

Cisco IOS™ Software Release 11.3(3)T Ordering Procedures & Platform Support

This product bulletin describes Ordering procedures and Platform Support for features introduced in the 11.3T Early Deployment release. This will be updated with each maintenance release delivering new features to the release. This information is an addendum to Product Bulletin #712, and will focus on information specific to features introduced on the 11.3T Early Deployment release.

Please see Product Bulletin #704, Cisco IOS™ Software Release 11.3(1) Ordering Procedures and Platform Hardware Support for details on memory requirements, ordering procedures and platform support. The CCO FCS date is 4/27/98 and the Manufacturing FCS date is 5/5/98.

Note: 11.3T is an Early Deployment (ED) release. This release is focussed on delivering new features and platforms to market, and has greater unknowns than a more mature Major Release. As such, it should only be used for initial “point” deployment of new features. Any ED release of software should be utilized first in a test network before being deployed in a production network.

The functionality delivered with this ED release will be incorporated in a subsequent Major Release. For more information about the Cisco IOS software release process, please see Product Bulletin #537.

11.3T Ordering Procedures

With each maintenance release of Cisco IOS Software Release 11.3T, images will be available thru Manufacturing for new system orders and spares, and, thru CCO for updates. Please refer to Product Bulletin #703 for upgrade paths from pre-11.3 releases.

Downloading Cisco IOS Software release 11.3T from Cisco

- Requires an active SmartNet Contract
- Downloading from CCO WWW service:

Beginning on 4/27/98, SmartNet Contract holders who are registered CCO users may download Cisco IOS Release 11.3(3)T at: <http://www.cisco.com>

Please follow the instructions provided in the Cisco IOS 11.3T Software Upgrade Planner at:

- <http://www.cisco.com/kobayashi/library/11.3/11.3.shtml>
- The Cisco IOS 11.3T Software Upgrade Planner can be found in the following path, within CCO website:
- Login->Software & Support->Software Center->Cisco IOS Software (under Cisco Software Products)->Cisco IOS 11.3
- Direct FTP from www.cisco.com:
- Beginning on 4/27/98, SmartNet Contract holders who are registered CCO users may download Cisco IOS Release 11.3(3)T via FTP at www.cisco.com
- FTP to www.cisco.com and login using your CCO user ID and password. The path is:/cisco/ios/11.3/11.3.3T

Customers eligible for software upgrades under warranty who do not have service contracts will need to contact the TAC at 1-800-553-2447 or, by email, at tac-dispatch@cisco.com.

Platform Features

With Cisco IOS Release 11.3(3)T, Cisco introduces new platform support and enhancements. The following table summarizes enhancements for each platform:

Platform	Enhancement(s)
Cisco 7500 Router Family	Token Ring Port Adapter
Cisco 7200 Router Family	CPA Token Ring Port Adapter
Cisco 3640 Routers	3600 Digital Modem Network Module HSSI NIM Single port T1 WAN interface card with integrated CSU 8- and 16-port integrated analog network modules Andy II ATM-25N
Cisco 3620 Routers	HSSI NIM Single port T1 WAN interface card with integrated CSU 8- and 16-port integrated analog network modules Andy II ATM-25 N
Cisco 2600 Router Family	8- and 16-port integrated analog network modules
Cisco 1600 Router Family	56k single port T1 WAN interface card with integrated CSU/DSU Single port t1/FT1 WAN interface card with integrated CSU/DSU ISDN Leased Line WIC

The following is a list of the principle new features offered through Cisco's IOS Release 11.3(3)T.

- Always On/Dynamic ISDN (AO/DI)
- Multiple ISDN Switch Types
- National ISDN Switch Types for BRI and PRI
- MPPC
- VPDN MIB
- Token Ring Inter-Switch Link Feature
- PA-4R-DTR Dedicated Token Ring Port Adapter
- Channel Port Adapter
- RIF Passthru in DLSw+
- Certificate Authority Interoperability
- IPSec Network Security
- Internet Key Exchange Security Protocol
- Automated Double Authentication
- NFAS with D Channel Back Up
- The Cisco IOS Firewall Feature Set: Context-Based Access Control
- AAA Authentication and Accounting
- MS-CHAP Support
- Additional Vendor-Proprietary RADIUS Attributes



The following tables show which of the above features are available on each of the new platforms

Table 1 Cisco 1000 Router Family

	IP	IP Plus	IP Plus 40	IP Plus 56	IP/IPX	IP/IPX/AT	IP/IPX/AT Plus	IP/IPX/AT Plus 40	IP/IPX/AT Plus 56
VPDN MIB	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes
AAA Authorization & Accounting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional Vendor-Proprietary RADIUS Attributes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Always On/Dynamic ISDN (AODI)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MPPC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stackable Home Gateway	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes

