

The Atelis AccessBoard is a telecom switching, applications and services infrastructure. It provides full telephony functionality with unprecedented flexibility for delivery of new facilities and services over IP networks at significantly reduced capital and operating costs. It allows carriers to easily accommodate growth in capacity and services, and permits green-field operators to deploy full-featured flexible telephony networks at a fraction of traditional costs.

Key Features and Benefits

- Plug-n-Earn reduces deployment and training periods from weeks to days
- Self-provisioning improves customer care and enhances the user experience while reducing demands on call center representatives
- Wizard-based management, control and reporting further cut operational costs
- Near-linear extendibility and growth are assured by Atelis BioCluster™ simplified P2P clustering technologies.
- Robust redundancy and system availability features
- Proven interoperability with most SIP devices
- Feature-rich SDK gives customers unlimited flexibility in adding new services

Carrier-grade Open SoftSwitching

The Atelis AccessBoard is an integrated hardware-software turnkey infrastructure. It runs on a Digium®/Asterisk® switching core, Linux and IBM platforms which combine to provide exceptional reliability and performance. Atelis modules manage such applications as billing, provisioning, switching, Class 5 services and a host of other standard and special-purpose applications custom-tailored to meet individual customer requirements.

Less CAPEX - more services

By aggregating the combined power of Class 4 services, the richness of Class 5 services and IP telephony into a single unified infrastructure, Atelis AccessBoard enables carriers to deploy new services rapidly - without the need to invest in additional IN/NGN network environments. Atelis AccessBoard is also an ideal solution for green-field operators wishing to lower initial setup costs for new deployments. CAPEX is reduced by an estimated one-third compared to competing solutions.

Lower OPEX - greater flexibility through decentralization

Atelis AccessBoard incorporates the proprietary Atelis BioCluster™, based upon a P2P protocol, avoiding the need for centralized information storage. Atelis BioCluster enables decentralization of configuration information across the network - all nodes in the cluster maintain the configuration structure. Configuration of a newly introduced cluster node is automatic. This results in practically plug-n-play installation and maintenance procedures, while offering near-linear scalability and growth, yielding estimated savings of 25% over typical operating costs.



Atelis AccessBoard™

Next-Generation Services and Capacity with Lowest TCO

Available Atelis AccessBoard Solutions:

- **AccessBoard ITSP** - Internet Telephony Services Platform
An all-in-one management tool for all IP telephony services, AccessBoard ITSP integrates Call Control, Client Management and Reporting Engine to provide VoIP residential services. AccessBoard ITSP easily interfaces with external mechanisms, and uses its built-in facilities for billing, reporting, customer back-office and customer self-provisioning, etc.
- **AccessBoard IP Centrex** - Internet Telephony Centrex Services Platform
Atelis IP Centrex customers benefit from enterprise-class PBX service at the lowest available CAPEX and OPEX - avoiding the need for a premises-located PBX system.
- **AccessBoard Media Gateways** - A full range of AccessBoard Media Gateways provide IP-to-PSTN connectivity in an almost plug-n-play installation or as a standalone device.
- **AccessBoard IN Service Modules** - A range of IN services to complete and complement Atelis AccessBoard ITSP and Atelis AccessBoard IP Centrex deployments.

Technical Specifications

Subscriber Data Access

- Realtime subscriber registration and data retrieval
- Single subscriber registration environment
- Full SQL access to subscriber database with near realtime updating ability
- Subscriber registration peering via P2P infrastructure (Atelis BioCluster™)

Service Development

- Agnostic call-processing and dial plan logic
- Programming language independent

Signaling Protocols

- SIP
- IAX2
- SCCP (Skinny)
- MGCP
- ISDN Q.931
- SS7 (in development)

Scalability and Performance

- Optimized for high performance and high reliability, via decentralized control and management structures
- Distributed configuration environment ensures no single point of failure across all platform components

Fault Tolerance and Reliability

- Automatic failover of any component within the AccessBoard BioCluster™ realm
- Full platform disk mirroring for all installed servers
- 99.999 percent availability
- Support for geographic failover
- CPU utilization protection

Hardware Specifications

- **User concentrators:**
IBM x336 Server
2GB RAM
2 x 73GB SCSI Hard Drive (RAID-1)
- **Database SQL node:**
IBM x336 Server
8GB RAM
2 x 73GB SCSI Hard Drive (RAID-1)
- **Database SQL storage node:**
IBM x346 Server
8GB RAM
6 x 73GB SCSI Hard Drive (RAID-5 + Hotspare)
- **Database External Storage:**
IBM External Storage Device, dependent on the physical configuration on site
- The above hardware specification can be replaced by an IBM Blade Center solution, depending on the installation environment.



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