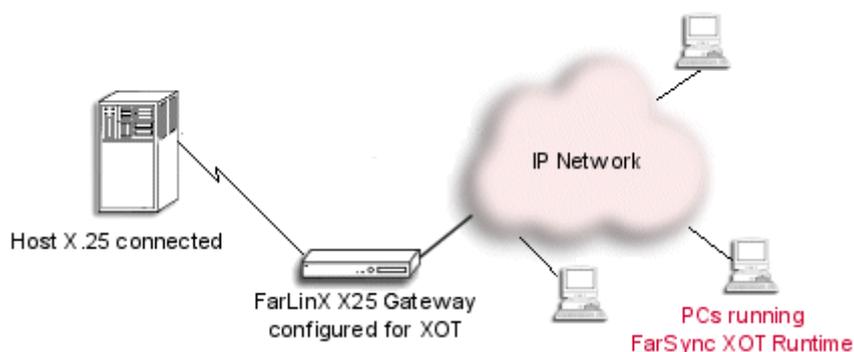


Key Features

- Supports SVCs and PVCs
- 4,095 simultaneous sessions
- Developers Toolkit and Line Monitor
- Sockets and Java APIs to access XOT
- ISO Transport API
- Supported on multi-processor, 32 and 64 bit systems
- IPv4 and IPv6 support
- Supported distributions: Redhat, SuSE, Mandrake, Debian, Fedora, Ubuntu, Slackware and more



Overview

FarSync XOT Runtime has been developed to provide high performance and very reliable XOT connectivity for Linux. FarSync XOT Runtime for Linux inter-operates with the FarLinX X25 Gateway, FarSync XOT Runtime for Windows and other third party XOT devices, which can allow a complete X.25 network to be replaced by TCP/IP including IPv6, eliminating hardware and costs just leaving a short X.25 connection to the host. The diagram above illustrates this.

There are 2 main APIs, a Sockets based interface and a Java API. There is also an APIs to the ISO Transport layers (ISO 8073 - connection oriented). A comprehensive Developers Toolkit is included with the product. The API is compatible with the FarSync X.25 APIs.

FarSync XOT Runtime is supported on Linux kernel series versions 2.6 and 3.0, including the leading distributions supplied by Redhat, SuSE, Mandriva, Debian, Ubuntu, Slackware, Fedora and others. Multi-processor, 32 and 64 bit systems are supported. **FarSite is committed to supporting the FarSync XOT products on new versions of Linux as they are released.** The source code for the driver and the libraries for the API are supplied with the product.

New features with version 3.2

- Major speed improvements in data throughput, particularly using large numbers of sessions, now up to 160 Mbps
- Full decode X.25 and higher level protocols available using Wireshark protocol analyser application
- Private XOT facilities now passed to the application
- PVCs greater than 256 now supported
- Epoll supported
- Improved API documentation

Typical Applications

The FarSync XOT Runtime is suitable for connection to remote systems running XOT, typical applications:

- XOT replacements for X.25 networks
- E-Commerce gateways for credit verification

Developers Toolkit

The developers toolkit is included free with the FarSync XOT Runtime product and features:

- Documented working C and Java source sample programs. Source code from these samples can be used to fast-track your development process
- Comprehensive API manuals with function call definitions and helpful advice on the best way to utilise the various interfaces
- Source code for the drivers and API libraries
- Free email and telephone assistance by FarSite Engineering group to application developers

APIs for Application Development

For application developers needing to access XOT there is a **choice of a Sockets API or a Java API**. Both APIs interfaces may be used simultaneously by different programs if required. API manuals and many example applications are included in the Developers Toolkit for both types of interface. The APIs are compatible with the APIs for FarSync X25 adapters.

Sockets API - XOT

The Sockets interface provides a programming language independent high level connection orientated interface with access to a comprehensive set of X.25 features. The FarSync Sockets implementation is compatible with the BSD Sockets interface. The API is compatible with the Sockets API for the FarSync X25 cards. Multi-threaded applications are supported.

Java API - XOT

The Java API allows applications written in Core Java Software (J2SE) and Enterprise Java Software (J2EE) easy access to the functions and features of FarSync XOT. Full documentation and sample applications are provided.

Configuration

Configuration is by a Java and XML-based GUI configuration application. A typical screen is shown below.

