



LEARN services are available at points of presence (POPs) located throughout the great state of Texas. POPs are located in the cities of Houston, College Station, Dallas, Waco, Waller, Austin, Corpus Christi, Victoria, Tyler, Beaumont, Denton, Lubbock, Midland, San Angelo, and San Antonio. LEARN provides the following services:

Colocation Services

Subject to availability, LEARN can provide a variety of colocation services at its points of presence (POPs). LEARN POPs are well secured and offer robust power and cooling. LEARN can provision rack space, inter-connection to other services and can arrange cross-connects to third-party providers. For members with AC power requirements, LEARN can offer colocation suitable for enterprise demands and business continuity applications at the Dallas POP location.

LEARN Dedicated WaveNet Services

LEARN can provision dedicated high capacity city pair services between the POPs. Typically, these services are provisioned as 1 GigE or 10 GigE, however, legacy OC-n is also available. WaveNet services are suitable for enabling private Layer 2/3 network and back-hauling data to other LEARN services. Initial non-recurring charges for WaveNet city pair varies and quotes are available upon request.

LEARN FrameNet Services

FrameNet service is an Ethernet-based, shared Layer 2 cloud and is available at selected LEARN POPs. This service supports client defined VPNs, which are suitable for enabling back-haul, path protection, and private intranet for connecting multiple sites within Texas.

LEARN Layer 3 Service

A full suite of IP services are available including access to research and education IP networks, Texas Education and Research Intranet, peering with content providers and other networks, and the Commodity Internet Service.

Research and Education Layer 3 Aggregation Service

LEARN is a Regional Connector for the Internet2 IP Network and the National LambdaRail PacketNet IP service. Eligible members can access these services by subscribing to this aggregation service. LEARN can offer Layer 3 connectivity at POPs in Houston and Dallas.

LEARN MEMBER RATE CARD

Please note that rates and related activities listed below are established by the Board and adjusted, as required.

Bandwidth Services

LEARN Layer 3 Service:

Pricing is determined based on customer requirements and scope of services desired. Inquiries should be directed to the LEARN offices by phone (806) 743-7878 or by email at info@tx-learn.net.

Research and Education Layer 3 Aggregation Service:

The monthly rate for a *single* 10G port in Dallas or Houston is \$14,669.

WaveNet and FrameNet Services:

The following rates are effective 1/1/2012 through 12/31/2012.

	<u>NRC</u>	<u>MRC</u>
Dedicated LEARN 1G WaveNet between Adjacent City Pairs	TBD	\$ 1,900
Dedicated LEARN 10G WaveNet between Adjacent City Pairs	TBD	\$ 5,600
Dedicated LEARN 10G WaveNet between <i>Houston</i> and <i>Dallas</i>	TBD	\$ 8,400
Dedicated LEARN 40G WaveNet Between Adjacent City Pairs	TBD	\$11,200 ⁽¹⁾
Dedicated LEARN 100G WaveNet Between Adjacent City Pairs	TBD	\$16,800 ⁽¹⁾
Shared LEARN 1GigE FrameNet	\$ 1,100	\$ 1,375

⁽¹⁾ Deploying 40G and 100G services will require a 2-year network services agreement between LEARN and the member. The NRC will be determined based on current practices and policies.

Metro WaveNet Services:

	<u>NRC</u>	<u>MRC</u>
Dedicated LEARN 1G WaveNet between Adjacent POPs	TBD	\$ 500*
Dedicated LEARN 10G WaveNet between Adjacent POPs	TBD	\$ 1,000*

*The monthly recurring charge will not apply, if the metro system is connecting either a LEARN provided WaveNet city pair or FrameNet services at both adjacent POPs.

Colocation Services

These services are available at the LEARN POPs and vary by underlying provider capabilities and offerings.

The table below depicts pricing for planning purposes only. The LEARN office will provide firm quotes for specific POP locations.

	<u>MRC</u>
Full Rack with 60 amps DC Power	\$ 1,155
Full Rack with 30 amps DC Power	\$ 809
Each ¼ Rack with 20 amps DC Power	\$ 616
Each ¼ Rack with 10 amps DC Power	\$ 391
Each 1U Rack space with 5 amps DC Power	\$ 110

When LEARN's cost increases for CPI or other reasons, these costs will be passed through proportionally, without markup, during the next renewal cycle to customers.

Optical and Copper Cross-Connect and Riser Fiber Services

These and other services are available at various LEARN facilities. Initial and recurring costs vary by site and vendor, quotes are available on request. The LEARN office will provide firm quotes for specific POP locations.

LEARN AFFILIATE FEE

This fee applies to LEARN members that provide the benefits of LEARN services by providing aggregation services to non-member institutions. The fee is determined on January 1st of each year and is based on the number and type of non-member organizations connected to a LEARN member's aggregation service. The fee schedule is as follows:

INDEPENDENT SCHOOL DISTRICTS & EDUCATION SERVICE CENTERS

<u>Category</u>	<u># of Students ⁽¹⁾</u>	<u>Annual Fee</u>
1	< 5,000	\$ 100
2	≥ 5,000 – 49,999	\$ 1,200
3	≥ 50,000	\$ 3,000

⁽¹⁾ ESCs based on the number of employees.

COMMUNITY COLLEGES

<u>Category</u>	<u># of Students</u>	<u>Annual Fee</u>
1	< 5,000	\$ 1,200
2	≥ 5,000	\$ 3,000

PUBLIC ORGANIZATIONS

<u>Category</u>	<u>Annual Fee ⁽²⁾</u>
1	\$ 50
2	\$ 100
3	\$ 1,200
4	\$ 3,000

⁽²⁾ The category for the Public Organizations will be determined by the aggregator and LEARN's Executive Director after considering the size and budget of the organization and the scope of service provided.

COLLEGES & UNIVERSITIES ⁽³⁾ Annual Fee – \$3,000

⁽³⁾ As defined in Chapter 61 of the Education Code.