Table 2 Cisco 1005 Family Routers

	IP	IP Plus	IP Plus 40	IP Plus 56	IP/ASYNCH	IP/IPX	IP/IPX/ASYNCH	IP/IPX/AT	IP/IPX/AT Plus	IP/IPX/AT Plus 40	IP/IPX/AT Plus 56	IP/OSPF/PIM
VPDN MIB	No	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	No
AAA Authorization & Accounting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional Vendor-Proprietary RADIUS Attributes	No	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	No
MPPC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stackable Home Gateway	No	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	No

Table 3 Cisco 1600 Router Family

	IP	IP Plus	IP Plus 40	IP Plus 56	IP/FW	IP/IPX	IP/IPX Plus	IP/IPX/AT/IBM	IP/IPX/AT/IBM Plus	IP/IPX/AT/IBM Plus 40	IP/IPX/AT/IBM Plus 56	IP/IPX/AT/IBM Plus IPSEC 56	IP/IPX/AT/IBM/FW Plus 56	IP/IPX/AT/IBM/FW Plus IPSEC 56	IP/IPX/FW Plus	IP Plus IPSEC 56
RIF Pass thru in DL Sw+	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
VPDN MIB	No	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AAA Authorization & Accounting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional Vendor-Proprietary RADIUS Attributes	No	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Context-Based Access Control (CBAC)	No	No	No	No	Yes	No	No	No	No	No	No	No	Yes	Yes	Yes	No
Always On/ Dynamic ISDN (A/O/DI)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MPPC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stackable Home Gateway	No	Yes	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Certificate Authority Interoperability	No	No	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	No	Yes
Internet Key Exchange Security Protocol	No	No	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	No	Yes

Table 4 Cisco 2500 Router Family

	Enterprise Plus	Enterprise Plus 40	Enterprise Plus 56	Enterprise/APPN Plus	Enterprise/APPN Plus 40	EEnterprise/APPN Plus 56	Enterprise/APPN Plus IPSEC 56	Enterprise/FW Plus 56	IP	IP Plus	IP Plus 40	IP Plus 56	IP/FW	IP/IBM/APPN	IP/IPX/AT/DEC	IP/IPX/AT/DEC Plus	IP/IPX/AT/DEC/FW Plus	ISDN	Remote Access Server	IP Plus IPSEC 56	Enterprise/FW Plus IPSEC 56	Enterprise Plus IPSEC 56
RIF Pass thru in DL SW+	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes
AAA Authentication & Accounting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional Vendor-Proprietary RADIUS Attributes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Automated Double Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Context-Based Access Control (CBAC)	No	No	No	No	No	No	No	Yes	No	No	No	No	Yes	No	No	No	Yes	No	No	No	Yes	No
M/S-CHAP Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes
VPDN MIB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes
Certificate Authority Interoperability	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	No	No	No	No	No	No	Yes	Yes
Internet Key Exchange Security Protocol	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No	No	No	No	No	No	Yes	Yes	Yes
Always On/ Dynamic ISDN (AODD)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes
ISDN Multiple Switch Type	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
M/PPC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
National ISDN Switch Types for BRI and PRI Interfaces	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes

Table 5. Cisco 2600 Router Family

	Enterprise Plus	Enterprise Plus 40	Enterprise Plus 56	Enterprise Plus IP SEC 56	Enterprise/APPN Plus	Enterprise/APPN Plus 40	Enterprise/APPN Plus 56	Enterprise/APPN Plus IP SEC 56	IP	IP Plus	IP Plus 40	IP Plus 56	IP Plus IP SEC 56	IP/IPX/AT/DEC	IP/IPX/AT/DEC Plus	Remote Access Server
RIF Passthru in DSLw+	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No
VPDN MIB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes
AAA Authentication & Accounting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional Vendor-Proprietary RADIUS Attributes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Automated Double Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
MS-CHAP Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
Always On/Dynamic ISDN (AOD/D)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
ISDN Multiple Switch Type	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MPPC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
National ISDN Switch Types for BRI and PRI Interfaces	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stacking Home Gateway Featurette	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes
Certificate Authority Interoperability	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	No	No
Internet Key Exchange Security Protocol	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No	No	No

