

Table A: 2009 DEFENCE WHITE PAPER (post-2009/10 Budget Revised Analysis)						
Composition of Future 'Force 2030' Military Capability Enhancement Acquisitions (ie: Insights into 2009-19 DCP)						
Project Number/Phase	Capability Description	Year of First DCP Listing	Number of Units	New or Base Platform/Weapon	Legacy Policy Decision or Platform/Weapon	DWP'09 Specified New Capability Mix
Sea 1000	Future Submarines (non-Nuclear)	2009	12	New design - 4,000t	'Collins'-class (2,950t)	Longer Range; Lower Signature; SRTC; FMPC; UUV; ASH; ASW; SSS (integrated cruise missile); MDML0; UWIC; SSF; SABDA
Sea 1100	Longer Range Sonars for 'Anzac' Frigates	2001	8	'Anzac'-class	LRs de-emphasised in 2004 DCP	Longer range sonars for 'Anzac' frigates and torpedo defence systems
Sea 1439/6+	'Collins' Submarine Incremental Upgrades	2004	6	'Collins'-class	'Oberon'-class	New sonars; improved communications; general systems upgrades but no retrofitted cruise missile; funding to increase operational availability
Sea 1448/4A	Anti-Ship Missile Defence Upgrade	2006	8	'Anzac'-class (3,100t)	n/a	Class-wide DPAR; Upgrades to ESSM, Nulka MDS & ASW; CIWS-AST, ASMD; SHORAD-X; mini-'Typhoon' self-defence gun
Sea 1654/3	Replenishment Vessel Replacement	2001	1	New design - 10,000t	HMAS 'Success' (8,000t)	FSFA, ship-to-ship transfers, at least one helicopter for land forces re-supply
Sea 4000/3+	Air Warfare Destroyers	2001	3	F-100/104+(F-105)	DDG/SM-1, FFG/SM-2 (2,900t)	>200nm SM-6; CEC for NCW Grid; early fitment of of cruise missile control & firing systems; ATAS; 4th AWD TBC
Sea 5000/1&2	Future Frigate Optimised for ASW	2009	8	New design >'Anzac' (ie: 6,000t)	'Anzac'-class	ASW; ISS; Integrated cruise missile, LRATAS, FSFA, UAV, NCH
Sea 1444/2	Offshore Combatant Vessels (Modular)	2009	20	New design - 2,000t multirole	'Armidade'(14)-; 'Leeuwin'(2)-; 'Hoon'(6)-; 'Paluma'(4)-class	Modular UUS for MCM & hydrography; Littoral warfighting; LRCT & CPO; SSF; Potential to embark helicopter & UAV capable; SDWS, basic networking capabilities
Sea XXXX	Maritime Unmanned Aerial Vehicles	2009	TBD	'ScanEagle'; 'FireScout'	n/a	Maritime UAV (or mix of UAVs) to operate off AWDs, 'Anzac' frigates, future frigates and LHDs
Sea XXXX	Maritime Based Land Attack Cruise Missile	2009	TBD	'Tomahawk' Block IV+MTI Upgrade	n/a	Maritime-based land attack missiles for 3 x AWD, 8 x Future Frigate & 12 x Future Submarine. Missiles will be integral to design of new submarines & frigates
JP 90/1	ADF Identification Friend or Foe	2004	n/a	Replacement capability	Mode 4 Mk XII IFF System	New friendly-force identification systems for soldiers and vehicles
JP 129/2&3	Tactical UAVs - Enhancements/ Upgrades	2001	8	New OTS design upon reissued RFT	'ScanEagle' & I-View 250A	Larger Tier II (Brigade/Battalion-sized) - smaller Tier I (Company-sized) TUAV requirements
JP 141/3	Enhanced Counter-WMD Capability	2001	TBD	Supplementary equipment	Post-9/11 Incident Response Regiment reconstitution	Establish a (potentially deployable) defensive counter-WMD (including decontamination) capability in the IRR to support land force or special forces operations
JP 2008/5	Enhanced UHF satellite communications	2009	1	IS-22 satellite	LEASAT 5, SKYNET 5B	Satellite to enhance UHF communications for deployed forces & assets operating in Indian Ocean region; UHF coverage may be extended throughout Pacific Ocean
JP 2025/5+	Jindalee Over The Horizon Radar System	2004	3	n/a	JORN radar sites/Edinburgh centre	Progressive sensor component and data processing element upgrades to ensure JORN meets future needs
