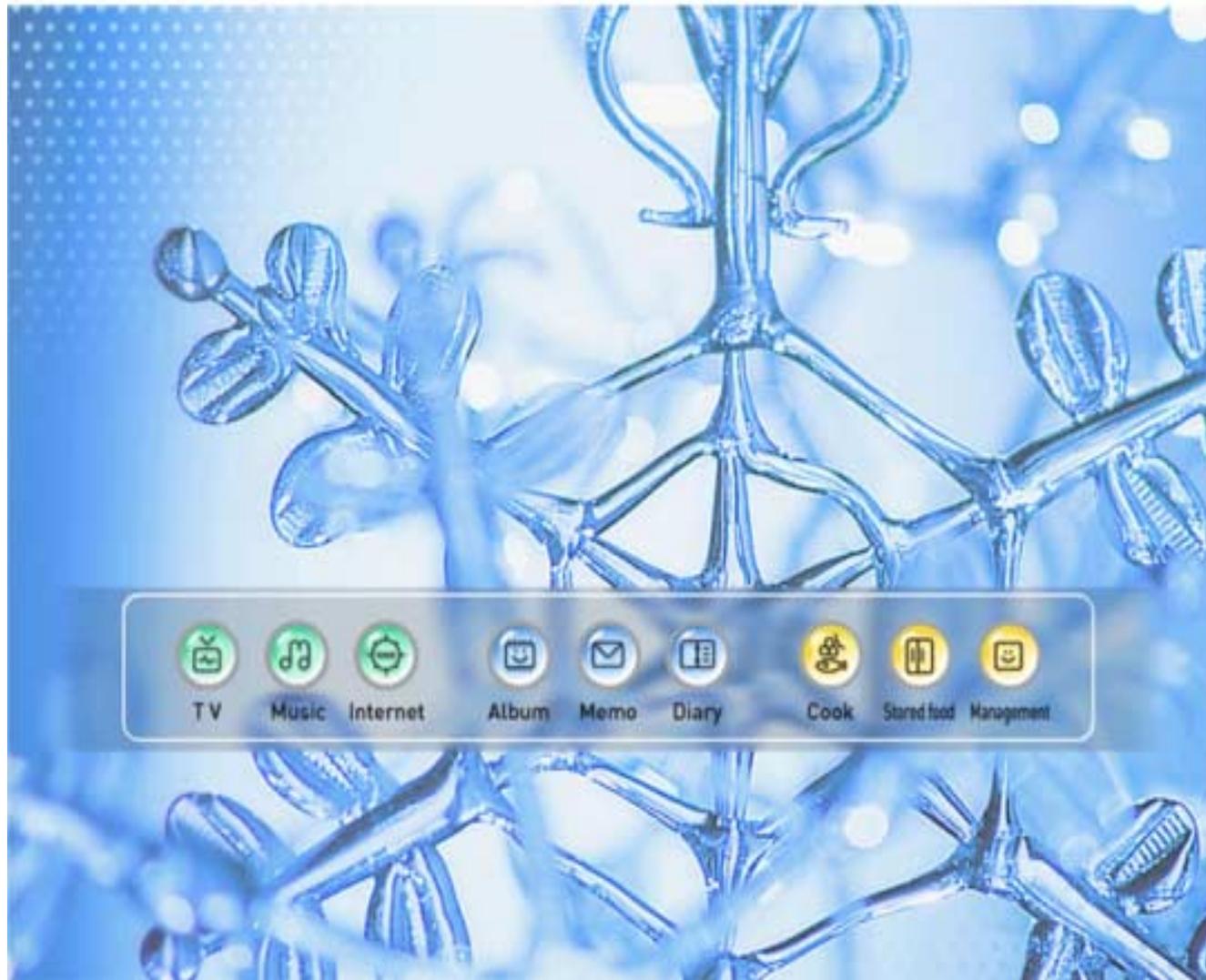


Tostapane abilitato al
Web + barometro



Il Più piccolo server
WWW del mondo
<http://www-ccs.cs.umass.edu/~shri/iPic.html>