Table 6 Cisco 3600 Router Family

	Enterprise Plus	Enterprise Plus 40	Enterprise Plus 56	Enterprise/APPN Plus	Enterprise/APPN Plus 40	Enterprise/APPN Plus IPSEC 56	IP	IP Plus	IP Plus 40	IP Plus IPSEC 56	IP/IPX/AT/DEC	IP/IPX/AT/DEC Plus
RIF Pass thru in DSLw+	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
VPDN MIB	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	No	Yes
AAA Authorization & Accounting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional Vendor-Proprietary RADIUS Attributes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Automated Double Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MS-CHAP Support	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	No	No
Always On/Dynamic ISDN (AODI)	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No
Multiple ISDN Switch Types	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MPPC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
National ISDN Switch Types for BRI and PRI Interfaces (NI2)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stackable Home Gateway	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
Certificate Authority Interoperability	No	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	No	No
Internet Key Exchange Security Protocol	No	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	No	No

Table 7 Cisco 4000 Router Family

	Enterprise Plus	Enterprise Plus 40	Enterprise Plus 56	Enterprise/APPN Plus	Enterprise/APPN Plus 40	Enterprise/APPN/ Plus IPSEC 56	IP	IP Plus	IP Plus 40	IP Plus IPSEC 56	IP/IPX/AT/DEC	IP/IPX/AT/DEC Plus
RIF Passthru in DLSw+	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
VPDN MIB	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
AAA Authorization & Accounting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional Vendor-Proprietary RADIUS Attributes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Automated Double Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MS-CHAP Support	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No
Multiple ISDN Switch Types	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MPPC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
National ISDN Switch Types for BRI and PRI Interfaces (NI2)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stackable Home Gateway	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
Always On/Direct ISDN/ (AO/D)	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No
Certificate Authority Interoperability	No	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	No	No
Internet Key Exchange Security Protocol	No	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	No	No

Table 8 Cisco 4500 Router Family

	Enterprise Plus	Enterprise Plus 40	Enterprise Plus 56	Enterprise/APPN PLUS	Enterprise/APPN PLUS 40	Enterprise/APPN PLUS IPSEC 56	Enterprise/APPN/DBCONN	Enterprise/APPN/DBCONN 40	Enterprise/APPN/DBCONN IPSEC 56	IP	IP Plus	IP Plus 40	IP/IPX/AT/DEC	IP/IPX/AT/DEC Plus	IP Plus IPSEC 56
RIF Passthru In DSLw+	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes
VPDN MIB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes
AAA Authorization & Accounting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional Vendor-Proprietary RADIUS Attributes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Automated Double Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MS-CHAP Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No
Always On/Dynamic ISDN (AODI)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No
Multiple ISDN Switch Types	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MPPC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
National ISDN Switch Types for BRI and PRI Interfaces (N12)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stackable Home Gateway	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes
Certificate Authority Interoperability	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No	No	Yes
Internet Key Exchange Security Protocol	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	No	Yes	No	No	Yes

Table 9 Cisco AS5100 Routers

	IP	IP/IPX/AT/DEC	Remote Access Server
AAA Authentication & Accounting	Yes	Yes	Yes
Additional Vendor-Proprietary RADIUS Attributes	Yes	Yes	Yes
Automated Double Authentication	Yes	Yes	No
VPDN MIB	No	No	Yes
ISDN Multiple Switch Type	Yes	Yes	No
MPPC	Yes	Yes	Yes
National ISDN Switch Types for BRI and PRI Interfaces	Yes	Yes	No

Table 10 Cisco AS5200 Routers

	Desktop	Desktop Plus	Enterprise	Enterprise Plus	IP	IP Plus
RIF Passthru in DLSw+	No	No	Yes	Yes	No	No
VPDN MIB	No	Yes	Yes	Yes	No	Yes
AAA Authorization & Accounting	Yes	Yes	Yes	Yes	Yes	Yes
Additional Vendor-Proprietary RADIUS Attributes	Yes	Yes	Yes	Yes	Yes	Yes
Automated Double Authentication	Yes	Yes	Yes	Yes	Yes	Yes
MS-CHAP Support	No	No	Yes	Yes	No	No
Always On/Dynamic ISDN (AO/DI)	No	No	Yes	Yes	No	No
Multiple ISDN Switch Types	Yes	Yes	Yes	Yes	Yes	Yes
MPPC	Yes	Yes	Yes	Yes	Yes	Yes
National ISDN Switch Types for BRI and PRI Interfaces (NI2)	Yes	Yes	Yes	Yes	Yes	Yes
Stackable Home Gateway	No	Yes	Yes	Yes	No	Yes

