

NBN Industry Connection No. 3

Sydney – 23rd September 2009

Agenda



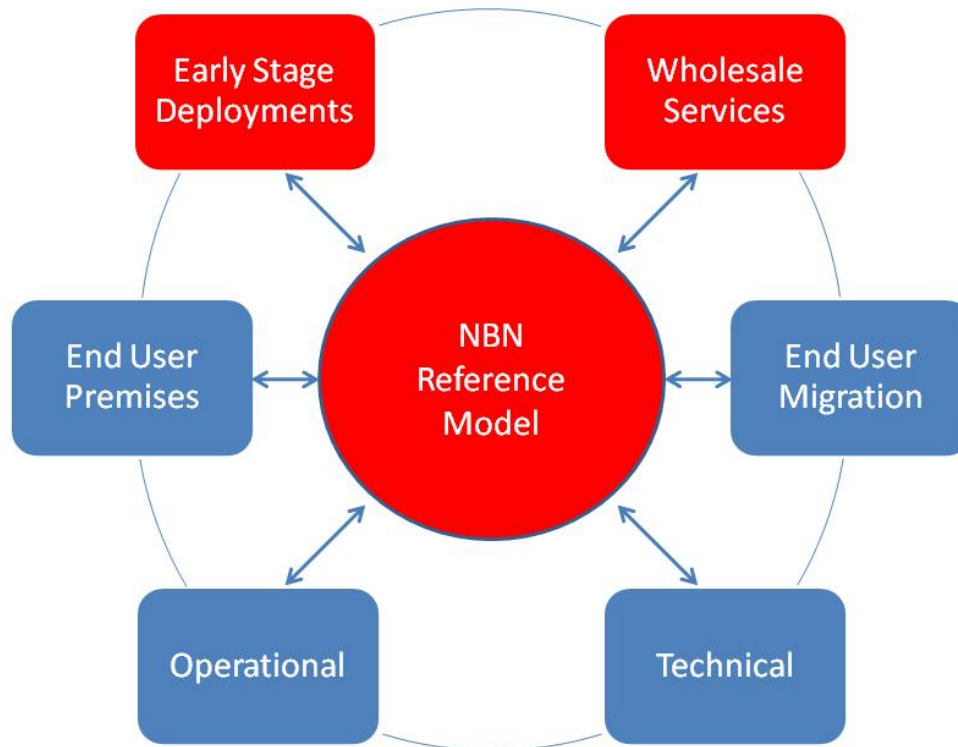
- Introduction
- NBN Project - Update
- NBN Co – Initial Steps
- Questions & Answers

NBN Project Structure



Seven NBN related topics

Work has started on 3 topics



NBN Project Participation



- Open Access
 - All members able to contribute
 - All industry able to observe and comment
- Transparency
 - Using NBN Wiki to record and share information
 - Useful for exploring different options
- Public Discussion
 - Option Papers, Discussion Papers
 - Stakeholder Forums

NBN Reference Model



- Exploring Options related to :
 - Rights and Responsibilities of Customers
 - Service Providers
 - Wholesale SPs, Retail SPs
 - Points of Interconnect
- Architecture Diagrams used to develop and convey Options