GRANDI Internet appliances

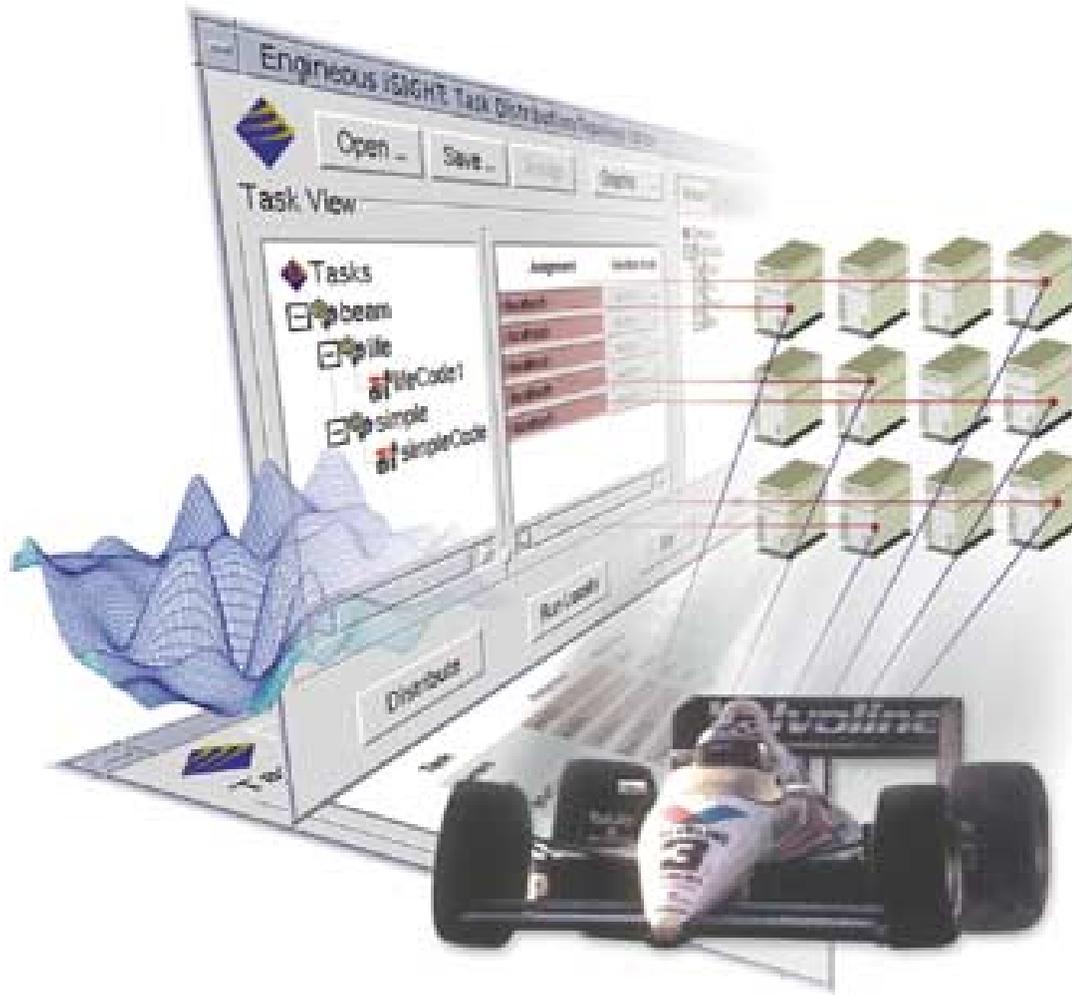


Frigorifero Internet <http://www.lginternetfamily.co.uk/fridge.asp>

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Grids



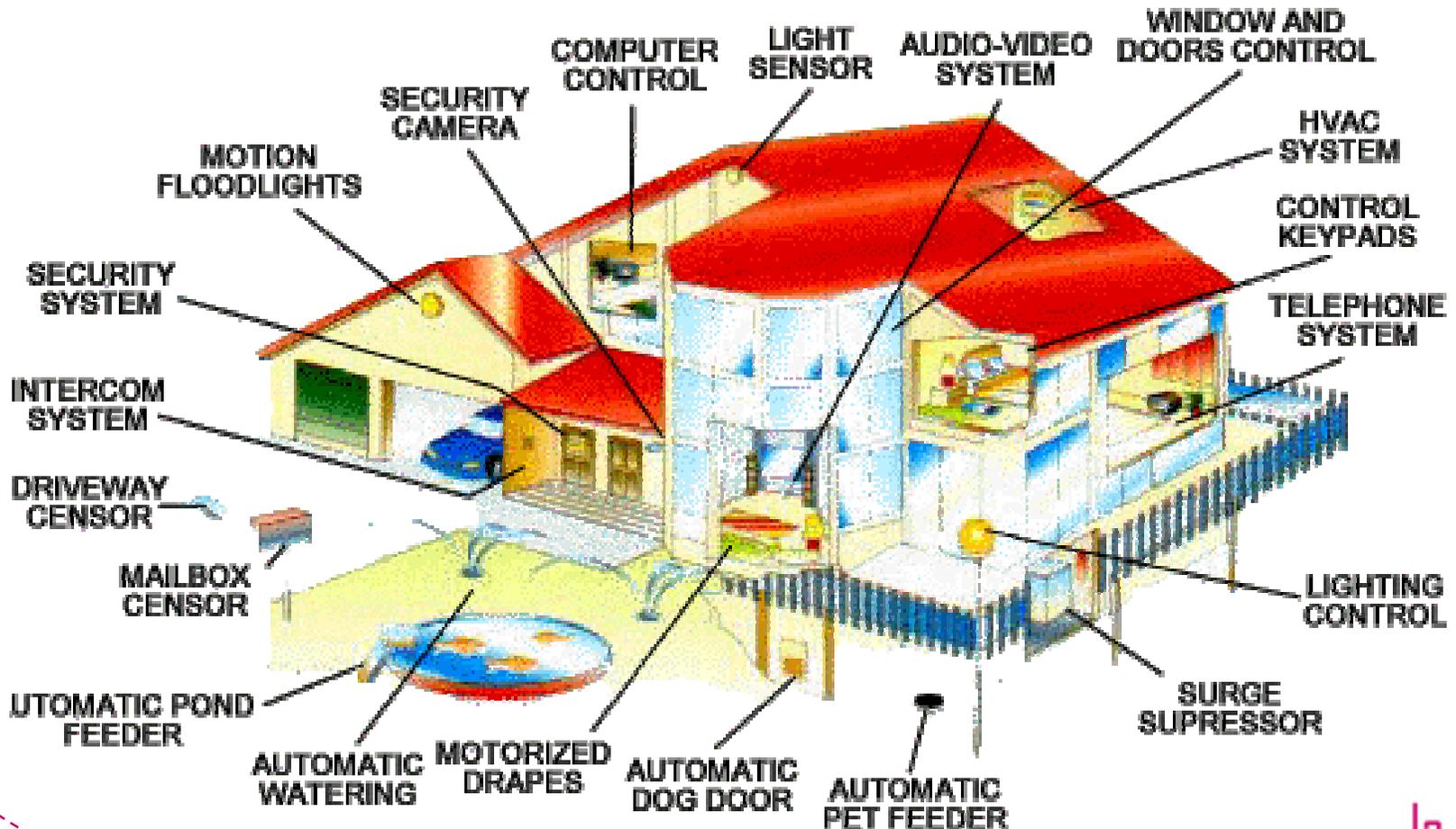
Risorse
che
collaborano

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IPv6

- conserva i principi base di Internet (end to end)
- abilita nuovi scenari e modelli di comunicazione





Far East

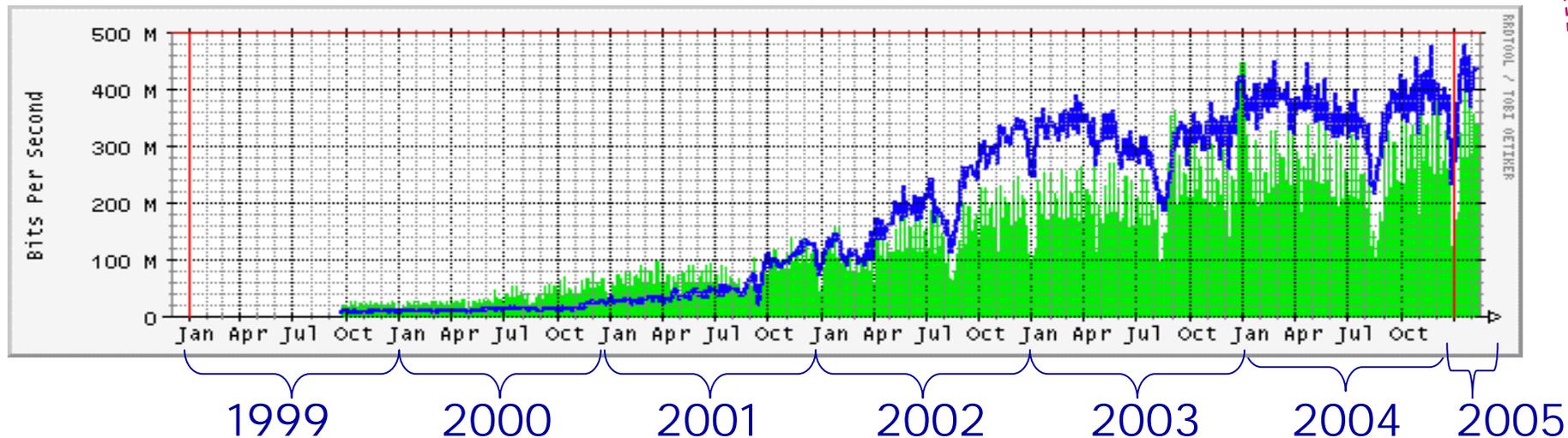


Shanghai

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Il traffico GARR verso General Internet (non di ricerca)

