



# Meddus Integration Platform

The Meddus Integration Platform, an implementation of Integration as a Service (IaaS), is comprised of an on-premise, enterprise-grade integration appliance and distributed highly available transport for data interchange that is coupled with integration management for rapid interface implementation and comprehensive technical support.

## What does it do?

The Meddus Platform is a comprehensive set of integration solutions and services that simplify information sharing across disparate healthcare applications, among service providers, and across healthcare communities.

## What's the key difference?

By including all of the technologies and services needed to integrate a healthcare enterprise under a single subscription fee, Meddus customers can do more with their middleware budgets, reduce the total cost of integration, and remain focused on their core initiatives.

# Meddius Integration Platform Components

The Meddius Integration Platform delivers the following components:

- ## 1 Integration Router®

An appliance-based Enterprise Service Bus (ESB) that simplifies the integration and flexible re-use of clinical, financial, and supply chain data and applications within a Service-Oriented Architecture (SOA). This healthcare-focused middleware platform supports intelligent communication and mediated relationships between loosely coupled and decoupled data components and adapters.
- ## 2 SecureTransport®

A zero-configuration platform through which Integration Routers may be rapidly deployed as turnkey devices in any healthcare environment. SecureTransport® allows healthcare networks at different locations to be securely connected using a public network as the transport layer, overcoming the limitations associated with traditional site-to-site VPN products.
- ## 3 Integration Management

A set of managed services, including Integration Router® setup, interface implementation, and ongoing monitoring and support of the platform. Customers can focus on patient care or clinical application development while our implementation and support teams ensure efficient resource allocation and scalability for the project.

## Benefits

### Lower Integration Costs

- Eliminate up-front costs and reduce first year costs by 50% - 80%
- Eliminates ownership costs such as perpetual software licenses, hardware, labor, training, management and maintenance
- Unlimited implementation services per interface allow flexibility to adapt to new integration requirements without incremental charges

### Deploy Faster

- Integration initiatives completed in days
- Incremental deployment reduces length of time to recognize value from integration effort
- New capabilities deployed rapidly across multiple client installations enabling fast and seamless product upgrades

### Do More With Less

- Subscriptions sold in flexible interface-based units that allow customers to purchase integration on a pay-as-you-grow basis
- Higher quality of support and response time for reduced cost
- Increases competitive advantage through advanced features such as the ability to respond to real-time events

# Features and Functionality

## Enterprise Messaging & Integration

- Built upon a catalog of Enterprise Integration Patterns (EIPs)
- Message parsing support for XML, HL7, EDI-X12, HIPAA, EDIFACT, and DICOM
- XML and non-XML message transformation
- Java™ Message Service (JMS)
- Protocol bridging
- Message routing, validation, filtering, archiving, and logging
- Database integration
- Quality of Service (QoS) and service prioritization

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## Security

- Message payload encryption with digital signature, time stamp, and non-repudiation
- Federal Information Processing Standards (FIPS) 140-2
- Secure Sockets Layer (SSL) 3.1 / Transport Layer Security (TLS) 1.0
- X.509 public key infrastructure (PKI)

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## Management & Monitoring

- Availability, performance, load and usage metrics monitoring
- Extensible monitoring of interface metrics exposed through Java Management Extensions (JMX) and Simple Network Management Protocol (SNMP)
- Extensive audit trail logging

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## Hardware

- Hardware: 1U rack-mountable chassis
- Processor: Dual Intel Xeon 5110 Woodcrest 1.6GHz 4M shared L2 Cache
- Memory: 4GB DDR2
- Storage: 2 x 320 GB Hard drives in a RAID 1 Configuration
- Dimensions: 1.703" (H) x 16.93" (W) x 27.25" (D)
- Network: 10/100/1000 Mbps Ethernet Connection
- Power: 670 Watt hot-plug power supplies with 110 volt connections

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## Performance and Stability

- High availability via two-node cluster with failover (optional)
- Virtualized container support as needed for resource isolation
- Retry policies for self-healing connectivity
- Multi-resource and parallel transactions
- Local, dynamic data spooling and unspooling under outage conditions

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## Operating System

- Hardened, embedded, UNIX-based foundation, designed for complete remote management and enterprise-grade reliability

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## Automatic Upgrades

- Automatic access to new versions of Integration Router® firmware and service container released during the subscription lifetime
- Automatic access to the latest bug fixes and security errata

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## Integration Management

- Unlimited technical support with 24x7 rapid response
- Access to customer support portal with technical support staff to track open and closed support cases in real time

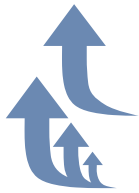
# Integration Scenarios

The Meddius Integration Platform's high performance, service-oriented computing infrastructure meets the demands of any network, from small and mid-sized organizations to large-scale national deployments. Flexible configurations support a variety of usage models and integration scenarios.



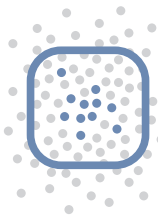
## Leveraging Legacy Systems

Legacy systems and their data repositories are a target for modernization in many organizations. The Integration Router® extends the capabilities of these systems, reducing the latency associated with batch data processing, and adapting existing IT assets to operate within a modern SOA environment.



## Data Delivery and Distribution

When transactions in other applications fail because data is out of date, healthcare delivery stalls. The Integration Router® provides fast and reliable information delivery through its enterprise-messaging communication backbone, scaling seamlessly with the number of ancillary systems and adapters.



## Respond to Real-time Events

Modern healthcare organizations need visibility to respond quickly and effectively to changing conditions. Event processing within the Integration Router® identifies complex patterns among multiple data streams as they flow through the enterprise, providing decision makers with insight into the events that matter most - the moment they occur.

## About Meddius

Our mission is to improve patient care by helping organizations make healthcare data universally accessible. We build best-in-class integration solutions, enabling the industry to accelerate and simplify the exchange of mission-critical information among applications. Meddius is a privately held company headquartered in Charlottesville, Virginia.

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