

Yahoo DSL is Internet only access.

If access to DOIT is necessary, then VPN must be implemented.

The following link will bring you to the VPN request form that must be filled out completely, preferably by an IT person at the agency. This individual must know which IP addresses the user needs to get to.

<http://www.catalog.state.ct.us/Forms/ENS/vpnrnas.htm>

Each user must have their own VPN account.

If there are going to be multiple users sharing the same Yahoo DSL connection, then the agency will have to order additional public IP addresses through SBC.

VPN doesn't allow sharing of an IP address. Each user will need a public IP address.

VENDOR NAME: SBC SNET

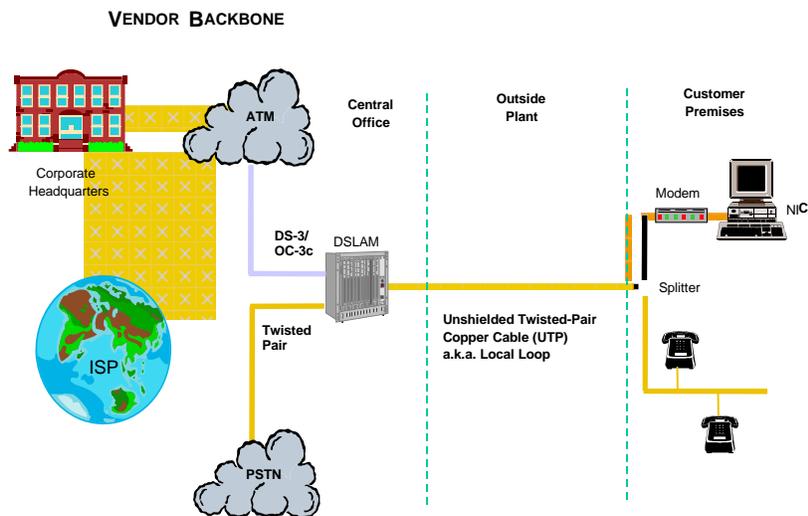
FEIN: 06-054-26-46

SERVICE/PRODUCT NAME: xDSL Service: Remote Local Area Network Digital Subscriber Line (RLAN DSL) and Yahoo! DSL

SERVICE/PRODUCT DESCRIPTION:

Remote Local Area Network Digital Subscriber Line (RLAN DSL)

Remote Local Area Network Digital Subscriber Line (RLAN DSL) transport service is provided to businesses with a local area network (LAN). RLAN DSL enables a business to allow access to its LAN remotely. Examples of this service are corporate work-from-home and remote office applications, as well as remote learning applications for academic institutions. The business purchasing the RLAN DSL acts as the customer and must authorize each end user's connection to the RLAN DSL service.



The diagram above depicts our network backbone. SBC SNET DSL provides an always on, virtual private line connection from the customers premises (either a single PC or a multi-PC/LAN) to the local serving central office or DSL remote. At the central office or remote, the service is connected to the SBC SNET ATM Cell Relay Network for delivery to the ISP or corporate LAN.

RLAN DSL Service Options and Available Speeds

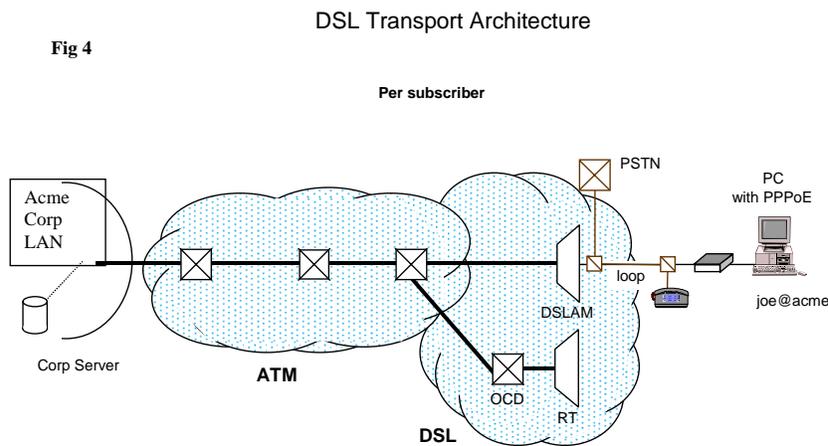
RLAN DSL Service	Downstream	Upstream
Primary	Up to 384 kbps	128 kbps
Primary +	Up to 1.5 Mbps	128 kbps
Basic	384 kbps - 768 kbps	128 kbps
Basic +	768 kbps - 1.5 Mbps	256 kbps
Symmetric	384 kbps	384 kbps
Premium	1.5 Mbps - 4 Mbps	384 kbps
Premium +	4 Mbps - 6 Mbps	384 kbps