JP 2030/9+	Joint Command Support System	2001	n/a	Continual enhancements	Joint Command Support Environment (JCSE) sub-set	Enhance Defence's JCSS, as well as protected, high-speed communication systems and associated networking capabilities
JP 2048/3	Heavy Landing Craft Replacement	2001	6	New design	'Baikpapan'-class LCH	Improved ocean going capabilities; Faster transit speeds than LCHs; transport armoured vehicles, trucks, stores and people; Capable of contributing to HDRO
JP 2048/4A&B	Landing ships Helicopter & Dock (LHD)	2001	2	Modified 'Juan Carlos I'	HMAS 'Tobruk' (2,200t) & 'Manoora' (5,000t)	Maritime manoeuvre of land forces in the littoral; humanitarian assistance & disaster relief operations
JP 2048/4C	Strategic Sea Lift Ship	2004	1	Proven design - 10-15,000t	HMAS 'Kanimbla'	15,000 tonne displacement, landing spots for helicopters; to also be employed in wide range of NCO
JP 2064/4	Enhanced Geospatial Capabilities	2001	n/a	Supplementary equipment	Project 'Parare' (JP 42)	Enhanced geospatial capabilities for targeting (for new long-range cruise missiles) analysis support; 5 x Geospatial Imagery Analyst Teams (US data sharing)
JP 2080/5	Defence ICT Reform	2009	n/a	New architecture/systems	Joint Projects 2068 & 2077	More secure & robust ICT capability, Defence-wide single user interface, improved information security, web-based collaborative technologies
JP 2085/3+	Explosive Ordnance Warstock	2004	TBD	New/upgrades designs	SMArt 155; Excalibur	Expanded ordnance stocks to meet a full range of short- and medium-term contingency operations
JP 2097/1B+	Enhancement of SF Capabilities	2004	TBD	Various advanced equipment/training	Project 'Redfin', 'Supacat' 'Nary', Land Rover 6x6	New SOVs; DFSW; CBRN response equipment, EW & networked C3 (NSOC); NFE; stealthy insertion methods; Data uplink to provide target info to strike platforms
JP 2098/2	Joint Combined Training Capability	2004	1	Enhance existing JCTC	Derived from 2004 AUSJIN talks	Develop a plan for further JCTC enhancements
JP 3011	Non Lethal Weapons	2009	TBD	New designs/systems	n/a	Enhanced suite of non-lethal weapons - projectiles, incapacitating agents, STIA, VAAGD, physical barriers
JP XXXX	Remote Sensing Satellite	2009	1	New design	n/a	New high-res/cloud penetrating SAR imagery satellite for mapping, charting, navigation & targeting data
Land 17	Self Propelled 155mm Artillery	2001	12	155mm AS-9 or PzH2000	n/a	Two batteries to fire precision guided munitions (ie: 'Excalibur') at very long ranges and at high rates of fire; Digital TAHNF capabilities; armoured crew protection
Land 17	Artillery Replacement - Towed	2001	24	155mm M777	M-198/155mm(Land 18)&L119/105mm 'Hamel' (L17/6)	Four batteries of M777, to be air-mobile via CH-47F & C-17/C-130J; Digital TAHNF capabilities
Land 19/7	Ground Based Air & Missile Defence	2007*	TBD	New design or upgrade	RBS-70 & Land 53 WLR, JP 117 GBADS, 'Rapier'	C-RAM (& potentially missiles & UAVs), networked, integrated air defence command and control BMS, capable of predicting detecting, cueing threat munition points
Land 40/3	Direct Fire Support Weapons	2007*	TBD	New/upgraded design	Mortars, 84mm Carl Gustaf, 'Javelin'	Replace Army mortars with more capable system; Lightweight Mk3 84mm 'Carl Gustaf' equipped with NFE; Lightweight AGL for greater range
Land 53/1BR/2+	Night Fighting Equipment	2001	TBD	New equipment	Project 'Ninox'	Upgrade of current small arms with better day and night surveillance capabilities
Land 75/125/ 3.4/4/5	Battlefield Command Support System+BMS	2001	TBD	New/upgraded design	n/a	Improve combat power, survivability, enhanced C2, networked battle management systems (BGC3) down to lowest levels within combat teams
