

AIR TRAFFIC MANAGEMENT

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The New CNS/ATM Systems Development **Project (Package-1)** Project (Package-1 & 2) PH-ATM-PK1 & PK2 IP Addressing Plan

Contract Number: PH-P228

CDRL Number: N/A

Prepared for:



Department of Transportation and Communications (DOTC)

The Columbia Tower, Ortigas Avenue, Brgy, Wack-Wack Mandaluyong City, Metro Manila, Philippines 1555

Prepared by:

Thales Australia Ltd

(ABN 66 008 642 751)

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	Name Role Date Signature			
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Scope

1.1. Identification

Project Identification			
Project Name The New CNS/ATM Systems Development Project (Package-1)			
Contract Number	PH-P228		
Prime Contractor	Sumitomo Corporation and Thales Australia Ltd		
Solution Lead	Thales Australia Ltd		

Table 1 - Project Identification

Document Identification		
Document Full Title	IP Addressing Plan	
Document Abbreviated Title	IP Addressing Plan	
Business Identifier and DTC	61 616 953 - 562	
Thales Reference Number (TRN)	N/A	

Table 2 - Document Identification

1.2. Philippines ATM Project Overview

The Department of Transportation and Communications (DOTC) is responsible for providing air navigational services in the Philippine Flight Information Region (FIR), and this FIR occupies one of the largest areas in the region.

The Philippine FIR is bounded to the north by the Hong Kong, Taipei and Fukuoka FIRs, to the east by Oakland Oceanic FIR, to the south by Ujung Pandang FIR, to the southwest by the Kota Kinabalu and Singapore FIRs, and to the west by the Ho Chi Minh and Sanya FIRs.

The New CNS/ATM System Development Project is a program of works designed to rejuvenate and enhance the Air Traffic Management capabilities within the Republic of Philippines, and includes civil works (new ATM building in Manila), plus a full suite of new core products related to the new ATM functionality.

The New CNS/ATM Systems Development Project is divided into two (2) separate contract packages as follows:

- Package 1 ATM Automation, Communication, Navigation and Meteorological Systems; and
- Package 2 Communication and Surveillance Systems.

Package 1 of the project consists of 6 segments composed of the following systems:

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- ATM ATC Segment
 - ATM System (ATMS)
 - Central Technical Monitoring System (CTMS)
 - o Computer Based Training (CBT)
 - Journaling and Playback Data Processing (JPDP)
 - Search and Planning System (SAR)
 - Airspace Design and Evaluation Workstation (ADEW)
 - Time Distribution System (TDS)
- ATM AISS Segment
 - o Aeronautical Information System (AISS)
- COM G/G Segment
 - AMHS/AFTN System (existing and upgrade)
 - o ATN G/G router (existing and upgrade)
- COM Voice Segment
 - Voice Switching and Control System (VSCS)
 - Emergency Radio Bypass System (ERBS)
 - Voice Recording System (VRS)
- NAV Segment
 - o GNSS Signal Monitoring System
 - o Web Server system
- MET Segment
 - o MDPS (WAFS, MTSAT, MCS)
 - Automated Weather Observation System (AWOS)
 - ATIS System

1.3. Document Overview

The purpose of this IP Addressing Plan is to define the IP network addresses, the IP multicast addresses, VLAN numbers and hostnames allocated to the CNS/ATM Sub-systems for the PH-ATM program.

1.4. Applicability of this Document

This document applies to all sub-systems of the PH-ATM Program which use IP communication either with other sub-systems or external systems.

This IP Addressing Plan applies to the CNS/ATM Sub-systems to be provided to DOTC in the framework of the PH-ATM program (New Philippines CNS/ATM system), according to the referenced Contract PH-P228, between DOTC and THALES.

1.5. Terminology, Acronyms and Abbreviations

For a list of Acronyms please see APPENDIX 1

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2. Referenced Documents

2.1. Contractual Documents

All contract documents referenced must have the Contract number and Date

Table 3 - Contractual Documents

Ref.	Contract No.	Title	Revision	Date
C_01	PH-P228	Document III (ES) Specifications for Equipment and	Final	Jan 2010
		System works of the Contract		
C_02	PH-P228-P2	Contract Package-2 Document III (ES)	Final	Mar 2010
		Specifications for Equipment and System works.		

2.2. Referenced Standards

Table 4 - Referenced Standards

Ref.	Standard Title	Reference Number
S_01	a) Australian Standard – Installation requirements for customer cabling (Wiring Rules)	AS/CA S009:2013
S_02	International Commercial Terms 2010	INCOTERMS 2010

2.3. Project Documents

All Thales referenced documents must have the Document Name, Business Identifier Number, Revision Number and Revision Date.

Table 5 - Thales Product Documents

Ref.	Document Title	Business Identifier and DTC	Revision	Date
P_01	PH-ATM Global System /Sub-System design Document	61 616 626 - 424	F	In Progress
P_02	PH-ATM Master IP Assignment	61 616 626 - 194	-	In Progress

2.4. Other Documents

Table 6 - Thales Product Documents

No	Document No.	Document Title	D	Date	
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O_01	RFC 791 (IP)	Internet Architecture Board , Official Protocol Standard - Internet Protocol,	1981
O_02	RFC1918	Address Allocation for Private Internets, Status: best current practice	1996

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3. IP Plan

3.1. Overview

The following PH-ATM network architecture overview shows the Engineering Services (ES) infrastructure supported by this IP Address Plan.

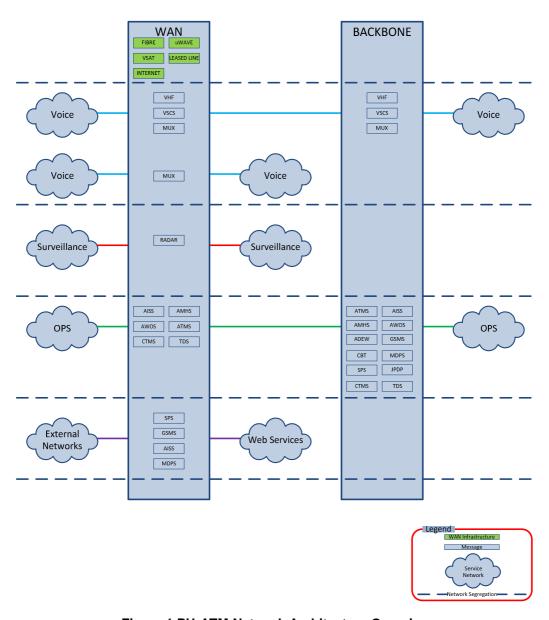


Figure 1 PH-ATM Network Architecture Overview

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The purpose of this IP addressing Plan is to define the IP network addresses, IP multicast addresses and the Virtual LAN (VLAN) numbers used by the CNS/ATM Sub-systems. Each CNS/ATM Sub-system has been allocated a range of seven IP networks and corresponding VLAN numbers.

All IP addresses are defined with the following format:

W.X. Y.Z/AA where **W, X, Y** and **Z** represent 8 bits of the address in decimal value and **AA** the sub-net mask value which gives in decimal the number of bits set to "1" inside the mask.

The Philippines CNS/ATM program will use both IPv4 class A and class C address ranges. The class A address range is used internally within each of the sub-systems and has been selected due to its large number of network and host id combinations. This allows a specific IP address syntax to be followed across sites and within each CNS/ATM Sub-system.

The Class A IP address syntax is defined below:

1 st Octet	2 nd Octet	3 rd Octet	4 th Octet
Fixed	Site Identifier	Sub-system	Host id
10	0 – 255	0 – 255	0 – 255

The Class C address range will be implemented on the WAN network of the Philippines CNS/ATM program. It has been selected for its different syntax to the class A networks and smaller number of network and host id combinations. The site identifier follows the scheme as in the class A syntax.

The IP address syntax is defined below:

1 st Octet	2 nd Octet	3 rd Octet	4 th Octet
Fixed	Fixed	Site Identifier	Host id
192	168	0 – 255	0 – 255

3.1.1. Site Identifier

Identifies the site location of the sub-systems and is defined in Table 7.

3.1.2. Sub-system

Defines the CNS/ATM Sub-system and is defined in Table 8.

3.1.3. Host identification

Identifies the host id (number) of the defined subnet. Hostname syntax and host id ranges are defined in section 0

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3.2. VLAN Definition

3.2.1. Internal CNS/ATM Sub-systems

The VLAN numbers for the Philippines CNS/ATM Sub-systems follow the network address third octet for Sub-system as defined in **Table 8** - Internal IP Network address plan for Operational CNS/ATM Sub-systems. To ensure consistency the same last three digits are implemented across all sites. To ensure further network segregation the most significant digit or left most forth digit is set to one, e.g. (1036) for Manila AT ATM OPS and two (2036) for remote sites.

3.2.2. WAN

VLAN numbers associated to the wide area network (WAN) connections have been assigned below one thousand and follow the site identifier number as defined above. Each site has two WAN VLAN numbers assigned and is defined in **Table 10 -** WAN IP Network address **plan**.

