

Cisco ISR and ISR G2 xDSL Interoperability

If your company plans to deploy broadband-based services with the Cisco® Integrated Services Routers (ISRs) and Integrated Services Routers Generation 2 (ISR G2) with integrated xDSL technologies, this document can help you avoid potential problems. It describes the DSL interoperability expectations of these platforms and modules.

CPE and DSLAM Interoperability

The Cisco ISR G2 product portfolio supports a diversity of DSL technologies, including very-high-bit-rate DSL 2 (VDSL2), asymmetric DSL (ADSL), ADSL2/2+, multimode VDSL2/ADSL2+, and G.SHDSL. The Cisco ISR G2 customer premises equipment (CPE) described in Tables 1 through 19 has been tested at the Cisco DSL Interoperability Test Lab in San Jose, California, to ensure interoperability with the DSL access multiplexers (DSLAMs) also specified in these tables.

Multimode VDSL2 and ADSL2+ Platforms and Modules

Table 1. Cisco 896VA VDSL2/ADSL2+ over ISDN

CPE			VDSL2 DSLAM					
CPE Part Number	Chipset	Firmware; Cisco IOS® Software Release	DSLAM Model	Chipset	Line Card	Firmware		
C896VA	Broadcom 6366U(6368)	A2pv6C035j.d23j; Cisco IOS Software Release 15.2(4)M or later	ZTE 9806	Broadcom	VSTDC	V1.2.0P4T2		
			Alcatel ISAM 7302	Ikanos	NVLT-D	L6GPAA40 and 126/L6GPA34.412		
			Huawei 5603	Broadcom	H565VDEA	320(2007-12-7)/VE_9_3_6		
			ADSL2+ DSLAM					
			DSLAM Model	Chipset	Line Card	Firmware		
			Alcatel ASAM7300	Broadcom	ABLT-F	L7D6AA47.174		
			ECI Hi-Focus 480	Infineon	ATU- ATUC-32	A4_9.00.48		
			Ericsson ECN320	Broadcom	EDN312xi	132 8112 R2L01 and CXC 132 8113 R2A01		
			Siemens HiX 5300	Infineon	SUADSL:64IXA	542		

Table 2. Cisco 866VAE VDSL2/ADSL2+ over ISDN

CPE			VDSL2 DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS® Software Release	DSLAM Model	Chipset	Line Card	Firmware
CISCO866VAE	Broadcom 63168	A2pv6C032b.d23i; Cisco IOS Software Release 15.1(4)M or later	ZTE 9806	Broadcom	VSTDC	V1.2.0P4T2
			Alcatel ISAM 7302	Ikanos	NVLT-D	L6GPAA40 and 126/L6GPA34.412
			Huawei 5603	Broadcom	H565VDEA	320(2007-12-7)/VE_9_3_6
			ADSL2+ DSLAM			

CPE		VDSL2 DSLAM			
		DSLAM Model	Chipset	Line Card	Firmware
		Alcatel ASAM7300	Broadcom	ABLT-F	L7D6AA47.174
		ECI Hi-Focus 480	Infineon	ATU- ATUC-32	A4_9.00.48
		Ericsson ECN320	Broadcom	EDN312xi	132 8112 R2L01 and CXC 132 8113 R2A01
		Siemens HiX 5300	Infineon	SUADSL:64IXA	542

Table 3. Cisco 886VA VDSL2/ADSL2+ over ISDN

CPE			VDSL2 DSLAM					
CPE Part Number	Chipset	Firmware; Cisco IOS® Software Release	DSLAM Model	Chipset	Line Card	Firmware		
CISCO886VA	Broadcom 6366U(6368)	B2pv6C030h1.d22k; Cisco IOS Software Release 15.1(2)T or later	ZTE 9806	Broadcom	VSTDC	V1.2.0P4T2		
			Alcatel ISAM 7302	Ikanos	NVLT-D	L6GPAA40 and 126/L6GPA34.412		
			Huawei 5603	Broadcom	H565VDEA	320(2007-12-7)/VE_9_3_6		
			ADSL2+ DSLAM					
			DSLAM Model	Chipset	Line Card	Firmware		
			Alcatel ASAM7300	Broadcom	ABLT-F	L7D6AA47.174		
			ECI Hi-Focus 480	Infineon	ATU- ATUC-32	A4_9.00.48		
			Ericsson ECN320	Broadcom	EDN312xi	132 8112 R2L01 and CXC 132 8113 R2A01		
			Siemens HiX 5300	Infineon	SUADSL:64IXA	542		