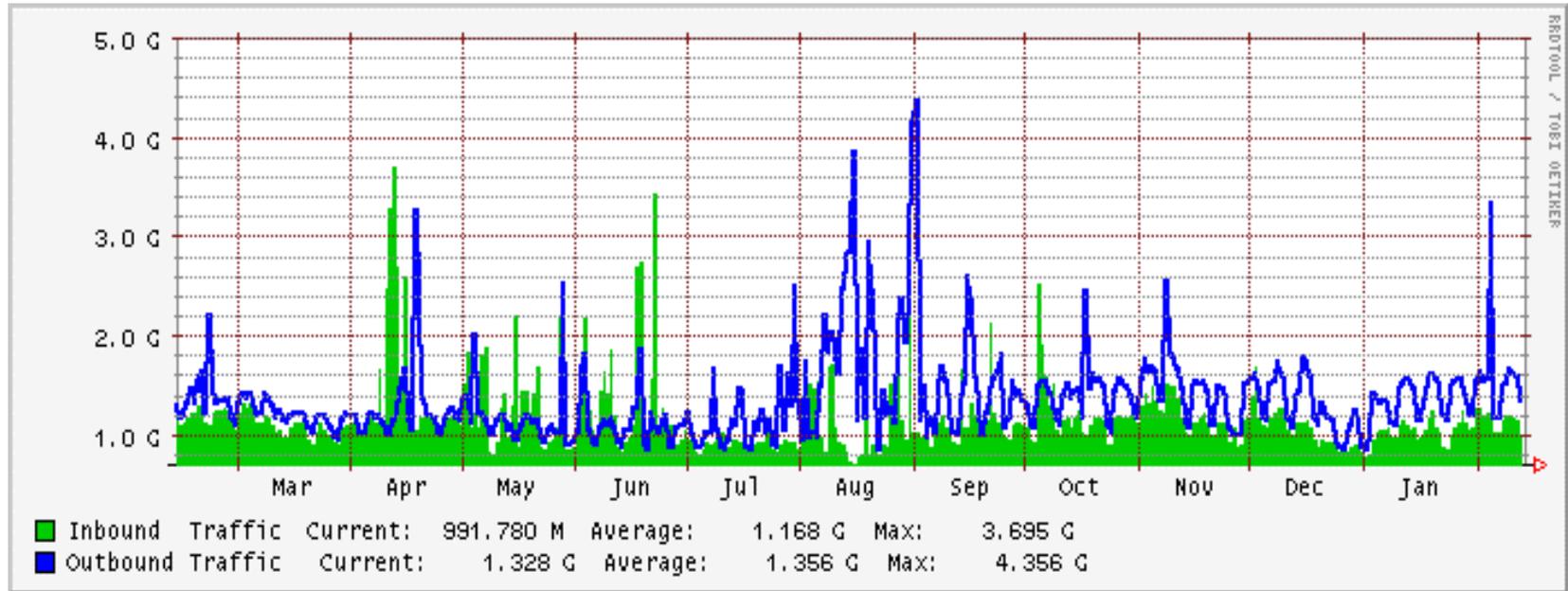


Più di un fattore 2 di crescita ogni anno.

Il 2003 è quasi piatto a causa di limitazioni nella velocità degli accessi.

Da allora stanno aumentando velocemente.

Traffico costante è ovunque



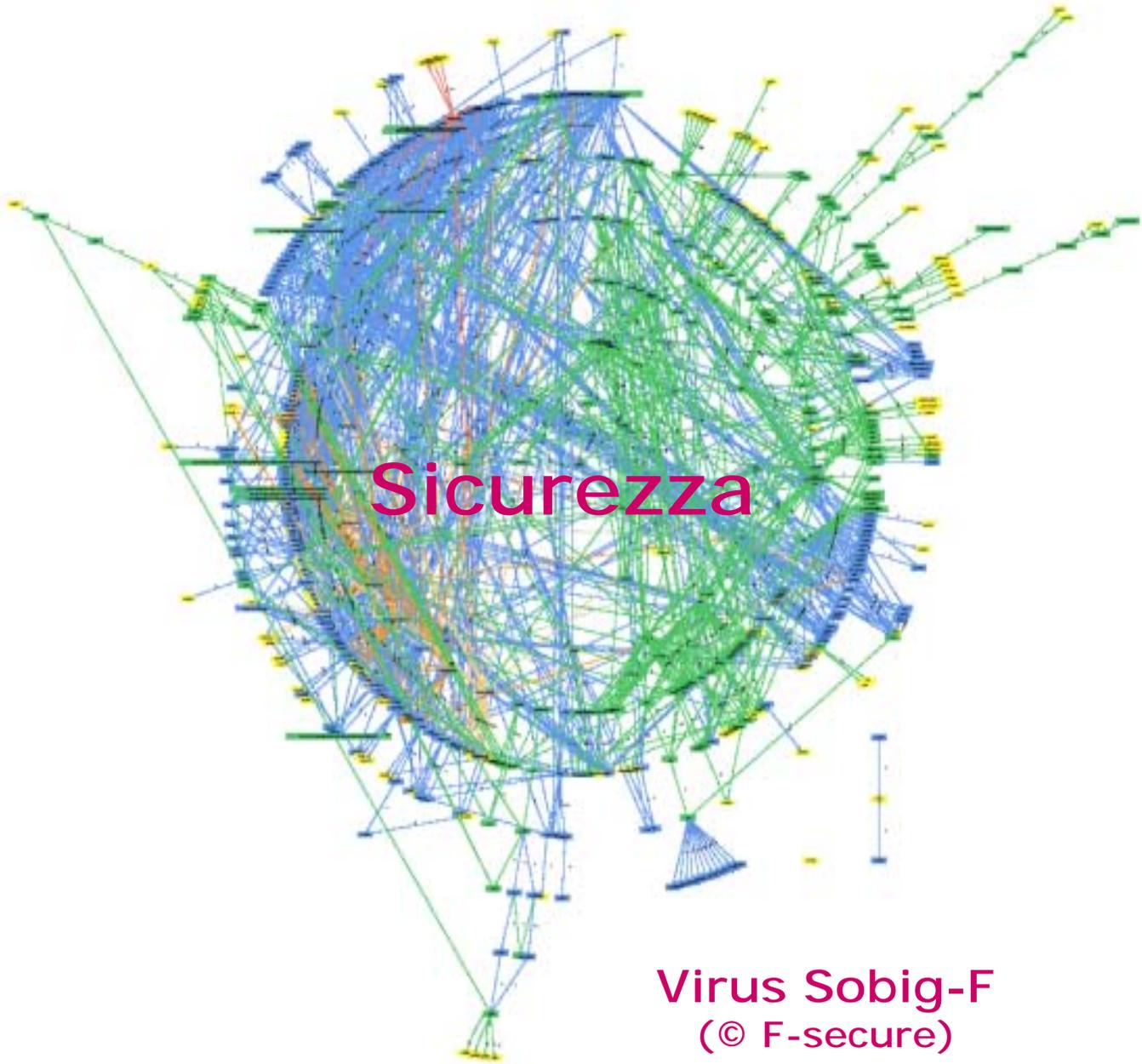
Linea Denver - Kansas City nel Febbraio 2005 su Abilene