Land 106	M113 Upgrade + ELF Supplement	2004	430	M113AS3, M113AS4	M113A1 Armoured Personnel Carrier	Continue upgrade: Extended hulls, add-on armour, spall liners, new drive train & suspension systems, new turret & 12.7mm machine gun
Land 121/3	Light Support/Heavy Protected Vehicles	2004	7,000	'G-Wagen' /Next-Gen truck designs	Land Rover, Unimog, Mack	Transport, C3, liaison, logistic support, BMS, IFF
Land 125/3	Soldier Enhancement Version 2	2001	n/a	New/upgraded systems	n/a	Enhanced (MCBAS) personal body armour; 'Austeyr' F88 SA2 integrated rifle system, better night/day surveillance capabilities, RIC; hearing & ballistic eye protection
Land 125/4	Soldier Enhancement Version 3	2001	n/a	New/upgraded systems	n/a	Enhanced digital networking within AO (ie: in command & control at fire team level and above), enhanced sustainment methods (rations & power systems)
Land 400	Combat Vehicle System	2004	1,100	New deployable/protected vehicle	M113, ASLAV, 'Bushmaster', Abrams	Improved firepower, protection, mobility, designed for close combat in open & complex terrain; BMS; IFF
Land XXXX	Ballistic Missile Defence	2009	TBD	'Patriot' or THAAD	FFG/SM-2 & AWD SM-6	Explore (subject to annual review) capabilities for in-theatre defence of ADF elements, population centres & key infrastructure
Air 87/2	Armed Reconnaissance Helicopters	2001	22	'Tiger' ARH	OH-58 'Kiowa', UH-1H 'Iroquois'	Direct fire support ('Hellfire' missiles), onboard optical & EO observation systems, precision targeting information, unguided rockets, 30mm chain gun
Air 5077/4	'Wedgetail' AEW&C Aircraft Upgrade	2006	6	B737-700 & MESA radar	n/a	Investigate addition of CEC to cue weapons systems (ie: SM-6) & perform 'other' functions in an air warfare information grid
Air 5333	Recognised Air Picture of the POE	2001	TBD	Continue to Improve Capability	2007 NCW Roadmap & Project 'Vigilare' (Air 5333)	Improved capability to develop full situational awareness of Australia's airspace by way of fusing air surveillance information from multiple sources
Air 5349/1&2	BACC Combat Aircraft	2007*	24	Block 2 F/A-18F 'Super Hornet'	F-111	APG-79 AESA radar, 'Harpoon', AIM-9X, AGM-154 JSOW, AIM-120C AMRAAM, JDAM-ER, Electronic Attack 'Growler' (12 only)
Air 5376/3+	Progressive F/A-18 'Hornet' Upgrades	2001	71	F/A-18A/B 'Hornet'	Projects Air 5400, 5402, 5409, 5418, 5077	RAAF to continue progressive upgrades: JASSM >200nm strike range, potentially more CBRs to ensure Hornet's remain capable & sustainable until JSF arrival
Air 5402	Air-to-Air Refuelling/Transport Aircraft	2001	5	KC-30A MRTT	B707	Wing pod & boom (ARBS)/UARRSI refuelling system to extend fighter range & endurance, TDL & Defensive ECM equipment, augment airlift/deploy 270 troops
Air 5405/1	Deployable MROCs	2004	TBD	Additional systems	Air 5333	Deployable mobile regional operations centre (MROC)
Air 5431/1	Improved Military Air Traffic Control	2004	TBD	Upgraded/improved systems	Projects Air 5186, 5333, 5375, NATMS	Replace Alenia radar systems to achieve improved military air traffic control
Air 5432/1	Comms, Navigation, Surveillance, ATM	2004	TBD	DATMCS	ADATS	Upgraded navigation & communications systems, deployable & fixed surveillance sensors, command and control systems
Air 6000/2A&B	New Air Combat Capability (NACC)	2004	72	Block III CTOL F-35A	F/A-18A/B 'Hornet'	Stealth, advanced sensors, networking & data fusion, ADF-wide NCW, EA-AO
Air 6000/2C	Follow-on NACC	2004	28	Block IV+ CTOL F-35	F/A-18F 'Super Hornet'	Block IV JSF (Phase 2A & B Block III aircraft will be subsequently upgraded to Block IV standard)
Air 6000/3	Joint Strike Fighter Weapons	2009	TBD	NSM, AIM-120D, HySM	ASRAAM, AIM-9X, AIM-120C, AGM-142, Harpoon	New maritime strike weapon, air-to-air and air-to-surface weapons for the Joint Strike Fighter