ATM Connection

SBC SNET's ATM network connects the RLAN user to the customer's corporate network. Each RLAN user connects to the corporate ATM facility (typically located at the customer's corporate data center) through a virtual circuit. The ATM facility can operate at DS1, DS3 or OC3 speeds.

Bandwidth on the serving facility is provisioned as unspecified bit rate (UBR). UBR bandwidth charges for DSL traffic over an ATM circuit are determined by the number of DSL lines multiplied by the downstream bandwidth for each DSL line.

For example, if there are ten 1.5 Mbps DSL lines, then the UBR charge is for 15 Mbps. Once the billed UBR bandwidth reaches the available port speed, UBR bandwidth is no longer charged when adding additional users. This does not prohibit how many DSL customers an ATM port can support.



Quantity of DSL RLAN Users

The number of ADSL customers that an individual ATM port can support depends on many factors. Each business must determine the maximum number of DSL customers they will terminate on their ATM interface based on the following factors:

- ATM port speed (DS1, DS3, OC3)
- ATM terminating equipment (router or switch)
- DSL end user speed (higher or lower speed)
- Bandwidth concentration ratio
- Percent of end users simultaneously on-line
- Other bandwidth requirements on the ATM Port (CBR, VBR)

Port Speed	SNET Max PVCs per Port*	VPI Range	VCI Range
DS-1 (1.5 Mbps)	100	2-63	34-255
DS-3 (45 Mbps)	2,000	2-63	34-255
OC-3 (155 Mbps)	4,000	2-63	34-255

* The "max PVCs per port" is SBC SNET's maximum is based on our ATM switch supplier and should not be considered a recommendation.

SBC Yahoo! DSL (DSL Internet)

ADSL:

SBC SNET offers ADSL (Asymmetric Digital Subscriber Line) with Internet access. Taking advantage of a portion of the phone line that goes unused during voice communications, ADSL technology sends both data and voice over the same line, enabling subscribers to simultaneously use the Internet and talk on the phone. This service is provided under our SBC Yahoo! DSL packages.

SBC Yahoo! DSL packages include these features:

- Personalized SBC Yahoo! DSL homepage
- Customized SBC Yahoo! DSL browser
- SBC Yahoo! Mail account with 25MB of storage, POP access and email forwarding
- Up to 10 additional SBC Yahoo! Mail accounts with 10MB of storage each, POP access and email forwarding
- SBC Yahoo! Messenger with high-quality video
- SBC Yahoo! Photos and Briefcase with 110MB of online storage
- Three SBC Yahoo! Classifieds basic ads
- Three SBC Yahoo! Auctions listings
- Three Consumer Reports® guides
- SBC Yahoo! Parental Controls
- Firewall software to help shield your computer from unauthorized access
- Unlimited nationwide dialup Internet access

SDSL:

SBC SNET also offers SDSL (Symmetric Digital Subscriber Line) with Internet access. SDSL technology runs on a single loop (two wires) and provides symmetric line rates. Since it uses the voice band frequency, analog voice service is not provided. SDSL technology can be a low-cost replacement for leased-line service.