Anche in USA:

- piedistallo costante di 1 Gb/s nelle linee di dorsale
- la regola 80-20% non è più valida ed il traffico tende ad essere uniformemente distribuito

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CAIDA ©

Sicurezza

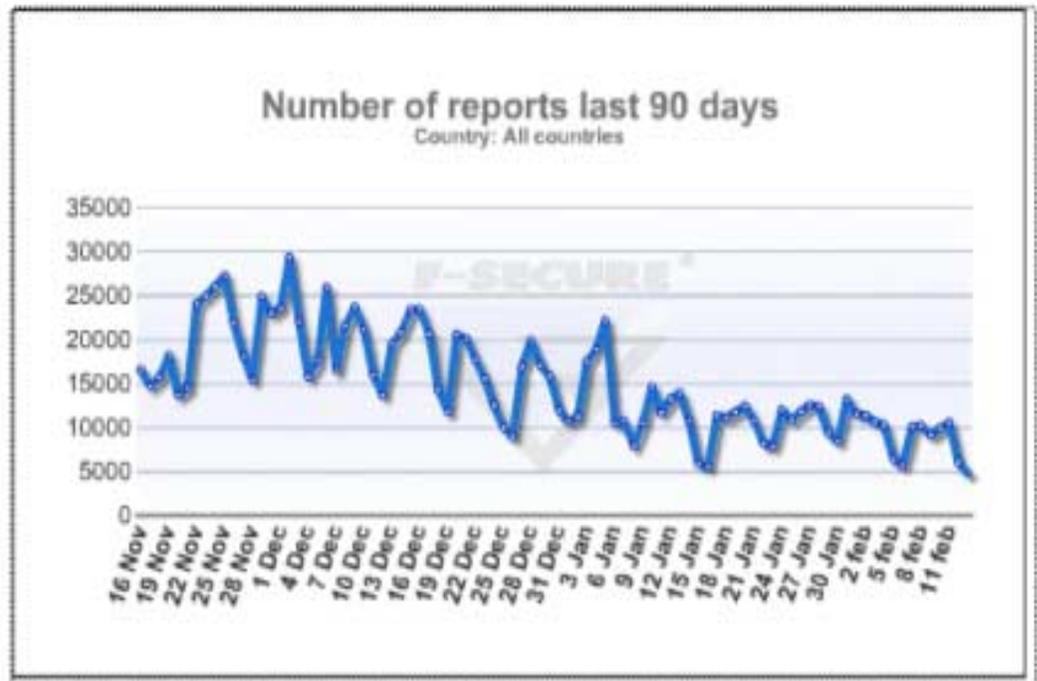
Virus Sobig-F
(© F-secure)

Viruses the last 90 days

Place	Virus name	Radar Level	Percent	More info
1	W32/Netsky.P@mm	2	22,2 %	here
2	W32/Sober.I@mm	2	16,8 %	here
3	W32/Lovgate.W@mm	-	12,3 %	here
4	W32/Netsky.D@mm	1	5,3 %	here
5	Trojan-spy.Html.Bakfraud.Ca	-	3,2 %	here
6	W32/Zafi.D@mm	-	2,7 %	here
7	W32/Bagle.Z@mm	2	2,5 %	here
8	W32/Bagle.At@mm	2	2,4 %	here
9	W32/Netsky.B@mm	2	2 %	here
10	W32/Zafi.B@mm	2	1,7 %	here