3.3. Site Network Identification

Table 7- Site Network Identifier

Site	Site Code	Site No	IP Network Address	Comment
Aparri	AP	2	10.02.XX.0/24	
Bacolod	BC	4	10.04.XX.0/24	
Baguio	BG	6	10.06.XX.0/24	
Basco	BS	8	10.08.XX.0/24	
Basilan	BL	10	10.10.XX.0/24	
Busuanga	US	12	10.12.XX.0/24	
Butuan	BU	14	10.14.XX.0/24	
Cagayan de oro	CG	16	10.16.XX.0/24	
Caticlan	MP	18	10.18.XX.0/24	
Cauayan	CY	20	10.20.XX.0/24	
Clark Tower	CR	22	10.22.XX.0/24	
Cotobato	СВ	24	10.24.XX.0/24	
Davao	DV	26	10.26.XX.0/24	
Dipolog	DP	28	10.28.XX.0/24	
Dumaguete	DG	30	10.30.XX.0/24	
General Santos (Tambler)	GS	32	10.32.XX.0/24	
Iliolo Tower	IL	34	10.34.XX.0/24	
Jolo	JO	36	10.36.XX.0/24	
Kalibo	KL	38	10.38.XX.0/24	
Laguindingan	LD	40	10.40.XX.0/24	
Laoag	LA	42	10.42.XX.0/24	
Legaspi	LG	44	10.44.XX.0/24	
Mactan	CE	46	10.46.XX.0/24	
Manila Annex	AN	48	10.48.XX.0/24	
Manila CAAP	CP	50	10.50.XX.0/24	
Manila Main Centre	MN	52	10.52.XX.0/24	
Manila Training Centre (TES)	TE	54	10.54.XX.0/24	
Manila DMZ		56	10.56.XX.0/24	
Mt Majic	MJ	58	10.58.XX.0/24	
Naga	WN	60	10.60.XX.0/24	

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Site	Site Code	Site No	IP Network Address	Comment
NAIA Tower (incl Radars)	NI	62	10.62.XX.0/24	
Palawan	PA	64	10.64.XX.0/24	
Plaridel	PL	66	10.66.XX.0/24	
Puerto Princesa	PP	68	10.68.XX.0/24	
Roxas	RX	70	10.70.XX.0/24	
San Fernando	SF	72	10.72.XX.0/24	
San Jose	SJ	74	10.74.XX.0/24	
Subic Bay	SB	76	10.76.XX.0/24	
Tacloban	TC	78	10.78.XX.0/24	
Tagaytay	TY	80	10.80.XX.0/24	
Tagbilaran	TG	82	10.82.XX.0/24	
Tuguegarao	TU	84	10.84.XX.0/24	
Zamboanga RCAG	ZA	86	10.86.XX.0/24	
Fort Bonifacio	FB	88	10.88.XX.0/24	
Manila HF	HF	90	10.90.XX.0/24	
Antique	AQ	92	10.92.XX.0/24	
Pasuquin	PS	94	10.94.XX.0/24	
Zamboanga Airport	ZB	96	10.96.XX.0/24	
SITA	ST	98	10.98.XX.0/24	
Reserved - Thales Melbourne	ZZ	250	10.250.XX.0/24	Thales ML Support

3.4. IP network allocation for CNS/ATM systems

Each CNS/ATM Sub-system has been allocated seven subnets per site. This allows for consistent IP subnets across the entire system. The following table describes the IP network address ranges for CNS/ATM System.

Note: The "XX" reference indicates this sub-system is present at multiple sites and follows Table 7- Site Network Identifier numbering.

Table 8 - Internal IP Network address plan for Operational CNS/ATM Sub-systems

CNS/ATM System	Network	Location	IP Network Address	VLAN ID	Comment
	Dataflow A		10. XX .8.0/24	1008	
	Dataflow B		10. XX .9.0/24	1009	
	Reserved		10. XX .10.0/24	1010	
ADS-B	Reserved		10. XX .11.0/24	1011	
	Monitoring		10. XX .12.0/24	1012	
	Reserved		10. XX .13.0/24	1013	
	Reserved		10. XX .14.0/24	1014	
	Public	ATMC	10. XX .15.0/24	1015	
	AISS Workstation with			1016	
	AMHS UA (via		10. XX .16.0/24		
	GEO1)Workstation				
AISS	Cluster	ATMC	10. XX .17.0/24	1017	
	Management	ATMC	10. XX .18.0/24	1018	
	Back up	ATMC	10. XX .19.0/24	1019	
	FW FAILOVER		10. XX .20.0/24	1020	
	Reserved		10. XX .21.0/24	1021	
AMHS	System LAN		10. XX .22.0/24	1022	

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CNS/ATM System	Network	Location	IP Network Address	VLAN ID	Comment
	SNL LAN		10. XX .23. 0/24	1023	
	Operation Subnet LAN		10. XX .24. 0/24	1024	
	CADAS Cross Link		10. XX .25. 0/24	1025	
	ATN Router Cross Link		10. XX .26. 0/24	1026	
	Spare LAN		10. XX .27.0/24	1027	
	Transit Network		10. XX .28.0/24	1028	
	RAR VPN Pool		10. XX .29.0/24	1029	
	AISS Workstation with		40 VV 20 0/24	1030	
	AMHS UA (via GEO2)		10. XX .30.0/24		
	Reserved		10. XX .31.0/24	1031	
	Reserved		10. XX .32.0/24	1032	
	Reserved		10. XX .33.0/24	1033	
ATIS	Reserved		10. XX .34.0/24	1034	
ATIS	Reserved		10. XX .35.0/24	1035	
	Reserved		10. XX .36.0/24	1036	
	Reserved		10. XX .37.0/24	1037	
	Reserved		10. XX .38.0/24	1038	
	OPS LAN (A & B)	ATMC	10. XX .36. 0/24	1036	
	SRVC LAN	ATMC	10. XX .37. 0/24	1037	
	SURV_LAN	ATMC	10. XX .38. 0/24	1038	
ATM	SURV_BYPASS	ATMC	10. XX .39. 0/24	1039	
	MAIN_IO LAN	ATMC	10. XX .40. 0/24	1040	
	CDP_LAN	ATMC	10. XX .41.0/24	1041	
	Reserved	ATMC	10. XX .42. 0/24	1042	
	Voice	TES	10. XX .43. 0/24	1043	
	RADAR MON LAN	RADAR MON LAN	10. XX .44. 0/24	1044	
	CTMS_TKSUP-DMZ		10. XX .45. 0/24	1045	
ATM(Reser	SUPPORT LAN		10. XX .46. 0/24	1046	
ved)	ATM BACKBONE		10. XX .47.0/24	1047	L3 Link from ATM to Backbone
	ATM MGMT		10. XX .48.0/24	1048	MGMT Subnet for ATM
	Reserved		10. XX .49.0/24	1049	
	Backbone LAN		10. XX .50.0/24	1050	
	Reserved		10. XX .51.0/24	1051	
	SUPPORT LAN		10. XX .52.0/24	1052	
AWOS	Reserved		10. XX .53.0/24	1053	
	Reserved		10. XX .54.0/24	1054	
	Reserved		10. XX .55.0/24	1055	
	Reserved		10. XX .56.0/24	1056	
OTMO	CTMS-BACKBONE	ATMC	10. XX .64.0/24	1064	
	CTMS-DMZ	ATMC	10. XX .65.0/24	1065	
	CTMS_SUPPORT	ATMC	10. XX .66.0/24	1066	IPSEC Support
CTMS	CTMS-SURVEILLANCE	ATMC	10. XX .67.0/24	1067	
	Reserved		10. XX .68.0/24	1068	
	Reserved		10. XX .69.0/24	1069	
	Reserved		10. XX .70.0/24	1070	
ERBS	Reserved		10. XX .78.0/24	1078	

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	Reserved Reserved Reserved		Address 10.XX.79.0/24	1079	
	Reserved Reserved		10.77.79.0/24		
	Reserved		10. XX .80.0/24	1080	
			10. XX .81.0/24	1080	
	Lacariad		10. XX .81.0/24	1081	
1	Reserved		10. XX .82.0/24	1082	
	Reserved				
	Reserved	ATMO	10. XX .84.0/24	1084	
	GSMS_WEB-DMZ	ATMC	10.52.85.0/24	1085	
	GSMS_INTERNAL	ATMC	10.52.86.0/24	1086	
	GSMS_FW_SYNC	ATMC	10.52.87.0/24	1087	
(->1///>	GSMS-Backbone	ATMC	10.52.88.0.24	1088	
<u> </u>	GSMS_WEB-FW	ATMC	10.52.89.0/24	1089	
(GSMS_SUPPORT	ATMC	10.52.90.0/24	1090	Not required by NEC
	Reserved		10.52.91.0/24	1091	
!	Reserved	ATMC	10.52.92.0/24	1092	
,	JPDP_BACKBONE	ATMC	10.52.93.0/24	1093	
!	Reserved		10. XX .94.0/24	1094	
JPDP I	Reserved		10. XX .95.0/24	1095	
	Reserved		10. XX .96.0/24	1096	
	Reserved		10. XX .97.0/24	1097	
,	JPDP SUPPORT		10.52.98.0/24	1098	
	MDPS MAIN	ATMC	10.52.99.0/24	1099	
	MDPS Backbone	ATMC	10.52.100.0/24	1100	
	MDPS_WAFS-DMZ	ATMC	10.52.101.0/24	1101	
	MDPS_MTSAT-DMZ	ATMC	10.52.102.0/24	1102	
	MDPS_SUPPORT	ATMC	10.52.103.0/24	1103	
	MDPS_MONITORING	711110	10.52.104.0/24	1104	1
	Reserved		10.52.105.0/24	1105	
	BACKBONE-A		10. XX .106.0/24	1106	
	BACKBONE-B		10. XX .107.0/24	1107	
	Radar-A		10. XX .108.0/24	1108	
	Radar-B		10. XX .109.0/24	1109	
	Microwave MUX		10. XX .109.0/24	1110	
	Reserved		10. XX .110.0/24	1111	
	SUPPORT		10. XX .111.0/24	1112	_
	GEO-1		10. XX .112.0/24	1113	_
	GEO-1		10. XX .113.0/24	1114	_
	AIRPORT		10. XX .114.0/24	1114	
I\/II I X					
	Reserved		10. XX .116.0/24	1116	
	Reserved	1	10. XX .117.0/24	1117	<u> </u>
	MGMT	1	10. XX .118.0/24	1118	1
<u> </u>	Dataflow A LAN		10. XX .120.0/24	0	
7	Dataflow B LAN		10. XX .121.0/24	1121	
	Radar Bypass		10. XX .122.0/24	1122	
RADAR	Reserved		10. XX .123.0/24	1123	
	Monitoring LAN		10. XX .124.0/24	1124	
	Reserved		10. XX .125.0/24	1125	
	Reserved		10. XX .126.0/24	1126	
(SPS- Internal	ATMC	10.52.127.0/24	1127	
	SPS-Backbone	ATMC	10.52.128.0/24	112	