Table 4. Cisco 897VA VDSL2/ADSL2+ over Basic Telephone Service (Annex A)

CPE			VDSL2 DSLAM					
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware		
CISCO897VA	Broadcom 6366U(6368)	A2pv6C035j.d23j; Cisco IOS Software Release 15.2(4)M or later	ZTE 9806	Broadcom	VSTDC	V1.2.0P4T2		
			Alcatel ISAM 7302	Ikanos	NVLT-D	L6GPAA40.126/L6GPA34.412		
			Alcatel ISAM 7302	Conexant	NVLT-C	L6GPAA40 and 126/L6GPA34.412		
			Huawei 5603	Broadcom	H565VDEA	320(2007-12-7)/VE_9_3_6		
			ADSL2+ DSLAM					
			DSLAM Model	Chipset	Line Card	Firmware		
			Alcatel ASAM7300	Broadcom	ABLT-D	L7D6AA47.174		
			Alcatel ISAM 7302	Broadcom	NALT-C	3FE27289AABD		
			Ericsson EDA2.1	Broadcom	EDN312xp	132 8112 R2L01 and CXC 132 8113 R2A01		
			ECI Hi-Focus 480	Infineon	ATUC (ATUC-32)	A4_9.00.60		
			Fujitsu FDX Hub 1000	Infineon	ADSL IV-LCSS-FS	5.2.55.554.0		
			Fujitsu FDX Hub	Texas	ADSL IV-LCSS-FS	5.2.55.554.0		

CPE		VDSL2 DSLAM			
		1000	Instruments		
		Huawei MA5600	Conexant	H563ADGE VER A	322(2007-9-29)
		Lucent Stinger	Conexant	ep-hs-gs-ads12plus-card	E.67.15.1
		Nokia D500	Globespan	ADSL2+af	3,5141 and 21:21:47 May 23, 2007

Table 5. Cisco 867VAE VDSL2/ADSL2+ over Basic Telephone Service (Annex A)

CPE			VDSL2 DSLAM				
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware	
CISCO867VAE	Broadcom 63168	A2pv6C032b.d23i; Cisco IOS Software Release 15.1(4)M or later	ZTE 9806	Broadcom	VSTDC	V1.2.0P4T2	
			Alcatel ISAM 7302	Ikanos	NVLT-D	L6GPAA40.126/L6GPA34.412	
			Alcatel ISAM 7302	Conexant	NVLT-C	L6GPAA40 and 126/L6GPA34.412	
			Huawei 5603	Broadcom	H565VDEA	320(2007-12-7)/VE_9_3_6	
	ADSL2+ DSLAM						
				DSLAM Model	Chipset	Line Card	Firmware
				Alcatel ASAM7300	Broadcom	ABLT-D	L7D6AA47.174
				Alcatel ISAM 7302	Broadcom	NALT-C	3FE27289AABD
				Ericsson EDA2.1	Broadcom	EDN312xp	132 8112 R2L01 and CXC 132 8113 R2A01
				ECl Hi-Focus 480	Infineon	ATUC (ATUC-32)	A4_9.00.60
				Fujitsu FDX Hub 1000	Infineon	ADSL IV-LCSS-FS	5.2.55.554.0
				Fujitsu FDX Hub 1000	Texas Instruments	ADSL IV-LCSS-FS	5.2.55.554.0
				Huawei MA5600	Conexant	H563ADGE VER A	322(2007-9-29)
				Lucent Stinger	Conexant	ep-hs-gs-ads12plus-card	E.67.15.1
			Nokia D500	Globespan	ADSL2+af	3,5141 and 21:21:47 May 23, 2007	

Table 6. Cisco 887VA VDSL2/ADSL2+ over Basic Telephone Service (Annex A)