Updated: 2/13/2005, 7:49:26 PM

Virus Statistiche



Protetto da copyright

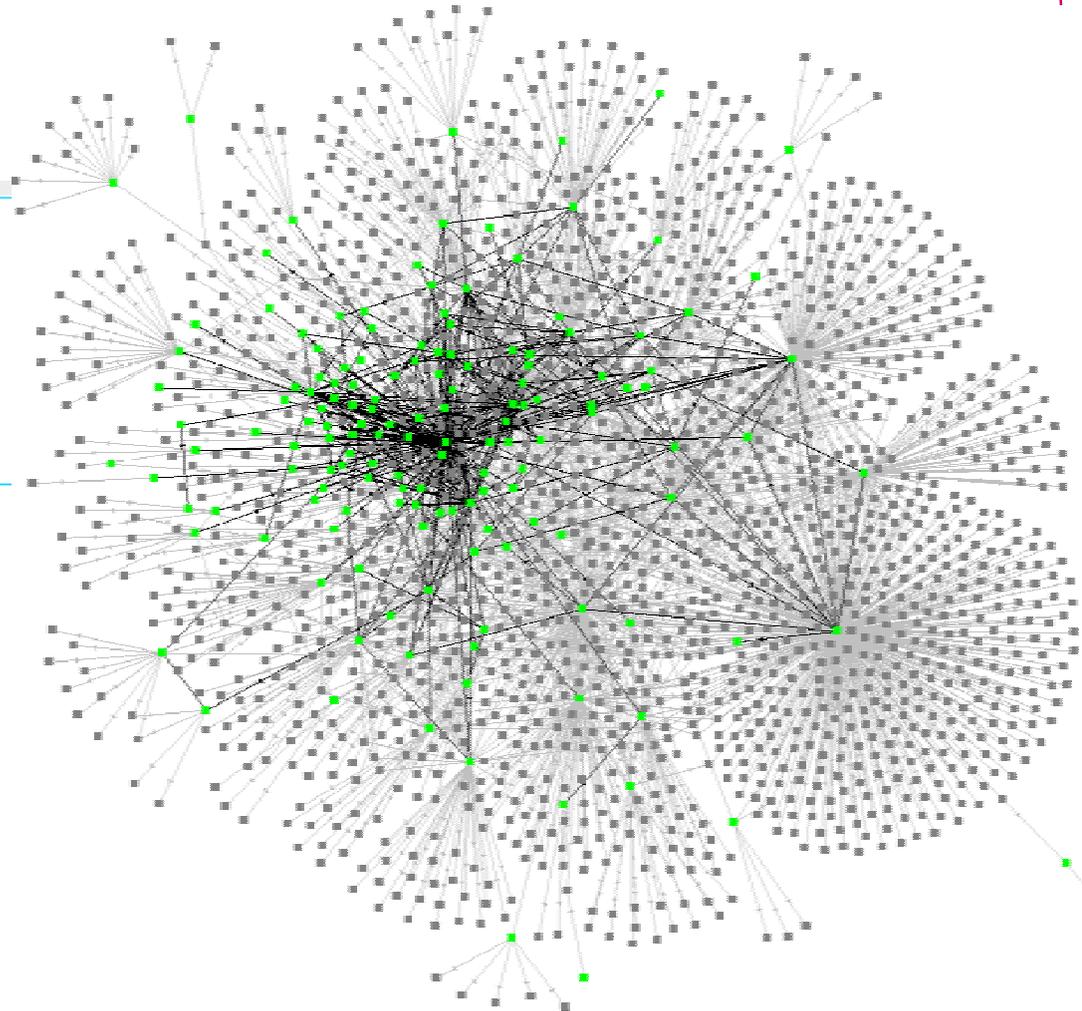
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Communities: Radio Blogs



Gruppi di utenti che
creano la propria radio
su internet





My Torrents 79.2% : XMAC805.sitx

General Details Pieces Files



Transfer

Time Elapsed : 25m 40s	Remaining: 08m 58s 76.5 MB	Share Ratio :
Downloaded : 292.2 MB	Download Speed: 164.7 kB/s	Hash Fails : 0 (~ 0 B)
Uploaded : 0 B	Upload Speed : 0 B/s	Max Uploads : <input type="text" value="5"/> Max Up kB/s: <input type="text" value="0"/>
Seeds : 5 connected (10 in swarm)	Peers : 0 connected (11 in swarm)	Total Speed : 0 B/s Max Down kB/s: <input type="text" value="0"/>

Info

File Name :	XMAC805.sitx [MacRoman]	Total Size :	368.2 MB
Save In :	/Users/cmp/Desktop/XMAC805.sitx	Hash :	AC25B18D 205208F2 8EBBB1B1 958D561B 7056F529
# of Pieces :	1474	Size :	256.0 kB
Tracker URL :	http://bt.markal.net:6969/announce	Created On :	
Tracker Status:	OK		
Update in :	00:02:56	<input type="button" value="Update Tracker"/>	
Comment :			

