



Active GRID Management Product Suite

Intelligent Services for the GRID Cloud

Challenges

In today's highly distributed infrastructure with Service Clouds for High Performance Computing (HPC) business and IT decisions become more critical. As hardware and software becomes more distributed, the resolution of events that affect the performance of the complete solution is impacted. Many firms find themselves dealing with GRID computing and distributed caches to achieve HPC. With any new technology come many challenges.

These challenges include:

- Investigation and resolution of GRID failures
- "After the fact" failure analysis
- Increased complexity and time intensity upon failure
- Requirement for senior level staff resources
- Requirement for highly sophisticated debugging skills
- Meeting SLAs mandates

In the Cloud both the hardware and the software processes are highly distributed through the Compute and Data GRIDs. This highly distributed environment offers operational management complexity. Having a real-time solution to resolve HPC event failures and adapting the solution to the dynamic nature of the GRID is key to managing such a complex environment.

Integrasoft's Approach

Compute and Cache GRIDs solutions are being rolled out into production but the operational management of failures in real-time is lacking. Finding out after the fact is too late in this dynamic environment.

Active GRID Management (AGM) Product Suite is the solution. The product has intelligent distributed services that like the compute and cache GRID collect and analyze failures as and when they occur. With Business Rules driving the resolution of these failures, the AGM product offers holistic control and visibility into the distributed process environment.

The Intelligent Services not only adapt to the heterogeneous environment which is typically found in any infrastructure, in addition the embedded Complex Event Processing (CEP) technology to form "Cloud of CEPs". AGM allows for the processing of complex events and scalable with the Cloud.

Integrasoft AGM Product Suite

The AGM Product Suite is built on the Intelligent Services CEP Framework (Patent Pending). The AGM Product Suite components are:

Intelligent Services – Intelligent processing of all events against defined business rules and matrix. Supports a variety of Compute GRID software vendors and Distributed Cache.

Enterprise Resolution Services – Adaptive failure resolution for the GRID at an enterprise level.

Holistic View Services – User Interface for viewing all the correlated events and matrix in the Cloud for the Compute GRID, Data Caches, and other Business Applications.

The diagram below highlights the key components of the AGM Product Suite all built leveraging the Intelligent Services CEP Framework:

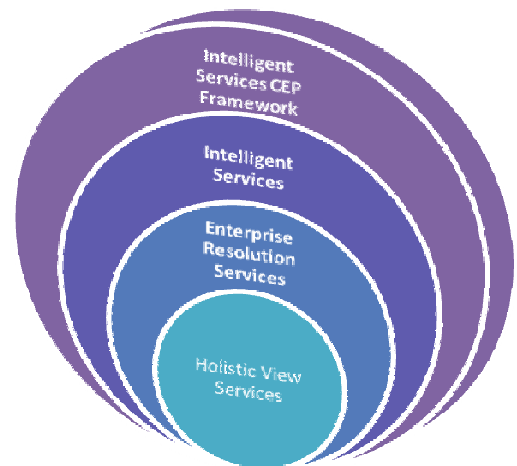


Figure 1: AGM Components Leveraging the Framework

AGM offers real-time intelligent monitoring, analysis, and failure resolution with:

- Proactive detection and notification
- Dynamically adapts to changing conditions
- Encapsulates and extends Administrative Knowledge
- Drastically reduces problem resolution time
- Eliminate and reduces potential operational failures

AGM Functional Benefits

Integrasoft AGM Product Suite offers real-time monitoring, analysis and resolution along all Services Stacks: Business, Virtualization, and Infrastructure Layers as illustrated in the diagram below.

