

Integrated Product Roadmap as at October 2017

LEGEND

- Product
- Customer Experience
- IT Releases
- Onboarding
- Trials/Transitions

CATEGORIES

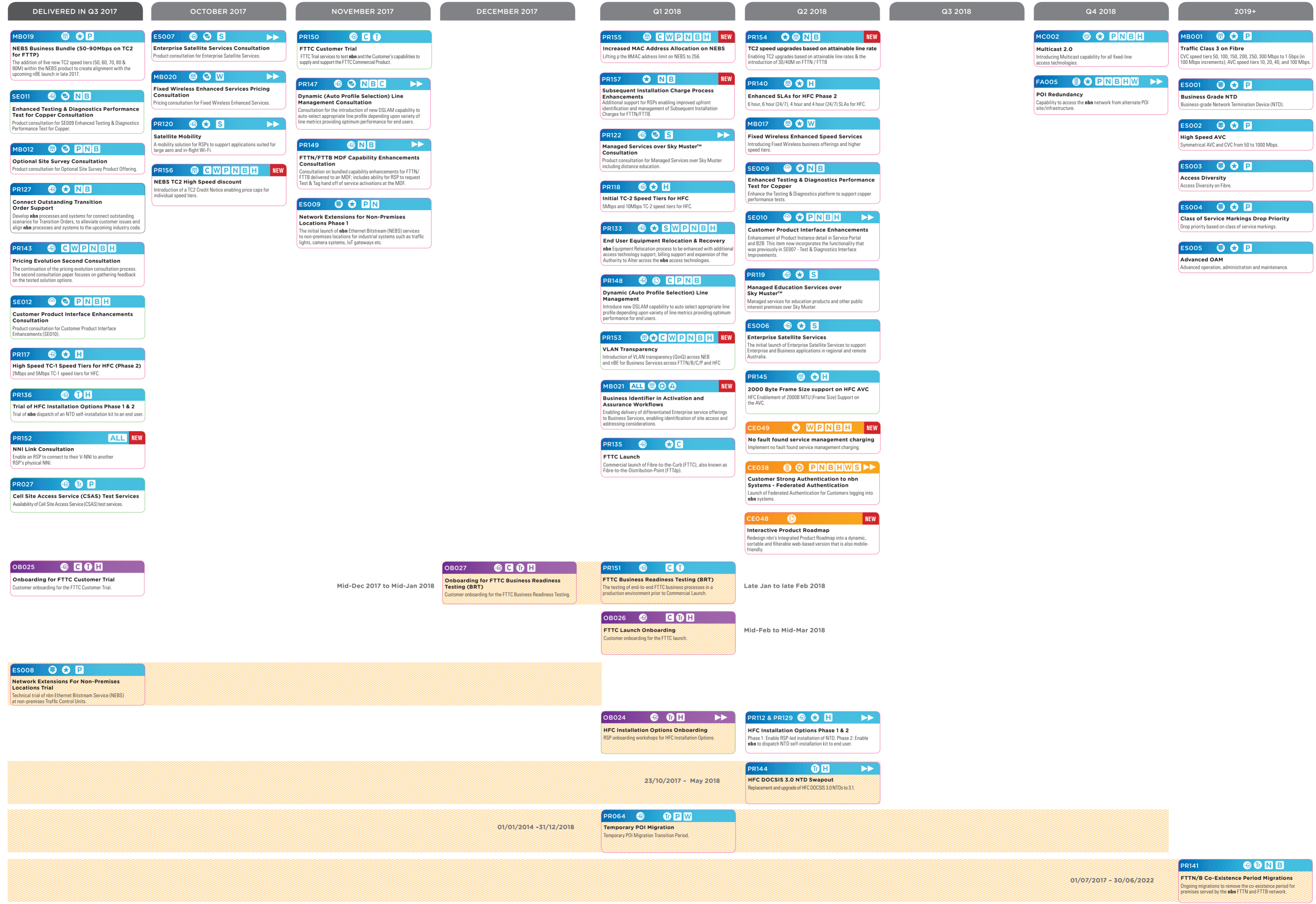
- Broadband & Telephony
- Multicast
- Service Enhancements
- Business Services
- Enterprise Services
- Facilities Access Services
- System
- Feature
- Industry Consultation
- Collateral/Notification
- Trial
- Service Impact
- Transition