Bit Torrent : Peer to Peer

Azureus 2.2.0.2 / Latest 2.2.0.2

[Jan 25, 17:15] IPs: 0 - 0/0/0

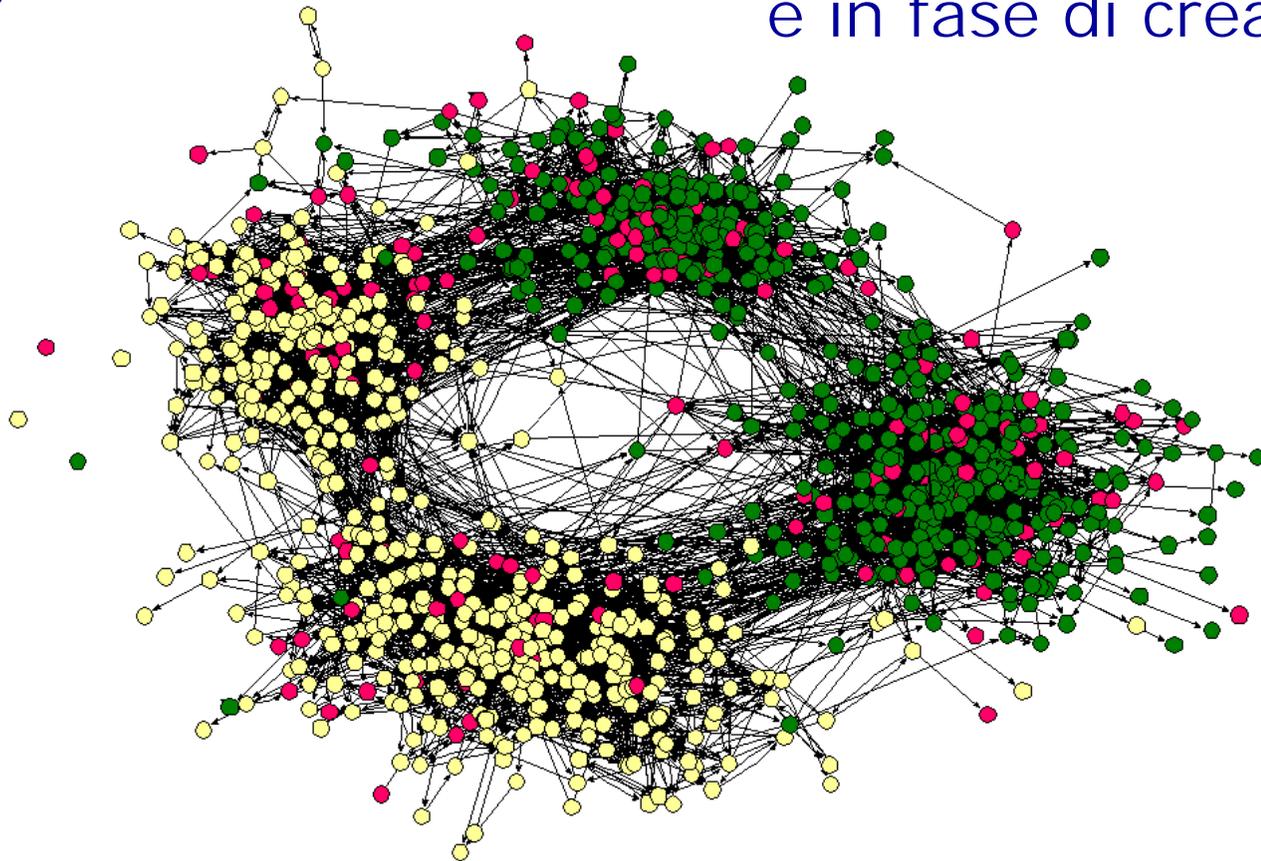
D: 164.7 kB/s

U: [85K] 0 B/s

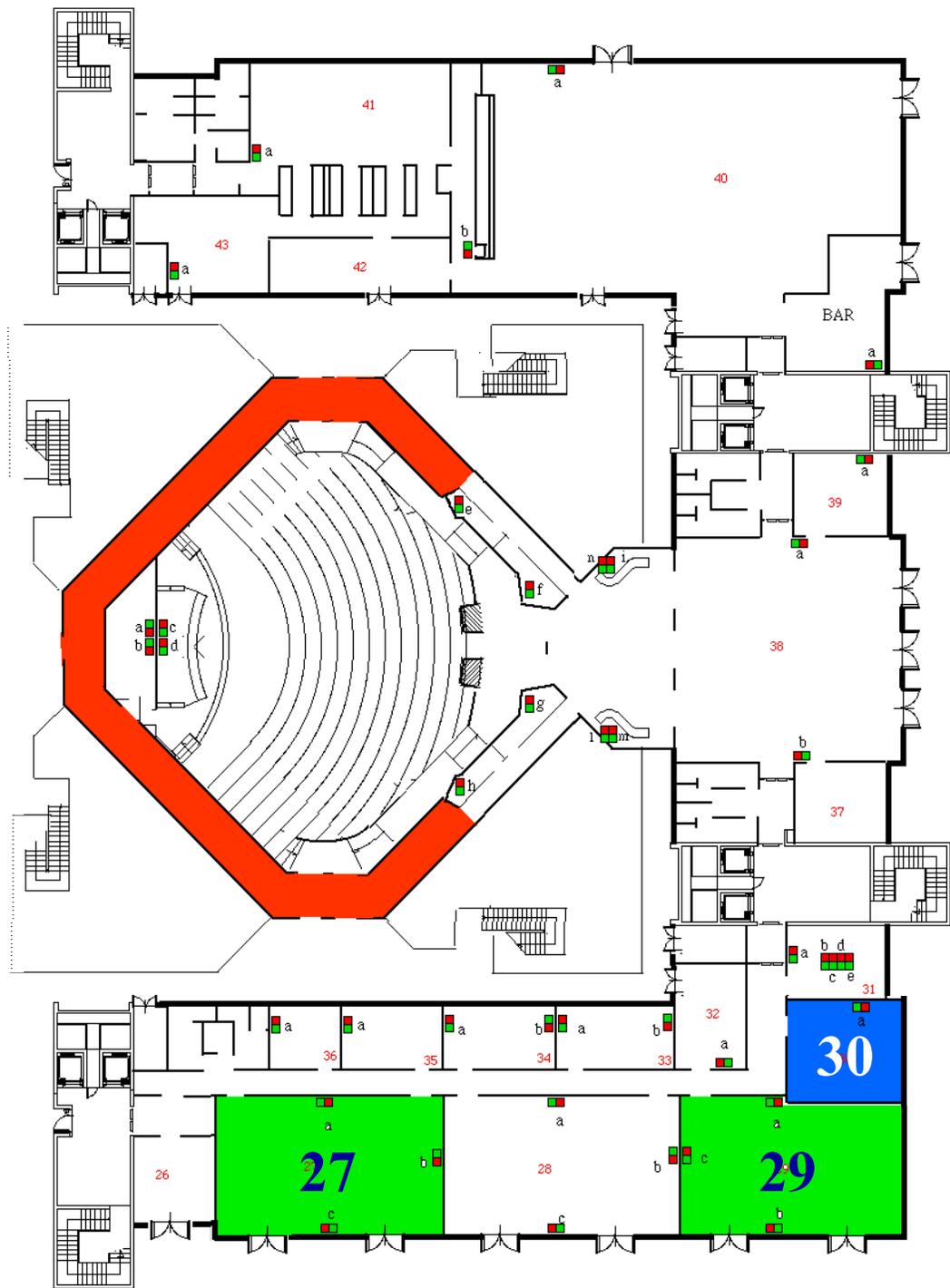
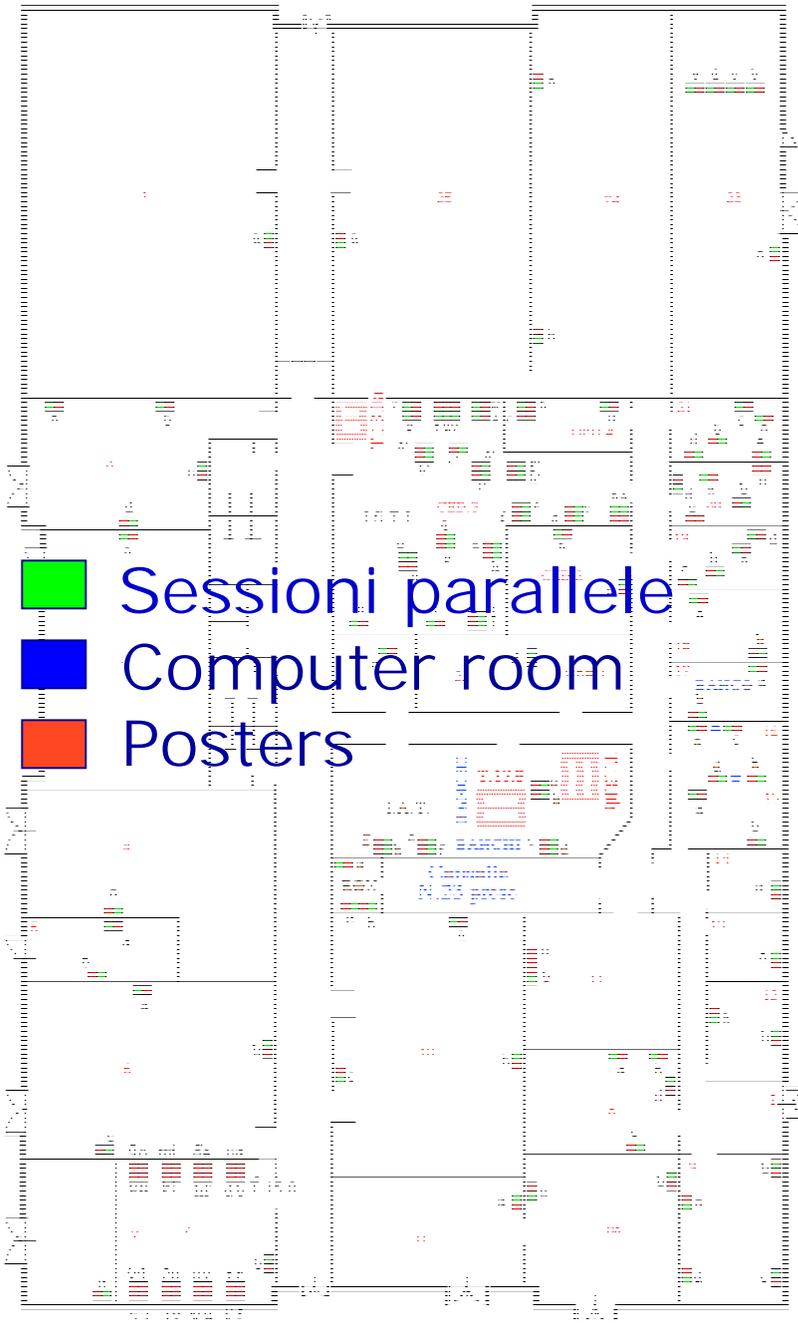
Scuole