NBN Reference Model



- **Customer Choice**

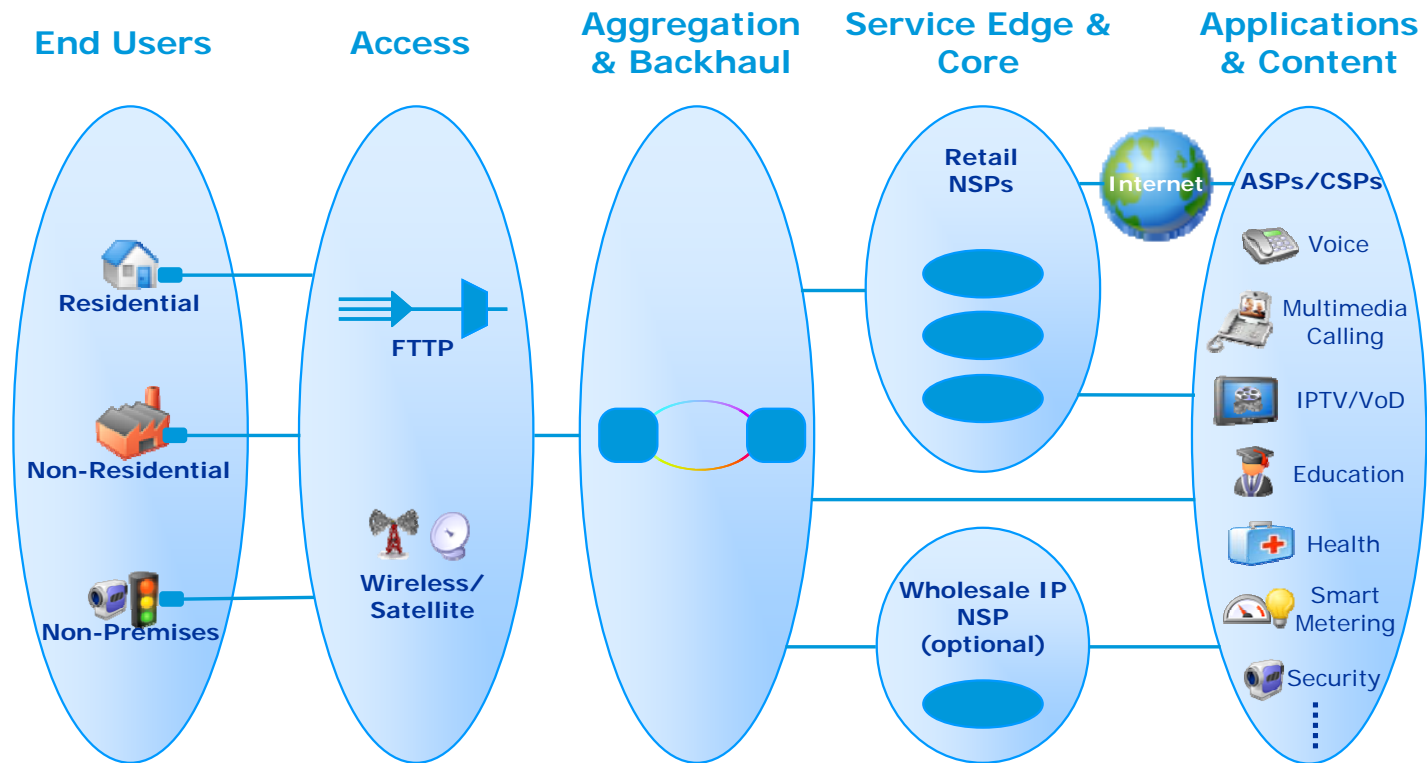
- “At each service delivery location, the network must enable multiple services to be active in parallel and operating simultaneously, each connected through the access network to different wholesale or retail service providers.”
- “Each active service may be connected to different physical devices within the customer premises, and each device within the premises may distribute the service into one or more in-premises networks.”