CPE			VDSL2 DSLAM				
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware	
CISCO887VA	Broadcom 6366U(6368)	A2pv6C030h.d22k; Cisco IOS Software Release 15.1(2)T or later	ZTE 9806	Broadcom	VSTDC	V1.2.0P4T2	
			Alcatel ISAM 7302	Ikanos	NVLT-D	L6GPAA40.126/L6GPA34.412	
			Alcatel ISAM 7302	Conexant	NVLT-C	L6GPAA40 and 126/L6GPA34.412	
			Huawei 5603	Broadcom	H565VDEA	320(2007-12-7)/VE_9_3_6	
	ADSL2+ DSLAM						
				DSLAM Model	Chipset	Line Card	Firmware
			Alcatel ASAM7300	Broadcom	ABLT-D	L7D6AA47.174	

		Alcatel ISAM 7302	Broadcom	NALT-C	3FE27289AABD
		Ericsson EDA2.1	Broadcom	EDN312xp	132 8112 R2L01 and CXC 132 8113 R2A01
		ECI Hi-Focus 480	Infineon	ATUC (ATUC-32)	A4_9.00.60
		Fujitsu FDX Hub 1000	Infineon	ADSL IV-LCSS-FS	5.2.55.554.0
		Fujitsu FDX Hub 1000	Texas Instruments	ADSL IV-LCSS-FS	5.2.55.554.0
		Huawei MA5600	Conexant	H563ADGE VER A	322(2007-9-29)
		Lucent Stinger	Conexant	ep-hs-gs-ads12plus-card	E.67.15.1
		Nokia D500	Globespan	ADSL2+af	3,5141 and 21:21:47 May 23, 2007

Table 7. Cisco 887VA-M VDSL2/ADSL2+ over Basic Telephone Service (Annex M)

CPE			VDSL2 DSLAM					
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware		
CISCO887VA-M	Broadcom 6366U (6368)	A2pv6C032b.d22k; Cisco IOS Software Release 15.1(2)T or later	Alcatel ISAM 7302	Ikanos	NVLT-D	L6GPAA40 and 126/L6GPA34.412		
			Huawei 5603	Broadcom	H565VDEA	320(2007-12-7)/VE_9_3_6		
			ADSL2+ DSLAM					
			DSLAM Model	Chipset	Line Card	Firmware		
			Alcatel ASAM7300	Broadcom	ABLT-D	L7D6AA47.174		
			Fujitsu FDX Hub 1000	Infineon	ADSL IV-LCSS-FS	5.2.55.554.0		
			Lucent Stinger	Conexant	stngr-72-gs-ads1-card	E.67.15.1		
			Alcatel ASAM7300	Broadcom	ABLT-D	L7D6AA47.174		
			Lucent Stinger	Conexant	stngr-72-gs-ads1-card	E.67.15.1		
			Fujitsu FDX Hub 1000	Infineon	ADSL IV-LCSS-FS	5.2.55.554.0		
Fujitsu FDX Hub 1000	Texas Instrument	ADSL IV-LCSS-FS	5.2.55.554.0					

VDSL2 Platforms and Modules

Table 8. Cisco 887V VDSL2 Router and HWIC-1VDSL Module

CPE			DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Software/Firmware
CISCO887V and HWIC-1VDSL	Broadcom	AvC011b.d21j1; Cisco IOS Software Release 12.4(24)T or later	ZTE 9806	Broadcom	VSTDC	V1.2.0P4T2
			Alcatel ISAM 7302	Ikanos	NVLT-D	L6GPAA40 and 126/L6GPA34.412
			Huawei 5603	Broadcom	H565VDEA	320(2007-12-7)/VE_9_3_6

ADSL and ADSL2 and L2+ Platforms and Modules

Table 9. Cisco 886 ADSL-over-ISDN Router (Annex B)

CPE			DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware
CISCO886	ST Micro 20190P	4.0.15; Cisco IOS Software Release 15.0(1)M or later	Alcatel ASAM7300	Broadcom	ABLT-F	L7D6AA47.174
			ECI Hi-Focus 480	Infineon	ATU-32C	A4_9.00.48
			Ericsson ECN320	Broadcom	EDN312xi	132 8112 R2L01 and CXC 132 8113 R2A01
			Siemens HiX 5300	Infineon	SUADSL:64IXA	542