Table 11 Cisco AS5300 Routers

	Desktop	Desktop Plus	Enterprise	Enterprise Plus	Enterprise Plus 40	IP	IP Plus	IP Plus 40	IP Plus IPSEC 56	Enterprise Plus IPSEC 56
RIF Passthru in DLSw+	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
VPDN MIB	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
AAA Authorization & Accounting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional Vendor-Proprietary RADIUS Attributes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Automated Double Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MS-CHAP Support	No	No	Yes	Yes	Yes	No	No	No	No	Yes
Always On/Dynamic ISDN (AO/DI)	No	No	Yes	Yes	Yes	No	No	No	No	Yes
Multiple ISDN Switch Types	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MPPC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
National ISDN Switch Types for BRI and PRI Interfaces (NI2)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stackable Home Gateway	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Certificate Authority Interoperability	No	No	No	No	Yes	No	No	Yes	Yes	Yes
Internet Key Exchange Security Protocol	No	No	No	No	Yes	No	No	Yes	Yes	Yes

Table 13 Cisco 7500 Routers

	Desktop/IBM	Desktop/IBM 40	Enterprise	Enterprise 40	Enterprise IP SeC 56	Enterprise/APPN	Enterprise/APPN 40	Enterprise/APPN/DBCONN	Enterprise/APPN/DBCONN 40	IP	IP 40	IP IPSEC 56	Enterprise/APPN/DBCONN IPSEC 56	Desktop/IBM IPSEC 56	Enterprise/APPN IPSEC 56
RIF Passthru In DSLw+	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VPDN MIB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
AAA Authorization & Accounting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional Vendor-Proprietary RADIUS Attributes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Automated Double Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MS-CHAP Support	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	No	Yes
Always On/Dynamic SDN (AODD)	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	No	Yes
Multiple SDN Switch Types	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MPPC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
National SDN Switch Types for BRI and PRI Interfaces (N12)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stackable Home Gateway	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Certificate Authority Interoperability	No	Yes	No	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes
Internet Key Exchange Security Protocol	No	Yes	No	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes
Token Ring Inter-Switch Link	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Feature Set Support for 11.3(3)T

Table 14 shows supported feature sets and corresponding memory requirements.

Table 14 Feature Sets and Memory Requirements

Platform	Image	Feature_Set	Flash	RAM
1003-1004	c1000-bnsy-mz	IP Plus	4	8
1003-1004	c1000-bnsy-mz	IP/IPX/AT Plus	4	8
1003-1004	c1000-bnsy40-mz	IP Plus 40	4	8
1003-1004	c1000-bnsy40-mz	IP/IPX/AT Plus 40	4	8
1003-1004	c1000-bnsy56-mz	IP Plus 56	4	8
1003-1004	c1000-bnsy56-mz	IP/IPX/AT Plus 56	4	8
1003-1004	c1000-bny-mz	IP/IPX/AT	2	8
1003-1004	c1000-ny-mz	IP/IPX	2	8
1003-1004	c1000-y-mz	IP	2	8
1005	c1005-bnsy-mz	IP Plus	4	8
1005	c1005-bnsy-mz	IP/IPX/AT Plus	4	8
1005	c1005-bnsy40-mz	IP Plus 40	4	8
1005	c1005-bnsy40-mz	IP/IPX/AT Plus	4	8
1005	c1005-bnsy56-mz	IP Plus 56	4	8
1005	c1005-bnsy56-mz	IP/IPX/AT Plus 56	4	8
1005	c1005-bny-mz	IP/IPX/AT	2	8
1005	c1005-nqy-mz	IP/IPX/ASYNCH	2	8
1005	c1005-ny-mz	IP/IPX	2	8
1005	c1005-qy-mz	IP/ASYNCH	2	8
1005	c1005-y-mz	IP	2	8
1005	c1005-y2-mz	IP/OSPF/PIM	2	8
1601-1604	c1600-bnor2sy56-l	IP/IPX/AT/IBM/FW PLUS 56	8	6
1601-1604	c1600-bnor2sy56i-l	IP/IPX/AT/IBM/FW Plus IPSEC 56	8	6
1601-1604	c1600-bnr2sy-l	IP/IPX/AT/IBM Plus	8	6
1601-1604	c1600-bnr2sy40-l	IP/IPX/AT/IBM Plus 40	8	6
1601-1604	c1600-bnr2sy56-l	IP/IPX/AT/IBM Plus 56	8	6
1601-1604	c1600-bnr2sy56i-l	IP/IPX/AT/IBM Plus IPSEC 56	8	6
1601-1604	c1600-bnr2y-l	IP/IPX/AT/IBM	8	4
1601-1604	c1600-boot-l	Boot Image	—	—
1601-1604	c1600-nosy-l	IP/IPX/FW Plus	6	4
1601-1604	c1600-nsy-l	IP/IPX Plus	6	4

