NEXT ASSY	USED ON	REV	REVISION DESCRIPTION	ORIGINATOR	CHECKED	APPROVED						
		-	PRODUCTION RELEASE	V. SANCHEZ 04/09/14	R. JARRETT 05/05/14	P. HOM 05/07/14						
	0226239-100 ADNS 0226239-200 ADNS	A REVISED PER ECN 08126		J. LACBAIN 07/02/14	R. JARRETT 07/02/14	C. MATA 07/09/14						
								В	REVISED PER ECN 08149	V. SANCHEZ 07/14/14	R. JARRETT 07/14/14	R. JARRETT 07/16/14
		С	REVISED PER ECN 08510	R. SHADRICK 01/05/15	R. JARRETT 01/05/15	C. MATA 01/27/15						
		D	REVISED PER ECN 08660	R. SHADRICK 06/10/15	W. DAVISON 06/10/15	C. MATA 06/10/15						

<u>DISTRIBUTION STATEMENT D:</u> DISTRIBUTION AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND U.S. DOD CONTRACTORS ONLY; ADMINISTRATIVE OR OPERATIONAL USE, 04/19/14. OTHER REQUESTS SHALL BE REFERRED TO SPACE AND NAVAL WARFARE SYSTEMS CENTER, PACIFIC, SAN DIEGO, CA 92152.

<u>DESTRUCTION NOTICE:</u> DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

DO NOT DISTRIBUTE TO THE DEFENSE TECHNICAL INFORMATION CENTER (DTIC).

	DRAWN	V. SANCHEZ, 04/09/14	SPACE AND NAVAL WARFA						
	CHECKED	R. JARRETT, 05/05/14	PACIFIC, SAN DIEGO, CA 92152						
	ENGINEER	C. CARTER, 05/05/14							
INTERPRET	APPROVED	P. HOM, 05/07/14		VEND	OR IT	EM DRA	WING,		
DOCUMENT IN ACCORDANCE WITH	APPROVED		ROUTER, CISCO 2901						
ASME Y14.100	APPROVED								
ALL SHEETS OF THIS DOCUMENT	UNLESS OTHERWISE SPECIFIED		SIZE	CAGE NUM 5591			NT NUMBER 6237	REV D	
MAINTAINED AT THE SAME REVISION	DIMENS	IONS ARE IN INCHES	SCALE	N/A		<u> </u>	SHEET 1 OF 7		
		·		•		<u> </u>	<u> </u>		

SN: A100

- 1. THE PURPOSE OF THIS DOCUMENT IS TO DEFINE THE CONFIGURATION OF THE ROUTER USED IN THIS INSTALLATION.
- 2. ONLY THE ITEMS DESCRIBED IN THIS DRAWING, WHEN PROCURED FROM THE VENDOR(S), OR VENDOR AUTHORIZED DISTRIBUTORS LISTED, ARE APPROVED BY THE SPACE AND NAVAL WARFARE SYSTEMS CENTER, PACIFIC 42150 NIEF. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR APPROVAL BY THE SPACE AND NAVAL WARFARE SYSTEMS CENTER, PACIFIC 42150 NIEF.
- 3. IDENTIFICATION OF APPROVED SOURCE(S) OF SUPPLY IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY FOR THE ITEM DESCRIBED IN THIS DRAWING.
- 4. APPROVED SOURCE OF SUPPLY:

