

## **1 NetComms Project Program – 2008**

The NetComms rolling 10 year Asset Management Strategy identifies a set of service life extension and new services projects for implementation in a given year, which emerge from an analysis of end user needs, emerging and sustaining service requirements, usage growth trends, new technology opportunities and a strategy for relevant leading edge positioning. The underlying objective is to optimise resource utility to meet continuing and emerging needs of the University Community. For 2008, there are some 32 projects in train. Project management is undertaken by NetComms staff and overseen by the NetComms Project Program Manager to ensure project objectives and timetables are met and that the NetComms PM methodologies are complied with. Major projects are managed against a formal project planning process and which involves business case development, specification and tender preparation, the request for tender process, contract negotiations, contract management and life cycle service management of any supporting service agreement.

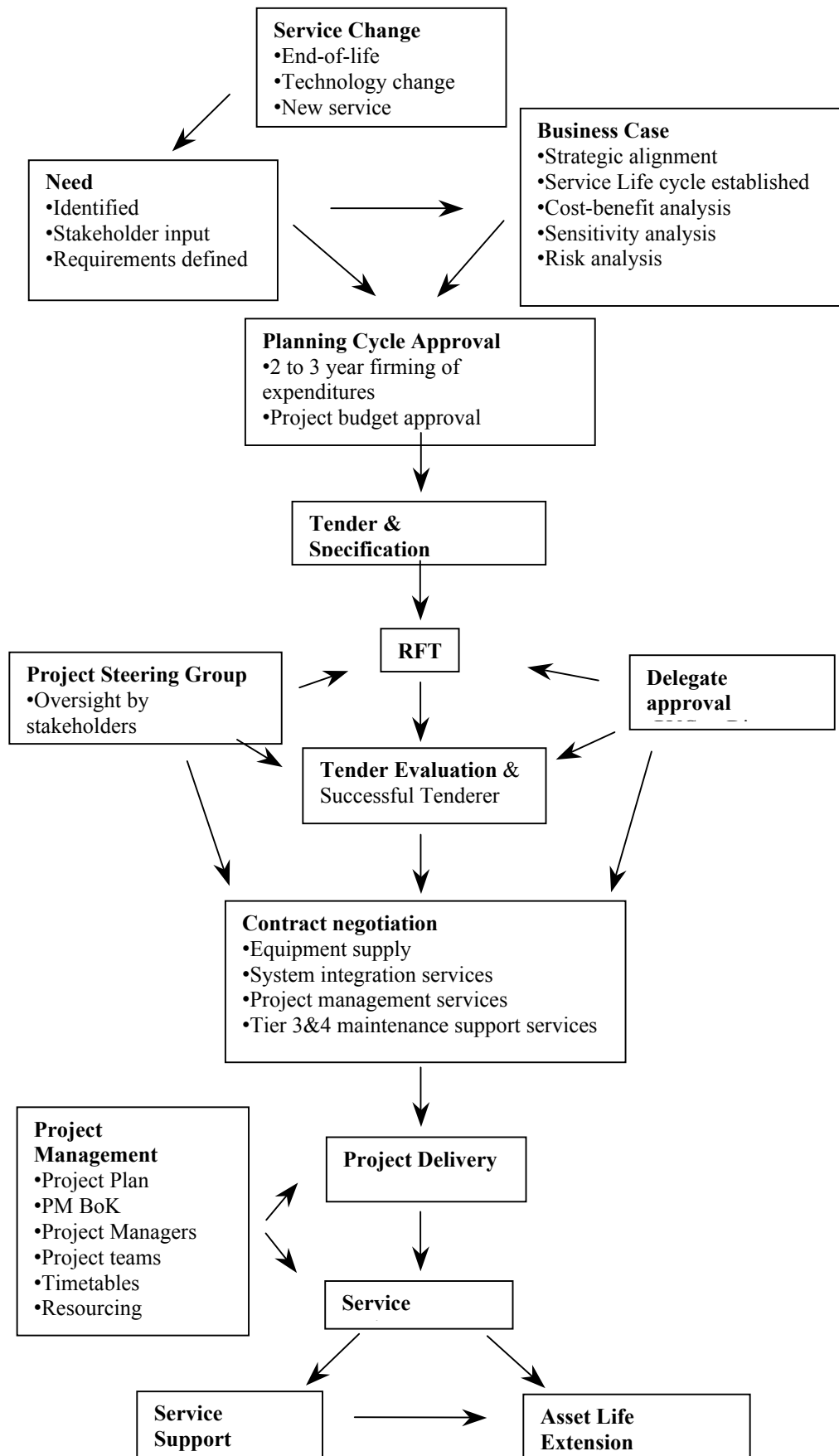
Project management processes and methodology  
PM BoK

