

Your Technology Connection!

H.323 Stack

Agora Labs' products include the industry-leading elemedia[®] H.323 Protocol Stack and compression technology for Video.

The Agora Labs Software Platforms

The Agora Labs software platforms are the most scaleable and reliable in the industry. Originally sold by Lucent's elemedia venture, the stack has been thoroughly tested and utilized by IP service providers. Today, our products are among a minority of offerings usable in high-end networks.

The Software Architecture

Modular and hardware-independent, Agora Labs' software architecture is a perfect solution for carriers with heterogeneous configurations.

The Agora Labs Advantage

With all of the other IP Telephony platform providers in the marketplace, why choose elemedia? We offer a competitive advantage over the other providers in the following areas:

- **Modular and flexible design** enabling cost effective, distributed, and scalable implementations
- **Carrier-grade quality:** high reliability, high scalability, and high interoperability
- **Scalability** from low-end to carrier-grade solutions for central office applications
- **Flexible design** enabling distributed architectures
- **Expertise** and assets in Internet telephony software components:
 - H.323 Protocol Stack
 - Video coding



Guaranteed H.323 Interoperability!

Site
URL

The Agora Labs H.323 Protocol Stack product line implements the ITU family of H.323 protocols and makes them available to you through flexible, highly reliable software. Agora Labs now offers two distinct lines of H.323 protocol stacks that provides a complete range of product options for developers:

The Agora Labs (formerly elemedia) line of Protocol Stacks is recognized industry-wide as being highly interoperable—a trait necessary for carrier-grade solutions.

PX3230S Pre-Ported H.323 Protocol Stack

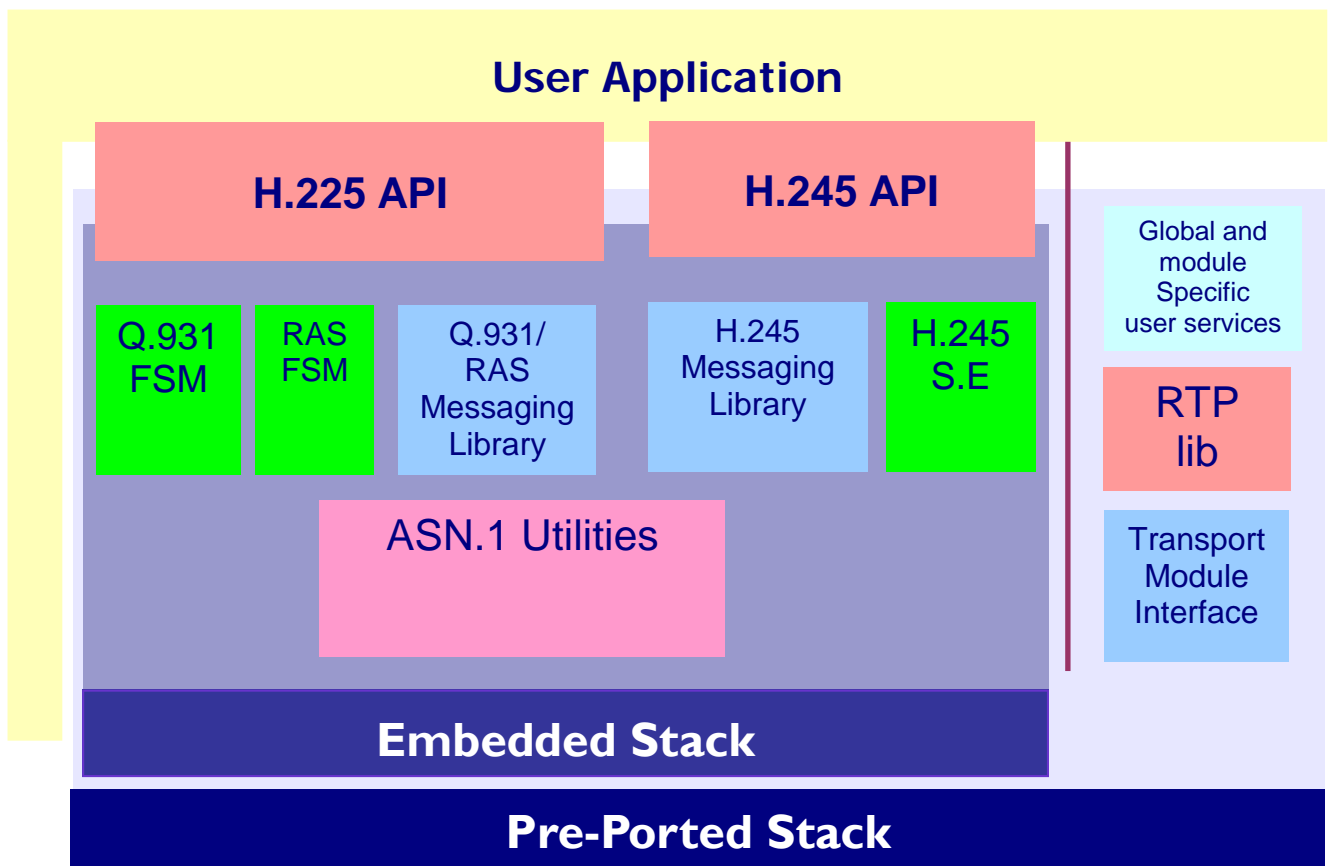
Agora Labs' Classic Protocol Stack takes advantage of the lower-level EX3230S stack as its core while utilizing a higher-level C++ Application Programming Interface (API). The PX3230S is pre-ported to several commercially available platforms, including Sun/Solaris, PC/Linux and PC/Win-32. This combination provides developers with a readily available platform on which to design and support a variety of applications – from general-purpose processors and desktop applications to carrier class solutions.