Table 10. Cisco 867 and Cisco 887 ADSL-over-Basic Telephone Service Router (Annex A)

CPE			DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware
CISCO887	ST Micro 20190P	4.0.15; Cisco IOS Software Release 15.0(1)M or later	Alcatel ASAM7300	Broadcom	ABLT-D	L7D6AA47.174
CISCO867			Alcatel ISAM 7302	Broadcom	NALT-C	3FE27289AABD
			Alcatel ISAM 7330	Broadcom	EBLT-C	3FE21541AAAB
			Ericsson EDA2.1	Broadcom	EDN312xp	132 8112 R2L01 and CXC 132 8113 R2A01
			ECI Hi-Focus 480	Infineon	ATU-C (ATUC-32)	A4_9.00.60
			Fujitsu FDX Hub 1000	Infineon	ADSL IV-LCSS-FS	5.2.55.554.0
			Fujitsu FDX Hub 1000	Texas Instruments	ADSL IV-LCSS-FS	5.2.55.554.0
			Huawei MA5600	Conexant	H563ADGE VER A	322(2007-9-29)
			Lucent Stinger	Conexant	ep-hs-gs-ads12plus-card	E.67.15.1
			Nokia D500	Globespan	ADSL2+af	3,5141 and 21:21:47 May 23, 2007

Table 11. Cisco 887M ADSL-over-Basic Telephone Service Router (Annex M)

CPE			DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware
CISCO887M	ST Micro 20190P	4.0.15; Cisco IOS Software Release 15.0(1)M or later	Alcatel ASAM7300	Broadcom	ABLT-D	L7D6AA47.174
			Ericsson EDA2.1	Broadcom	EDN312xp	132 8112 R2L01, CXC 132 4220 R10A04, and CXC 132 8113 R2A01
			ECI Hi-Focus 480	Infineon	ATU-C	A4_9.00.60
			Huawei MA 5600	Conexant	ADGE	322(2007-9-29)
			Lucent Stinger	Conexant	stngr-72-gs-ads1-card	E.67.15.1

Table 12. Cisco 876 and 1802 ADSL Routers and HWIC-1ADSLI and HWIC-ADSLI-B/ST over ISDN (ADSLoISDN) (Annex B)

CPE			DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS Software	DSLAM Model	Chipset	Line Card	Firmware

		Release				
CISCO876, CISCO1802, HWIC-1ADSLI, and HWIC-ADSLI-B/ST	ST Micro 20190	4.0.15; Cisco IOS Software Release 12.4(22)T	Alcatel ASAM7300	Broadcom	ABLT-F	L7D6AA47.174
			ECI Hi-Focus 480	Infineon	ATU-C 32	A4_9.00.48
			Ericsson EDA 2.1	Broadcom	EDN312xi	CXC 132 8112 R2L01
			Siemens HiX 5300	Infineon	SUADSL:64IXA	542

Table 13. Cisco 857, 877, and 1801 Routers and HWIC-1ADSL/HWIC-ADSL-B/ST ADSL-over-Basic Telephone Service Modules (Annex A)

CPE			DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware
CISCO 857, CISCO 877, CISCO 1801, HWIC-1ADSL, and HWIC-ADSL-B/ST	ST Micro 20190	4.0.15; Cisco IOS Software Release 12.4(22)T	Alcatel ASAM7300	Broadcom	ABLT-D	L7D6AA47.174
			ECI Hi-Focus 480	Infineon	ATU-C 32	A4_9.00.48
			Ericsson EDA 2.1	Broadcom	EDN312xp	CXC 132 8112 R2L01
			Huawei MA5600	Globespan	H563ADGE VER A	MA5600V300R003
			Lucent Stinger	Conexant	ep-72-hs-gs-adsl2plus	E.67.1.36
			Nokia D500*	Globespan	ADSL2+af	3,5141,21:21:47 May 23, 2007
			Siemens HiX 5300	Infineon	SUADSL:64IXA	542