Technology Acronyms

- P** FTTP
- C** FTTC
- N** FTTN
- B** FTTB
- H** HFC
- S** Satellite
- W** Fixed Wireless
- ALL** All Technologies

Status Indicators

- NEW New to the Roadmap
- ← Brought forward from previous Roadmap
- Delayed from previous Roadmap
- Committed
- Uncommitted



Integrated Product Roadmap as at October 2017

ABOUT THIS DOCUMENT

Expanding on nbn's Initial Roadmap, which sets out key information and targeted timelines in relation to nbn's initial planned Product, Product Component and Product Feature releases, nbn has developed an Integrated Product Roadmap. The aim of the Integrated Product Roadmap is to provide a coordinated view of customer experience, IT enablement and on-boarding developments with the

details of the product feature releases. It should be noted that the forward looking statements set out in the Integrated Product Roadmap represent nbn's current position at the time of publication. This may change through further development and is not binding.

NEW		CHANGED		ES008	
PR153	VLAN Transparency	PR144	HFC DOCSIS 3.0 Modem Swap out	PR120	Satellite Mobility
PR154	TC2 Speed upgrades based on attainable line rate	PR112	HFC Installation Options Phase 1	PR122	Managed Services over Sky Muster Consultation
PR155	Increased MAC address allocation	PR129	HFC Installation Options Phase 2	MB020	Fixed Wireless Enhanced Services Pricing Consultation
MB021	Business Identifier in Activation and Assurance Workflows	OB024	HFC Installation Options Onboarding	ES007	Enterprise Satellite Services Consultation
PR157	Subsequent installation charge process enhancements	PR149	FTTN/B MDF Capability Enhancements Consultation	REMOVED	
PR152	NNI Link Consultation	PR147	Dynamic Line Management Consultation	MB015	nbn Business Ethernet
CE049	No Fault Found Service Management Charging	FA005	POI Redundancy	MB013	Optional Site Survey
CE048	Interactive Product Roadmap	CE038	Customer Strong Authentication to nbn Systems - Federated	SE007	Test & Diagnostics Interface Improvements
PR156	NEBS TC2 High Speed Discount				

BROADBAND & TELEPHONY

PRO27 CELL SITE ACCESS SERVICE (CSAS) TEST SERVICES

Availability of Cell Site Access Service (CSAS) test services.

Availability of CSAS test services commencing 1 July 2016 and finishing 30 June 2017, which will enable RSPs to test the features of the CSAS product developed for commercial launch.

PR064 TEMPORARY POI MIGRATION

Temporary POI Migration Transition Period.

Migration commencement of CSAs currently serviced by Temporary POIs to Permanent POIs. Introduction of migration tools to assist Customer migrating one or more Ordered Products from a Temporary POI to a Permanent POI.

PR112 HFC INSTALLATION OPTIONS PHASE 1

Phase 1: Enable RSP-led installation of NTD. Phase 2: Enable nbn to dispatch NTD self-installation kit to end user

PR117 HIGH SPEED TC-1 SPEED TIERS FOR HFC (PHASE 2)

2Mbps and 5Mbps TC-1 speed tiers for HFC.

This item expands on the functionality introduced in PR114 – Higher TC-1 Speed Tiers for HFC (Phase 1) by offering 2Mbps and 5Mbps speed tiers, further enhancing the voice services available for medium and large business.

PR118 INITIAL TC-2 SPEED TIERS FOR HFC

5Mbps and 10Mbps TC-2 speed tiers for HFC.

Currently the HFC access platform does not support mid-speed committed information rate services. The introduction of these TC-2 tiers enables this capability on the HFC access platform. TC-2 speed tiers are typically used by service providers for the provision of Video Conferencing and medium business services.

PR119 MANAGED EDUCATION SERVICES OVER SKY MUSTER

Managed services for education products and other public interest premises over Sky Muster.

Enhanced services for education including support for video and multicast, and managed plans to allow unmetered data over Sky Muster.

PR120 SATELLITE MOBILITY

A mobility solution for RSPs to support applications suited for large aero and in-flight Wi-Fi.

PR122 MANAGED EDUCATION SERVICES OVER SKY MUSTER CONSULTATION

Product consultation for Managed Services over Sky Muster including distance education.

PR127 CONNECT OUTSTANDING TRANSITION ORDER SUPPORT

Develop **nbn** processes and systems for connect outstanding scenarios for Transition Orders, to alleviate customer issues and align **nbn** processes and systems to the upcoming industry code.