Internet DSL Service Options and Available Speeds:

DSL Service	Downstream	Upstream	IP Addresses
Pro	1.5 Mbps - 3 Mbps	384-512 kbps	1 dynamic
Express	384 kbps - 1.5 Mbps	128-384 kbps	1 dynamic
Pro- S	1.5 Mbps -3 Mbps	384-512 kbps	5 static
Express-S	384 kbps - 1.5 Mbps	128-384 kbps	5 static
Symmetric-S	384-416 kbps	384-416 kbps	5 static

DSL Routers and Filters:

SBC SNET supports the Netopia 3346N, a DSL broadband router. It is an all-in-one device combining the DSL modem with a robust 4-port 10/100 Ethernet Switch. The Netopia 3346N is easy-to-use with a web-based user interface and no software to load on a PC. It provides secure access with a built-in NAT firewall, VPN IPSec pass through support, and a security monitoring log.

The Netopia 3346N router includes the following features:

- **Built-In ADSL Modem** - The Netopia 3346N is an all-in-one device that includes an ADSL modem combined with a business-class Router and 4 Port 10/100 Ethernet Switch.

- **Support Multiple PCs** - Includes 4 built-in ports for direct PC connection, but will actually support a total of 253 PCs, with Dynamic and/or Static IP addressing
- **Firewall Security** - Includes built-in NAT Firewall and Stateful Packet Inspection Firewall, with Firewall configuration options, along with a Security Monitoring Log that tracks attempted intrusions along with their source IP address.
- **VPN Support** - VPN (Virtual Private Network) is a common tool used for encrypted communication across the public Internet (ideal for telecommuters or branch offices). The Netopia 3346N supports pass-through of leading VPN protocols (IPSec, PPTP, L2TP) with no configuration required. The Netopia 3346N also comes with a VPN IPSec Client that is included at no additional cost. The IPSec VPN Client is a powerful mechanism for creating secure tunnels over the public Internet between two sites.
- **Flexible & Easy to Use** -No software to load on the PCs means no Operating System conflicts. The Netopia 3346N also includes a user-friendly Web based user-interface
- **Self-Diagnostics** - Built-in Self-Diagnostics run comprehensive 7 layer diagnostic testing LAN network connections, ADSL synch, ATM layer, DNS server, and more.

DSL Internet Service makes use of low-pass microfilters for each analog device such as telephones and fax machines. The intent of the filters is to remove any DSL signal noise from your voice service, allowing both voice and data to share common inside wiring. The filter is between the analog device and the phone jack and does not require any tools for installation. The customer self-installed equipment packages include four in-line and one wall mount filter.

Additional IP Addresses

The SBC Yahoo! DSL offerings (Pro-S, Express-S and Symmetric-S) include 5 static IP addresses with the basic service. Additional static addresses may be purchased in blocks of 13, 29, 61 and 125. Yahoo! retains ownership of the IP addresses. The IP addresses are non-portable and may not be used when connected to another ISP. SBC Yahoo assigns these IP addresses to the customer for their use while connected to SBC Yahoo.

There are some activities that you will have to perform in order to use the additional IP addresses. In order to utilize the IP address space allocated to us judiciously, SBC will take back the original block of 5 addresses and give you a new block of addresses to fulfill your request. This means that you will have to renumber existing hosts on your network possibly, or at the very least change some statements on your equipment that refer to the original IP address block. You should also take into consideration any DNS records that might have been created on name servers. Any existing records should be modified to reflect the new IP addresses.

SERVICE LEVELS:

Installation Intervals

Less than 10 lines = 15 business days

10 or more lines = Individual Case Basis

Routine Repair Intervals

Response time = Less than 1 hour

Repair Resolution time = 4 hours or less

Repair Service Level Definitions:

Repair Response is the time elapsed between when SNET receives a report of a problem or otherwise becomes aware of a problem, and the time that SNET responds to the end user or other designated contact to verify the problem.

Repair Resolution Time means the elapsed time between when the State notifies SNET of a problem, and the time that SNET restores service and such service is acceptable to the State.

