

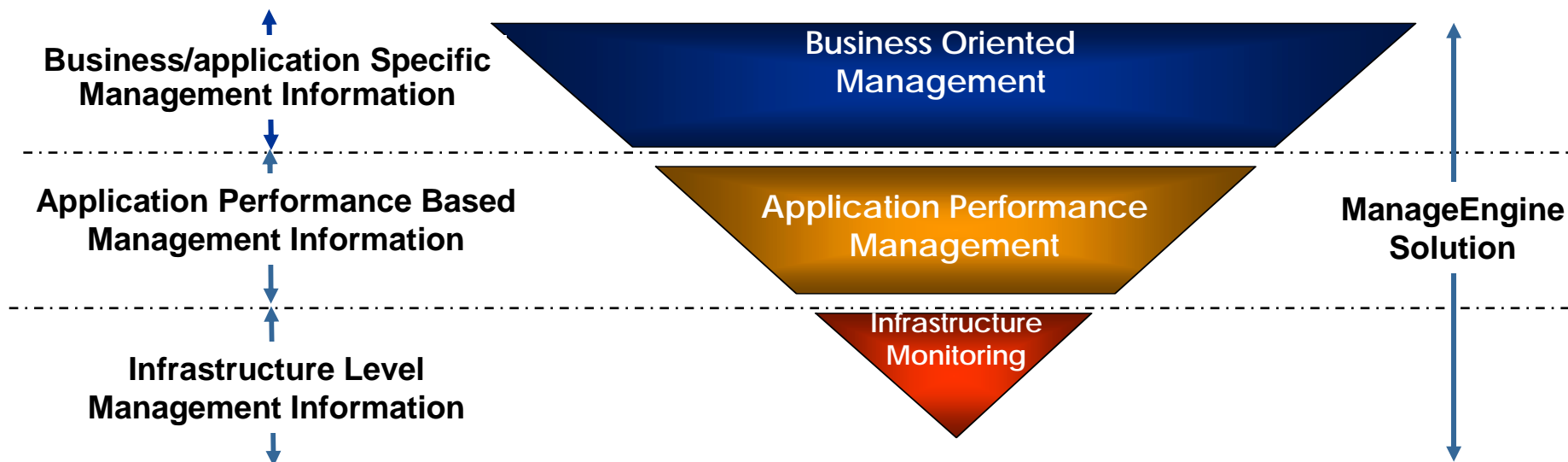


---

***AdventNet ManageEngine.***  
***Business Specific***  
***Application Management Solutions***



## *Levels of Application Management*



- **Infrastructure and Middleware Monitoring**
  - Ensuring sufficient resources and availability for applications
- **Application-Specific Performance Monitoring**
  - Assuring service levels for users of applications
- **Business Activity Monitoring**
  - Business intelligence from applications & business processes



## *Application Management Challenges*

---

- **Mission-critical applications require pro-active management driven by business use and priorities**
- **Management needs gain importance and evolve as applications are deployed and heavily used**
- **Need application-specific monitoring, as well as tools monitoring server and network infrastructure**
- **Application-specific instrumentation is difficult and disruptive**
- **The Developer-Operations divide**