Implement the ability for customers to place a Transition Order in a Connect Outstanding use case as defined by Industry Code where the service identifier required to be matched for successful order validation may not be known and is currently a block to placing an order.

PR129 HFC INSTALLATION OPTIONS PHASE 2

Phase 1: Enable RSP-led installation of NTD. Phase 2: Enable nbn to dispatch NTD self-installation kit to end user

PR133 END USER EQUIPMENT RELOCATION & RECOVERY

nbn Equipment Relocation process to be enhanced with additional access technology support, billing support and expansion of the Authority to Alter across the **nbn** access technologies.

PR135 FTTC LAUNCH

Commercial launch of Fibre-to-the-Curb (FTTC), also known as Fibre-to-the-Distribution-Point (FTTdp).

Launching **nbn's** Fibre-to-the-Curb (FTTC) product variant. FTTC is the evolution of FTTN, extending fibre deeper into the **nbn** network. FTTC delivers fibre to the curb, closer to the end user premises than FTTN, while leveraging the existing copper as the lead-in.

PR136 TRIAL OF HFC INSTALLATION OPTIONS PHASE 1 & 2

Trial of **nbn** dispatch of NTD self-installation kit to an end user.

PR141 FTTN/B CO-EXISTENCE PERIOD MIGRATIONS

Ongoing migrations to remove the co-existence period for premises served by the **nbn** FTTN and FTTB network.

PR144 HFC DOCSIS 3.0 NTD SWAPOUT

Replacement and upgrade of HFC DOCSIS 3.0 NTDs to 3.1.

PR148 DYNAMIC (AUTO PROFILE SELECTION) LINE MANAGEMENT

Introduction of new DSLAM capability to auto-select the appropriate line profile depending upon a variety of line metrics to provide an optimum performance for end users.

PR143 PRICING EVOLUTION SECOND CONSULTATION

The continuation of the pricing evolution consultation process. The second consultation paper focuses on gathering feedback on the tested solution options.

OB024 HFC INSTALLATION OPTIONS ONBOARDING

RSP onboarding workshops for HFC Installation Options.

OB025 ONBOARDING FOR FTTC CUSTOMER TRIAL

Customer onboarding for the FTTC Customer Trial.

OB027 ONBOARDING FOR FTTC BUSINESS READINESS TESTING (BRT)

Customer onboarding for the FTTC Business Readiness Testing.

OB026 FTTC LAUNCH ONBOARDING

Customer onboarding for the FTTC launch.

PR149 FTTN/FTTB MDF CAPABILITY ENHANCEMENTS CONSULTATION

Consultation on bundled capability enhancements for FTTN/FTTB delivered to an MDF, includes ability for RSP to request Test & Tag hand off of service activations at the MDF.

PR147 DYNAMIC (AUTO PROFILE SELECTION) LINE MANAGEMENT CONSULTATION

Consultation for the introduction of new DSLAM capability to auto-select appropriate line profile depending upon variety of line metrics providing optimum performance for end users.

PR150 FTTC CUSTOMER TRIAL

The supply of FTTC Trial services to participating Customers and their end-users, for the purpose of testing **nbn** and Customer's initial capabilities to supply and support the FTTC Commercial Product. The Trial will test product features, operational processes, and performance characteristics of FTTC.

PR151 FTTC BUSINESS READINESS TESTING (BRT)

The testing of end-to-end FTTC business processes in a production environment prior to Commercial Launch.

PR153 VLAN TRANSPARENCY

Introduction of VLAN transparency (QinQ) across NEB and nBE for Business Services across FTTN/B/C/P and HFC

PR154 TC2 SPEED UPGRADES BASED ON ATTAINABLE LINE RATE

Enabling TC2 upgrades based on attainable line rates & the introduction of 30/40M on FTTN / FTTB

PR155 INCREASED MAC ADDRESS ALLOCATION

Lifting p the 8MAC address limit on NEBS to 256.

MB021 BUSINESS IDENTIFIER IN ACTIVATION AND ASSURANCE WORKFLOWS

Enabling delivery of differentiated Enterprise service offerings to Business Services, enabling identification of site access and addressing considerations.

PR157 SUBSEQUENT INSTALLATION CHARGE PROCESS ENHANCEMENTS

Additional support for RSPs enabling improved upfront identification and management of Subsequent Installation Charges for FTTN/FTTB.