Platform	Image	Feature_Set	Flash	RAM
1601-1604	c1600-ny-l	IP/IPX	6	2
1601-1604	c1600-oy-l	IP/FW	4	2
1601-1604	c1600-rboot-l	RBoot Image	—	—
1601-1604	c1600-sy-l	IP Plus	6	4
1601-1604	c1600-sy40-l	IP Plus 40	6	4
1601-1604	c1600-sy56-l	IP Plus 56	6	4
1601-1604	c1600-sy56i-l	IP Plus IPSEC 56	6	4
1601-1604	c1600-y-l	IP	4	2
1605	c1600-bnr2sy56-mz	IP/IPX/AT/IBM/FW Plus 56	4	12
1605	c1600-bnr2sy56i-mz	IP/IPX/AT/IBM/FW Plus IPSEC 56	4	12
1605	c1600-bnr2sy-mz	IP/IPX/AT/IBM Plus	4	12
1605	c1600-bnr2sy40-mz	IP/IPX/AT/IBM Plus 40	4	12
1605	c1600-bnr2sy56-mz	IP/IPX/AT/IBM Plus 56	4	12
1605	c1600-bnr2sy56i-mz	IP/IPX/AT/IBM Plus IPSEC 56	4	12
1605	c1600-bnr2y-mz	IP/IPX/AT/IBM	4	12
1605	c1600-boot-mz	Boot Image	—	—
1605	c1600-nosy-mz	IP/IPX/FW Plus	4	10
1605	c1600-nsy-mz	IP/IPX Plus	4	12
1605	c1600-ny-mz	IP/IPX	4	12
1605	c1600-oy-mz	IP/FW	2	8
1605	c1600-rboot-mz	RBoot Image	—	—
1605	c1600-sy-mz	IP Plus	4	12
1605	c1600-sy40-mz	IP Plus 40	4	12
1605	c1600-sy56-mz	IP Plus 56	4	12
1605	c1600-sy56i-mz	IP Plus IPSEC 56	4	12
1605	c1600-y-mz	IP	4	12
2500	c2500-ai3r4-l	IP/IBM/APPN	8	8
2500	c2500-ajs-l	Enterprise/APPN Plus	16	8
2500	c2500-ajs40-l	Enterprise/APPN Plus 40	16	8
2500	c2500-ajs56-l	Enterprise/APPN Plus 56	16	8
2500	c2500-ajs56i-l	Enterprise/APPN Plus IPSEC 56	16	8
2500	c2500-boot-l	Boot Image	—	—
2500	c2500-c-l	Remote Access Server	8	4
AS5100	c2500-c-l	Remote Access Server	8	6
2500/AS5100	c2500-d-l	IP/IPX/AT/DEC	8	4

Platform	Image	Feature_Set	Flash	RAM
2500	c2500-dos-l	IP/IPX/AT/DEC/FW Plus	16	4
2500	c2500-ds-l	IP/IPX/AT/DEC Plus	8	6
2500	c2500-g-l	ISDN	8	4
2500	c2500-i-l	IP	8	4
AS5100	c2500-i-l	IP	8	6
2500	c2500-io-l	IP/FW	8	4
2500	c2500-is-l	IP Plus	8	4
2500	c2500-is40-l	IP Plus 40	16	8
2500	c2500-is56-l	IP Plus 56	16	8
2500	c2500-is56i-l	IP Plus IPSEC 56	16	8
2500	c2500-jos56-l	Enterprise/FW Plus 56	16	6
2500	c2500-jos56il	Enterprise/FW Plus IPSEC 56	16	6
2500	c2500-js-l	Enterprise Plus	16	6
2500	c2500-js40-l	Enterprise Plus 40	16	8
2500	c2500-js56-l	Enterprise Plus 56	16	8
2500	c2500-js56i-l	Enterprise Plus IPSEC 56	16	8
2600	c2600-ajs-mz	Enterprise/APPN Plus	8	32
2600	c2600-ajs40-mz	Enterprise/APPN Plus 40	8	32
2600	c2600-ajs56-mz	Enterprise/APPN Plus 56	8	32
2600	c2600-ajs56i-mz	Enterprise/APPN Plus IPSEC 56	8	32
2600	c2600-c-mz	Remote Access Server	4	16
2600	c2600-d-mz	IP/IPX/AT/DEC	8	20
2600	c2600-ds-mz	IP/IPX/AT/DEC Plus	8	24
2600	c2600-l-mz	IP	4	16
2600	c2600-is-mz	IP Plus	8	20
2600	c2600-is40-mz	IP Plus 40	8	20
2600	c2600-is56-mz	IP Plus 56	8	20
2600	c2600-is56i-mz	IP Plus IPSEC 56	8	20
2600	c2600-js-mz	Enterprise Plus	8	24
2600	c2600-js40-mz	Enterprise Plus 40	8	24
2600	c2600-js56-mz	Enterprise Plus 56	8	24
2600	c2600-js56i-mz	Enterprise Plus IPSEC 56	8	24
3620	c3620-ajs-mz	Enterprise/APPN Plus	8	32
3620	c3620-ajs40-mz	Enterprise/APPN Plus 40	8	32
3620	c3620-ajs56i-mz	Enterprise/APPN Plus IPSEC 56	8	32

