

# AUTONOMIA

## The Engine for Integrated and Automated Management

### INTEGRATED MANAGEMENT

- Performance
- Fault
- Security
- Configuration
- Power
- Thermal

### AUTOMATED/ SEMI-AUTOMATED MANAGEMENT

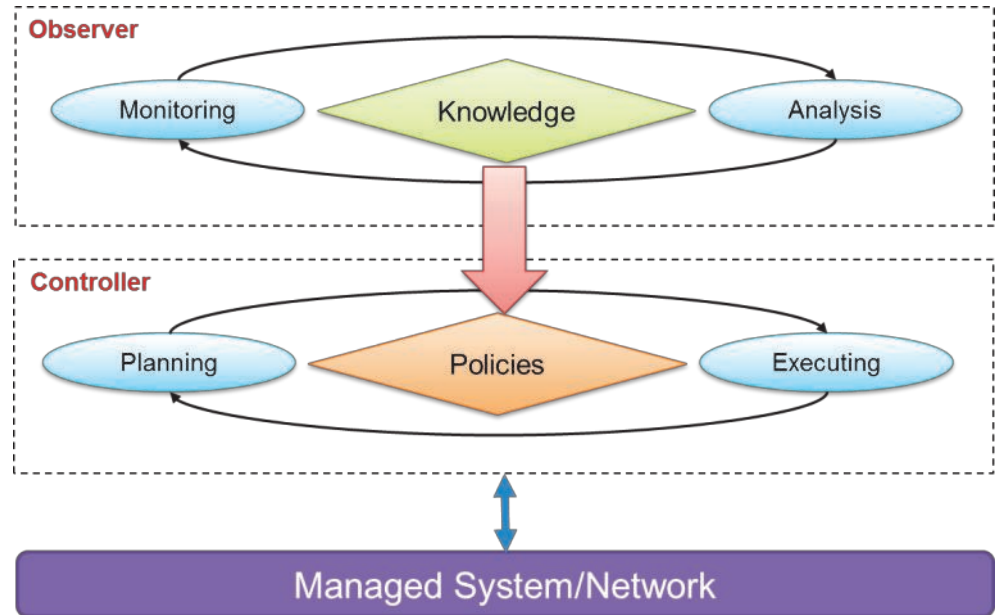
- No manual intensive tasks
- Programmable actions
- Dynamic changes to management policies and actions

### DASHBOARD AND VISUALIZATION

- Network visibility
- Network activity reporting
- Alert prioritization and recommended actions

### DEPLOYMENT

- Small /medium
- Enterprise
- Smart grids



The proliferation of networked systems and services along with their exponential growth in complexity and size has increased the control and management complexity of such systems and services by several orders of magnitude. As a result, current management techniques, that are manual intensive, have failed to cope with and handle the complexity, dynamism, and heterogeneity of networked systems. Self-configuration enables the system to automatically change the configuration of its resources and their operational policies at runtime in order to accommodate new policies and optimization strategies. The main features are:

- Automated management services
- Integrated management services so we can address configuration, performance, fault and security problems in an integrated manner
- Programmable and adaptable management services.

### BENEFITS

- Prompt response and recovery to any anomalous event that could be triggered due to
  - Misconfiguration
  - Fault
  - Performance problems
  - Cyber attack or exploitation
- Automated management will lead to
  - Reduce time to deploy and configure new resources and services
  - Reduce cost to failures
  - Reduce cost by eliminating manual intensive activities
  - Improve performance
  - Improve productivity
- Integrated management services will lead
  - Reduce number of monitoring and management tools required to manage performance, fault, security and configuration
  - Ability to manage other properties such as power consumption
  - Innovative knowledge representation and fusion

# Scalable Architecture

## ABOUT AVIRTEK

AVIRTEK is pioneering innovative autonomic management solutions to proactively and automatically protect the operations of cyber infrastructure resources and their services in order to achieve trustworthy networked services and applications.

## PRODUCTS

- JUNO10
- AUTONOMIA

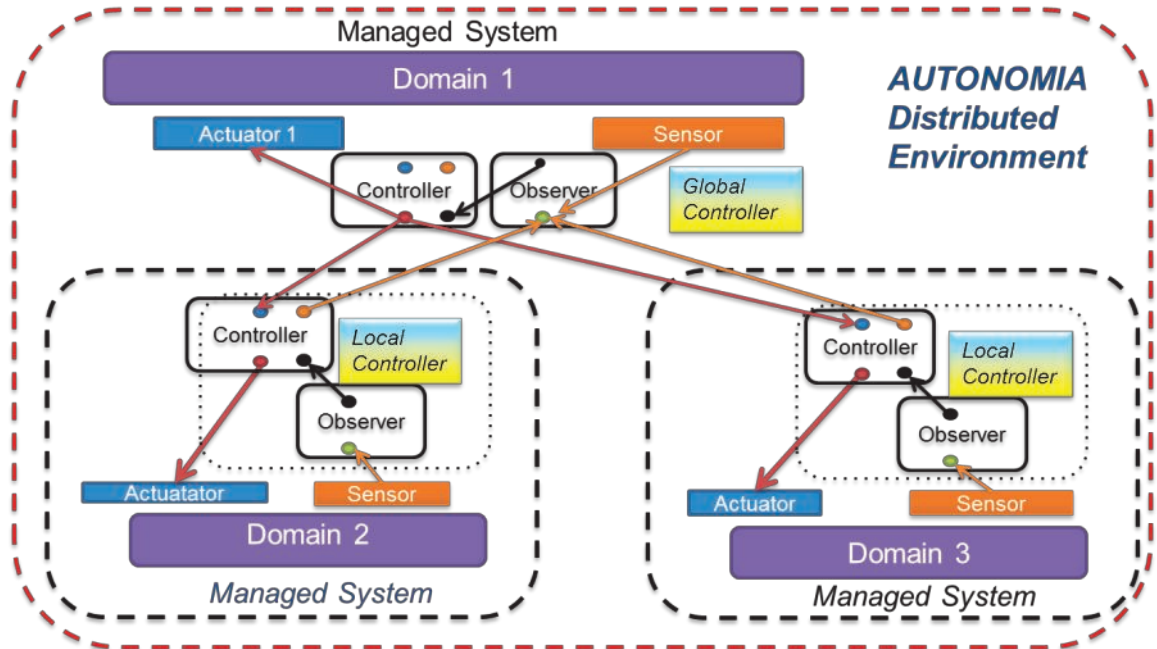
## MANAGEMENT

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Internationally recognized authority on autonomic computing, cyber security, control and management, and high performance computing, published several books on Autonomic Computing, High Performance Distributed Computing Tools.

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## Deployment Options

- **Automated Management of Firewalls, Intrusion Detection and Protection Systems**
  - Observer will detect vulnerabilities or misconfigurations, or new security policies that must be deployed to security tools and computing systems
  - Controller will follow best practice strategies to adopt and change the configurations and policies in firewalls , IDS and IPS
- **Automated Fault Management of Networks and their services**
  - Observer will detect any anomalous events triggered by hardware/software failures
  - Controller will used existing fault management policies to initiate automated recovery and fault tolerance strategies
- **Autonomic Power and Performance Management of Cloud Computing and Data Centers**
  - Observer will detect any anomalous events that could be triggered by overprovisioning of resources or increase in workloads
  - Controller will activate management policies to bring unneeded resources to low power states or add more resources to accommodate the increase in workloads

**AVIRTEK**  
Autonomic Management Solutions

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