

Sedona Networks 1000 Product Brief

Abstract

This document provides a description of the Sedona Networks 1000 Integrated Access Device. A description of the system architecture and functionality is also provided.

Sedona Networks 1000 Overview

The Sedona Networks 1000 is an intelligent integrated access device (IAD) that provides converged voice and data services for small- and mid-sized business customers in multi-tenant and multi-unit applications.

At the customer's site, the Sedona Networks 1000 accepts user voice and data traffic and this information is integrated onto a single access pipe for transmission to the carrier's central office.

Sedona Networks 1000 is effective for any switched or bridged access network technology such as ATM, Ethernet or Frame.

Sedona Networks 1000 Feature Overview

The Sedona Networks 1000 delivers the following capabilities.

- ***Data Services***
 - IP, Routing: Static
 - PPPoE Sessions
 - RADIUS Sessions
- ***Data Interfaces: Network Side***
 - 10 Base T Ethernet Port
 - SDSL
 - T1
- ***Data Interfaces: Subscriber Side***
 - Seven port 10/100 managed Ethernet switch
- ***Voice Services and Features***
 - FXS voice ports
 - DSX-1 port providing 24 DS0s for ISDN PRI or T1 CAS services
 - Expandable to 48 voice ports (i.e., 48xFXS or 2xDSX-1)
 - Dial pulse and DTMF dialing
 - Silence suppression and comfort noise generation
 - High speed Fax and Modem transport
 - Support for BLES can be achieved with some software development
 - Support for soft-switch interoperability via an MGCP interface
 - Simultaneous interoperability with a voice gateway and a soft-switch can be achieved simultaneously
 - G.711 PCM and G.726 ADPCM (32 kbps)
- ***OAM&P Features***
 - Fault Management
 - Configuration Management
 - Accounting Management

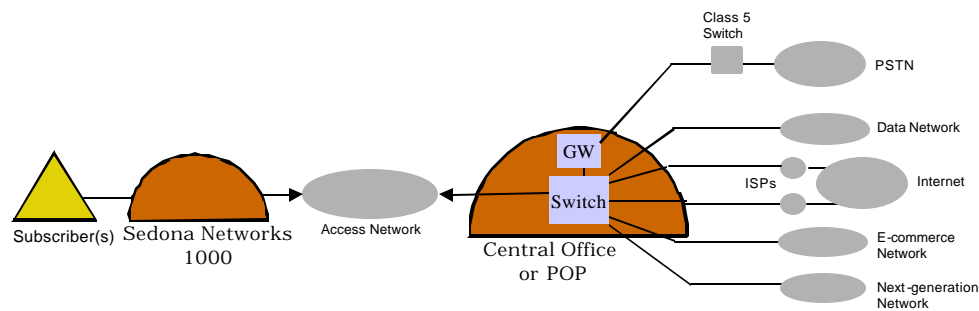
- Performance Management
- Security Management

Application Overview

Applications

The primary application of the Sedona Networks 1000 is to enable service providers, including CLECs, IXC's, ILECs etc., to cost effectively and rapidly deploy bundled voice and data services.

The Sedona Networks 1000 accepts voice and data traffic at the customer premise and creates a single traffic stream for transport to a carrier central office or switching center. The Sedona Networks 1000 would be connected to data access equipment such as a DSLAM or Ethernet switch that forwards the packetized voice and data traffic to a voice gateway and to a data switch respectively. The following figure illustrates the application.



System Connection to the Access Network