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SPS-DMZ	CNS/ATM System	Network	Location	IP Network Address	VLAN ID	Comment
Reserved		SPS-DMZ	ATMC	10.52.129.0/24	1129	
Reserved		SPS-SUPPORT	ATMC	10.52.130.0/24	1130	
Reserved		Reserved		10.52.131.0/24	1131	
VHF MGMT_GEO1 10.XX.133.0/24 1133 Reserved 10.XX.135.0/24 1134 Reserved 10.XX.135.0/24 1135 Reserved 10.XX.135.0/24 1136 Reserved 10.XX.137.0/24 1137 Reserved 10.XX.138.0/24 1138 Reserved 10.XX.138.0/24 1139 Reserved 10.XX.140.0/24 1140 Reserved 10.XX.141.0/24 1141 BACKBONE ATMC 10.XX.143.0/24 1142 Reserved 10.XX.143.0/24 1144 Reserved 10.XX.143.0/24 1144 Reserved 10.XX.144.0/24 1144 Reserved 10.XX.144.0/24 1144 Reserved 10.XX.146.0/24 1144 Reserved 10.XX.149.0/24 1147 Reserved 10.XX.149.0/24 1147 Reserved 10.XX.149.0/24 1148 BACKBONE A 10.XX.149.0/24 1148 BACKBONE A 10.XX.150.0/24 1150		Reserved		10.52.132.0/24	1132	
MGMT_GEO2		Reserved		10.52.133.0/24	1133	
Reserved		MGMT_GEO1		10. XX .133.0/24	1133	
VHF Reserved		MGMT_GEO2		10. XX .134.0/24	1134	
Reserved		Reserved		10. XX .135.0/24	1135	
Reserved	VILE	Reserved		10. XX .136.0/24	1136	
Reserved	VIII	Reserved		10. XX .137.0/24	1137	
Reserved		Reserved		10. XX .138.0/24	1138	
Reserved		Reserved		10. XX .139.0/24	1139	
VRS Reserved R		Reserved		10. XX .140.0/24	1140	
Reserved		Reserved		10. XX .141.0/24	1141	
VRS Reserved 10.XX.144.0/24 1144 Reserved 10.XX.145.0/24 1145 Reserved 10.XX.146.0/24 1146 VRS SUPPORT 10.XX.148.0/24 1147 BACKBONE_A 10.XX.148.0/24 1148 BACKBONE_B 10.XX.149.0/24 1149 VSAT_CTMS 10.XX.150.0/24 1150 VSAT_CTMS 10.XX.155.0/24 1151 Reserved 10.XX.155.0/24 1152 Reserved 10.XX.153.0/24 1152 Reserved 10.XX.153.0/24 1155 Reserved 10.XX.155.0/24 1155 Reserved 10.XX.156.0/24 1156 BACKBONE ATMC 10.XX.156.0/24 1157 Reserved 10.XX.158.0/24 1156 BACKBONE ATMC 10.XX.159.0/24 1157 Reserved 10.XX.159.0/24 1157 Reserved 10.XX.160.0/24 1160 Reserved 10.XX.160.0/24 1161 VSCS SUPPORT 10.XX.160.0/24		BACKBONE	ATMC	10. XX .142.0/24	1142	
Reserved		Reserved		10. XX .143.0/24	1143	
Reserved	VRS	Reserved		10. XX .144.0/24	1144	
VRS_SUPPORT		Reserved		10. XX .145.0/24	1145	
VSAT(Internal) VSAT(Internal) WSAT_CTMS VSAT_CTMS VSAT_CTMS VSAT_CTMS VSAT_CTMS NGMT SUPPORT Reserved 10.XX.150.0/24 1153 Reserved 10.XX.155.0/24 1155 Reserved 10.XX.156.0/24 1156 BACKBONE ATMC 10.XX.156.0/24 1156 BACKBONE Reserved 10.XX.156.0/24 1158 Reserved 10.XX.159.0/24 1159 Reserved 10.XX.159.0/24 1159 Reserved 10.XX.159.0/24 1159 Reserved 10.XX.160.0/24 1160 Reserved 10.XX.160.0/24 1160 Reserved 10.XX.160.0/24 1161 VSCS_SUPPORT 10.XX.162.0/24 1162 ATM TES 10.54.162.0/24 1163 Reserved 10.XX.163.0/24 1163 Reserved 10.XX.165.0/24 1166 Reserved 10.XX.166.0/24 1166 Reserved 10.XX.166.0/24 1166 Reserved 10.XX.166.0/24 1166 Reserved 10.XX.169.0/24 1167 Reserved 10.XX.169.0/24 1169 Reserved 10.XX.169.0/24 1166 Reserved 10.XX.160.0/24 1166		Reserved		10. XX .146.0/24	1146	
VSAT(Internal) WSAT_CTMS VSAT_CTMS NON-XL150.0/24 VSAT_CTMS Reserved 10.XX.152.0/24 VSAT_CTMS Reserved 10.XX.153.0/24 VSAT_CTMS Reserved 10.XX.155.0/24 VSAT_CTMS Reserved 10.XX.155.0/24 VSAT_CTMS Reserved 10.XX.155.0/24 VSAT_CTMS Reserved 10.XX.157.0/24 VSAT_CTMS Reserved 10.XX.157.0/24 VSAT_CTMS Reserved 10.XX.158.0/24 VSAT_CTMS Reserved 10.XX.160.0/24 VSAT_CTMS VSAT_CTMS Reserved 10.XX.161.0/24 VSAT_CTMS VSAT_CTMS Reserved 10.XX.161.0/24 VSAT_CTMS V		VRS SUPPORT		10. XX .147.0/24	1147	
VSAT(Inter nal) WSAT_CTMS VSAT_CTMS VSAT_CTMS VSAT_CTMS 10.XX.150.0/24 1150 VSAT_CTMS 10.XX.151.0/24 1151 Reserved Reserved 10.XX.152.0/24 1152 Reserved 10.XX.153.0/24 1153 MGMT 10.XX.155.0/24 1155 Reserved 10.XX.155.0/24 1155 Reserved 10.XX.155.0/24 1155 Reserved 10.XX.155.0/24 1156 BACKBONE ATMC 10.XX.156.0/24 1157 Reserved 10.XX.158.0/24 1158 Reserved 10.XX.158.0/24 1159 Reserved 10.XX.150.0/24 1160 Reserved 10.XX.160.0/24 1161 VSCS_SUPPORT 10.XX.161.0/24 1161 VSCS_SUPPORT 10.XX.162.0/24 1162 RAR VPN Pool (AMHS) RAR VPN Pool (AMHS) Reserved 10.XX.163.0/24 1163 Reserved 10.XX.165.0/24 1166 Reserved 10.XX.165.0/24 1166 Reserved 10.XX.166.0/24 1166 Reserved 10.XX.168.0/24 1168 Reserved 10.XX.169.0/24 1169 Reserved 10.XX.170.0/24 1167 Reserved 10.XX.170.0/24 1167 TDS-Backbone1 ATMC 10.52.166.0/24 1166 TDS-Backbone2 ATMC 10.52.166.0/24 1167 TDS-Support ATMC 10.52.166.0/24 1168		BACKBONE A		10. XX .148.0/24	1148	
VSAT(Internal) VSAT_CTMS 10.XX.151.0/24 1151 Reserved 10.XX.152.0/24 1152 Reserved 10.XX.153.0/24 1153 MGMT 10.XX.154.0/24 1154 SUPPORT 10.XX.155.0/24 1155 Reserved 10.XX.155.0/24 1155 BACKBONE ATMC 10.XX.157.0/24 1157 Reserved 10.XX.159.0/24 1158 Reserved 10.XX.169.0/24 1159 Reserved 10.XX.160.0/24 1160 Reserved 10.XX.161.0/24 1161 VSCS_SUPPORT 10.XX.162.0/24 1162 RATM TES 10.54.162.0/24 1162 RAR VPN Pool (AMHS) 10.XX.163.0/24 1163 Reserved 10.XX.166.0/24 1164 Reserved 10.XX.166.0/24 1165 Reserved 10.XX.166.0/24 1166 Reserved 10.XX.169.0/24 1167 Reserved 10.XX.169.0/24 1167 Reserved 10.XX.169.0/24 11				10. XX .149.0/24	1149	
VSAT(Internal) VSAT_CTMS 10.XX.151.0/24 1151 Reserved 10.XX.152.0/24 1152 Reserved 10.XX.153.0/24 1153 MGMT 10.XX.154.0/24 1154 SUPPORT 10.XX.155.0/24 1155 Reserved 10.XX.155.0/24 1155 BACKBONE ATMC 10.XX.157.0/24 1157 Reserved 10.XX.159.0/24 1158 Reserved 10.XX.169.0/24 1159 Reserved 10.XX.160.0/24 1160 Reserved 10.XX.161.0/24 1161 VSCS_SUPPORT 10.XX.162.0/24 1162 RATM TES 10.54.162.0/24 1162 RAR VPN Pool (AMHS) 10.XX.163.0/24 1163 Reserved 10.XX.166.0/24 1164 Reserved 10.XX.166.0/24 1165 Reserved 10.XX.166.0/24 1166 Reserved 10.XX.169.0/24 1167 Reserved 10.XX.169.0/24 1167 Reserved 10.XX.169.0/24 11				10.XX.150.0/24		
Reserved	VSAT(Inter					
Reserved				10.XX.152.0/24		
MGMT	,					
Reserved		MGMT		10. XX .154.0/24	1154	
VSCS BACKBONE ATMC 10.XX.157.0/24 1157 Reserved 10.XX.158.0/24 1158 Reserved 10.XX.159.0/24 1159 Reserved 10.XX.160.0/24 1160 Reserved 10.XX.161.0/24 1161 VSCS_SUPPORT 10.XX.162.0/24 1162 ATM TES 10.54.162.0/24 1162 RAR VPN Pool (AMHS) 10.XX.163.0/24 1163 Reserved 10.XX.165.0/24 1164 Reserved 10.XX.165.0/24 1165 VPN Reserved 10.XX.165.0/24 1166 Reserved 10.XX.166.0/24 1166 Reserved 10.XX.169.0/24 1168 Reserved 10.XX.169.0/24 1169 Reserved 10.XX.169.0/24 1169 Reserved 10.XX.170.0/24 1170 CBT CBT_MAIN TES 10.54.164.0/24 1164 TDS-Backbone1 ATMC 10.52.165.0/24 1165 TDS-Backbone2 ATMC 10.52.166.0/24		SUPPORT		10. XX .155.0/24	1155	
VSCS Reserved 10.XX.158.0/24 1158 Reserved 10.XX.159.0/24 1159 Reserved 10.XX.160.0/24 1160 Reserved 10.XX.161.0/24 1161 VSCS_SUPPORT 10.XX.162.0/24 1162 ATM TES 10.54.162.0/24 1162 RAR VPN Pool (AMHS) 10.XX.163.0/24 1163 Reserved 10.XX.165.0/24 1164 Reserved 10.XX.165.0/24 1165 VPN Reserved 10.XX.166.0/24 1166 Reserved 10.XX.169.0/24 1167 Reserved 10.XX.169.0/24 1168 Reserved 10.XX.170.0/24 1169 Reserved 10.XX.170.0/24 1170 CBT CBT_MAIN TES 10.54.163.0/24 1163 CBT_SUPPORT 10.54.164.0/24 1164 TDS-Backbone1 ATMC 10.52.165.0/24 1165 TDS-Backbone2 ATMC 10.52.166.0/24 1166 TDS-Support ATMC 10.52.168.0/24 <td></td> <td>Reserved</td> <td></td> <td>10.XX.156.0/24</td> <td>1156</td> <td></td>		Reserved		10. XX .156.0/24	1156	
VSCS Reserved 10.XX.159.0/24 1159 Reserved 10.XX.160.0/24 1160 Reserved 10.XX.161.0/24 1161 VSCS_SUPPORT 10.XX.162.0/24 1162 ATM TES 10.54.162.0/24 1162 RAR VPN Pool (AMHS) 10.XX.163.0/24 1163 Reserved 10.XX.164.0/24 1164 Reserved 10.XX.165.0/24 1165 VPN Reserved 10.XX.166.0/24 1166 Reserved 10.XX.168.0/24 1167 Reserved 10.XX.169.0/24 1168 Reserved 10.XX.170.0/24 1169 Reserved 10.XX.170.0/24 1169 Reserved 10.XX.163.0/24 1163		BACKBONE	ATMC	10. XX .157.0/24	1157	
Reserved		Reserved		10. XX .158.0/24	1158	
Reserved	VSCS	Reserved		10. XX .159.0/24	1159	
VSCS_SUPPORT		Reserved		10. XX .160.0/24	1160	
ATM TES 10.54.162.0/24 1162 RAR VPN Pool (AMHS) 10.XX.163.0/24 1163 Reserved 10.XX.164.0/24 1164 Reserved 10.XX.165.0/24 1165 Reserved 10.XX.166.0/24 1166 Reserved 10.XX.167.0/24 1167 Reserved 10.XX.168.0/24 1168 Reserved 10.XX.169.0/24 1169 Reserved 10.XX.169.0/24 1169 Reserved 10.XX.170.0/24 1170 CBT CBT CBT_MAIN TES 10.54.163.0/24 1163 CBT_SUPPORT 10.54.164.0/24 1164 TDS-Backbone1 ATMC 10.52.165.0/24 1165 TDS-Backbone2 ATMC 10.52.166.0/24 1166 TDS-DMZ ATMC 10.52.166.0/24 1167 TDS-Support ATMC 10.52.168.0/24 1167		Reserved		10. XX .161.0/24	1161	
RAR VPN Pool (AMHS) Reserved R		VSCS_SUPPORT		10. XX .162.0/24	1162	
Reserved		ATM	TES	10.54.162.0/24	1162	
VPN Reserved 10.XX.165.0/24 1165 Reserved 10.XX.166.0/24 1166 Reserved 10.XX.167.0/24 1167 Reserved 10.XX.168.0/24 1168 Reserved 10.XX.169.0/24 1169 Reserved 10.XX.170.0/24 1170 CBT_MAIN TES 10.54.163.0/24 1163 CBT_SUPPORT 10.54.164.0/24 1164 TDS-Backbone1 ATMC 10.52.165.0/24 1165 TDS-Backbone2 ATMC 10.52.166.0/24 1166 TDS-DMZ ATMC 10.52.167.0/24 1167 TDS-Support ATMC 10.52.168.0/24 1168		RAR VPN Pool (AMHS)		10. XX .163.0/24	1163	
VPN Reserved 10.XX.166.0/24 1166 Reserved 10.XX.167.0/24 1167 Reserved 10.XX.168.0/24 1168 Reserved 10.XX.169.0/24 1169 Reserved 10.XX.170.0/24 1170 CBT_MAIN TES 10.54.163.0/24 1163 CBT_SUPPORT 10.54.164.0/24 1164 TDS-Backbone1 ATMC 10.52.165.0/24 1165 TDS-Backbone2 ATMC 10.52.166.0/24 1166 TDS-DMZ ATMC 10.52.167.0/24 1167 TDS-Support ATMC 10.52.168.0/24 1168		Reserved		10. XX .164.0/24	1164	
Reserved		Reserved		10. XX .165.0/24	1165	
Reserved 10.XX.168.0/24 1168 Reserved 10.XX.169.0/24 1169 Reserved 10.XX.170.0/24 1170 CBT CBT_MAIN TES 10.54.163.0/24 1163 CBT_SUPPORT 10.54.164.0/24 1164 TDS-Backbone1 ATMC 10.52.165.0/24 1165 TDS-Backbone2 ATMC 10.52.166.0/24 1166 TDS-DMZ ATMC 10.52.167.0/24 1167 TDS-Support ATMC 10.52.168.0/24 1168	VPN	Reserved		10. XX .166.0/24	1166	
Reserved 10.XX.169.0/24 1169 Reserved 10.XX.170.0/24 1170 CBT CBT_MAIN TES 10.54.163.0/24 1163 CBT_SUPPORT 10.54.164.0/24 1164 TDS-Backbone1 ATMC 10.52.165.0/24 1165 TDS-Backbone2 ATMC 10.52.166.0/24 1166 TDS-DMZ ATMC 10.52.167.0/24 1167 TDS-Support ATMC 10.52.168.0/24 1168		Reserved		10. XX .167.0/24	1167	
Reserved 10.XX.169.0/24 1169 Reserved 10.XX.170.0/24 1170 CBT CBT_MAIN TES 10.54.163.0/24 1163 CBT_SUPPORT 10.54.164.0/24 1164 TDS-Backbone1 ATMC 10.52.165.0/24 1165 TDS-Backbone2 ATMC 10.52.166.0/24 1166 TDS-DMZ ATMC 10.52.167.0/24 1167 TDS-Support ATMC 10.52.168.0/24 1168				10. XX .168.0/24		
Reserved 10.XX.170.0/24 1170 CBT_MAIN TES 10.54.163.0/24 1163 CBT_SUPPORT 10.54.164.0/24 1164 TDS-Backbone1 ATMC 10.52.165.0/24 1165 TDS-Backbone2 ATMC 10.52.166.0/24 1166 TDS-DMZ ATMC 10.52.167.0/24 1167 TDS-Support ATMC 10.52.168.0/24 1168				10. XX .169.0/24		
CBT CBT_MAIN TES 10.54.163.0/24 1163 CBT_SUPPORT 10.54.164.0/24 1164 TDS-Backbone1 ATMC 10.52.165.0/24 1165 TDS-Backbone2 ATMC 10.52.166.0/24 1166 TDS-DMZ ATMC 10.52.167.0/24 1167 TDS-Support ATMC 10.52.168.0/24 1168				10. XX .170.0/24		
CBT_SUPPORT 10.54.164.0/24 1164 TDS-Backbone1 ATMC 10.52.165.0/24 1165 TDS-Backbone2 ATMC 10.52.166.0/24 1166 TDS TDS-DMZ ATMC 10.52.167.0/24 1167 TDS-Support ATMC 10.52.168.0/24 1168	CDT		TES	10.54.163.0/24		
TDS-Backbone1 ATMC 10.52.165.0/24 1165 TDS-Backbone2 ATMC 10.52.166.0/24 1166 TDS-DMZ ATMC 10.52.167.0/24 1167 TDS-Support ATMC 10.52.168.0/24 1168	CRI					
TDS-Backbone2 ATMC 10.52.166.0/24 1166 TDS-DMZ ATMC 10.52.167.0/24 1167 TDS-Support ATMC 10.52.168.0/24 1168		_	ATMC			
TDS						
TDS-Support ATMC 10.52.168.0/24 1168	TDS					
Reserved 10.52.169.0/24 1169		Reserved	_		1169	