Warranty / DSL Customer Premise Equipment (CPE)

(Netopia 3346N DSL Router, Modem, Splitters, Filters)

SBC DSL CPE carries a (1) year warranty for all DSL CPE purchased from SBC ASI on or after March 29, 2002. During the (1) one-year warranty, SBC will replace any defective DSL CPE purchased from SBC at no additional charge upon return of the defective DSL CPE. The (1) one-year warranty period begins on the order completion date. Returns should be processed by calling the ASI Help Desk at 1- 877-SBC-DSL5.

SERVICE AVAILABILITY/LIMITATIONS:

SERVICE AVAILABILITY

See Service Availability spreadsheet

SBC Yahoo! DSL System requirements

Personal Computer (PC)

Minimum Requirements

- Microsoft® Windows® 98/2000/ME/XP or Windows NT 4.0 with service pack 6a or above
- Minimum of 64 MB of RAM
- Pentium®-class processor, 266 MHz or faster
- 125 MB of free disk space
- CD-ROM or DVD drive
- Ethernet Card
- DSL Modem
- 16 bit color video adapter with 800 x 600 resolution
- Keyboard and mouse

Recommended

- 300 MHz processor
- 128 MB RAM
- 24-bit true color video card
- 32-bit sound card

Macintosh

Minimum Requirements

- Power PC Macintosh computer, G3, G4 or iMac
- MacOS version 8.6 through OS X 10.1.4 (excluding OS X 10.0 and 10.2)
- Minimum 64 MB of RAM
- 100 MB of free disk space
- Ethernet Card
- DSL Modem
- Internet browser

VENDOR NAME: SBC SNET

VENDOR FEIN: 06-054-26-46

SERVICE NAME: xDSL Service: Remote LAN (RLAN) DSL Transport Service and Yahoo! DSL

A 2% credit will be issued monthly against the items ordered from this Product Schedule per the SBC SNET Master Agreement

Activity (Add, Delete, Change)	Date of Vendor Request	Date Approved By DOIT	Item	Item Code	Description of Service/Equipment	Unit	Non-Recurring Cost	Recurring Monthly Cost
					RLAN:			
Change	05/13/05	05/16/05	3	V7D11	Basic I: 384-1.5 mbps down / 128-384 kbps up	line (50-249 total)	\$50.00	\$46.00
Change	05/13/05	05/16/05	4	V7DT1	Basic + : 768 kbps to 1.5 mbps down/ 256-384 kbps up	line (50-249 total)	\$50.00	\$61.00
Change	05/13/05	05/16/05	5	V7DU1	Symmetric: 384-416 kbps down/ 384 - 416 kbps up	line (50-249 total)	\$50.00	\$91.00
Change	05/13/05	05/16/05	6	V7DW1	Premium I: 1.5- 6 mbps down/ 384- 608 kbps	line (50-249 total)	\$50.00	\$116.00
Add	05/13/05	05/16/05	7a	V7DW1	Advanced: 1.5-3 mbps down/384-512 kbps up	line (50-249 total)	\$50.00	\$80.00
Add	05/13/05	05/16/05	7b	V7DW2	Advanced +: 3-6 mbps down / 512-768 kbps up	line (50-249 total)	\$50.00	\$96.00
Add	11/12/03	11/21/03	10	V7DS2	Basic: 384 to 768 kbps down/ 128 kbps up	line (250-600 total)	\$50.00	\$45.00
Add	11/12/03	11/21/03	11	V7DT2	Basic +: 768 kbps to 1.5 mbps down/ 256 kbps up	line (250-600 total)	\$50.00	\$60.00
Add	11/12/03	11/21/03	12	V7DU2	Symmetric: 384 kbps down/ 384 kbps up	line (250-600 total)	\$50.00	\$90.00
Add	11/12/03	11/21/03	13	V7DV2	Premium: 1.5 to 4 mbps dn/ 384 kbps up	line (250-600 total)	\$50.00	\$115.00
Add	11/12/03	11/21/03	14	V7DW2	Premium +: 4 to 6 mbps down/ 384 kbps up	line (250-600 total)	\$50.00	\$170.00
					DSL Routers and Filters:			
Add	11/12/03	11/21/03	15	VT6T1	Technician installation	dispatch	\$200.00	\$0.00
Add	11/12/03	11/21/03	16	NA	Customer self installation	n/a	\$0.00	\$0.00
Add	11/12/03	11/21/03	17	1CRAS	Unsuccessful customer self installation	dispatch	\$150.00	\$0.00
Change	05/13/05	05/16/05	18	XCBCDC	Modem package (Ethernet modem, Filter pkg, RJ31X cable and Install guide)	package	\$99.00	\$0.00
Add	05/13/05	05/16/05	20-a	3346N002	Router package (Netopia 3346N, cables, filter pkg, documentation,CD)	package	\$149.00	\$0.00
Add	11/12/03	11/21/03	21	HPCEX	Additional NIC	nic	\$40.00	\$0.00
Add	11/12/03	11/21/03	22	K330-L22	Filter package	package	\$20.00	\$0.00
Add	11/12/03	11/21/03	24	NHCD6	Additional PC wiring	PC	\$80.00	\$0.00
Change	05/13/05	05/16/05	25	VRQ6X	Installation of wiring or jack (Netopia Router-per PC)	location	\$120.00	\$0.00
					ATM Connectivity (for use with RLAN):			
Add	11/12/03	11/21/03	26	BR2U5	ATM Bandwidth UBR (per 1/2 Mb)	1/2 Mb	\$0.00	\$4.50
					Yahoo! DSL:			
Add	05/13/05	05/16/05	27	N83YK	Yahoo! Pro (1.5-3.0Mbps down/384-512 up) dynamic w SBC All Distance	line	\$0.00	\$36.99
Add	05/13/05	05/16/05	28	N83YM	Yahoo! Pro (1.5-3.0Mbps down/384-512 up) dynamic	line	\$0.00	\$41.99
Add	05/13/05	05/16/05	29	N82SK	Yahoo! Express (384 kbps-1.5Mbps down/128-384 kbps up) dynamic w SBC All Distance	line	\$0.00	\$26.99