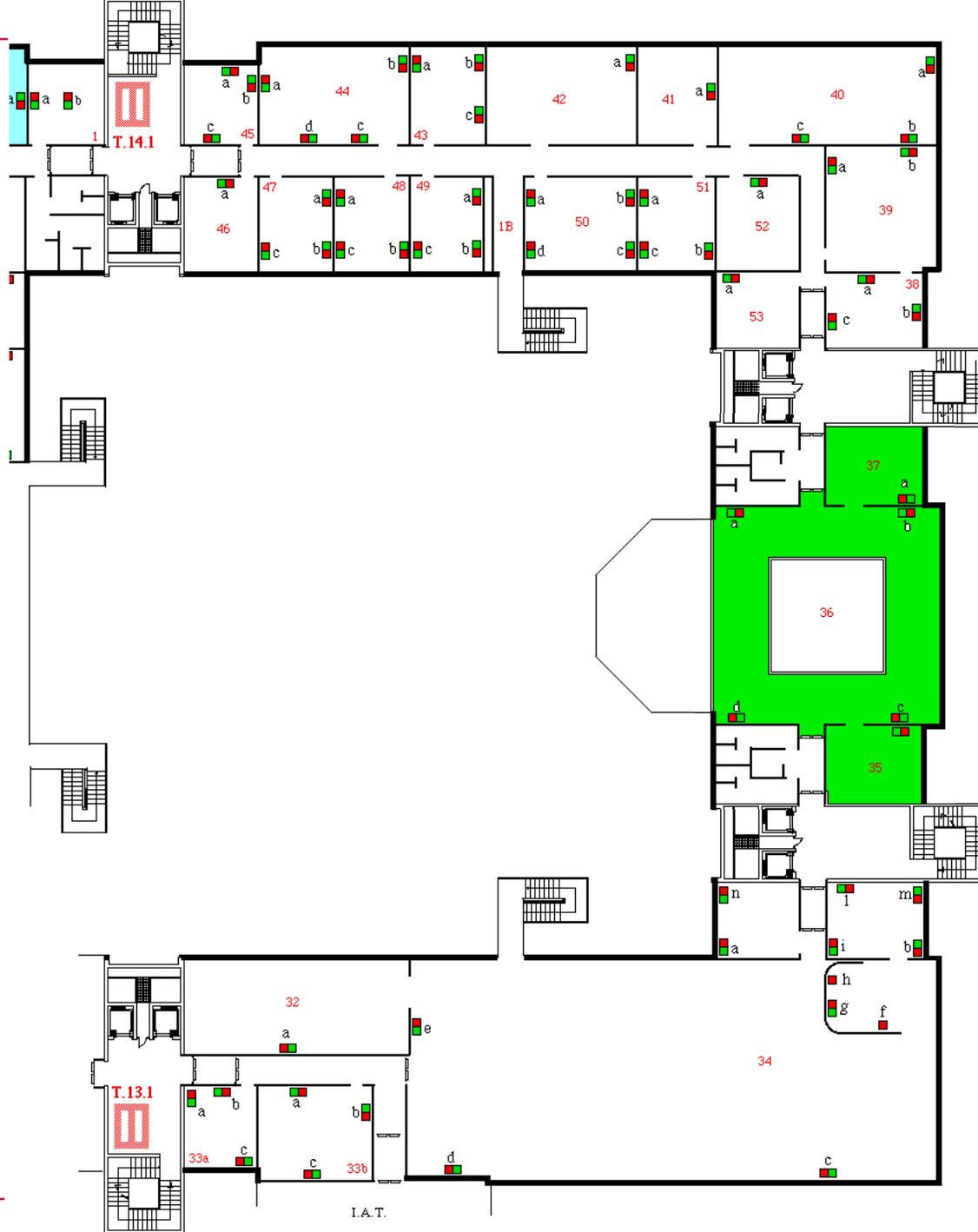
Relazioni fra scuole in rete
nel Michigan