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CNS/ATM System	Network	Location	IP Network Address	VLAN ID	Comment
	Reserved		10.52.170.0/24	1170	
	Reserved	ATMC	10.52.171.0/24	1171	
	Reserved		10.52.172.0/24	1172	
	Reserved		10.52.173.0/24	1173	
Billing	Reserved		10.52.174.0/24	1174	
	Reserved		10.52.175.0/24	1175	
	Reserved		10.52.176.0/24	1176	
	Reserved		10.52.177.0/24	1177	
	DMZ-AISS_IBS	ATMC	10. XX .178.0/24	1178	AISS VLAN 6 DMZ-IBS
	DMZ-AISS_EAD	ATMC	10. XX .179.0/24	1179	AISS VLAN 7 DMZ-EAD
	DMZ_AISS_AISS	ATMC	10. XX .180.0/24	1180	AISS VLAN 8 DMZ-AISS
AISS 2	AISS-BB Router A	ATMC	10. XX .181.0/24	1181	AISS – BB Router A
	Reserved	ATMC	10.XX.182.0/24	1182	AISS – BB Router B
	AISS Support	ATMC	10. XX .183.0/24	1183	
	AISS (MAP/CHARTING, EAIP, FAT CLIENTS)	ATMC	10.XX.184.0/24	1184	
	ADEW LAN	ATMC	10.52.185.0/24	1185	
	ADEW NAS LAN	ATMC	10.52.186.0/24	1186	
ADEW	ADEW DMZ LAN	ATMC	10.52.187.0/24	1187	
	ADEW SUPPORT	ATMC	10.52.188.0/24	1188	
	ADEW BACKBONE	ATMC	10.52.189.0/24	1189	
	Reserved			1190	
	Reserved			1191	
Test Platform	OPS Test Platform	ATMC	10.52.190.0/24	1190	

