PRODUCT PREVIEW

Ethernet Trunk Management Software
IEEE 1588 Module

Key Features

- Implements the Precision Time Protocol (PTP)
- Support for Ordinary Clocks, Boundary Clocks, and Transparent Clocks
- Can operate as a Grandmaster, Master, Slave or Passive device
- Integrates with NComm SSM and SYNCE TMS product for full system timing management
- Fully Standard Compliant
- Pre-ported to Linux (version 2.4, 2.6 and 3.x)
- OS independent
- MIB support
- Easily customizable to hardware environments (e.g. for time stamping)

Ethernet TMS handles the Precision Time Protocol requirements defined by the IEEE 1588 standard. In addition, the IEEE 1588 timing source can act as a source of timing for NComm Synchronization Status Message (SSM) TMS product. The SSM TMS manages the timing distribution for a system from sources including IEEE 1588 as well as T1, E1, E3, and SONET/SDH.

Ethernet TMS includes the higher level, managed object MIB-style of control and status methodology to properly manage the IEEE 1588 product.

The IEEE 1588 product will provide PTP support over Ethernet, IPV4 and IPV6 transport topologies. Other technologies are available upon request.

NComm’s Ethernet TMS is supplied as ANSI C source code. User manuals, implementation training and technical support are also included with each license. A sample demo application provides functionality very quickly. This sample application also functions as a guide for integration of the Ethernet OAM TMS API into the upper management or control systems of your choice.

Key Benefits

- Turnkey solution
- Easy to use APIs
- Sample application included
- ANSI C Source Code
- Driver Included

With NComm’s proven source code and protocol stack, you have the quality and standard compliance interfaces that you need for less cost than you can do it yourself.

Applications

- Routers
- Switches
- Base Stations
- Access Points
- Aggregation devices
- Test Equipment
- Central Office Switches

Product Overview

NComm’s Ethernet TMS puts the IEEE 1588 functionality within the reach of every equipment manufacturer.
IEEE 1588 Software Architecture

As with the entire TMS family of software, the IEEE 1588 product is architected to be hardware and operating system independent. Well-defined APIs are employed for faster first time integration and ease of reuse.

IEEE 1588 Software Architecture

IEEE 1588 User Applications

User Space

Kernel Space

Other Protocols/Services
(TCP/IP, etc.)

IEEE 1588 Protocol Handler
Ethertype 88F7
Or IPV4 Interface
Or IPV6 Interface

O/S Drivers

Hardware Driver

LAN/WAN Hardware

CTRL

POLL

CLBK

NComm Ethernet API

1588 Module

Driver and IEEE 1588 Software Architecture