CISCO SYSTEMS INC. (CAGE CODE: 0GX96) 170 WEST TASMAN DR. SAN JOSE, CA. 95134 (800) 553-6387

5. THE FOLLOWING PART NUMBER(S) ARE CONTROLLED BY THIS DRAWING:

PART NUMBER DESCRIPTION

0226237-100 ROUTER, CISCO 2901, AX, SECRET RELEASABLE

0226237-200 ROUTER, CISCO 2901, AX

SIZE A	CAGE NUMBER DRAWING 55910 0226		-	REV D
			SHEET 2 OF 7	

6. ADNS ROUTER CONFIGURATIONS:

TABLE 1. -100, SECRET RELEASABLE ROUTER

SPAWAR PART	0226237-100			
NUMBER	ROUTER, CISCO 2901, A	AX, SECRET RELEASABLE		
VENDOR PN		DESCRIPTION	SLOT	QTY
	CISCO ISR 2901, WITH 2 Includes:	2 GE / 4 EHWIC / 2 DSP, 256 MB, 2.5 GB DRAM, AX LICENSE		
COOM AVIVO	PI-MSE-PRMO-INSRT SL-29-DATA-APP-K9 SL-29-SEC-K9	LICENSE, 30-60 DAY TRIAL, CISCO PRIME INFRASTRUCTURE DATA FEATURES FOR 2900 SERIES APP LICENSE SECURITY LICENSE, PAPER, FOR CISCO 2901-2951 (BOTH SYSTEM & SPARE)		4
C2901-AX/K9	SL-29-IPB-K9 HWIC-BLANK FL-C2901-WAASX SL-29-APP-K9 MEM-2900-512U2.5GB WAAS-RTU-1300	IP BASE LICENSE, PAPER, CISCO 2951-3901 BLANK FACEPLATE FOR HWIC/EHWIC SLOT ON CISCO ISR WAASX FEATURE LICENSE (PAPER) FOR 2901 APPX LICENSE FOR CISCO 2900 SERIES MEMORY UPGRADE, DRAM, 512MB TO 2.5GB, CISCO 2901-2921 WAAS AND VWAAS RIGHT TO USE FOR 1300 CONNECTORS		1
	PWR-2901-AC	POWER SUPPLY, AC, CISCO 2901 ROUTER	E1 114110	
EHWIC-D-8ESG-P=	INTERFACE CARD, ENHANCED HIGH-SPEED WAN (EHWIC), GE WITH POE, 8-PORT		EHWIC 0 & 1, 2 & 3	2
MEM-CF-256U2GB	MEMORY UPGRADE, CO	MEMORY UPGRADE, COMPACT FLASH, 256MB TO 2GB, CISCO 1900, 2900, 3900		1
SL-29-UC-K9	UNIFIED COMMUNICAT SPARE)	IONS LICENSE, PAPER, CISCO 2901-2951 (BOTH SYSTEM &		1
CON-SNT-C2901AX9	EXTENDED SERVICE AND ROUT	GREEMENT, SMARTNET, REPLACEMENT, 1-YEAR, 8 X 5 X FER		1
ISR-CCP-EXP	CISCO CONFIGURATIO INSTALLED	N PROFESSIONAL EXPRESS, WITH DEFAULT ROUTER		1
S29UK9-15403M	SOFTWARE, IOS IMAGE	E, UNIVERSAL 15.4(3)M, CISCO 2901-2921 ROUTERS		1
CAB-AC	POWER CORD, 110V			1

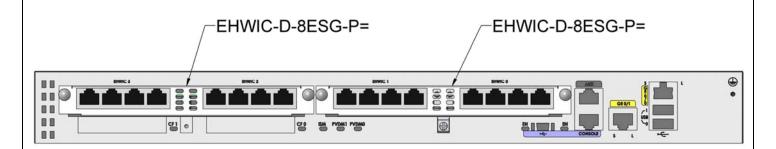


FIGURE 1. 0226237-100, CISCO 2901 ROUTER, VIEW A-A (SHEET 5)

SIZE A
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TABLE 2. -200, ROUTER