where XX defines the site network identifier

Note: CNS/ATM Systems installed outside Manila (ATMC) will deploy the same last three VLAN ID digits but the most significant digit will be two (2) instead of one (1), i.e. ATM OPS LAN (A&B) is VLAN ID 1036 in Manila and 2036 in Kalibo.

3.4.1. Subsystem Link Network Identification

Each subsystem is assigned a pool of 169.254.0.0/16 addresses for internal point to point link networks. It is the responsibility of each subsystem to assign ranges from their assignment and not to advertise these addresses.

Table 9 - Subsystem Link Network Assignments

CNS/ATM System	Network	Location	IP Network Address	Comment
	Reserved		169.254.1. XX /24	
ADEW	Reserved		169.254.2. XX /24	
	Reserved		169.254.3. XX /24	

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CNS/ATM System	Network	Location	IP Network Address	Comment
	Reserved		169.254.4. XX /24	
	Reserved		169.254.5. XX /24	
	Reserved		169.254.6. XX /24	
	Reserved		169.254.7. XX /24	
	Reserved		169.254.8. XX /24	
	Reserved		169.254.9. XX /24	
	Reserved		169.254.10. XX /24	
ADSB	Reserved		169.254.11. XX /24	
	Reserved		169.254.12. XX /24	
	Reserved		169.254.13. XX /24	
	Reserved		169.254.14. XX /24	
	Reserved		169.254.15. XX /24	
	Reserved		169.254.16. XX /24	
	Reserved		169.254.17. XX /24	
AISS	Reserved		169.254.18. XX /24	
7 0 0	Reserved		169.254.19. XX /24	
	Reserved		169.254.20. XX /24	
	Reserved		169.254.21. XX /24	
	Reserved		169.254.22. XX /24	
	Reserved		169.254.23. XX /24	
	Reserved		169.254.24. XX /24	
AMHS	Reserved		169.254.25. XX /24	
AIVII 10	Reserved		169.254.26. XX /24	
	Reserved		169.254.27. XX /24	
	Reserved		169.254.28. XX /24	
	Reserved		169.254.29. XX /24	
	Reserved		169.254.30. XX /24	
	Reserved		169.254.31. XX /24	
ATIS	Reserved		169.254.32. XX /24	
ATIS	Reserved		169.254.33. XX /24	
	Reserved		169.254.34. XX /24	
			169.254.35. XX /24	
	Reserved		169.254.36. XX /24	
	Reserved		169.254.36. XX /24	
	Reserved		169.254.37. XX /24	
A T. A	Reserved			
ATM	Reserved		169.254.39. XX /24	
	Reserved		169.254.40. XX /24 169.254.41. XX /24	
	Reserved			
	Reserved		169.254.42. XX /24	
	Reserved		169.254.43. XX /24	
	Reserved		169.254.44. XX /24	-
ATM(Reser	Reserved		169.254.45. XX /24	+
ved)	Reserved		169.254.46. XX /24	-
,	Reserved		169.254.47. XX /24	-
	Reserved		169.254.48. XX /24	+
	Reserved		169.254.49. XX /24	+
	Reserved		169.254.50. XX /24	
	Reserved		169.254.51. XX /24	
AWOS	Reserved		169.254.52. XX /24	
	Reserved		169.254.53. XX /24	
	Reserved		169.254.54. XX /24	

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CNS/ATM System	Network	Location	IP Network Address	Comment
,	Reserved		169.254.55. XX /24	
	Reserved		169.254.56. XX /24	
	Reserved		169.254.57. XX /24	
	Reserved		169.254.58. XX /24	
	Reserved		169.254.59. XX /24	
CTMS	Reserved		169.254.60. XX /24	
CTIVIS	Reserved		169.254.61. XX /24	
	Reserved		169.254.62. XX /24	
	Reserved		169.254.63. XX /24	
	Reserved	DMZ	169.254.64. XX /24	Firewall state and failover links.
	Reserved		169.254.65. XX /24	
	Reserved		169.254.66. XX /24	
WEB	Reserved		169.254.67. XX /24	
SERVERS	Reserved		169.254.68. XX /24	
(DMZ)	Reserved		169.254.69. XX /24	
` /	Reserved		169.254.70. XX /24	
	Reserved		169.254.71. XX /24	
	Reserved		169.254.72. XX /24	
	Reserved		169.254.73. XX /24	
	Reserved		169.254.74. XX /24	
	Reserved		169.254.75. XX /24	
	Reserved		169.254.76. XX /24	
ERBS	Reserved		169.254.77. XX /24	
LINDO	Reserved		169.254.78. XX /24	
	Reserved		169.254.79. XX /24	
	Reserved		169.254.80. XX /24	
	Reserved		169.254.81. XX /24	
	Reserved		169.254.82. XX /24	
	Reserved		169.254.83. XX /24	
GSMS	Reserved		169.254.84. XX /24	
COIVIC	Reserved		169.254.85. XX /24	
	Reserved		169.254.86. XX /24	
	Reserved		169.254.87. XX /24	
	Reserved		169.254.88. XX /24	
	Reserved		169.254.89. XX /24	
	Reserved		169.254.90. XX /24	
JPDP	Reserved		169.254.91 XX /24	
01 01	Reserved		169.254.92. XX /24	
	Reserved		169.254.93. XX /24	
	Reserved		169.254.94. XX /24	
	Reserved		169.254.95. XX /24	
	Reserved		169.254.96. XX /24	
	Reserved		169.254.90. XX /24	
MDPS	Reserved		169.254.98. XX /24	
ועוטו ט	Reserved		169.254.99. XX /24	
	Reserved		169.254.100. XX /24	
	Reserved		169.254.100. XX /24	
	Reserved		169.254.101. XX /24	
Microwave	Reserved		169.254.102. XX /24	
wiiciowave	Reserved		169.254.103. XX /24	
	I/G2GIVG0		103.204.104.	

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CNS/ATM System	Network	Location	IP Network Address	Comment
	Reserved		169.254.105. XX /24	
	Reserved		169.254.106. XX /24	
	Reserved		169.254.107. XX /24	
	Reserved		169.254.108. XX /24	
	Reserved		169.254.109. XX /24	
	Reserved		169.254.110. XX /24	
B 41 137	Reserved		169.254.111. XX /24	
MUX	Reserved		169.254.112. XX /24	
	Reserved		169.254.113. XX /24	
	Reserved		169.254.114. XX /24	
	Reserved		169.254.115. XX /24	
	Reserved		169.254.116. XX /24	
	Reserved		169.254.117. XX /24	
RADAR	Reserved		169.254.118. XX /24	
10.27	Reserved		169.254.119. XX /24	
	Reserved		169.254.120. XX /24	
	Reserved		169.254.121. XX /24	
	Reserved		169.254.122. XX /24	
	Reserved		169.254.123. XX /24	
	Reserved		169.254.124. XX /24	
SPS (SAR)	Reserved		169.254.125. XX /24	
OI O (OAIT)	Reserved		169.254.126. XX /24	
	Reserved		169.254.127. XX /24	
	Reserved		169.254.128. XX /24	
	Reserved		169.254.129. XX /24	
	Reserved		169.254.130. XX /24	
	Reserved		169.254.131. XX /24	
VHF	Reserved		169.254.131. XX /24	
VIII	Reserved		169.254.133. XX /24	
	Reserved		169.254.134. XX /24	
	Reserved		169.254.135. XX /24	
			169.254.135. XX /24	
	Reserved		169.254.136. XX /24	
	Reserved		169.254.136. XX /24	
VDC	Reserved		169.254.137. XX /24	
VRS	Reserved		169.254.139. XX /24	
	Reserved		169.254.140. XX /24	
	Reserved			
	Reserved		169.254.141. XX /24 169.254.142. XX /24	
	Reserved		169.254.142. XX /24	
	Reserved			
\/CAT/L-(-	Reserved		169.254.144. XX /24	
VSAT(Inter	Reserved		169.254.145. XX /24	
nal)	Reserved		169.254.146. XX /24	
	Reserved		169.254.147. XX /24	
	Reserved		169.254.148. XX /24	
	Reserved		169.254.149 XX /24	
	Reserved		169.254.150. XX /24	
	Reserved		169.254.151. XX /24	
VSCS	Reserved		169.254.152. XX /24	
	Reserved		169.254.153. XX /24	
	Reserved		169.254.154. XX /24	