PR152 NNI LINK CONSULTATION

Enable an RSP to connect to their V-NNI to another RSP's physical NNI.

PR156 NEBS TC2 HIGH SPEED DISCOUNT

Introduction of a TC2 Credit Notice enabling price caps for individual speed tiers.

BUSINESS SERVICES

MB001 TRAFFIC CLASS 3 ON FIBRE

CVC speed tiers 50, 100, 150, 200, 250, 300 Mbps to 1 Gbps (in 100 Mbps increments); AVC speed tiers 10, 20, 40, and 100 Mbps.

Medium Business Phase 2 plans to include the release of symmetric bandwidth profiles with the introduction of Traffic Class 3. Traffic Class 3 has been designed to provide a committed capacity with an ability to burst to a peak speed. The symmetric Traffic Class 3 AVC bandwidths being introduced are:

– 10 Megabits per second, 20 Megabits per second, 40 Megabits per second and 100 Megabits per second.

The symmetric Traffic Class 3 CVC bandwidths being introduced are:

– 50 Megabits per second, 100 Megabits per second, 150 Megabits per second, 200 Megabits per second, 250 Megabits per second, 300 Megabits per second to 1 Gigabit per second (in 100Mbps increments).

MB012 OPTIONAL SITE SURVEY CONSULTATION

Product consultation for Optional Site Survey Product Offering.

The principle for the development of the Optional Site Survey Product Offering is off the back of customer deep dives with business customers who reside in complex SDU dwellings. It was confirmed that additional feasibility/walkout activities are required to ensure right-first-time installations and to provide the industry with the confidence of migrating their complex business premises onto the **nbn**.

MB017 FIXED WIRELESS BUSINESS GRADE SERVICES

Introducing Fixed Wireless business offerings and higher speed tiers.

Business offerings include:
– Enhanced SLAs, Activation, Assurance, After Hours
– TC-1: 500Kbps, 1Mbps & 2Mbps.
– TC-2: 5Mbps & 10Mbps.
– TC-4: 100/40Mbps.
– WNTD version 3.

PR140 ENHANCED SLAS FOR HFC PHASE 2

6 hour, 6 hour (24/7), 4 hour and 4 hour (24/7) SLAs for HFC

PR145 2000 BYTE FRAME SIZE SUPPORT ON HFC AVC

HFC Enablement of 2000B MTU (Frame Size) Support on the AVC.

MB019 NEBS BUSINESS BUNDLE (50-90MBPS ON TC2 FOR FTTP)

The addition of five new TC2 speed tiers (50, 60, 70, 80 & 90M) within the NEBS product to create alignment with the upcoming nBE launch in late 2017.

MB020 FIXED WIRELESS BUSINESS GRADE SERVICES PRICING CONSULTATION

Pricing consultation for Fixed Wireless Enhanced Services.

ENTERPRISE SERVICES

ES001 BUSINESS GRADE NTD

Business-grade Network Termination Device (NTD).

The business-grade Network Termination Device used for the Enterprise Ethernet Service is proposed to be backwards compatible to support a Gigabit Passive Optical Network uplink interface. This allows Service Providers to build a solution with a device that is capable of delivering features and bandwidths consistent with the NFAS offering, while at the same time enabling an efficient and transparent migration path to direct fibre point-to-point (Enterprise Ethernet Service) when their end-users/ customers require additional bandwidth and scalability. **nbn** will release a full description of the Business NTD device including additional technical details closer to launch.

ES002 HIGH SPEED AVC

Symmetrical AVC and CVC from 50 to 1000 Mbps.

nbn's Enterprise Ethernet Service is intended to support the needs of large, more complex enterprises and government customers, by providing very high capacity, transparency and redundancy. **nbn's** Enterprise Ethernet Service is intended to be delivered via a dedicated point-to-point Access Fibre from the end-user's premises to the Fibre Access Node using a business-grade Network Termination Device, with symmetrical speeds from 50 Megabits per second to in excess of one Gigabit per second.

ES003 ACCESS DIVERSITY

Access Diversity on Fibre.

In addition to the Standard Single Uplink connectivity, the Enterprise Ethernet Service plans to provide access diversity/resiliency options to enable high and ultra-high service availability. These will include:

- Dual Diverse Uplink Access with Single Network Aggregation Element – Single Network Termination Device connected using diverse lead-in fibres, distribution fibres – using a single port from different line termination cards on the same Network Aggregation element at the Fibre Access Node site.
- Dual Diverse Uplink Access with Dual Network Aggregation Elements – Single Network Termination Device connected using diverse lead-in fibres, distribution fibres – using a single port from different line termination cards on physically separate and diverse Network Aggregation elements.
- Fully Redundant Access – Two Network Termination Devices connected using diverse lead-in fibres, distribution fibres – using a single port from different line termination cards on different Network Aggregation Elements.