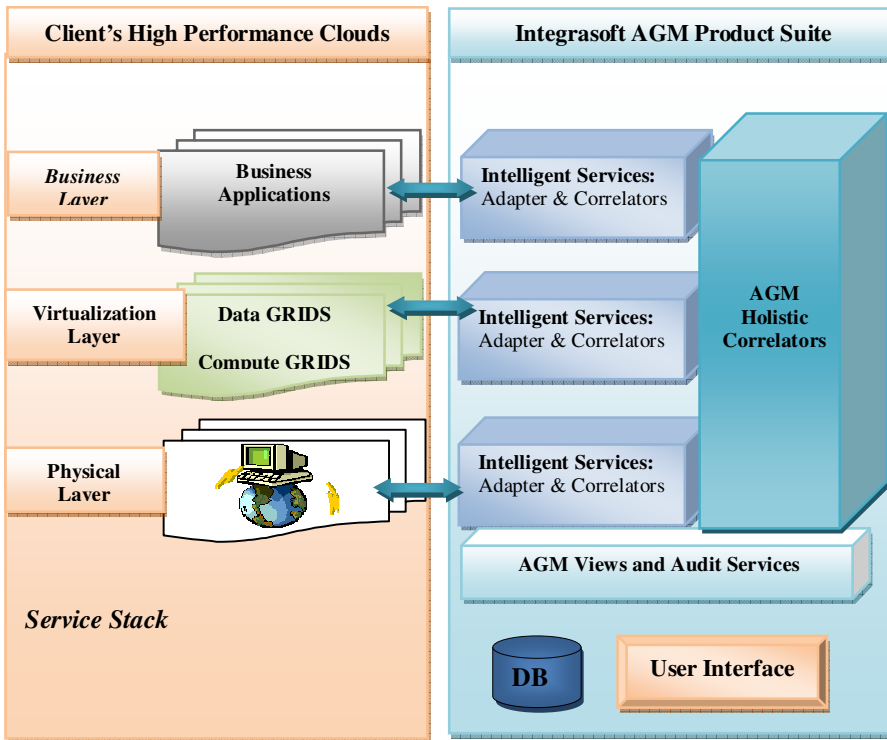


Figure II: AGM Architecture in High Performance Clouds

AGM Product Suite offers

Real-Time Holistic Monitoring and Failure Resolution in the GRID Environment

Monitoring and managing Data GRIDs, Compute GRIDs and other business applications in a High Performance Clouds requires holistic views of events, holistic actions to adverse events and a tiered approach to filter information up for monitoring and persistence for Enterprise Solution.

Scalable Solution to expand with the Cloud

The Intelligent Services are distributed within the Cloud and scales to the needs of the Cloud. With the embedded CEP technology, the Intelligent Services scale and can be distributed at the end-points collecting all types of events.

Adaptable Solution to expand with the Existing Environment

AGM leverages the Intelligent Services CEP Framework thus allowing clients to extend the Intelligent Services into their existing environment including custom applications, legacy systems, etc.

About Integrasoft

Integrasoft is a company with deep experience in the financial markets catering to business needs and solutions leveraging technology. As a customer driven company, AGM Product Suite is built in partnership with our clients to meet the needs of their real everyday problems. Through partnerships and direct sales, Integrasoft has been able to grow the business. Gigaspaces is an Integrasoft partner.

AGM Functional Components

Distributed Intelligent Services

- Integration Adapters (connection & processing)
- Event Correlation
- Failure resolutions through Business Rules
- Distributed CEP Clouds at target points
- Metrics including real-time trend analysis
- String search capabilities

AGM Holistic Correlators

- Correlation of events from the Intelligent Services for a tiered architecture
- Controlled network traffic
- Eliminate noise upstream

AGM Views

- Define monitoring screens and views for operational control
- Historical and real-time access to events, failures, analytics, etc. (e.g. heat maps)

AGM Audit Services

- Persist for audit trail and governance needs
- Historical and real-time data storage

Persisted Storage (Database)

- All events stored as defined by rules
- All matrices stored as defined by rules
- All audit trail

Monitoring User Interface

- Flexible UI configuration

AGM Product Suite Currently Supports:

Below is a list of off the shelf supported "New Generation" of Middleware Solutions:

Compute Grid: DataSynapse

Data Grid: Coherence and GigaSpaces XAP

Application Server: GigaSpaces XAP

In addition, AGM Supports: Files, Microsoft Perfmon, Real-time Trend Analysis, and String Search capabilities



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