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CNS/ATM System	Network	Location	IP Network Address	Comment
	Reserved		169.254.155. XX /24	
	Reserved		169.254.156. XX /24	
	Reserved		169.254.157. XX /24	
	Reserved		169.254.158. XX /24	
	Reserved		169.254.159. XX /24	
	Reserved		169.254.160. XX /24	
VDN	Reserved		169.254.161. XX /24	
VPN	Reserved		169.254.162. XX /24	
	Reserved		169.254.163. XX /24	
	Reserved		169.254.164. XX /24	
	Reserved		169.254.165. XX /24	
	Reserved		169.254.166. XX /24	
	Reserved		169.254.167. XX /24	
CBT	Reserved		169.254.168. XX /24	
TDS	Reserved		169.254.169. XX /24	
Billing	Reserved		169.254.170. XX /24	

3.5. IP Networks

3.5.1. WAN IP Networks

Each site has two WAN subnets assigned to it. To logically distinguish a WAN IP network compared to an internal IP network, IPv4 class C addressing scheme has been selected. Similar to the class A addressing scheme for internal networks, the 3rd octet is used for the site identifier. The VLAN ID matches the 3rd Octet but with an offset of one hundred (100).

Table 10 - WAN IP Network address plan

CNS/AT M System	Location	Building	Site Code	Site No	Network	IP Address	VL AN ID	Comment
					AP_WAN_A	192.168.2.0/24	102	
	APARRI	RCAG/RADAR	AP	02				
	AFARRI	RCAG/RADAR	AF	02	AP_WAN_B	192.168.3.0/24	103	
		AIRPORT			BC_WAN_A	192.168.4.0/24	104	
	BACOLOD		ВС	04				
WAN	BACOLOD	RCAG/RADAR	ВС	04	BC_WAN_B	192.168.5.0/24	105	
		AIRPORT			BG _WAN_A	192.168.6.0/24	106	
	BAGUIO		BG	06				
		Reserved			BG _WAN_B	192.168.7.0/24	107	

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CNS/AT M System	Location	Building	Site Code	Site No	Network	IP Address	VL AN ID	Comment
		Reserved			BS _WAN_A	192.168.8.0/24	108	
	BASCO	AIRPORT	BS	08	BS _WAN_B	192.168.9.0/24	109	
					BL _WAN_A	192.168.10.0/2 4	110	
	BASILAN	Reserved	BL	10	BL _WAN_B	192.168.11.0/2 4	111	
		Reserved			US _WAN_A	192.168.12.0/2 4	112	
	BUSUANGA	AIRPORT	US	12	US_WAN_B	192.168.13.0/2 4	113	
		Reserved			BU _WAN_A	192.168.14.0/2 4	114	
	BUTUAN	AIRPORT	BU	14	BU _WAN_B	192.168.15.0/2 4	115	
					CG _WAN_A	192.168.16.0/2 4	116	
	CAGAYAN DE ORO	Reserved	CG	16	CG _WAN_B	192.168.17.0/2 4	117	
					MP _WAN_A	192.168.18.0/2 4	118	
	CATICLAN	AIRPORT	MP	18	MP _WAN_B	192.168.19.0/2 4	119	
					CY_WAN_A	192.168.20.0/2 4	120	
	CAUAYAN	AIRPORT	CY	20	CY_WAN_B	192.168.21.0/2 4	121	
					CR _WAN_A	192.168.22.0/2 4	122	
	CLARK TOWER	AIRPORT	CR	22	CR _WAN_B	192.168.23.0/2 4	123	

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CNS/AT M System	Location	Building	Site Code	Site No	Network	IP Address	VL AN ID	Comment
		Reserved			CB _WAN_A	192.168.24.0/2 4	124	
	СОТОВАТО	AIRPORT	СВ	24	CB_WAN_B	192.168.25.0/2 4	125	
		AIRPORT			DV _WAN_A	192.168.26.0/2 4	126	
	DAVAO	RCAG/RADAR	DV	26	DV _WAN_B	192.168.27.0/2 4	127	
					DP _WAN_A	192.168.28.0/2 4	128	
	DIPOLOG	AIRPORT	DP	28	DP _WAN_B	192.168.29.0/2 4	129	
	DUMAGUET	AIRPORT			DG _WAN_A	192.168.30.0/2 4	130	
	E	Reserved	DG	DG 30	DG _WAN_B	192.168.31.0/2 4	131	
	OFNEDAL	AIRPORT			GS_WAN_A	192.168.32.0/2 4	132	
	GENERAL SANTOS	Reserved	GS	32	GS_WAN_B	192.168.33.0/2 4	133	
					IL _WAN_A	192.168.34.0/2 4	134	
	ILOILO	AIRPORT	IL	34	IL _WAN_B	192.168.35.0/2 4	135	
		Reserved			JO _WAN_A	192.168.36.0/2 4	136	
	JOLO	AIRPORT	JO	JO 36	JO _WAN_B	192.168.37.0/2 4	137	
	KALIBO	AIRPORT	KL	38	KL_WAN_A	192.168.38.0/2	138	

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CNS/AT M System	Location	Building	Site Code	Site No	Network	IP Address	VL AN ID	Comment
						4		
		RCAG/RADAR			KL _WAN_B	192.168.39.0/2	139	
	LAGUINDIN	AIRPORT			LD _WAN_A	192.168.40.0/2 4	140	
	GAN	Reserved	LD	40	LD _WAN_B	192.168.41.0/2 4	141	
		AIRPORT			LA _WAN_A	192.168.42.0/2 4	142	
	LAOAG	RCAG/RADAR	LD	42	LA _WAN_B	192.168.43.0/2 4	143	
		AIRPORT			LG _WAN_A	192.168.44.0/2 4	144	
	LEGAZPI	Reserved	LG	44	LG _WAN_B	192.168.45.0/2	145	
		AIRPORT			CE _WAN_A	192.168.46.0/2 4	146	
	MACTAN	RCAG/RADAR	CE	46	CE _WAN_B	192.168.47.0/2 4	147	
	MANILA ANNEX			48	Reserved			
	MANILA CAAP			50	Reserved			
					MN_WAN_A	192.168.52.0/2 4	152	
	MANILA	ATMC	MN	52	MN_WAN_B	192.168.53.0/2 4	153	
	MANILA TRAINING CENTRE			54	Reserved			

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CNS/AT M System	Location	Building	Site Code	Site No	Network	IP Address	VL AN ID	Comment
	MANILA DMZ			56	Reserved			
		Reserved			MJ _WAN_A	192.168.58.0/2 4	158	
	MT MAJIC	RADAR	MJ	58	MJ _WAN_B	192.168.59.0/2 4	159	
		Reserved			NG_WAN_A	192.168.60.0/2 4	160	
	NAGA	AIRPORT	NG	60	NG_WAN_B	192.168.61.0/2 4	161	
		NAIA TWR			NI_WAN_A	192.168.62.0/2 4	162	
	NAIA	NAIA1 TWR	NI	62	NI_WAN_B	192.168.63.0/2 4	163	
					PA_WAN_A	192.168.64.0/2 4	164	
	PALAWAN	RADAR	PA	64	PA_WAN_B	192.168.65.0/2 4	165	
		Reserved			PL_WAN_A	192.168.66.0/2 4	166	
	PLARIDEL	AIRPORT	PL	66	PL_WAN_B	192.168.67.0/2	167	
					PP_WAN_A	192.168.68.0/2 4	168	
	PUERTO PRINCESS	AIRPORT	PP	68	PP_WAN_B	192.168.69.0/2 4	169	
		D				400 400 70 0/5	470	
		Reserved			RX_WAN_A	192.168.70.0/2 4	170	
	ROXAS	AIRPORT	RX	70	RX_WAN_B	192.168.71.0/2 4	171	

Entity Identifier	Entity Identifier Business Identifier			
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CNS/AT M System	Location	Building	Site Code	Site No	Network	IP Address	VL AN ID	Comment
	SAN	Reserved			SF_WAN_A	192.168.72.0/2 4	172	
	FERNARDO	AIRPORT	SF	72	SF_WAN_B	192.168.73.0/2 4	173	
		Reserved			SJ_WAN_A	192.168.74.0/2 4	174	
	SAN JOSE	AIRPORT	SJ	74	SJ_WAN_B	192.168.75.0/2 4	175	
		AIRPORT			SB_WAN_A	192.168.76.0/2 4	176	
	SUBIC BAY	Reserved	SB	76	SB_WAN_B	192.168.77.0/2 4	177	
		AIRPORT			TC _WAN_A	192.168.78.0/2 4	178	
	TACLOBAN	Reserved	тс	TC 78	TC _WAN_B	192.168.79.0/2 4	179	
		TX				400 400 00 0/0	400	
		1.7			TY _WAN_A	192.168.80.0/2 4	180	
	TAGAYTAY	RX	TY	80	TY _WAN_B	192.168.81.0/2	181	
		Reserved			TG _WAN_A	192.168.82.0/2 4	182	
	TAGBILARA N	AIRPORT	TG	82	TG _WAN_B	192.168.83.0/2 4	183	
		Reserved			TU _WAN_A	192.168.84.0/2 4	184	
	TUGUEGAR AO	AIRPORT	TU	84	TU _WAN_B	192.168.85.0/2 4	185	
	74450444	DOAG/DADAE	7.	00	70 10/02: 0	400 400 00 0/5	400	
	ZAMBOANG	RCAG/RADAR	ZA	86	ZA _WAN_A	192.168.86.0/2	186	

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CNS/AT M System	Location	Building	Site Code	Site No	Network	IP Address	VL AN ID	Comment
	Α					4		
					ZA _WAN_B	192.168.87.0/2 4	187	
				88	FB_WAN_A	192.168.88.0/2 4	188	
	FORT	HF TX	FB					
	BONIFACIO	ПГІЛ	ГБ		FB_WAN_B	192.168.89.0/2 4	189	
							_	
	Manila AFC	AFC	AF	98	AF_WAN_A	192.168.98.0/2 4		

3.5.2. Backbone

Transport Networks are used to transfer data between geographically or logically separated sub systems. The Transport Network is composed of an OSI layer 3 backbone, routing data between sub system local and wide area layer 2 networks.