Air 7000/1B	High Altitude Long Endurance UAVs	2004	7	'Global Hawk'; 'Mariner'; 'Mantis'	Formerly JP 2062/2; 19 x AP-3C 'Orion'	Supplement MPA with persistent ISR (ocean spanning range) to enhance SA, plus overlaid capability to support ground forces
Air 7000/2B	New Maritime Patrol Aircraft	2004	8	P-8A 'Poseidon' MPA with AAR	19 x AP-3C 'Orion'	SSR, EO/IR, ESS, ASW & ASuW (fire SAsM), air-launched torpedoes, AAR, advanced sonobuoys, high transit speeds; rapid search/identification
Air 8000/1	Tactical Transport Aircraft Replacement	2006	2	C-130J-30	12 x C-130H 'Hercules', Air 5414	Transit SF air-deployable rigid-hulled inflatable boat (RHIB) capability from C-130Hs, which will all be retired
Air 8000/2	Tactical Battlefield Airlifters	2004	10	New design (C-27J or C-295)	13 x DHC-4 'Caribou'	Significantly greater range, speed & payload than DHC-4 'Caribou', KC-30A also to provide extra lift capability.
Air 9000/5C	Heavy Lift Helicopters	2009	7	CH-47F 'Chinook'	6 x CH-47D 'Chinook'	US Army configuration; improved EWSP; FBCC2-BFT; Integrate with US Army fleet maintenance system
Air 9000/2	Multi-Role Helicopters - Amphibious Troop Lift	2004	12	MRH-90 (RAN)	6 x Mk 50 'Sea King'	A pooled fleet of 46 MRH-90s will be shared between the RAN and the Army, and be equipped with an IR system for use in low-light conditions
Air 9000/4&6	Multi-Role Helicopters - Battlefield	2004/06	34	MRH-90 (Army)	36 x S-70A 'Black Hawk'	IR navigation, Navy to operate six MRH-90s from 2010 and share a further seven with Army for common flight training
Air 9000/8.1	Naval Combat Helicopters (NCH)	2006	24+	MH-60R or NFH-90	16 x S-70B 'Seahawk', 11xSH-2G(A) 'Super Seasprite'	Advanced ASW; Active dipping sonar; Air-launched (anti-submarine) torpedoes
Air 9000/8.2	Air-to-Surface Strike Missile for NCH	2009	TBD	'Hellfire'/NSM/Marte'	Kongsberg 'Penguin'	Ability to fire air-to-surface short- to medium-range (anti-ship) missiles
DEF 224/3	Force Level Electronic Warfare	2004	TBD	New/Supplementary Equipment	Project 'Bunyip', Signals interception/jamming (2004)	Establishment of Adelaide-based Joint EW Centre; New EW training range; EW detection/Force Level EW upgrades
DEF 224/4	ADF-wide Electronic Warfare	2009	TBD	New/Supplementary Equipment	n/a	Enhancements to reporting systems & databases supporting analysis & dissemination of EW-related information, intelligence capabilities for maritime & land forces
DEF 7013/5+	Defence-wide Architecture & ICT Systems	2004	TBD	New/Supplementary Equipment	Joint Intelligence Support System	Build a Defence-wide architecture & secure, high-capacity ICT systems to ensure ISR & info resources better utilised. Boost US Pacific Command/BAMS linkages.
DEF XXXX	Enhanced Cyber Warfare Capability	2009	TBD	New Capability	n/a	Establish Cyber Security Operations Centre within DSD (ADF & DSTO) as precursor to a series of highly classified WoG cyber defence/attack investments
DEF XXXX	Enhanced Intelligence Component for ISR	2009	TBD	New/Supplementary Equipment	ISR Roadmap 2007-17; AUSJIN 2008/09 ISR principles	Mostly classified projects specifically related to enhancing Defence's intelligence capability & contributing to comprehensive, real time situational awareness

NOTE: The above tabulation is an ADF capability enhancement guide prepared by ADRB researchers. The Department of Defence has not released an official 2009 Defence Capability Plan. References to 2007* indicate new DCP capabilities emerging from the 2006 Defence Capability Update (DCU), and considered for approval prior to the Federal eI

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