

Current Regulation

- Broad social and economic outcomes
 - International Competitiveness of industry
 - Long term interests of end users
 - National interest objectives

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Current Regulation continued

- Regulatory focus is on Voice Service
- Minimal regulation of other Services
- Overarching requirements for all services
 Protection of confidentiality of consumer
 communications
 - Interception and assistance to Law Enforcement Agencies

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Is existing regulatory framework applicable to NGN?

- Yes because the Australian regulatory framework is 'technology neutral'
- The ACA recognises new technologies may raise new pressures on the regulatory framework
- The introduction of VOIP, voice over broadband and corporate IP solutions has prompted the ACA to review aspects of the regulatory framework via national public consultation

Major Access Requirements (1)

- Service level
 - Local Call Service
 - Interfaces: Ordering and provisioning system
 - Billing feeds
 Operations system
- Call interconnection
 - Originating and terminating access services for voice (fixed & cellular) and ISDN bearer types
 - Interfaces:
 - CCS#7 interfaces ACIF specification
 Billing feeds
 Operational system

 - O&P system includes pre-selection arrangements for fixed customers

Australian Government Australian Communications Authority Major Access Requirements (2) Transmission and data services - Exclusion of inter-capital transmission Interfaces Various data and transmission inter-ca Ordering and provisioning systems Billing systems Operations systems ier and customer interfaces Local Loop Services Both copper pair and spectrum sharing options Interfaces Ordering and provisioning systems - ACIF spec for ULL Operations system ACIF code on signal Requery and power in the copper pairs Associated access to buildings

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Major Access Requirements (3)

- Facility Access
 Ducts, Building Space and Towers
 Provisioning arrangements include preparatory work processes
 Industry code on the provisioning and operational processes

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NGN Access Implications

- Current access arrangements
 - technology neutral
 - Underlying service persistence
- New NGN driven requirements
- New services or service features
 - Market significance
 - Market efficiency
 - Ease of entry
 - Coordination requirements - Market structure

Numbering (1)

- Australian Numbering Plan specifies number ranges according to service characteristics
- Reliance on technology neutral principles, consistency with other regulatory requirements and ITU Reco E.164
- National consultation with industry on whether to amend Plan for VOIP services

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Numbering (2)

- VOIP consultation will examine mobility of services, QOS, call charging, consumer awareness and protection, ease of market entry
- Some VOIP services are active in geographic number ranges
- ACA will consider whether other number ranges may be appropriate – currently no range specified for 'nomadic' services

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Number Portability (1)

- Applies to all network operators using numbers that are 'declared portable'
- Portable numbers include local, mobile, freephone and local rate porting within ranges
- Market forces determine practical impact of portability – some networks are more attractive than others. Bilateral agreements determine the extent that access seekers make use of portability requirements

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Number Portability (2)

- For example, in fixed line market Telstra provides 90% of exchange lines the market predominantly seeks portability from Telstra
- New entrants to fixed line market will remain dependent on portability for access to customers
- In mobile market portability maintains procompetitive incentive

Number Portability (3)

- For NGN services in existing portable number ranges market forces would require porting from successful networks
- If new number ranges are introduced for NGN, new assessments of need for portability required

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Quality of Service

- Minimum QOS performance required for end to end circuit switched services
- NGN are requested to use these as a guide
- New entrants attest that VOIP QOS is 'manageable', traditional operators disagree
- When NGN standards are further progressed Australian industry would likely develop end to end performance requirements

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USO

- All Australian network operators contribute to the funding of the USO
- Telstra provides the USO service, the Minister determines the cost, operators share the cost relative to their share of 'industry eligible revenue'
- USO service is defined in technology neutral language – 'a voice service with any to any connectivity' – Telstra has discretion to choose the underlying technology