SPAWAR PART	0226237-200			
NUMBER	ROUTER, CISCO 2901, AX	(
VENDOR PN		DESCRIPTION	SLOT	QTY
	CISCO ISR 2901, WITH 2 (Includes:	GE / 4 EHWIC / 2 DSP, 256 MB, 2.5 GB DRAM, AX LICENSE		
C2901-AX/K9	SL-29-DATA-APP-K9 SL-29-SEC-K9 SL-29-IPB-K9 HWIC-BLANK FL-C2901-WAASX SL-29-APP-K9 MEM-2900-512U2.5GB WAAS-RTU-1300	LICENSE, 30-60 DAY TRIAL, CISCO PRIME INFRASTRUCTURE DATA FEATURES FOR 2900 SERIES APP LICENSE SECURITY LICENSE, PAPER, FOR CISCO 2901-2951 (BOTH SYSTEM & SPARE) IP BASE LICENSE, PAPER, CISCO 2951-3901 BLANK FACEPLATE FOR HWIC/EHWIC SLOT ON CISCO ISR WAASX FEATURE LICENSE (PAPER) FOR 2901 APPX LICENSE FOR CISCO 2900 SERIES MEMORY UPGRADE, DRAM, 512MB TO 2.5GB, CISCO 2901-2921 VAAS AND VWAAS RIGHT TO USE FOR 1300 CONNECTORS POWER SUPPLY, AC, CISCO 2901 ROUTER		1
EHWIC-D-8ESG-P=	INTERFACE CARD, ENHA	NCED HIGH-SPEED WAN (EHWIC), GE WITH POE, 8-PORT	EHWIC 2 & 3	1
SL-29-UC-K9	UNIFIED COMMUNICATION SPARE)	NS LICENSE, PAPER, CISCO 2901-2951 (BOTH SYSTEM &		1
CON-SNT-C2901AX9	EXTENDED SERVICE AGREEMENT, SMARTNET, REPLACEMENT, 1-YEAR, 8 X 5 X NBD. CISCO 2901 ROUTER			1
ISR-CCP-EXP	CISCO CONFIGURATION INSTALLED	PROFESSIONAL EXPRESS, WITH DEFAULT ROUTER		1
S29UK9-15403M	SOFTWARE, IOS IMAGE,	UNIVERSAL 15.4(3)M, CISCO 2901-2921 ROUTERS		1
CAB-AC	POWER CORD, 110V			1
MEM-CF-256U4GB	MEMORY UPGRADE, COM	MPACT FLASH, 256MB TO 4GB, CISCO 1900, 2900, 3900		1
HWIC-4T=	INTERFACE CARD, HIGH-	-SPEED WAN (HWIC), SERIAL, 4-PORT	EHWIC 0	1

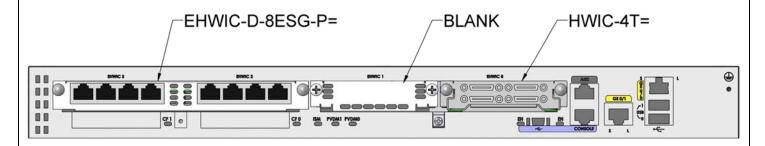


FIGURE 2. 0226237-200, CISCO 2901 ROUTER, VIEW A-A (SHEET 5)

SIZE A	Δ 5591		-	REV D
		·	SHEET 4 OF 7	

7. VENDOR DATA: FIGURE 3: CISCO 2901 ISOMETRIC VIEW (-100 SHOWN) B-6X 1.39 (6X .39) (2X.64) 2X 15.98 B-FIGURE 4: CISCO 2901 SIDE VIEW

