

IPv6 In China

CNNIC — Wendy Zhao

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Network Status

 Severe asymmetry of regional development and the shortage of address resources





IPv6 Address

Main internet operators start to apply big blocks of IPv6 in 2011, the addresses of three commercial operators has reached /20 each,



State Driving





Industry Support

Standard: combining with domestic construction need to develop a range of equipment technical standards and testing standards



Equipment: three aspects of networks, fixed and mobile terminals





Service Platform

Service Platform including web, search, P2P, basic service and VAS of operators

Туре	Service	Support status	Google
web, search	browsing, email	qq, baidu, cstnet.cn	
P2P	IM, Chat, Download, Video	qq, cstnet	msn
Basic service	Phone, data transmission	unsupported	
VAS	multimedia, Music download	unsupported	Baidente

Few contents and applications are the bottle neck of deployment



NS Lookup



CNGI



Commercial Network



CR: Mainstream devices support IPv6 routing protocols, most need SW update, small part need hardware replacement DNS: Mainstream DNS SW support AAAA and A6 record adding and query

BRAS/SR: Mainstream devices support IPv6 config and access, some part need SW update PDSN: Mainstream devices almost support mobile, need SW update

Range of access network equipment, support condition is complex

HG: Almost all support Ipv6, replacement cost more cost and workload End: Client side of the gateway before 2010 does not support dual stack, mobile terminal chip does not support

Commercial Network



Future Challenge

Return on investment—Transformation of inert

- IPv6 not bring significant gains (different with 2G to 3G
- Today's IPv4 devices and applications more reliable and cheap

Driving force - Who leveraging IPv6

- Users, applications are in IPv4 network
- Users concerns about the applications; ICP concerns the user and market
- Regulators concerns about security

Technical issue

- IPv6 and IPv4 is not compatible
- No ideal smooth evolution program



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