ES004 CLASS OF SERVICE MARKINGS DROP PRIORITY

Drop priority based on class of service markings.

This service is intended to be delivered via a dedicated point-to-point Access Fibre from the end-user's premises to the Fibre Access Node using a business-grade Network Termination Device. **nbn** is proposing a semi-intelligent pipe model with drop priority based on the Service Provider's Class of Service markings. Semi-Intelligent pipe model with drop priority based on Service Provider's Class of Service markings (Priority Code Point/Priority-Bit), which is important for contention services that may experience congestion. Service Providers will have the opportunity to provide an uncontended (1:1) AVC and CVC bandwidth contention ratio or potentially contend AVC connections into a CVC using the semi-intelligent pipe model, thus ensuring traffic prioritisation through their network, during times of congestion.

ES005 ADVANCED OAM

Advanced operation, administration and maintenance.

nbn plans to offer Advanced Service Operations, Administration and Maintenance features, including 802.1ag Connectivity Fault Management with the potential for Operations Administration and Maintenance peering for Fault Propagation and early fault detection for Service Providers.

ES006 ENTERPRISE SATELLITE SERVICES

Sky Muster capacity used for remote SMB and Enterprise customers.

The initial launch of Enterprise Satellite Services to support Enterprise and Business applications in regional and remote Australia.

ES007 ENTERPRISE SATELLITE SERVICES CONSULTATION

Product consultation for Enterprise Satellite Services.

ES008 NETWORK EXTENSIONS FOR NON-PREMISES LOCATIONS TRIAL

Technical trial of **nbn** Ethernet Bitstream Service (NEBS) at non-premises Traffic Control Units.

ES009 NETWORK EXTENSIONS FOR NON-PREMISES LOCATIONS PHASE 1

The initial launch of **nbn** Ethernet Bitstream (NEBS) services to non-premises locations for industrial systems such as traffic lights, camera systems, IoT gateways etc.

FACILITIES ACCESS SERVICES

CE038 CUSTOMER STRONG AUTHENTICATION TO nbn SYSTEMS – FEDERATED AUTHENTICATION

Launch of Federated Authentication for Customers logging into **nbn** systems.

CE048 INTERACTIVE PRODUCT ROADMAP

Redesign nbn's Integrated Product Roadmap into a dynamic, sortable and filterable web-based version that is also mobile-friendly.

CE049 NO FAULT FOUND SERVICE MANAGEMENT CHARGING

Implement no fault found service management charging

FA005 POI REDUNDANCY

Capability to access the nbn network from alternate POI site/infrastructure.

MULTICAST

MC002 MULTICAST 2.0

Introducing multicast capability for all fixed-line access technologies.

Expanding capabilities of the Multicast feature to support all fixed-line access technologies, Domain 0 access.

SERVICE ENHANCEMENTS

SE009 ENHANCED TESTING & DIAGNOSTICS PERFORMANCE TEST FOR COPPER

Enhance the Testing & Diagnostics platform to support copper performance tests.

Enhance the Testing and Diagnostics platform to enable copper performance tests for Frame Delay, Frame Loss and Frame Delay variation. Scope includes Network and CPE support for Y.1731 performance testing standards. Remote testing for Y1731 for both **nbn** and RSP's.

SE010 CUSTOMER PRODUCT INTERFACE ENHANCEMENTS

Enhancement of Product Instance detail in Service Portal and B2B. This item now incorporates the functionality that was previously in SE007 - Test & Diagnostics Interface Improvements.

Enhancement of Product Instance detail in Service Portal and B2B. This will enable a consolidated or 'single-pane of glass' view in Service Portal, and expose the content for consumption via B2B.

SE011 ENHANCED TESTING & DIAGNOSTICS PERFORMANCE TEST FOR COPPER CONSULTATION

Product consultation for Enhanced Testing & Diagnostics Performance Test for Copper (SE009).

SE012 CUSTOMER PRODUCT INTERFACE ENHANCEMENTS CONSULTATION

Product consultation for Customer Product Interface Enhancements (SE010).