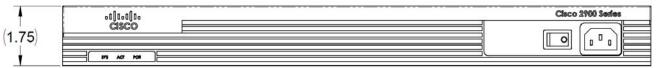


FIGURE 5: CISCO 2901 VIEW B-B

SIZE A	A CAGE NU	6237
	<u>.</u>	SHEET 5 OF 7

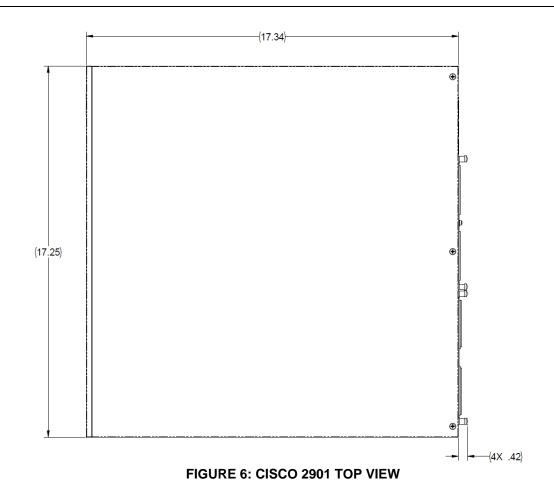


TABLE 3. TECHNICAL DATA

	VOLTAGE (VAC)		100 TO 240
	PHASE		SINGLE
	FREQUENCY (HZ)	47 TO 63	
POWER REQUIREMENTS	POWER FACTOR	1	
	OPERATING CURRENT (A)	1.5 TO 0.6	
	POWER CONSUMPTION (W)	175*	
	OPERATING RELATIVE HUMIDITY %	10 TO 85	
	OPERATING TEMPERATURE (°F)	5906 FT	32 TO 104
ENVIRONMENTAL	OPERATING TEMPERATURE (F)	5906 FT	32 TO 77
	STORAGE TEMPERATURE (°F)	-40 TO 158	
	STORAGE RELATIVE HUMIDITY %	5 TO 95	
HEAT DISSAPATION (BTU/HR)	TOTAL SYSTEM		597
WEIGHT (LBS)	TOTAL SYSTEM		16.33

^{*} MEASURED VALUE AT 660 LAB = 75 W

SIZE A	CAGE NUMBER 55910	DRAWING NUMBER 0226237	REV D
		SHEET 6 OF 7	

8. EQUIPMENT MODIFICATIONS:

THE FOLLOWING MODIFICATIONS SHALL BE MADE TO ALL HARDWARE CONFIGURATIONS IDENTIFIED WITHIN THIS DOCUMENT.

INSTALLATION OF SPAWAR PART NUMBER/IDENTIFICATION LABEL AND APPROPRIATE SPAWAR PRODUCT IDENTIFICATION LABEL SHALL BE INSTALLED ON EACH ROUTER.

IDENTIFY AND REGISTER ALL COTS EQUIPMENT VALUED OVER \$5000 OR ANY SERIALLY MANAGED COMPONENTS AND/OR SUBASSEMBLIES PER DFARS POLICY 211.2 AND 252.211-7003 WITH IUID PEDIGREE INFORMATION. LABELS MUST COMPLY TO MIL-STD-130 "IDENTIFICATION MARKING OF US MILITARY PROPERTY".

9. INSTALLATION OF ROUTER IP SOFTWARE

THE CMPRO DOCCN SHOWN IN THE TABLE BELOW CONTAINS THE ADNS NETWORK TEMPLATE WHICH REFERENCES THE IOS VERSION THAT SHALL BE INSTALLED AND CONFIGURED DURING PITCO FOR EACH PART NUMBER SPECIFIED.*

TABLE 4. ADNS IOS

ROUTER PART NUMBER	VARIANT	VARIATION	*SW CMPRO DOCCN
0226237-100	AN/USQ-144K(V)2	SP3	2014-000444
0226237-200	AN/USQ-144K(V)2	SP3	2014-000444