Table 14. Cisco 877M ADSL-over-Basic Telephone Service Router and HWIC-1ADSL-M (Annex M)

CPE			DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware
CISCO877M and HWIC-1ADSL-M	ST Micro 20190P	4.0.15; Cisco IOS Software Release 12.4(22)YB3 or later	Alcatel ASAM7300	Broadcom	ABLT-D	L7D6AA47.174
			Ericsson EDA2.1	Broadcom	EDN312xp	132 8112 R2L01 CXC 132 4220 R10A04, and CXC 132 8113 R2A01
			ECI Hi-Focus 480	Infineon	ATU-C	A4_9.00.60
			Lucent Stinger	Conexant	stngr-72-gs-adsl-card	E.67.15.1

Table 15. Cisco 877M ADSL-over-Basic Telephone Service Router (Annex M UK Mask)

CPE			DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware
CISCO877M	ST Micro 20190P	4.0.15; Cisco IOS Software Release 12.4(22)YB3 or later	Huawei MA 5300	Conexant	ADGE	322(2007-9-29)

G.SHDSL Platforms and Modules

Table 16. Cisco 888EA, Cisco 898EA G.SHDSL Router, and HWIC-4SHDSL-E Module with Ethernet-in-the-First-Mile Support

CPE			Mode	DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release		DSLAM Model	Controller Card	Line Card	Firmware
CISCO888EA	Infineon	IDC Firmware version:	ATM	Alcatel ASAM	SANT-F	SMLT-A	LDP7AA46.030

(2- and 4-wire support)	(bought by Lantiq)	1.7.2.0 DFE Firmware version: FW_BETA_120111A; Cisco IOS Software Release 15.2(4)M or later		7300		SMLT-C	LPR9AA46.029			
				Huawei MA5603	SCUB	SHEB	1.4.13			
				Lucent Stinger		LIM-SL-72	9.7.4 e21			
						LIM-SL-48	9.7.4 e21			
				ECI 480		STUC-16A	S3_8.10.16			
						STUC-32A	S3_8.10.16			
				Alcatel ISAM_7330_FTTN	NANT-A	NSLT-A	1.4.1			
						SMLT-J	1.2.42			
				EFM	Alcatel ISAM_7330_FTTN	NANT-A	NSLT-A	1.4.1		
							Huawei MA5603	SCUB	SHEB	1.4.13
							Huawei MA5600		SHEB	1.4.18
							Hatteras HN4000			7.1.2
Actelis ML698			SW: 7.10/35							

Table 17. Cisco 888E G.SHDSL Router and HWIC-4SHDSL-E Module with Ethernet-in-the-First-Mile Support

CPE			DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware
CISCO888E (2- and 4-wire support) and HWIC-4SHDSL-E	Conexant	G115; Cisco IOS Software Release 15.1(1)T or later	Alcatel 7302	Infineon	NSLT-A	Feature Group 4.0 and firmware Version 1.3.13
			Huawei 5603	Infineon	SHEB	1.4.13
			Hatteras HN4000e	Infineon	HN4000e	6.2.1

Table 18. Cisco 878 and 888 G.SHDSL Routers and WIC-1SHDSL-V3 with ATM Support

CPE			DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware
CISCO 878, CISCO 888, and WIC-1SHDSL-V3	Conexant	R4.3.1; Cisco IOS Software Releases 15.1(1)T1 or later, 15.0(1)M3 or later, 12.4(22)T5 or later, and 12.4(24)T4 or later R4.2.1; all other supported Cisco IOS Software releases for these platforms and modules	Alcatel 7300	Globespan	SMLT-A	LDP7AA46.020
			Alcatel ISAM 7302	Infineon	NSLT-A	1.3.13/1.3.5
			Alcatel ISAM 7330	Infineon	SMLT-J	1.2.42
			ECI 480	Infineon	STU-C 16	S3_8.10.16
			Huawei 5600	Globespan	H561SHEA	MA5600V300R003C03B028 (320(2007-9-29))
			Huawei 5600	Infineon	SHEB	H569 (336)SHEB
			Lucent Stinger	Globespan	STGR-LIM-SL-72	9.7.4e21 (firmware R3.0.5)
					stngr-48-shdsl-card	R3.0.2
			Lucent AnyMedia	Conexant	LPS702	01.29.52.05
			Nokia D500	Globespan	SHDSL24f	3,5141,21:50:35 May 23 2007
Siemens HiX 5300	Infineon	SUSHDSL:32:PAM16	S50010-M1295-A101-			