EX3230S Embedded H.323 Protocol Stack

Agora Labs' Embedded Protocol Stack is specifically architected for embedded processor systems that typically rely on lightweight operating systems and require minimal footprint, modularity and integration flexibility. Its low-level API allows you to customize and tune the Stack to meet your application needs. It is written in the "C" programming language, and makes minimal use of operating system functions, so it is highly portable and suitable for a variety of platforms, from a VoIP phone to the largest servers.

RTP Protocol Stack

Agora Labs also supplies an RTP stack, written in "C" that has been architected for scalability and high performance.





Agora Labs EX3230S Embedded H.323 Protocol Stack

Designed for high-performance, high-density embedded systems

The Agora Labs EX3230S Embedded H.323 Protocol Stack fully implements the ITU H.323 V1.0, V2.0, V3.0 and V4.0 family of protocols and is designed specifically for use in the development of embedded systems. The Agora Labs EX3230S Protocol Stack meets the need for a low-level, high-performance H.323 Protocol Stack used for application development by vendors of products that include the following:

- Telecommunication
- Networked computing
- Enterprise solutions
- Consumer electronics

EX3230S Dual-Level Architecture

The elemedia EX3230S Stack implements a low-level C programming language core platform. The following is a list of attributes that are unique to this implementation:

- Platform and OS independence
- Suitability for embedded processor and high-availability platforms
- State machine implementation without dependence on threads
- No dynamic memory allocation
- Real-time support
- Transport independent

The low-level C core platform includes dual-level, layered Application Programming Interfaces (APIs) that allow access to all low-level interfaces.

Agora Labs PX3230S Classic H.323 Protocol Stack

Designed for the workstation, host processor market

The Agora Labs PX3230S H.323 Protocol Stack fully implements the ITU H.323 family of protocols in a flexible and easy-to-use software package. The elemedia PX3230S Protocol Stack provides a rich, standards-compliant feature set attractive to companies for development of robust, reliable products.

Keeping the developer in mind

Agora Labs' PX3230S Protocol Stack software helps to simplify the development of complex communications applications. The PX3230S H.323 Protocol Stack contains the EX3230S stack as its core and adds a high-level C++ Application Programming Interface. The combination of this small footprint, low-level core and easy-to-use high-level API provides developers with an H.323 Protocol Stack that supports development of a wide range of products. The comprehensive API documentation is provided in HTML format, which allows it to be always available on-line—regardless of the platform chosen for development.