Platform	Image	Feature_Set	Flash	RAM
3620	c3620-d-mz	IP/IPX/AT/DEC	4	24
3620	c3620ds-mz	IP/IPX/AT/DEC Plus	8	32
3620	c3620-i-mz	IP	4	16
3620	c3620-is-mz	IP Plus	8	24
3620	c3620-is40-mz	IP Plus 40	8	32
3620	c3620-is56i-mz	IP Plus IPSEC 56	8	24
3620	c3620-js-mz	Enterprise Plus	8	32
3620	c3620-js40-mz	Enterprise Plus 40	8	32
3620	c3620-js56i-mz	Enterprise Plus IPSEC 56	8	32
3640	c3640-ajs-mz	Enterprise/APPN Plus	8	32
3640	c3640-ajs40-mz	Enterprise/APPN Plus 40	8	32
3640	c3540-ajs56i-mz	Enterprise/APPN Plus IPSEC 56	8	32
3640	c3640-d-mz	IP/IPX/AT/DEC	4	24
3640	c3640-ds-mz	IP/IPX/AT/DEC Plus	8	32
3640	c3640-i-mz	IP	4	16
3640	c3640-is-mz	IP Plus	8	24
3640	c3640-is40-mz	IP Plus 40	8	24
3640	c3640-is56i-mz	IP Plus IPSEC 56	8	32
3640	c3640-js-mz	Enterprise Plus	8	32
3640	c3640-js40-mz	Enterprise Plus 40	8	32
3640	c3640-js56i-mz	Enterprise Plus IPSEC 56	8	32
4000	c4000-ajs-mz	Enterprise/APPN Plus	8	32
4000	c4000-ajs40-mz	Enterprise/APPN Plus 40	8	32
4000	c4000-ajs56i-mz	Enterprise/APPN Plus IPSEC 56	8	32
4000	c4000-boot-mz	Boot Image	—	—
4000	c4000-d-mz	IP/IPX/AT/DEC	4	16
4000	c4000-ds-mz	IP/IPX/AT/DEC Plus	4	16
4000	c4000-i-mz	IP	4	16
4000	c4000-is-mz	IP Plus	4	16
4000	c4000-is40-mz	IP Plus 40	8	16
4000	c4000-is56i-mz	IP Plus IPSEC 56	8	16
4000	c4000-js-mz	Enterprise Plus	8	16
4000	c4000-js40-mz	Enterprise Plus 40	8	16
4000	c4000-js56i-mz	Enterprise Plus IPSEC 56	8	16
4500	c4500-aejs-mz	Enterprise/APPN/DBCONN	8	32

Platform	Image	Feature_Set	Flash	RAM
4500	c4500-ajs-mz	Enterprise/APPN Plus	8	32
4500	c4500-ajs40-mz	Enterprise/APPN Plus 40	8	32
4500	c4500-ajs56i-mz	Enterprise/APPN Plus IPSEC 56	8	32
4500	c4500-boot-mz	Boot Image	—	—
4500	c4500-d-mz	IP/IPX.AT/DEC	4	32
4500	c4500-ds-mz	IP/IPX/AT/DEC Plus	8	32
4500	c4500-l-mz	IP	4	32
4500	c4500-is-mz	IP Plus	8	32
4500	c4500-is40-mz	IP Plus 40	8	16
4500	c4500-is56i-mz	IP Plus IPSEC 56	8	32
4500	c4500-js-mz	Enterprise Plus	8	32
4500	c4500-js40-mz	Enterprise Plus 40	8	32
4500	c4500-js56i-mz	Enterprise Plus IPSEC 56	8	32
AS5200	c5200-boot-l	Boot Image	—	—
AS5200	c5200-d-l	Desktop	8	8
AS5200	c5200-ds-l	Desktop Plus	8	8
AS5200	c5200-l-l	IP	8	8
AS5200	c5200-is-l	IP Plus	8	8
AS5200	c5200-j-l	Enterprise	16	8
AS5200	c5200-js-l	Enterprise Plus	16	8
AS5300	c5300-boot-mz	Boot Image	—	—
AS5300	c5300-d-mz	Desktop	8	32
AS5300	c5300-ds-mz	Desktop Plus	8	32
AS5300	c5300-l-mz	IP	8	32
AS5300	c5300-is-mz	IP Plus	8	32
AS5300	c5300-is40-mz	IP Plus 40	8	32
AS5300	c5300-is56i-mz	IP Plus IPSEC 56	8	32
AS5300	c5300-j-mz	Enterprise	8	32
AS5300	c5300-js-mz	Enterprise Plus	8	32
AS5300	c5300-js40-mz	Enterprise Plus 40	8	32
AS5300	c5300-js56i-mz	Enterprise Plus IPSEC 56	8	32
7200	c7200-aejs-mz	Enterprise/APPN/DBCONN	16	32
7200	c7200-ajs-mz	Enterprise/APPN	16	32
7200	c7200-ajs40-mz	Enterprise/APPN 40	16	32
7200	c7200-ajs56i-mz	Enterprise/APPN IPSEC 56	16	32



