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Net neutrality

a benchmark

Overview

description

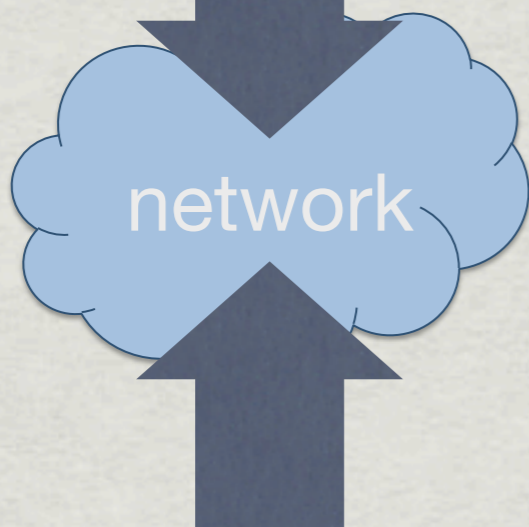
mobile

fixed

what else?

What is net neutrality?

content and service provider



end-user

- * offer any (legal) content
- * offer any service
- * reach all connected users

- * non discriminatory
- * agnostic
- * treat all content alike

- * access any (legal) content
- * use any service
- * attach any device

description

mobile

fixed

what else?

Blocking of VoIP: debate on principle?

		VoIP	Premium VoIP	IM	Regulatory approach
FR	SFR	✗	Planned	✓	None
DE	T-Mobile	✗	€10/month	✓	BNetzA: hands-off
	Vodafone	✗	✗	✗	
IT	TIM	✓	-	✓	Law proposed to prohibit blocking of applications.
	Vodafone	✗	€10/month	✓	
	Tre	✓	200min/day included	✓	
	Wind	✓	-	✓	
NL	KPN	✓	-	✓	None
	Vodafone	✗	€0.05/min	✓	
ES	Movistar	✗	✗	✓	CMT: hands-off
	Vodafone	✗	✗	✓	
	Jazztel	✓	-	✓	
SE	Telenor	✓	-	✓	PTS: transparency
UK	Vodafone	✓	-	✓	Ofcom: hands-off

description

mobile

fixed

what else?

Traffic management: transparency

		Public policy	Traffic management	Regulation
FR	FT	✗	-	-
IT	TI	✓	-	AGCM (ex post): transparency Fines: TI (€285k), Tele2 (€90k, €50k)
	Tele2	✓	P2P during evening	
	Wind	✓	Mention of shaping	
	Fastweb	✓	-	
NL	KPN	✗	Study estimates shaping for 1 in 3 customers	-
	UPC	✗	P2P traffic	OPTA warning: transparency
ES	Telefónica	✗	-	Ministerial order: transparency
	Jazztel	✓	Guarantees for corporate	- congestion ratio
	ONO	✗	-	- line speed (percentile 5, 50 and 95)
SE	Teliasonera	✗	-	PTS: transparency
UK	BT	✓	Streaming in prime time	Voluntary code of practice: transparency
	PlusNet	✓	Per time and protocol	

description

mobile

fixed

what else?

Example: UK



- * ANO using wholesale broadband access
- * Geographically differentiated retail prices f(competition)
- * “*Best value home broadband provider*” in 2009
- * From their website:

“The following sites are not blocked, but will be slowed down during busy times on our network. This is because they are known to drive very high usage on non-interactive traffic.”

Download sites

- Adult bouncer
- Bangbros Online
- Kingdom.com
- Rapidshare
- ImageShack
- Megaupload
- TerraSpace (Rapidshare again)
- badonga.com
- guba.com
- metainterfaces.com

- narrowstep.com
- sendspace.com
- wildrose.net

Download servers

- German Mirror site
- Ireland Mirror site
- Kent Mirror site

Content Distribution Networks (CDN)

- Akamai
- Limelight Networks
- Level 3

description

mobile

fixed

what else?

Example: plusnet UK ('Value' option)

Kbps	P2P	FTP	VPN	Gaming	YouTube	Download	Streaming	Other
12am-12pm	256	256	512	2Mbps	-	-	-	-
12pm-2pm	164	256	512	2Mbps	-	1Mbps	-	-
2pm-4pm	128	256	512	2Mbps	-	1Mbps	-	-
4pm-6pm	100	256	512	2Mbps	-	512	-	-
6pm-7pm	50	128	512	2Mbps	2.5Mbps	256	-	192
7pm-8pm	50	128	512	2Mbps	2.5Mbps	256	-	192
8pm-10pm	50	128	512	2Mbps	2.5Mbps	256	-	192
10pm-11pm	100	256	512	2Mbps	-	256	-	-
11pm-12am	128	256	512	2Mbps	-	512	-	-

description

mobile

fixed

what else?

Other aspects of net neutrality

Data limits?

Caches?

search engines?

IPTV?

Walled garden?

description

mobile

fixed

what else?

There's one more thing...[©]

New Cullen International service

Q2 2010

Net neutrality and consumer protection

7 countries (Big Five + NL + SE)

Enquiry service

Cross-Country Analysis every 4 months

VoIP in mobile networks

Consumer empowerment

Traffic shaping

Tariff transparency

Data limits

Co- and selfregulation

Service quality

Retail regulation

Thank you!