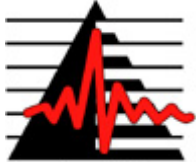


Integration Capability Statement



The Shams Group (TSG)

Most progressive hospitals have realized that as they try to go 100% digital across their enterprise, they need to move beyond an operational approach to interfacing, and must develop a strategic approach to integration. They also realize that application integration is the Holy Grail for connecting the enterprise and the community. The challenge is how to lay an integration strategy, how to synchronize data, accelerate its movement, automate processes, and communicate information to facilitate solid healthcare decisions. Additionally, quite a few vendor companies in the MEDITECH space neither understand the complexities of integration, nor have taken time to develop 'open' tools and methodologies to succeed.

To address these critical needs, The Shams Group (TSG) has invested heavily in research and development initiatives for the integration tools for several years, and is honored to be your integration partner. We bring decades of successful experience and technical know-how in data and application integration across heterogeneous platforms. We consider ourselves to be the 'Switzerland' of healthcare delivery systems and our record for collaboration and the use of 'open' technology is unmatched in the industry. Below is a comparison of our strengths versus other vendor companies in the MEDITECH marketplace.

Key Strengths The Shams Group's Astro IE Platform	Other Vendors
Integration	Interfacing
Workflow Centric	Data Centric
Small Magic 'Thumb-Print'—Little Impact On Processor	Big Magic 'Foot-Print'—Major Impact On Processor
Enterprise/Community Based	Systems Based
One To Many	One-To-One
Unlimited Data Extraction Layer	Limited Data Sets
Extensive Data Mapping Capability	Limited Data Mapping Capability
Redundancy Capability	No Redundancy Capability
'Smart Alert' Diagnostic Capability	No Intelligent Diagnostic Capability
Total Transparency Using MS SQL	Black Box Which Often Leads To Finger Pointing
Team Approach To Implementation	Programmer Approach To Implementation
Strategic Approach	Operational Approach

ASTRO INTERFACE ENGINE

OVERVIEW

TSG supports all industry standard protocols, such as HL7, XML, SQL and others. TSG has provided seamless, robust and end-to-end integration for multiple HCIS vendors, including Siemens (SMS), McKesson (HBOC), Cerner, Eclipsys, Sunquest, Dictaphone, ChartMax, ECDS, and others. For MEDITECH hospitals, there is built-in integration adapters with no additional interface/support required from MEDITECH.

TSG Integration Tool-Set

Using state-of-the-art Microsoft Windows-based foundation tools and Microsoft SQL Server, our Integration Engine (IE), software solution and service provide you with a one-stop turnkey solution to meet your organization's end-to-end integration goals. Because 99% of our business comes from MEDITECH clients, we have developed a specialization in providing dynamic integration software that requires no MEDITECH involvement or interfaces.

Integration Objective

As you roll out Windows and Web-based technology and try to leverage your MEDITECH environment, you want to use the best in integration technology to meet this objective. TSG's goal is to provide systems that implement and automate the integration and the process of healthcare business across your enterprise. This is more than the traditional 'point-to-point' interfaces of the past. With this new approach, organizations can react better to the demands placed by the ever-changing healthcare environment.

Integration Design and Architecture:

In order to ensure that adaptation to changing organization requirements is possible throughout the processes' entire life cycle, the integration system must be built on architecture that addresses requirements critical to such systems:

- **FLEXIBILITY** to adapt to changing requirements and environments
- **SCALABILITY** to allow the integration software to scale to higher volume, and support any or all data elements
- **RELIABILITY** to ensure that the integration running your critical processes has high availability with built-in redundancy for unplanned events
- **DATA INTEGRITY** to ensure that bad data and errors are handled in a proper manner
- **MANAGEABILITY** to control the complexity of workflow and processes as data travels across multiple systems
- **USABILITY** to ensure that the PACS image can be launched from any application and any screen, which enhances workflow and clinical satisfaction

Conclusion

There are many challenges facing IS departments as they strive to bring their organizations to the 21st century. One of the keys to meet these challenges is to choose the right partner who can provide one-stop integration solutions and services to fulfill the needs of the enterprise and the community.



TSG strives to meet these requirements by providing organizations with three core capabilities:

- Knowledge of the MEDITECH marketplace and its underlining application and functionality
- Bias towards 'open' and 'robust' tools for development of integration technology to offer the best in product and functionality
- Ability to service the account as a one-stop solution for the best and most efficient value to the customer



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