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Add	05/13/05	05/16/05	30	N83RR	Yahoo! Express (384 kbps-1.5Mbps down/128-384 kbps up) dynamic	line	\$0.00	\$31.95
Add	05/13/05	05/16/05	31	N83YS	Yahoo! Pro-S (1.5-3Mbps down/384-512 up)static w SBC All Distance	line	\$0.00	\$74.99
Add	05/13/05	05/16/05	32	N83YY	Pro-S (1.5-3Mbps down/384-512 up) static	line	\$0.00	\$79.99
Add	05/13/05	05/16/05	33	N83BE	Yahoo! Express-S (384K-1.5Mbps down/ 128-384Kbps up) w SBC all distance	line	\$0.00	\$59.95
Add	05/13/05	05/16/05	34	N83BF	Yahoo! Express-S (384K-1.5Mbps down/ 128-384Kbps up)	line	\$0.00	\$64.95
Add	05/13/05	05/16/05	35	N83B0	Yahoo! Symmetric-S (384-416 down/up) w SBC all distance	line	\$0.00	\$84.99
Add	05/13/05	05/16/05	36	N83BP	Yahoo! Symmetric-S (384-416 down/up)	line	\$0.00	\$89.99
Add	07/12/05	07/21/05	37	NHC6A	13 Add'l Static IP Addresses Yahoo! DSL	block	\$100.00	\$0.00
Add	07/12/05	07/21/05	38	NHC6C	29 Add'l Static IP addresses Yahoo! DSL	block	\$200.00	\$0.00
Add	07/12/05	07/21/05	39	NHC6E	61 Add'l Static IP addresses Yahoo! DSL	block	\$300.00	\$0.00
Add	07/12/05	07/21/05	40	NHC6G	125 Add'l Static IP addresses Yahoo! DSL	block	\$400.00	\$0.00

NOTE: Grey highlighted items are no longer available. They have been either deleted, changed, and/or no longer apply.