Business case analysis methodology  
Least cost life cycle analysis based on Net Present Value – least NP cost

Risk analysis methodology

Project summary against  
Research  
Teaching & learning  
Administration

## 1.1 NetComms Major Project Processes



## 1.2 NetComms Projects – as at January 2008:

#	Project	Project Brief	Project's Asset Strategy	Completion Target	Project Manager
1	Next Generation Switch Upgrade	To upgrade the existing distribution and edge switch infrastructure of the ICN to next generation Enterasys switch hardware – high availability, PoE, 1Gbps, port-based security.	Service Life Extension: Edge switch EOL; ICN redesign .	80% by Q3 2008; 100% by Q1 2009	Matt Noakes
2	ICN Core Upgrades – Routed Core &  Border Access	To migrate the ICN Core to layer 3 (routed core); to upgrade the Backbone links to 10Gbps Ethernet; and to implement IP Ver6 on the Core.  To investigate ICN border access options, including MPLS edge router and Boarder Gateway Controller.	Service enhancement and asset life extension.	Q2 2008  Q3 2008	Darren Coleman
3	Redundant Fibre Loops	To install new fibre to allow for physical redundancy to all Core nodes and Distribution nodes of the ICN within Acton campus.	Development project	Q2 2008	Craig Shoard
4	UPS Roll-out	To install Uninterruptible Power Supplies (UPSs) across the ANU ICN, in support of the next generation switch upgrade project and the ICN core upgrade project.	Service enhancement to support PoE in ICN Edge, and extend Core and Distribution hold up times.	Q1 2009	Geoff Barlow
5	Communication Rooms Audit	To audit and upgrade the communication room environments and provide recommendations and input into a policy on communications cabinets across the ANU ICN.	Facilities enhancement in ICN Node Rooms and Comms Rooms.	Q1 2009	Geoff Barlow
6	University DNS Replacement	To replace the University's DNS with a structured system supporting the new 4LD and 5LD host naming hierarchy and with options for selective distributed management access. Additionally, to define criteria for sub-delegation of College-level DNS; and to identify structures and strategies for IPv6.	Service enhancement	Q2 2008	Darren Coleman

7	IPv6 Deployment	To selectively deploy, monitor and refine IPv6 environments into the University Community with the view to establishing a strategy for full deployment in 2009.	Development project	Q4 2008	Darren Coleman
8	eduroam	To implement the eduroam service within the ANU wireless service and to enable travelling academics to make use of the service in eduroam federated institutions.	Development project	Q1 2008	Roy Meuronen
9	Wireless Network Infrastructure Extension	Based on data collected from the Wireless Network Analysis project to extend coverage for a contiguous Acton-campus user experience.	Life extension project	Q1 2008	Craig Shoard
10	Wireless Service Extension	To allow secure wireless access to local area subnets to enable authorised local wireless users to access these local area subnets in the same manner as fixed connections to these subnets.	Service enhancement project	Q3 2008	Matt Noakes
11	Wireless Management	To upgrade wireless access points for integrated network management and to enable better control the traffic accounting and shaping for the wireless network using policies and individual identification.	Service enhancement project	Q2 2008	Matt Noakes
12	SIP	To create a common, vendor-neutral, SIP signalling network domain for ANU converged communications applications and services.	Service enhancement project	Q2 2008	Darren Coleman
13	Network Management Systems Upgrade to ICN NMS	To integrate and expand as required, the current network monitoring applications of the ICN for integrated network performance monitoring and reporting. To produce a single, authoritative, database of ICN infrastructure. To provide a portal for access and change management.	Service enhancement and integration of existing management, monitoring and reporting services,	Q4 2008	Ben Carbery
14	Access & Security Policy to the edge	To develop and implement security policies on the ICN using the Enterasys switching equipment and Netsight Policy Manager.	Development project	Q3 2008	Ben Carbery