The network backbone interconnects the various sub-systems. The backbone is a high speed Ethernet layer 3 router and firewall. The backbone is located in the Manila ATM Centre.

VLAN CNS/ATM Location Building Site Site Comm **IP Address** Network System Code No ID ent ATMC Backbone A 192.168.100.0/ 200 24 Network **ATMC** 100 MN Backbone 192.168.101.0/ Backbone_B 201 **ATMC** 24

Table 11 - IP Network address plan for Backbone

3.5.3. Web Servers

The web server sub-system provides the aeronautical user community with timely, accurate and safe access to aeronautical information and services through the internet.

The Web Services System provides web proxy services for the

- Aeronautical Information Services System (AISS)
- Search Planning (SPS) system
- GNSS Signal Monitoring System (GSMS)

Table 12 - IP Network address plan for Webservers

CNS/ATM System	Network	Location	IP Network address	VLAN ID	Comment
WEB SERVERS (DMZ)	DMZ_MNGT	DMZ	10.56.71.0/24	1071	Management Network for main DMZ equipment
(DIVIZ)	DMZ_MNGT_SUP	DMZ	10.56.72.0/24	1072	Management

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		Network for Remote
		Support

CNS/ATM System	Network	Location	IP Network address	VLAN ID	Comment
	DMZ_INSIDE	DMZ	10.56.73.0/24	1073	
	DMZ_OUTSIDE	DMZ	10.56.74.0/24	1074	
	DMZ_TRANSIT	DMZ	10.56.75.0/24	1075	
WEB SERVERS (DMZ)	DMZ_SUPPORT	DMZ	10.56.76.0/14	1076	Remote Support to management server network
	DMZ_MNGT_WS	DMZ	10.56.77.0/24	1077	Management Server to Management Workstation Network

3.6. IP network allocation for the TES systems

The following table describes the IP network addresses for the TES system:

Table 13 - IP Network address plan for TES systems

CNS/ATM System	Network	Location	IP Network Address	Comment
ATM	OPS LAN (A & B)	ATMC	10.54.36.0/24	VLAN ID:2036
	SRVC LAN	ATMC	10.54.37.0/24	VLAN ID:2037
	SURV LAN	ATMC	10.54.38.0/24	VLAN ID:2038
	SURV BYPASS	ATMC	10.54.39.0/24	VLAN ID:2039
	Reserved	ATMC	10.54.40.0/24	VLAN ID:2040
	Reserved	ATMC	10.54.41.0/24	VLAN ID:2041
	Voice sync	ATMC	10.54.42.0/24	VLAN ID:2042

3.7. IP network allocation for the external systems

The following table describes the IP network addresses for connection to external systems:

Table 14 - IP Network address plan for External Systems

CNS/ATM System	External System	Location	IP Network Address	Comment
AISS	EAD	DMZ	TBD	
AMHS	AFTN	ATMC	TBD	
	ATN G/G	ATIVIC	TBD	
ATM	ACARS	ATMC	TBD	
	ATN A/G		TBD	
MDPS	JDDS	DMZ	TBD	
	WAFS	DIVIZ	TBD	
SPS	HKMCC	DMZ	TBD	

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3.8. Definition of IP multicast addresses

The following table allocates IP multicast address ranges to Operational, Training and Evaluation CNS/ATM Sub-systems which use IP multicast communication. The "owner" of the IP multicast address is the system which generates the IP multicast data flow.

As with IPv4 class A and C address ranges the class D structure follows a consistent syntax.

The IP multicast address syntax is defined below:

1 st Octet	2 nd Octet	3 rd Octet	4 th Octet
Fixed	Source	System Instance	Data Flow
239	0 – 255	0 – 255	0 – 255

3.8.1. Source

The 2nd Octet Source identifier is a three digit number that identifies the "owner" of the multicast flow. Some examples are radar (140), ATM (1) and ADSB (144).

Note: Not all sub-systems require multicast communications but Table 16 has allocated source numbers anyway.

3.8.2. System Instance

The 3rd Octet identifies the System Instance of the multicast flow. This is used where multiple system types can exist within the one sub-system. Multiple instances could include main, backup or bypass systems.

3.8.3. Data Flow

The 4th Octet is used to identify the data flow. Typically Dataflow A is 1 and Dataflow B is 2. Both Radar and ADS-B Sub-systems follow this rule.

Table 15 - IP network multicast addresses for Operational & Simulation ATC Systems

CNS/ATM System	Description	IP Multicast address range	Comments
ATM – Operational (OPS)	OPS LAN (A&B)	239.1.10.101	
ATM – Simulation (SIM)	SIM LAN (A&B)	239.1.110.101	
ADS-B	Dataflow_A	239.144.230.1	
ADS-B	Dataflow_B	239.144.230.2	
RADAR	Dataflow_A	239.140.11.1	
RADAR	Dataflow_B	239.140.11.2	

For full detail of IP Multicast addresses refer to the PH-ATM Master IP Assignment (P_02)

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3.9. Hostname Syntax

The hostname syntax defines the rules in assigning a logical IP name to the equipment with a defined IP address. These rules provide consistent terminology across the various sub-systems and support efficient system of systems integration.

The hostname syntax is defined by the following structure:

Site ID	Sub-system ID	Function	Node Number	Node Type
aa	aa	aaa	aa	Aa

3.9.1. Site Identifier

Identifies the site for the equipment location. The two digit acronym follows the same syntax as defined in Table 7- Site Network Identifier.

3.9.2. Sub-system Identifier

Identifies the Philippines CNS/ATM Sub-system for the equipment. The two digit acronym is described in the table below:

Table 16 - CNS/ATM Sub-system Identifier

CNS/ATM System	Sub Function	System Identifier	Comments
ADEW		AW	
ADSB		AB	
AISS		Al	
AMHS		AM	
ATIS		AT	
ATM	ATMC Remote Sites TES AFC	OP RT TE AF	
AWOS			AWOS Sub-system identifier not used
CTMS		СТ	Supervision
WEB SERVERS		WS	
ERBS		ER	
GSMS		GS	
JPDP		JP	
MDPS		MD	
Microwave		MW	

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CNS/ATM System	Sub Function	System Identifier	Comments
MUX		MX	
RADAR		RD	
SPS (SAR)		SP	
VHF		VH	
VRS		VR	
VSAT(Internal)		VT	
		VS	
VSCS		СВ	
СВТ			
TDS		TD	
Billing		BL	

3.9.3. Function Identifier

The function identifier is a three digit acronym that describes the application function within a particular CNS/ATM Sub-system. The following table describes the function identifiers:

Table 17 - Function Identifier

CNS/ATM System	Function ID	Description	Comments
ADEW	WKS	ADEW Workstation	
ADEW	NAS	NAS Server	
ADSB	GRS	ADS-B Ground station	
ADSB	MON	LCMS or RCMS	
	VDB	Virtual Machine Database	
	WKS	Thin Client Workstation	
AISS	FWK	Fat Client Workstation	
	MWK	Map/Charting Workstation	
	AWK	eAIP Workstation	
	AID	AIDA-NG Server	
	ATN	Air Telecommunication Network	
A N 41 1 C	CAD	CADAS Server	
AMHS	CNM	CNMS Server	
	TRM	Terminal	
	OWP	Operator Work Position	
	CUA	User Agent Terminal	
ATIC	TBD		
ATIS	TBD		
	AFP	ADS-B Front Processor	
ATM	AMA	Approach Manager	
	AGP	Air Ground Data Processor	

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CNS/ATM System	Function ID	Description	Comments
•	ASP	Air Situation Playback	
		Processor	
	CDP	Communication Data	
		Processor	
	FCP	Flight Plan Conflict Function	
	FDP	Flight Plan Processor	
	MSP	Sensor Bypass Processor	
	MST	Multi-Sensor Tracking	
		Processor	
	REC	Recording Processor	
	RTP	Radar Track Processor	
	SGW	Sensor Gateway Processor	
	SNM	Safety Nets & Monitoring Processor	
	FCP	Flight Plan Conflict Function	
	EXC	Executive Controller	
	PLC	Planning Co-ordinator	
	FDO	Flight Data Operator	
	WSP	Watch Supervisor	
	TWR	Tower Controller	
	BRF	Observer	
	AMS	Observer	
	MON	Observer	
	FSS	Observer	
	TKS	Technical Supervisor	
	Reserved		
	Reserved		
	CDU	Central Data unit	
AWOS	ATI	ATIS	
	PSV	PORT SERVER	
CTMS	CTM	CTMS Server	Includes DMZ proxy
	SRV	RHEL Server	
WEB			
SERVERS	DMZ	Subsystem alias	DMZ name specific to a subsystem. Supports IP relocation.
EDDC	TBD		
ERBS	TBD		
COMO	TBD		
GSMS			
JPDP	TBD		
MDPS	TBD		
Microwave	IDU	IDU	
MUX	MUX		
RADAR	TBD		

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CNS/ATM System	Function ID	Description	Comments
	WKS	SPS Workstation	
SPS (SAR)	MON	SPS Monitoring Workstation	
	RCC	SPS RCC Server	
	TRS	Transmitter	
VHF	RCV	Receiver	
	TCV	Transceiver	
VRS	TBD		
VNO			
VSAT(Internal)	MDM	VSAT MODEM	
VOAT (IIIIeIIIai)			
VSCS	TBD		
V3C3			
СВТ	WKS	Workstation	
ОВТ			
TDS	NTP	Network Time Protocol	
100			
Billing	BIL	Billing Server	
Dilling			
Network	NET	Network equipment	
INCLINOIN			

3.9.4. Node Number

This two digit reference identifies the number of nodes of a particular function present at a specific location and whether they operate independently or with another node. Typically workstations operate independently whereas data servers in a pair.