^{*} LOCATE AND REVIEW THIS NETWORK TEMPLATE USING THE CMPRO DOCUMENT REPOSITORY

SIZE A	55910 0226			REV D	
				SHEET 7 OF 7	

Parts List

Master Drawing: 0226237

Part No:				Rev:	Assembly Title				
0226237-100				D	ROUTER, CISCO 2901, AX, SECRET RELEASABLE				
Find No	Qty	U/M	Part Number	Drawing / Document	Description	Manufacturer	CAGE	Note	
1		1 EA	C2901-AX/K9		CISCO ISR 2901, WITH 2 GE / 4 EHWIC / 2 DSP, 256 MB, 2.5 GB DRAM, AX LICENSE	CISCO SYSTEMS	0GX96		
2		2 EA	EHWIC-D-8ESG-P=		INTERFACE CARD, ENHANCED HIGH-SPEED WAN (EHWIC) GE WITH POE, 8-PORT	, CISCO SYSTEMS	0GX96	SLOT EHWIC 2&3	
3		1 EA	MEM-CF-256U2GB		MEMORY UPGRADE, COMPACT FLASH, 256MB TO 2GB, CISCO 1900, 2900, 3900	CISCO SYSTEMS	0GX96		
4		1 EA	SL-29-UC-K9		UNIFIED COMMUNICATIONS LICENSE, PAPER, CISCO 2901 2951 (BOTH SYSTEM & SPARE)	- CISCO SYSTEMS	0GX96		
5		1 EA	CON-SNT- C2901AX9		EXTENDED SERVICE AGREEMENT, SMARTNET, REPLACEMENT, 1-YEAR, 8 X 5 X NBD, CISCO 2901 ROUTER	CISCO SYSTEMS	0GX96		
9		1 EA	ISR-CCP-EXP		CISCO CONFIGURATION PROFESSIONAL EXPRESS, WITH DEFAULT ROUTER INSTALLED	CISCO SYSTEMS	0GX96	(2) ON C2921-VSEC/9, (2) ON C3945E-VSEC/K9	
11		1 EA	S29UK9-15403M		SOFTWARE, IOS IMAGE, UNIVERSAL 15.4(3)M, CISCO 2901- 2921 ROUTERS	- CISCO SYSTEMS	0GX96		
12		1 EA	CAB-AC		POWER CORD, 110V	CISCO SYSTEMS	0GX96		

Parts List

Master Drawing: 0226237

Part No:				Rev:	Assembly Title			
0226237-200				D	ROUTER, CISCO 2901, AX			
Find No	Qty	U/M	Part Number	Drawing / Document	Description	Manufacturer	CAGE	Note
1		1 EA	C2901-AX/K9		CISCO ISR 2901, WITH 2 GE / 4 EHWIC / 2 DSP, 256 MB, 2.5 GB DRAM, AX LICENSE	CISCO SYSTEMS	0GX96	
2		1 EA	EHWIC-D-8ESG-P=		INTERFACE CARD, ENHANCED HIGH-SPEED WAN (EHWIC) GE WITH POE, 8-PORT	, CISCO SYSTEMS	0GX96	SLOT EHWIC 2&3
4		1 EA	SL-29-UC-K9		UNIFIED COMMUNICATIONS LICENSE, PAPER, CISCO 2901 2951 (BOTH SYSTEM & SPARE)	- CISCO SYSTEMS	0GX96	
5		1 EA	CON-SNT- C2901AX9		EXTENDED SERVICE AGREEMENT, SMARTNET, REPLACEMENT, 1-YEAR, 8 X 5 X NBD, CISCO 2901 ROUTEF	CISCO SYSTEMS	0GX96	
9		1 EA	ISR-CCP-EXP		CISCO CONFIGURATION PROFESSIONAL EXPRESS, WITH DEFAULT ROUTER INSTALLED	CISCO SYSTEMS	0GX96	(2) ON C2921-VSEC/9, (2) ON C3945E-VSEC/K9
11		1 EA	S29UK9-15403M		SOFTWARE, IOS IMAGE, UNIVERSAL 15.4(3)M, CISCO 2901- 2921 ROUTERS	- CISCO SYSTEMS	0GX96	
12		1 EA	CAB-AC		POWER CORD, 110V	CISCO SYSTEMS	0GX96	
13		1 EA	MEM-CF-256U4GB		MEMORY UPGRADE, COMPACT FLASH, 256MB TO 4GB, CISCO 1900, 2900, 3900	CISCO SYSTEMS	0GX96	ALT. P/N: MEM-CF-256U4GB=
20		1 EA	HWIC-4T=		INTERFACE CARD, HIGH-SPEED WAN (HWIC), SERIAL, 4-PORT	CISCO SYSTEMS	0GX96	

End of List