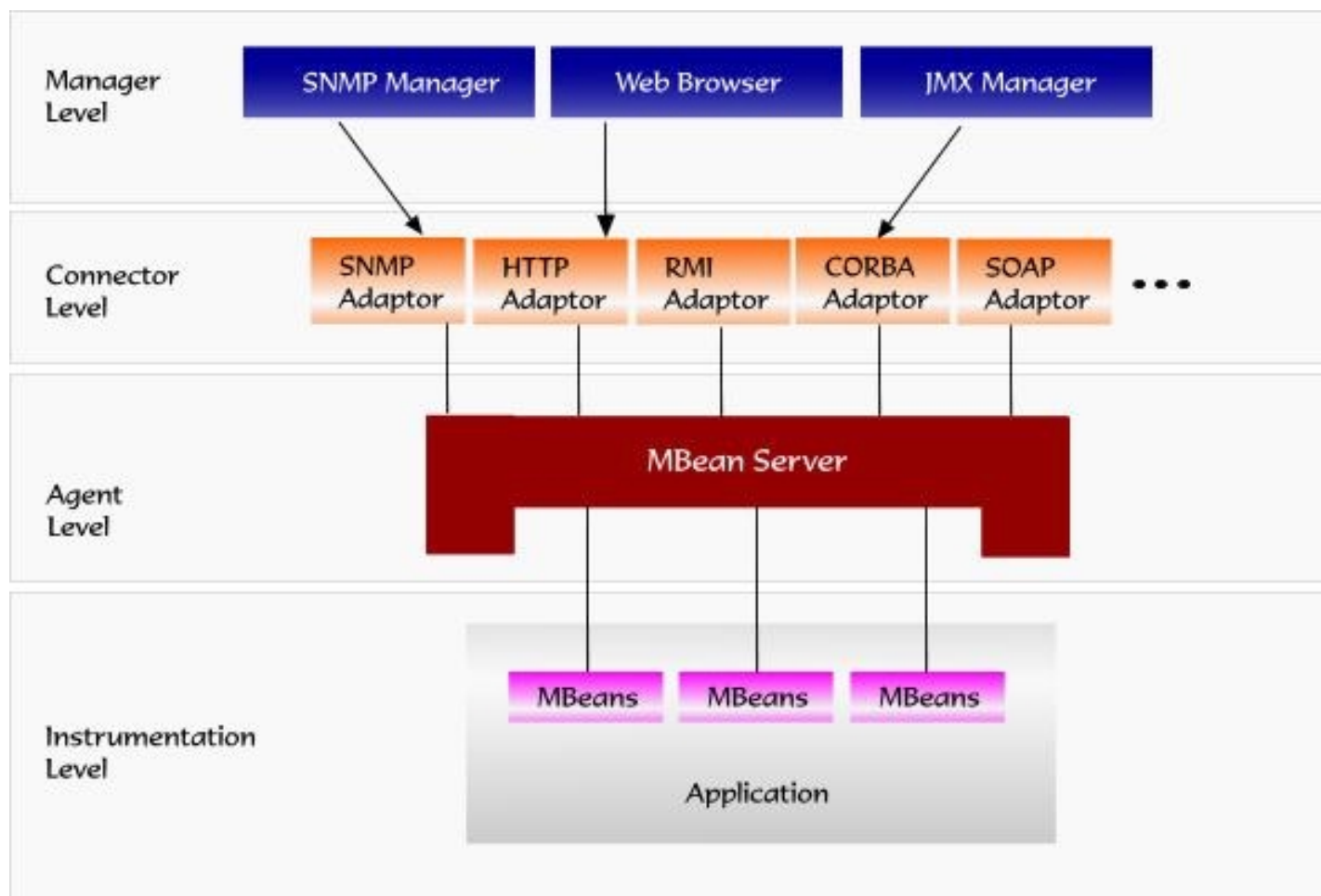


## ***JMX is Making a Difference***

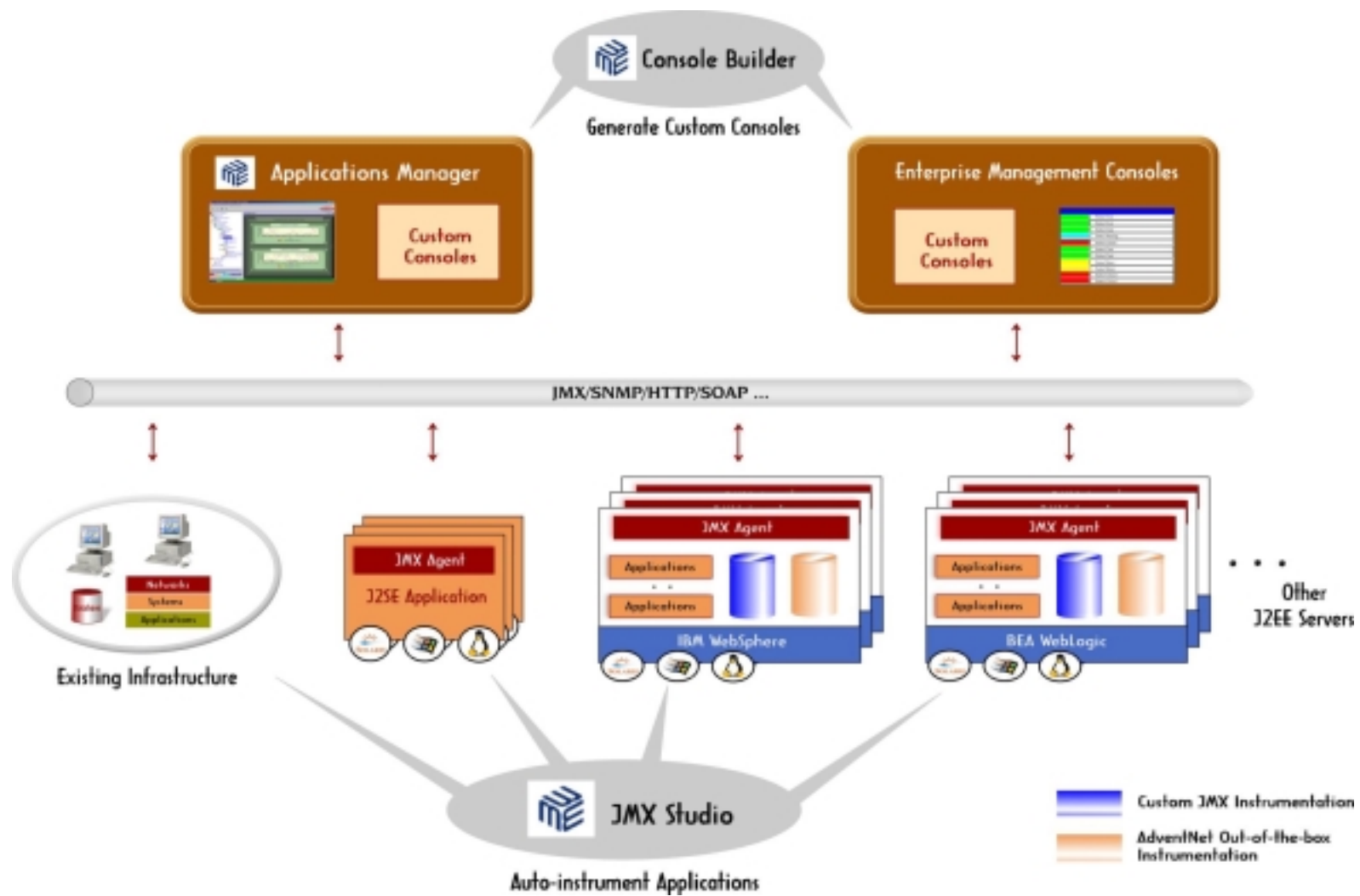
---

- **Emerging Management Standard**
  - **Designed for J2EE technology**
  - **Supports existing management technologies like SNMP**
- **Wide adoption**
  - **Built into Application Servers, EAI products, applications**
  - **Enterprises designing JMX into application architecture**
- **Easy to use**
  - **Automates common instrumentation**
  - **Integrates with existing systems**
- **Expose application data for business intelligence**