Product Protocols and Feature Enhancements

Agora Labs' PX3230S stack includes a feature-rich set of capabilities. Included is a unique development from elemedia called *Variable (fixed-pool) Threading*. Related to the well-known technology Multi-Threading, which allows code sequences to run multitasked on individual stacks, Variable (fixed-pool) Threading enables the developer to independently tune and customize the performance of the protocol stack.





Your Technology Connection!

Our Bell Labs Heritage

Agora Labs was founded by a group of Bell Lab's engineers who were the architects and developers of the elemedia products. These engineers have had distinguished careers at Bell Labs, earned several Doctorates, a number of patents, and have contributed to the H.323 specifications.

Our Stack's Heritage

The elemedia H.323 protocol stack was, and is, recognized as the leading H.323 stack. While developing the elemedia products, Lucent engineers and scientists chaired many ITU committees, including the ones responsible for the H.323 specification.

Agora Lab's Pledge to Evolve

The H.323 standard is evolving and Agora Labs pledges that its H.323 Protocol Stack not only keeps pace with the evolving H.323 market but leads in technology and innovation—*guaranteed.*

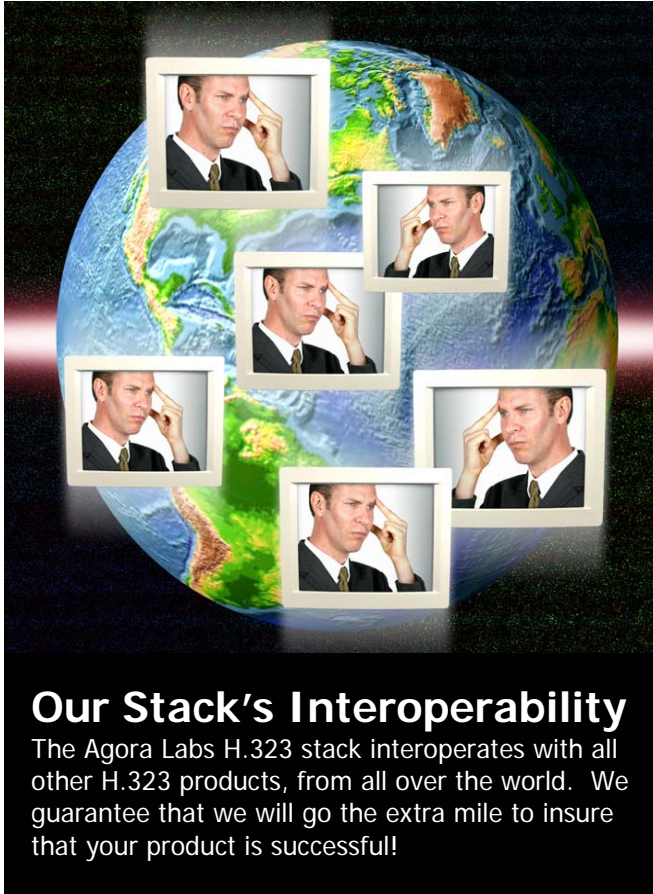
Related Products

Agora Labs also supplies Video Codecs and an RTP stack.

We Only Do One Thing, But We Do It Well!

We are specialists in H.323 and its related Codec technology, and would rather be expert in one protocol than be dilettantes in several. Therefore, we have created a complete, robust, high-performance H.323 stack.

Building an H.323 protocol stack is a natural for Agora Labs. Our team of developers is experienced in architecting, developing, and testing communications protocols for use in high reliability products. We are accustomed to building products for use in telephony networks designed with the five 9s of reliability required of a telecom system. Agora Labs understands the issues surrounding quality, reliability, scalability, and manageability because our engineers are experts in building products for telecommunications and data communications networks.



Our Stack's Interoperability

The Agora Labs H.323 stack interoperates with all other H.323 products, from all over the world. We guarantee that we will go the extra mile to insure that your product is successful!

Sales Contacts

EMEA Region Contact:
Philip Perkins
Phone: +44.167.252.1122
Mobile: +44.7831.348962
E-mail: info@astrocruise.net

Eastern Americas:
Nine-9s
+1 (203) 207-0047
sales@Nine-9s.com
www.Nine-9s.com

Western Americas and APAC:
TNT Systems
+1 (707)781-9654
info@tntss.com
www.tntss.com