Table 19. Cisco HWIC-2SHDSL and HWIC-4SHDSL with ATM Support

CPE			DSLAM			
CPE Part Number	Chipset	Firmware; Cisco IOS Software Release	DSLAM Model	Chipset	Line Card	Firmware
Cisco HWIC-2SHDSL and HWIC-4SHDSL	Infineon	1.6.1_002; Cisco IOS Software Releases 15.0(1)M3 or later, 15.1(1)T1 or later, 12.4(15)T14 or later, and 12.4(24)T4 or later 1.5.8_002; all other supported Cisco IOS Software releases for these modules	Alcatel 7300	Globespan	SMLT-A	LDP7AA46.030
			Alcatel 7300	Globespan	SMLT-C	LPR9AA46.029
			Alcatel ISAM 7302	Infineon	NSLT-A	1.3.13/1.3.5
			Alcatel ISAM 7330	Infineon	SMLT-J	1.2.42
			ECI 480	Infineon	STU-C 16	S3_8.10.16
			Lucent Stinger	Globespan	STGR-LIM-SL-72	9.7.4e21 (firmware R3.0.5)
			Huawei 5600	Globespan	H561SHEA	MA5600V300R003C03B028 (320(2007-9-29))
			Huawei 5600	Infineon	SHEB	H569 (336)SHEB

Additional Firmware Options

For G.SHDSL platforms (Cisco 888 and Cisco 898 SHDSL), xDSL firmware is not yet available as an independent image.

For VDSL and ADSL platforms (Cisco 860VAE, 880, 880V, 880VA, and 890VA), firmware can be independently upgraded. New firmware can be downloaded from the following locations:

DSL firmware for part numbers CISCO866VAE, CISCO867VAE, CISCO886VA, CISCO887VA, CISCO887VA-M, C896VA, C897VA, and C897VAM: <http://www.cisco.com/cisco/software/navigator.html?a=a&i=rch>.

- Select **Routers**.
- Select **Branch Routers**.
- Select **Cisco 800 Series Routers**.
- Select **Cisco 886VA Integrated Services Router, Cisco 887VA Integrated Services Router, Cisco 887VAM Integrated Services Router, Cisco 866VAE Integrated Services Router, Cisco 867VAE Integrated Services Router, Cisco C896VA Integrated Services Router, Cisco C897VA Integrated Services Router**, or **Cisco C897VAM Integrated Services Router**.
- Select **Very High Bitrate DSL (VDSL) Firmware**.

DSL firmware for part numbers CISCO887V and HWIC-1VDSL:

<http://www.cisco.com/cisco/software/navigator.html?a=a&i=rch>.

- Select **Routers**.
- Select **Branch Routers**.
- Select **Cisco 800 Series Routers**.
- Select **Cisco 887V Integrated Services Router**.
- Select **Very High Bitrate DSL (VDSL) Firmware**.

Supported ADSL firmware for ST Micro chipset-based products with part numbers CISCO857, CISCO867, CISCO876, CISCO886, CISCO877, CISCO877M, CISCO887, CISCO887M, CISCO1801, CISCO 1801-M, CISCO1802, HWIC-1ADSL, HWIC-ADSL-B/ST, HWIC-1ADSLI, HWIC-ADSLI-B/ST, and HWIC-1ADSL-M:

<http://www.cisco.com/cgi-bin/tablebuild.pl/800>, <http://www.cisco.com/pcgi-bin/tablebuild.pl/800> or <http://www.cisco.com/cisco/software/navigator.html?a=a&i=rch>.

- Select **Routers**.
- Select **Branch Routers**.
- Select **Cisco 800 Series Routers**.
- Select one of the ST Micro-based ADSL routers listed previously.
- Select **Asymmetric Digital Subscriber Line (ADSL) Firmware**.




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