The following table identifies the node numbers:

Table 18 - Node number

Operation	Node Number	Comments	
Workstations or individual(single) processors	01 - XX	Independent operation	
Redundant Data Processors	1A, 1B	First redundant pair	
	2A, 2B	Second redundant pair	
	3A, 3B	Third redundant pair	
	4A, 4B	Fourth redundant pair	
Firewall logical names	1A, 1S	First Active, Standby pair	
Firewall physical names	1A, 1B	First Primary, Secondary	

where XX < 99 per site

3.9.5. Node Type Identifier

This two digit acronym references the type of equipment within a CNS/ATM Sub-system. Depending on the equipment, it could represent the equipment itself or the operating system on the equipment.

The following table identifies the node types:

Table 19 - Node Type Identifier

Node Type ID	Comments
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Node Type	ID	Comments
Linux	LI	Linux OS, including Virtual Machines
Network	NT	
pLINE	PL	
Printer	PR	
Router	RT	
SAN	SN	
Switch	SW	
Time	TM	
VMWare	VM	VMWare hosts, e.g., ESX
Windows	WI	Windows OS, including Virtual Machines
Modem	MD	
Firewall equipment	FW	
Transmitter	TX	VHF
Receiver	RX	VHF
Transceiver	TS	VHF

3.9.6. Host Identifier

The following host ID ranges will be used on Philippines CNS/ATM program:

Node Type	Sub-Type	ID	Comments
	Global Positions	1 – 19	Monitoring displays
Workstations	Display Positions	20 – 79	Operations displays
Workstations	Simulation Positions	80 – 99	TES displays
Servers		100 – 179	
Printers		180 - 199	
Switches		200 – 229	
Routers		230 – 249	
Gateways		250 – 253	
Virtual Gateway		254	

Entity Identifier	Business Identifier	DTC	Revision
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4. IP Address Guidelines

The IP address plan will deploy various methods to minimise publication of sensitive IP address information to the sub-systems.

- Restricted access to IP Data
 - Sub-systems will be restricted to only see their internal IP Address sub-nets and VLAN IDs,
 - o Site Identifiers for only their deployed sub-system sites,
 - External Interface IP addresses defined in relevant sub-system ICD's.

Operational risks will also be minimised by tightly controlled system to system and external communication

- Implementation Guidelines for sharing IP Data
 - Sub-system hosts file only contain internal IP addresses and hostnames for their own subsystem,
 - External IP interface addresses on relevant external sub-system interface nodes only,
 - o Internal IP Route definition restricted to mandatory operation of sub-system,
 - External IP Routes only defined on sub-system external interface nodes.
- External IP Data interfaces
 - o Will only operate through secure access routers,
 - o Internet interfaces will operate through firewalls with DMZ configuration,

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APPENDIX 1 TERMINOLOGY, ACRONYMS AND ABBREVIATIONS

ABL	Allocated Baseline
ACD	Allocated Configuration Documentation
CAGE	Commercial And Government Entity
CBL	Contract Baseline
ССВ	Configuration Control Board
CDR	Critical Design Review
CDRL	Contract Data Requirements List
CDKL	Configuration Item
CM	Configuration Management
CMgr	Configuration Manager
CMP	Configuration Management Plan
COTS	Commercial Off The Shelf
CSCI	Computer Software Configuration Item
CVP	Contract Variation Proposal
DDQS	Design, Develop and Qualify the Solution
DMP	Data Management Plan
DTC	Document Type Code
ECP	Engineering Change Proposal
ECR	Engineering Change Proposal Engineering Change Request
FAT	Factory Acceptance Test
FBL	Functional Baseline
FCA	Functional Configuration Audit
FCD	Functional Configuration Documentation
FQR	Final Qualification Review
GSSDD	Global System/Segment Design Document
GSS	Global System/Segment Specification
HCMD	Hardware Configuration Management Data
HWCI	Hardware Configuration Item
HwCDR	Hardware Critical Design Review
HwPDR	Hardware Preliminary Design Review
HwRR	Hardware Requirements Review
HwTRR	Hardware Test Readiness Review
ICD	Interface Control Document
ILSM	Integrated Logistic Support Manager
ILSP	Integrated Logistic Support Plan
IRS	Interface Requirement Specification
LRU	Line Replaceable Unit
NDI	Non Developmental Item
OEM	Original Equipment Manufacturer
PBL	Product Baseline
PBS	Product Breakdown Structure
PCA	Physical Configuration Audit

Entity Identifier	Business Identifier	DTC	Revision
9950 – Z1W93	61 616 953	562	Α
Filename: PH-ATM IP Addressing Plan RevBdraft2		Document Class: COMMERC	IALLY SENSITIVE

PCD Product Configuration Documentation PCR Problem Change Report PDCS Prepare and Deliver Customer Service PDP Product Data Package PDR Preliminary Design Review PIDS Prime Item Development Specification PM Project Manager PMD Procure, Make and Deliver PMP Project Management Plan PR Problem Report PTR Platform Test Readiness QAM Quality Assurance Manager QMP Quality Management Plan RFD PJ : Request For Deviation RFW Request For Deviation RFW Requier For Waiver RTM Requirements Traceability Matrix SAT Site Acceptance Test SDR System Design Review SEM System Engineering Manager SEMP System Engineering Manager SEMP System Engineering Management Plan SFR Solution Functional Review SOW Statement Of Work SRS Software Requirements Specification SRR System Requirements Review SRU Shop Replaceable Unit SSDD System/Segment Design Document SS System/Segment Design Document SS System Software Architecture and Design Review SWADR Software Architecture and Design Review SWCRR Software Component Readiness Review SWCRR Software Requirements Review SWCRR Software Component Readiness Review SWCRR Software Component Readiness Review SWCRR Software Component Readiness Review TQR Technical Qualification Review TRR Test Readiness Review VDD Version Delivery Description WP Work Package WPM Work Package	D.C.	D 1 10 % " D 1 "
PDCS Prepare and Deliver Customer Service PDP Product Data Package PDR Preliminary Design Review PIDS Prime Item Development Specification PM Project Manager PMD Project Management Plan PMP Pollatform Test Readiness QAM Quality Assurance Manager QMP Quality Management Plan RFD PJ: Request For Deviation RFW Requier For Deviation RFW Requier Tore Vaiver RTM Requierments Traceability Matrix SAT Site Acceptance Test SDR System Design Review SEM System Engineering Manager SEMP System Engineering Manager SEMP System Engineering Management Plan SFR Solution Functional Review SOW Statement Of Work SRS Software Requirements Specification SRR System Requirements Review SRU Shop Replaceable Unit SSDD System/Segment Design Document SS System/Segment Design Document SS System/Segment Design Document SS System/Segment Design Review SWADR Software Architecture and Design Review SWADR Software Architecture and Design Review SWADR Software Requirements Review SWARR Software Component Readiness Review SWARR Software Requirements Review TAR Test Readiness Review VDD Version Delivery Description WP Work Package	PCD	Product Configuration Documentation
PDP Product Data Package PDR Preliminary Design Review PIDS Prime Item Development Specification PM Project Manager PMD Procure, Make and Deliver PMP Project Management Plan PR Problem Report PTR Platform Test Readiness QAM Quality Assurance Manager QMP Quality Management Plan RFD P: Request For Deviation RFW Request For Waiver RTM Requirements Traceability Matrix SAT Site Acceptance Test SDR System Design Review SEM System Engineering Manager SEMP System Engineering Manager SEMP Solution Functional Review SOW Statement Of Work SRS Software Requirements Specification SRR System Requirements Review SRU Shop Replaceable Unit SSDD System/Segment Design Document SS System Software Readiness Review SWADR Software Architecture and Design Review SWADR Software Component Readiness Review SWADR Software Component Readiness Review SWARR Software Requirements Review SWARR Software Requirements Review SWARR Software Component Readiness Review SWARR Software Requirements Review TAR Test Readiness Review		<u> </u>
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TQR Technical Qualification Review TRR Test Readiness Review VDD Version Delivery Description WP Work Package	SwIRR	Software Increment/Iteration Release Review
TRR Test Readiness Review VDD Version Delivery Description WP Work Package	SwRR	Software Requirements Review
VDD Version Delivery Description WP Work Package	TQR	Technical Qualification Review
VDD Version Delivery Description WP Work Package	TRR	Test Readiness Review
WP Work Package		Version Delivery Description
	WP	
	WPM	

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