

AtomSphere for healthcare



Dell is fully committed to healthcare and life sciences with Dell Boomi AtomSphere®. With more than a decade of pioneering experience in integration platform as a service (iPaaS), Dell Boomi provides a full array of core capabilities that can accelerate a path to real interoperability while controlling costs and carefully managing risk. It addresses key interoperability requirements, including provider, payer and processor management, HL7-compliant message exchanges, and the highest security standards. And it does this without the burden of installing and maintaining software or appliances, and without paying for expensive consultants.

The Dell Boomi AtomSphere® solution enables you to:

- Access hundreds of applications and data sources across systems and geographies
- Reduce overhead and capital costs as well as development complexity
- Support better patient care and outcomes to wider populations that are ever-changing
- Strengthen governance and reduce risk through industry-certified security models
- Manage a healthcare network of any size using a scalable and secure iPaaS

With AtomSphere you can address key healthcare interoperability requirements, including:

- Provider, as well as Payer and Processor, Management - Set up and manage healthcare partners to enable Health Information Exchanges (HIEs), Electronic Medical Records (EMRs), Electronic Healthcare Records (EHRs), Patient Administration Systems (PASs), Electronic Practice Management (EPMs) systems, Laboratory Information Systems (LISs), and Pharmacy that meet standards via Dell Boomi's XML, EDI and ecommerce capabilities.
- Highest Security Standards — Dell Boomi offers the highest security standards to meet the stringent demands of all types of healthcare data interfaces and data transformations.
- Healthcare Partner Enablement — Use your own Atom to easily deploy integration and interface processes to partners, and avoid having to purchase and maintain expensive software.
- HL7 Compliant Message Exchanges — Transform any combination XML, flat file, database data, and EDI to HL7 compliant messages.

Boomi AtomSphere Features to Address your Healthcare Interoperability Needs

Healthcare Provider, Payer, Processor Partner Management: Set up and manage connections to your partners,

including communication methods, document processing preferences, and validation rules.

HL7 and HIPAA Compliant: Rapidly enable HL7 and HIPAA standards compliant healthcare exchanges through Dell Boomi's secure interface engine. Additionally, HL7 message definitions are pre-built in AtomSphere, allowing you to rapidly create the various message types needed.

Boomi Suggest Data Mapping: Use patent-pending Boomi Suggest to automate the creation of data maps between XML, EDI, Flat Files, and Database formats. Drawing on the crowd-sourced intelligence of our developer community, up to 80% of your data mappings can be automatically generated.

Full Acknowledgement Handling: All communications exchanged via AtomSphere are tracked for reconciliation purposes so you can see the status of all messages and documents exchanged with your healthcare partners.

X12 EDI Format Support: Import EDI documents from a library of pre-loaded EDI standards and/or transform to any of AtomSphere's supported formats such as XML, flat file, or database.

Industry Standard Connectivity Options

Boomi AtomSphere supports a full range of communication requirements, including:

- Certified AS2 Connectivity for real-time connectivity to your trading partners
- FTP and FTP/S
- HTTP and HTTP/S
- Web Services, SOAP/HTTP
- Healthcare: HL7 2.x (TCP/IP, MLLP)
- EDI Standards: X12, EDIFACT
- Application specific connectivity (e.g. NetSuite, SAP, Oracle, Salesforce.com)

Security and Certifications

Dell Boomi also adheres to healthcare industry standard practices in Security, providing:

- Secure Sockets Layer (SSL v3) and Transport layer Security (TLS v1)
- PGP key exchange
- Encryption 3DES, RSA
- MD5 and SHA1 cryptographic hash functions
- A variety of compression techniques, including Aes128, 3des, twofish, serpent128, idea, cast128, blowfish, twofish256, aes256, aes192, serpent 256 and serpent192 and zlib
- EU Safe Harbor certified

- Swiss Safe Harbor certified
- Drummond Group AS2 Certification
- HIPAA certified
- PCI compliance
- SSAE 16 Type II SOC 1 compliant

Complete Self-Service Solution, From Your Web Browser

Your entire interface can be set up using just a web browser. From partner set up, to interface and transformation, to communication testing, workflow configuration and beyond, Boomi AtomSphere provides a complete Healthcare Gateway capability from the cloud that's secure and that saves you money. Configuring integration with AtomSphere is a three-step process:

- Begin by configuring integrations in the BUILD tab. Use a drag-and-drop approach to configure the integration for logic, validation, and transformation from source to destination systems. Boomi AtomSphere supports 100+ branded connectors to systems like Salesforce, NetSuite, SAP, etc. and 10+ traditional connectors like database, flat file, xml, web services, etc.
- Once the integration is configured, the second step is to DEPLOY the integration. Boomi's Atom technology supports the ability to deploy an integration in the cloud for SaaS, PaaS, cloud applications, or safely behind the firewall for on-premises applications.
- In the third step, you can centrally MANAGE all of your deployed integrations anywhere, anytime. From a browser-based dashboard, you can see what processed, when it processed, and the logs and status of each integration. Alert notifications can notify you via RSS or EMAIL when an integration is successful or in error.

Multiple Deployment Options

Leverage AtomSphere's innovative deployment options to run your interfaces/integrations and transformations from Dell Boomi's Atom Cloud in our secure infrastructure, or deploy an Atom to your local premises to connect with applications residing behind your firewall. Regardless of where you deploy your Atom(s), you still have total control over your environment. Ensure your business processes

do not have weak points by utilizing Molecules (cluster of Atoms) to protect your integration environment from hardware or device failures, eliminating the need for personnel to manually intervene. This ensures maximum confidence of business continuity and reliability.

Proven Solution for Healthcare and Life Sciences

Dell Boomi represents a proven solution in the healthcare and life sciences industry and helps achieve system interoperability in a rapid, secure, and cost-effective manner. For one global pharmaceutical company, relying on two on-premises middleware integration solutions required extensive effort and time for development and maintenance, while software licensing and hardware upgrades became increasingly expensive. With a transition to Dell Boomi, integration processes were migrated to AtomSphere iPaaS resulting in an overall cost savings of 30% and a 50% reduction in server capacity requirements.

For the supplier of free-standing private kiosks designed to facilitate interaction with remote physicians, integration with EMR systems became a potential barrier to rapid growth. By relying on Dell Boomi AtomSphere, the company could quickly scale and integrate with existing EMR systems in a matter of weeks, as opposed to the months it would take to create custom code for each integration.

Dell Boomi can empower agility and improve patient care, accelerate revenue, eliminate complexity, and increase cost savings.

Key AtomSphere Benefits to Manage All Your Healthcare Interface/Integration Needs

Enterprise Integration Capabilities at a Fraction of the Cost

- Drag and drop workflow – no coding required
- Support for simple to complex business logic
- Simple wizards for browsing application data models
- Access to hundreds of applications and data sources
- Instant load scalability
- Any-to-any data transformation
- Industry certified security model
- Ability to build your own connectors

For more information

Contact your account executive to learn more about Dell Boomi, or visit www.boomi.com

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