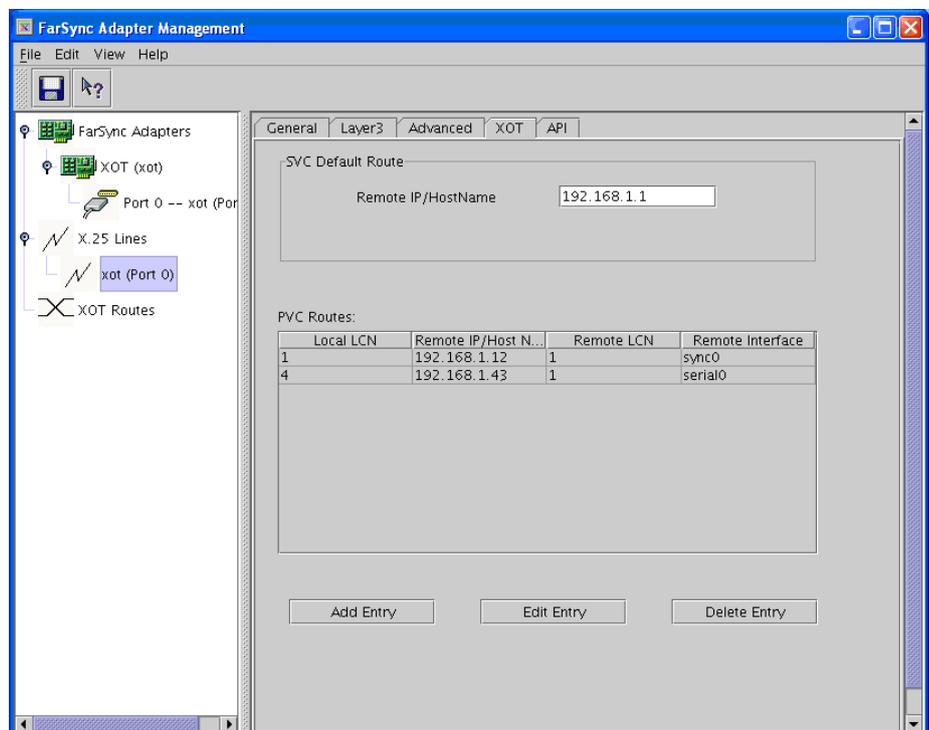
Text file based configuration is also available if required.

Installation

Installation scripts adapt to install the software on the major Linux distributions and a manual install option is available using the scripts as a guide, available on the CD-ROM or for download from the Support section of www.farsite.com.

Source code is available as a .tar.gz.

A comprehensive configuration guide, commands reference and configuration examples are provided as part of the HTML documentation pack.



Utilities

A line monitor utility is included, this can display data sent over the XOT lines at the frame and packet level, it is invaluable when developing and debugging applications.

A status utility allows display of the channel connection status and statistics of user data, packet and frame types.

Packaging

The XOT software, drivers, utilities and the Developers Toolkit are all included on the CD-ROM.

The XOT software is regularly updated and available for downloading from the Download page in the Support section of www.farsite.com.

Software Specifications for FarSync XOT Runtime for Linux		
Operating Systems supported	Linux distributions supplied by Redhat, SuSE, Mandriva, Debian, Ubuntu, Slackware, Fedora and others. FarSite is committed to supporting the FarSync XOT Runtime on new versions of Linux as they are released.	
Linux Kernel support	All sub versions of kernel releases from series 3.0 and 2.6.9. The product may operate successfully with earlier versions of the kernel but no specific testing has been undertaken.	
64 bit and multi-processor systems	Designed for and tested on single and multi-processor) Servers, 32 and 64 bit systems.	
TCP/IP	IPv4, IPv6	
XOT Features		
XOT specification	Complies with RFC 1613 - X.25 over TCP (XOT)	
Maximum SVCs / PVCs	4,095, any mix of SVC and PVC	
Maximum XOT connections	Up to 4,095	
Data Throughput	Up to 160Mbits/s	
Data Packet size range	0 to 4096 bytes	
OOB (Out of Band) data	OOB support for Interrupts, Resets and the D bit	
XOT (X25) facilities supported	Closed User Group (CUG), Network User Identifier (NUI), Fast Select, Packet and Windows size negotiation, Throughput Class Negotiation.	
Accessible via API	Yes, a Sockets based interface and a Java API	
ISO Transport over XOT Features		
Standard supported	ISO 8073 (connection oriented), Classes 0, 1, 2 and 3	
Classes Negotiation	Yes	
Maximum connections	4,095	
Accessible via API	Yes, a NCB API	
Developers Toolkit		
XOT API	Sockets API , easy to use, provides access to the XOT features, recommended for most developments. Java API , allows easy access to XOT from Java applications.	
ISO Transport API	NCB based API providing access to all the features of the ISO Transport support. Can operate simultaneously with access to the XOT layer.	
API reference manuals	Manuals: XOT and X.25 Sockets API, ISO Transport API and Java API documentation	
Sample programs	Included, large number of example applications are available for driving the various APIs.	
Source code	Included for drivers, the API libraries and sample C and Java applications	

Order Information

Product Name	Description	Product Code
FarSync XOT Runtime	XOT (X.25 over TCP/IP) Runtime software for Linux	FS9506

All trademarks and registered trademarks are acknowledged.

Changes are periodically made to the information herein; these changes will be incorporated into new editions of the publication. FarSite Communications may make improvements and/or changes in the products and/or programs described in this publication at any time.