Platform	Image	Feature_Set	Flash	RAM
7200	c7200-boot-mz	Boot Image	16	32
7200	c7200-ds-mz	Desktop/IBM	16	32
7200	c7200-ds40-mz	Desktop/IBM 40	16	32
7200	c7200-ds56i-mz	Desktop/IBM IPSEC 56	16	32
7200	c7200-inu-mz	Network Layer 3 Switching	16	32
7200	c7200-is-mz	IP	16	32
7200	c7200-is40-mz	IP 40	16	32
7200	c7200-is56i-mz	IP IPSEC 56	16	32
7200	c7200-js-mz	Enterprise	16	32
7200	c7200-js40-mz	Enterprise 40	16	32
7200	c7200-js56i-mz	Enterprise IPSEC 56	16	32
7500	rsp-aejv-mz	Enterprise/APPN/DBCONN	16	32
7500	rsp-ajsv-mz	Enterprise/APPN	16	32
7500	rsp-ajsv40-mz	Enterprise/APPN 40	16	32
7500	rsp-ajsv56i-mz	Enterprise/APPN IPSEC 56	16	32
7500	rsp-boot-mz	Boot Image	16	32
7500	rsp-dsv-mz	Desktop/IBM	16	32
7500	rsp-dsv40-mz	Desktop/IBM 40	16	32
7500	rsp-dsv56i-mz	Desktop/IBM IPSEC 56	16	32
7500	rsp-isv-mz	IP	16	32
7500	rsp-isv40-mz	IP 40	16	32
7500	rsp-isv56i-mz	IP IPSEC 56	16	32
7500	rsp-jsv-mz	Enterprise	16	32
7500	rsp-jsv40-mz	Enterprise 40	16	32
7500	rsp-jsv56i-mz	Enterprise IPSEC 56	16	32
ubr7200	ubr7200-boot-mz	Boot Image	—	—
ubr7200	ubr7200-p-mz	UBR7246 MCNS Two-way	16	32

Table 15 shows all available 11.3(3)T features sets by hardware platform.

Table 15 Feature Sets by Hardware Platform

Platform	1000	1005	1600	2500	2600	3620	3640	4000	4500	5200	5300	7200	7500	ubr7200
Feature_Set	1000	1005	1600	2500	2600	3620	3640	4000	4500	5200	5300	7200	7500	ubr7200
Boot Image	—	—	X	X	—	—	—	X	X	X	X	X	X	X
Desktop	—	—	—	—	—	—	—	—	—	X	X	—	—	—
Desktop Plus	—	—	—	—	—	—	—	—	—	X	X	—	—	—
Desktop/IBM	—	—	—	—	—	—	—	—	—	—	—	X	X	—
Desktop/IBM 40	—	—	—	—	—	—	—	—	—	—	—	X	X	—
Desktop/IBM IPSEC 56	—	—	—	—	—	—	—	—	—	—	—	X	X	—
Enterprise	—	—	—	—	—	—	—	—	—	X	X	X	X	—
Enterprise 40	—	—	—	—	—	—	—	—	—	—	—	X	X	—
Enterprise IPSEC 56	—	—	—	—	—	—	—	—	—	—	—	X	X	—
Enterprise Plus	—	—	—	—	X	X	X	X	X	X	X	—	—	—
Enterprise Plus	—	—	—	X	—	—	—	—	—	—	—	—	—	—
Enterprise Plus 40	—	—	—	X	X	X	X	X	X	—	X	—	—	—
Enterprise Plus 56	—	—	—	X	X	—	—	—	—	—	—	—	—	—
Enterprise Plus IPSEC 56	—	—	—	X	X	X	X	X	X	—	X	—	—	—
Enterprise/APPN	—	—	—	—	—	—	—	—	—	—	—	X	X	—
Enterprise/APPN 40	—	—	—	—	—	—	—	—	—	—	—	X	X	—
Enterprise/APPN IPSEC 56	—	—	—	—	—	—	—	—	—	—	—	X	X	—
Enterprise/APPN Plus	—	—	—	X	X	X	X	X	X	—	—	—	—	—
Enterprise/APPN Plus 40	—	—	—	X	X	X	X	X	X	—	—	—	—	—
Enterprise/APPN Plus 56	—	—	—	X	X	—	—	—	—	—	—	—	—	—
Enterprise/APPN Plus IPSEC 56	—	—	—	X	X	X	X	X	X	—	—	—	—	—
Enterprise/APPN/DBCONN	—	—	—	—	—	—	—	—	X	—	—	X	X	—
Enterprise/FW Plus 56	—	—	—	X	—	—	—	—	—	—	—	—	—	—
Enterprise/FW Plus IPSEC 56	—	—	—	X	—	—	—	—	—	—	—	—	—	—
IP	X	X	X	X	X	X	X	X	X	X	X	X	X	—
IP 40	—	—	—	—	—	—	—	—	—	—	—	X	X	—
IP IPSEC 56	—	—	—	—	—	—	—	—	—	—	—	X	X	—
IP Plus	X	X	X	X	X	X	X	X	X	X	X	—	—	—
IP Plus 40	X	X	X	X	X	X	X	X	X	—	X	—	—	—
IP Plus 56	X	X	X	X	X	—	—	—	—	—	—	—	—	—
IP Plus IPSEC 56	—	—	X	X	X	X	X	X	X	—	X	—	—	—