15	ResNet	To design and implement a closed student residential network for all Halls & Colleges. This will provide dedicated 1 Gbps links between the student residences and with a single, controlled access point to the ICN Backbone and the Internet.	Life Extension project	Q1 2008	Darren Coleman
16	VPN Service Upgrade	To reconfigure VPN concentrators into a common pool and launch an ANU-wide Remote Access Service.	Life Extension project.	Q4 2008	Roy Meuronen
17	Virtual Firewall Management	To implement a network management layer on the virtual firewall deployment, to provide redundant firewalling across Core node pairs, to review and optimise existing deployments, and to complete firewalling of remaining local areas.	Life Extension project – redundancy and network layer reconfiguration of existing assets.	Q3 2008	Ben Carbery
18	Baseband Media Replacement	To upgrade the current television receivers within Leonard Huxley and to provide streaming video, via multicast, of television to the desktop for users on the ICN – IPTV.	Service delivery project	Q1 2008	Roy Meuronen
19	Video Conferencing Deployment	To implement the network infrastructure and access management (dial plan, multi-user groups and scheduling) for point-to-point and for multipoint video conferencing.	Development project	Q2 2008	Roy Meuronen (DOI Wide Project)
20	Advanced Communications Projects Program	<ul style="list-style-type: none"> <li>• IPv6 applications;</li> <li>• 802.11n c/w VoWLAN</li> <li>• Presence and Mobility applications;</li> <li>• Video content storage, packaging and delivery;</li> <li>• Next generation Core;</li> <li>• Networking for virtual data centre, with DR;</li> <li>• Network-Middleware interfacing;</li> <li>• Networking for Grid Computing and virtual data centre interconnectivity of distributed data repositories.</li> </ul>	Development projects		Andrew Howard
21	ACM5 Upgrade	To migrate the ANU's Voice Service to ACM5	Life extension project	Q1 2008	Wes Dinsmore
22	Unified Messaging	To upgrade the current Octel voice mail system. Value-add's such as unifying voice-mail via email (and vice versa) will be investigated.	Life extension project	Q3 2008	Wes Dinsmore

23	EC500/softphone/Hi-Fi telephony	To implement an “executive” telephony package, including simultaneous access via hard, soft and mobile phone options, and G.722 hi-fi hard phones.	Life extension project	Q2 2008	Wes Dinsmore
24	IP Telephony Directory	To implement the LDAP search function on the IP handsets.	Development project	Q1 2008	Theo Karner
25	Mobile Voice Contract	To market test Mobile Carrier services for next 2 year contract.	Life extension p	Q1 2008	Wes Dinsmore
26	Kioloa Communication Services Upgrade	To provide broadband access and to develop future scenarios, and the technology design that enables cutting edge teaching, learning and research services.	Development project	Q3 2008	Craig Shoard
27	Emergency Communications System	To investigate the current emergency communications systems on campus and supplement or increase the functional capacity of these systems if required.	Development project	Q3 2008	Craig Shoard
28	ICN Access Network Disaster Recovery	To install roof-top access for the Disaster Recovery 1Gbps optical links across Acton Campus.	Life extension project	Q2 2008	Craig Shoard
29	ANU Exchange Area Network	For 2008 – networking, telephony & TV infrastructure and services for Section 21 – Unilodge accommodation.	Development project	Q4 2008	Craig Shoard
30	LITSS Training Program	To produce, test and provide a training program for LITSS, Student LITSS and Infoplace consultants. This will include any relevant standards, policies or procedures and best practices. This program is to be delivered via multiple channels .	Development project	Q3 2008	Kylie Paintain
31	NetComms Knowledge Base	To develop and codify NetComms information into a structured managed knowledge base, including project, operational, service support, procedural, financial management information.	Development project	Q4 2008	Theo Karner
32	ICN Networks and Server Layer Security Audit	To conduct an audit of existing ICN infrastructure including physical assets, ICN active equipment, ICN operational and support servers and management access.	Security audit project	Q1 2008	Geoff Barlow