Draft only – Work In Progress

NBN Reference Model



Focus on Network Architecture

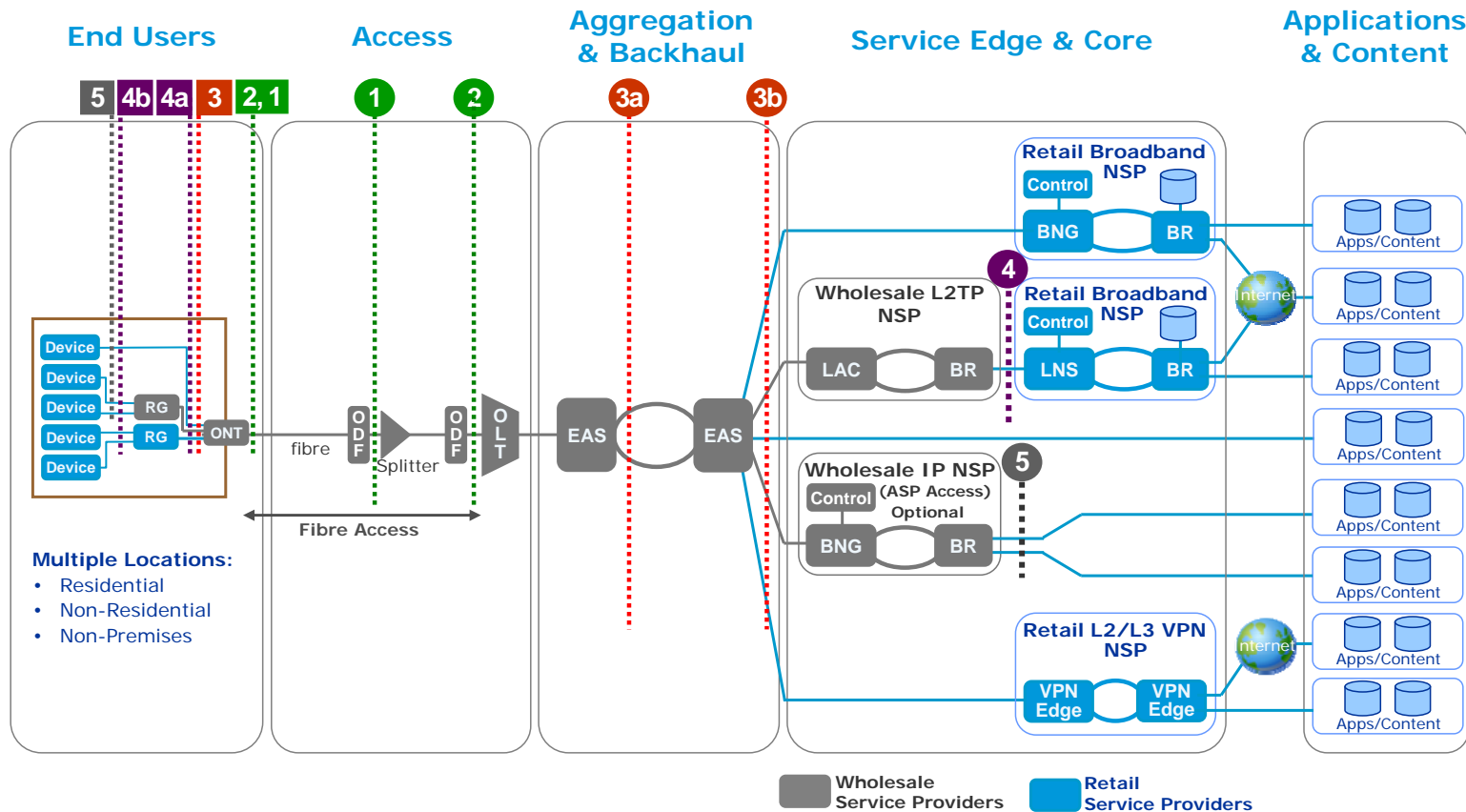


Draft only – Work In Progress

NBN Reference Model



FTTP - Options for Points for Interconnect



Wholesale Services



- Review of International Developments
 - United Kingdom – Ofcom / NICC / BT
 - New Zealand – Commerce Commission
 - Broadband Forum standards
- Review of types of Wholesale Services
 - Passive – Dark Fibre
 - Active – Layer 2 Ethernet
- Focus on wholesale services “lower in the stack” to encourage innovation
- Prioritisation of Work
 - Layer 2 Active services to be prioritised
 - Passive services to be considered later

Wholesale Services



- Active Services being scoped
 - L2 Ethernet Access Service
 - Various QoS characteristics
 - IPTV/VOD Capability
 - Consideration of Voice scenarios
 - PPP/L2TP Service
 - Backward compatibility to Wholesale DSL services
- Types of Service Providers
 - Network Service Providers (NSPs)
 - Application Service Providers (ASPs)

Early Stage Deployments



- FTTP Greenfields
 - Government policy requiring Fibre in Greenfields from 1 July 2010
 - Policy seeks to prevent the creation of “broadband blackspots” in new estates
 - Policy encourages FTTP carrier being selected by existing competitive processes
- Work Areas Identified
 - Definition of Greenfields
 - Standards and Guidelines for FTTP builds
 - Guidelines for Developers, Local Councils, State Governments
 - Co-ordination and Network Planning Arrangements
 - Liaison with Government Stakeholder Group on Fibre in Greenfields

Timetable



- Commence New Work Groups
 - September – Technical, End User Premises
 - Later – Operational, End User Migration
- Draft Outcomes
 - NBN Reference Model
 - Architecture Options Paper – draft available early October
 - Wholesale Services
 - Layer 2 Ethernet Service Definition – draft available late October
 - FTTP Greenfields
 - Checklist for Developers / Local Councils – draft available October / November
- Opportunity for comment / discussion
 - Feedback via public comment process

NBN Co Initial Steps



Mike Quigley
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NBN Co

Questions & Answers