Platform														
IP/ASYNCH	—	X	—	—	—	—	—	—	—	—	—	—	—	—
IP/FW	—	—	X	X	—	—	—	—	—	—	—	—	—	—
IP/IBM/APPN	—	—	—	X	—	—	—	—	—	—	—	—	—	—
IP/IPX	X	X	X	—	—	—	—	—	—	—	—	—	—	—
IP/IPX Plus	—	—	X	—	—	—	—	—	—	—	—	—	—	—
IP/IPX.AT/DEC	—	—	—	—	—	—	—	—	X	—	—	—	—	—
IP/IPX/ASYNCH	—	X	—	—	—	—	—	—	—	—	—	—	—	—
IP/IPX/AT	X	X	—	—	—	—	—	—	—	—	—	—	—	—
IP/IPX/AT DEC Plus	—	—	—	—	—	X	—	—	—	—	—	—	—	—
IP/IPX/AT Plus	X	—	—	—	—	—	—	—	—	—	—	—	—	—
IP/IPX/AT Plus 40	X	—	—	—	—	—	—	—	—	—	—	—	—	—
IP/IPX/AT Plus 56	X	X	—	—	—	—	—	—	—	—	—	—	—	—
IP/IPX/AT/DEC	—	—	—	X	X	X	X	X	—	—	—	—	—	—
IP/IPX/AT/DEC Plus	—	—	—	X	X	—	X	X	X	—	—	—	—	—
IP/IPX/AT/DEC/FW Plus	—	—	—	X	—	—	—	—	—	—	—	—	—	—
IP/IPX/AT/IBM	—	—	X	—	—	—	—	—	—	—	—	—	—	—
IP/IPX/AT/IBM Plus	—	—	X	—	—	—	—	—	—	—	—	—	—	—
IP/IPX/AT/IBM Plus 40	—	—	X	—	—	—	—	—	—	—	—	—	—	—
IP/IPX/AT/IBM Plus 56	—	—	X	—	—	—	—	—	—	—	—	—	—	—
IP/IPX/AT/IBM Plus IPSEC 56	—	—	X	—	—	—	—	—	—	—	—	—	—	—
IP/IPX/AT/IBM/FW Plus 56	—	—	X	—	—	—	—	—	—	—	—	—	—	—
IP/IPX/AT/IBM/FW Plus IPSEC 56	—	—	X	—	—	—	—	—	—	—	—	—	—	—
IP/IPX/FW Plus	—	—	X	—	—	—	—	—	—	—	—	—	—	—
IP/OSPF/PIM	—	X	—	—	—	—	—	—	—	—	—	—	—	—
ISDN	—	—	—	X	—	—	—	—	—	—	—	—	—	—
Network Layer 3 Switching	—	—	—	—	—	—	—	—	—	—	—	X	—	—
RBOOT Image	—	—	X	—	—	—	—	—	—	—	—	—	—	—
Remote Access Server	—	—	—	X	X	—	—	—	—	—	—	—	—	—
UBR7246 MCNS Two-way	—	—	—	—	—	—	—	—	—	—	—	—	—	X



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