Comunità virtuali su
infrastruttura fisica che
è in fase di creazione

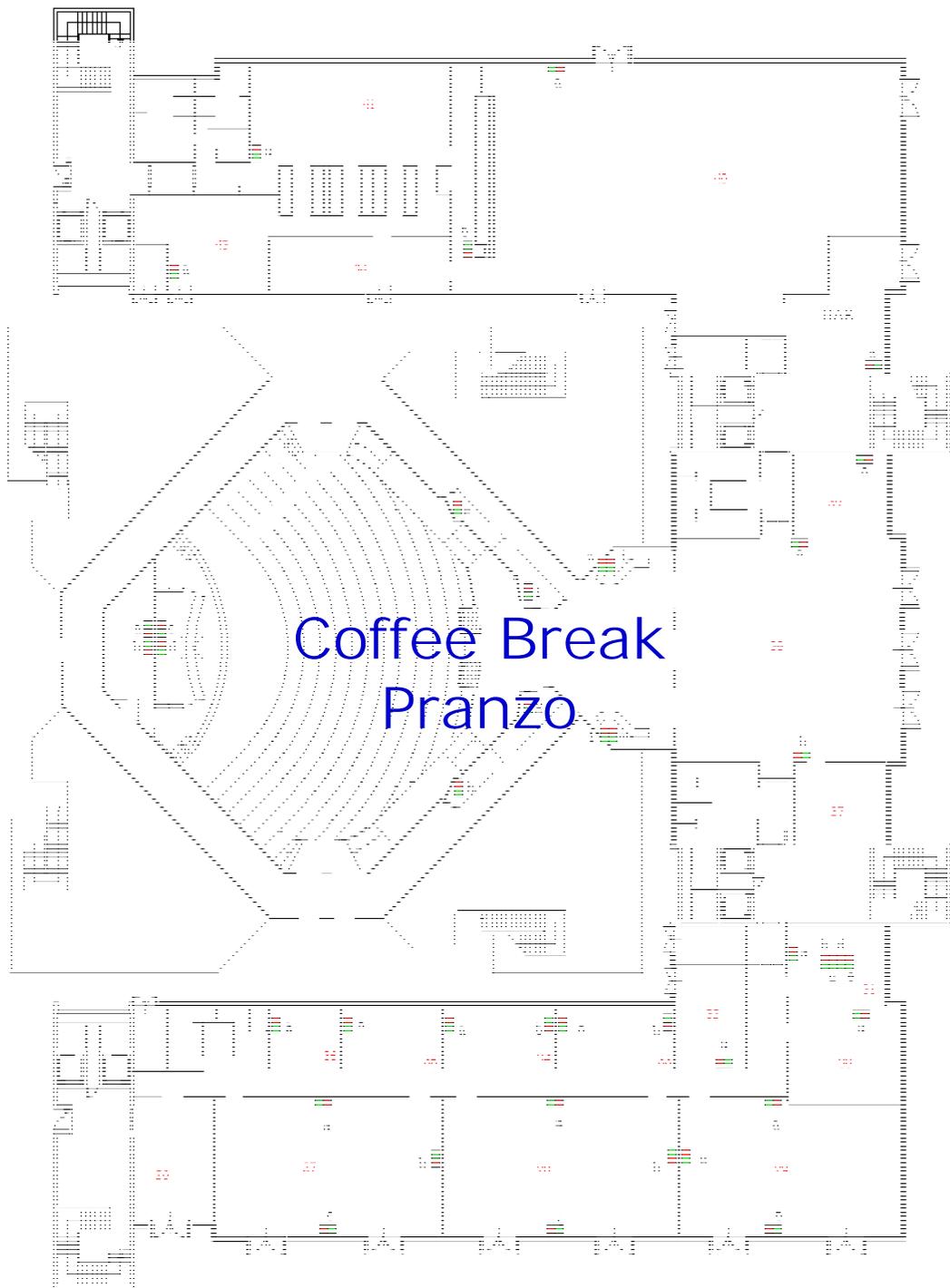
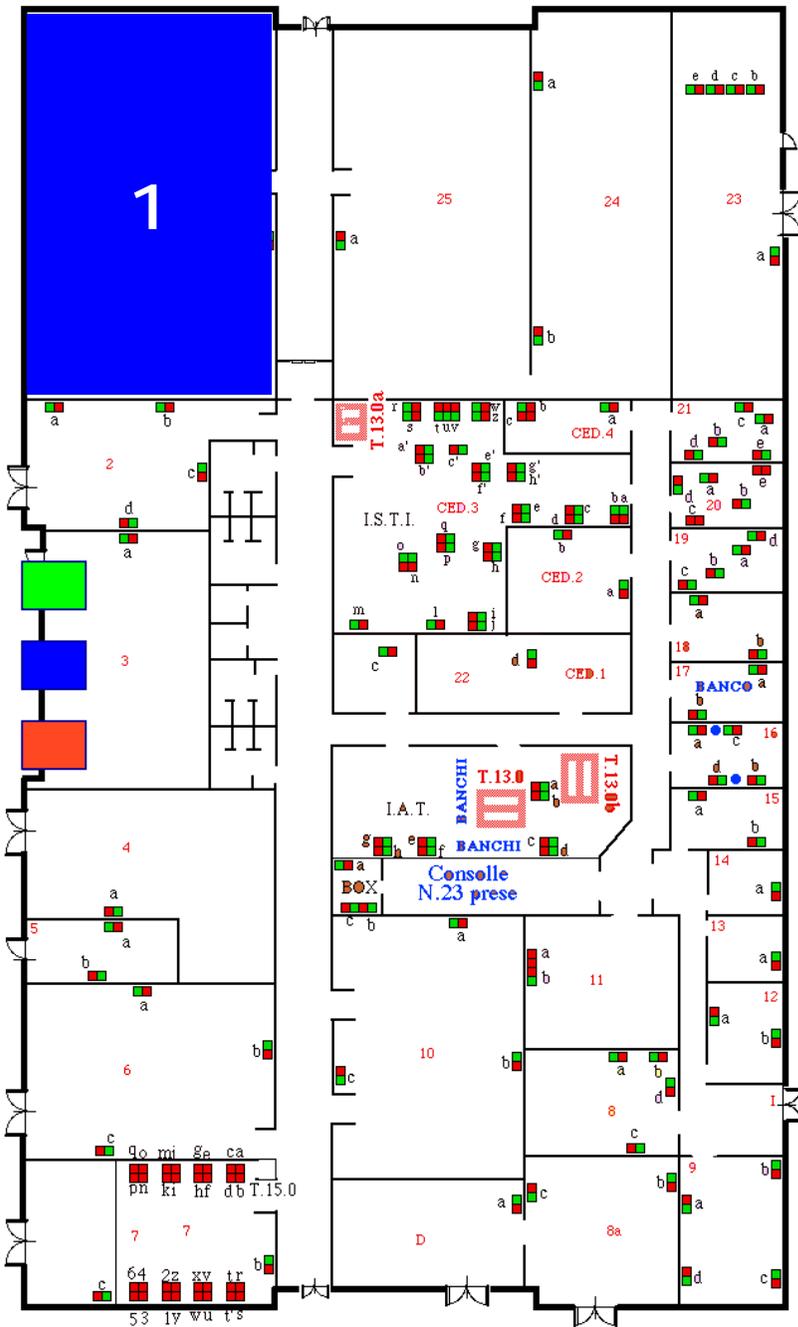


Logistica





Sala
DEMO
IPv6

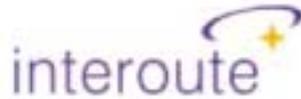


Non Solo Sessioni

- ▶ Cocktail di benvenuto 18:00 oggi
- ▶ 6Net cocktail e
Cena della conferenza 20:00 mercoledì
- ▶ Cocktail e stage musicale
live con Miami 19:15 giovedì

Grazie !

sponsor of the event



http://www.garr.it/conf_05

Ma Soprattutto
Grazie a

A TUTTI del



CNR

a Voi partecipanti!