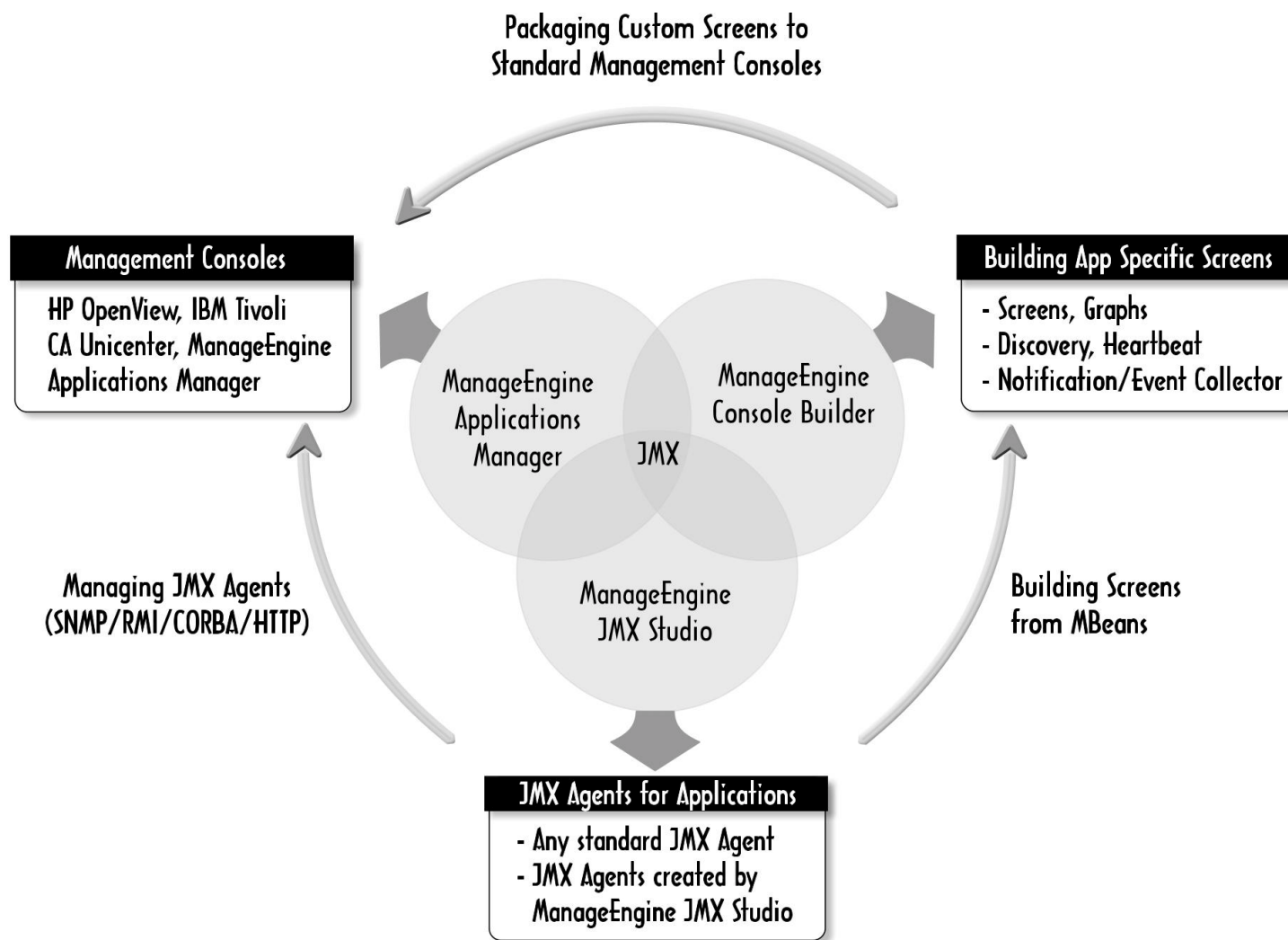
## JMX Architecture



## ManageEngine Solution for Application Management



## ManageEngine Solution - Overview

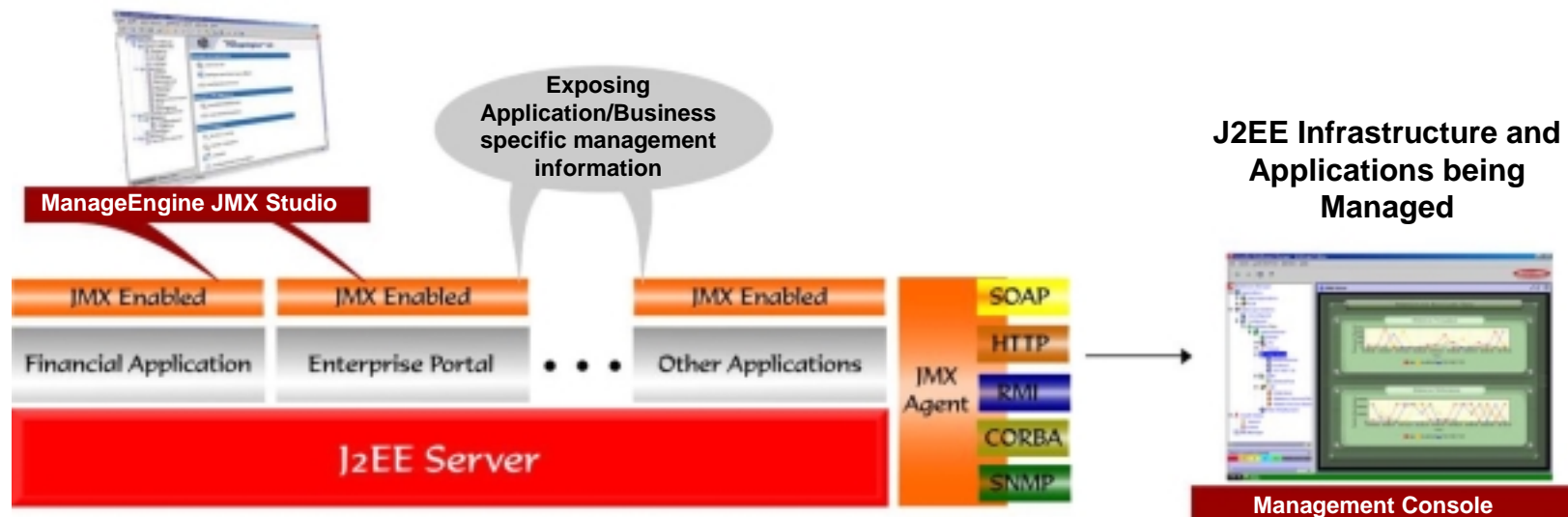




## ManageEngine Studio – Application Instrumentation Solution



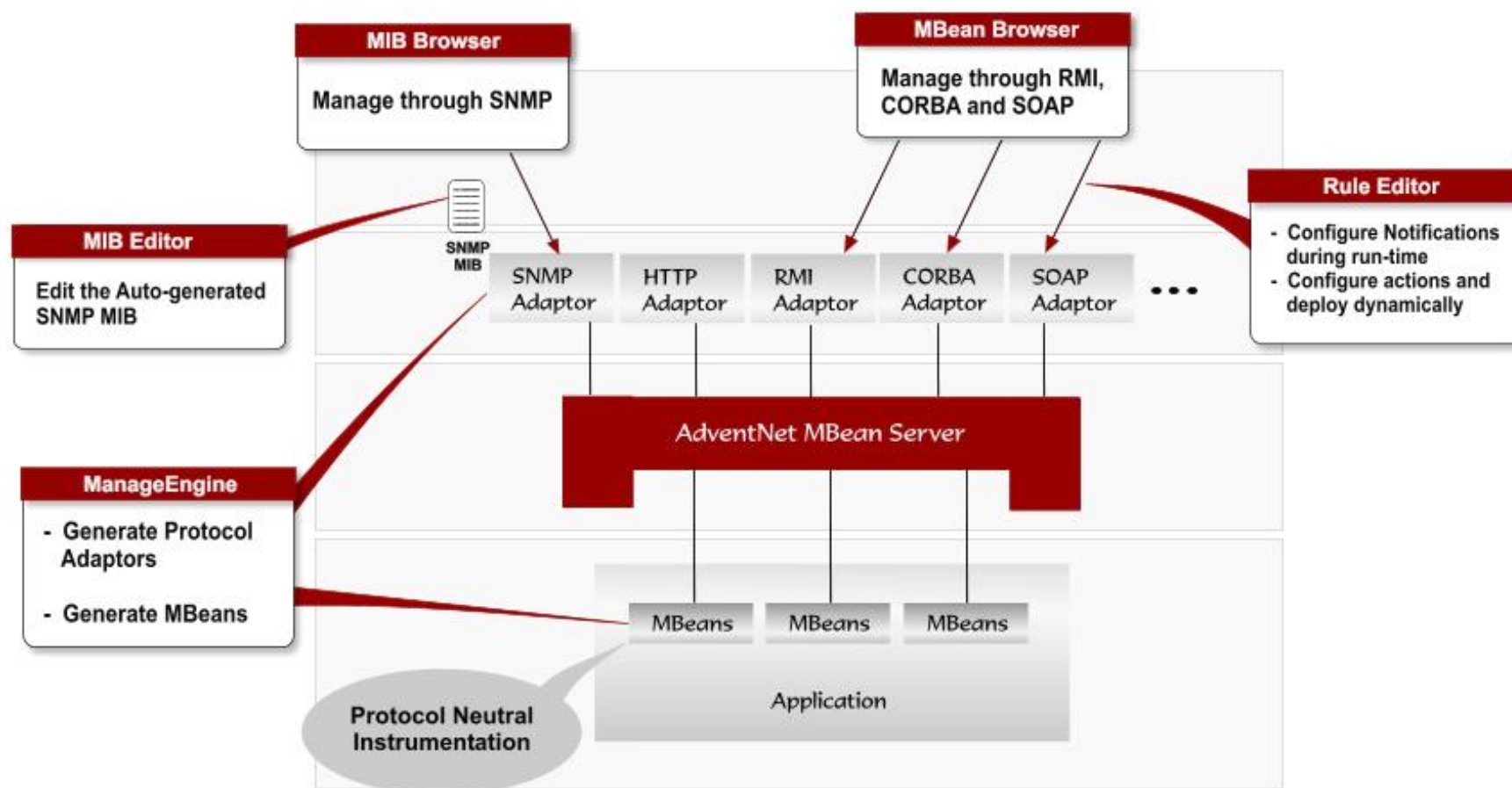
Existing Scenario –J2EE Servers with JMX Agent for infrastructure management



ManageEngine Solution – J2EE Applications made manageable



## *ManageEngine Makes Applications Manageable*





## ***ManageEngine JMX Studio - Features***

---

- Standards-based Application Management
- JMX agent fully compliant/compatible with JMX 1.0 specification.
- Auto generation of MBeans, Adaptors etc – No coding required
- Multi-management protocol support with SNMP, HTML, CORBA, RMI, and SOAP Adaptors.
- Manager tools for testing generated JMX agents: MIB Browser (SNMP), MBean Browser (RMI, CORBA, SOAP).
- JMX-based Rule Engine along with a Rule Editor for creating, editing, deleting rules on the fly.
- Complete Platform independent solution
- Master-Sub Agent Support
- Measure performance of your EJBs business methods, servlets.
- Log file and Database Monitoring through JMX
- Automatic SNMP MIBs and SNMP adaptor generation from MBeans.
- Automatic MBean generation for existing SNMP MIBs
- Supports SNMP Versions V1, V2c, and V3.



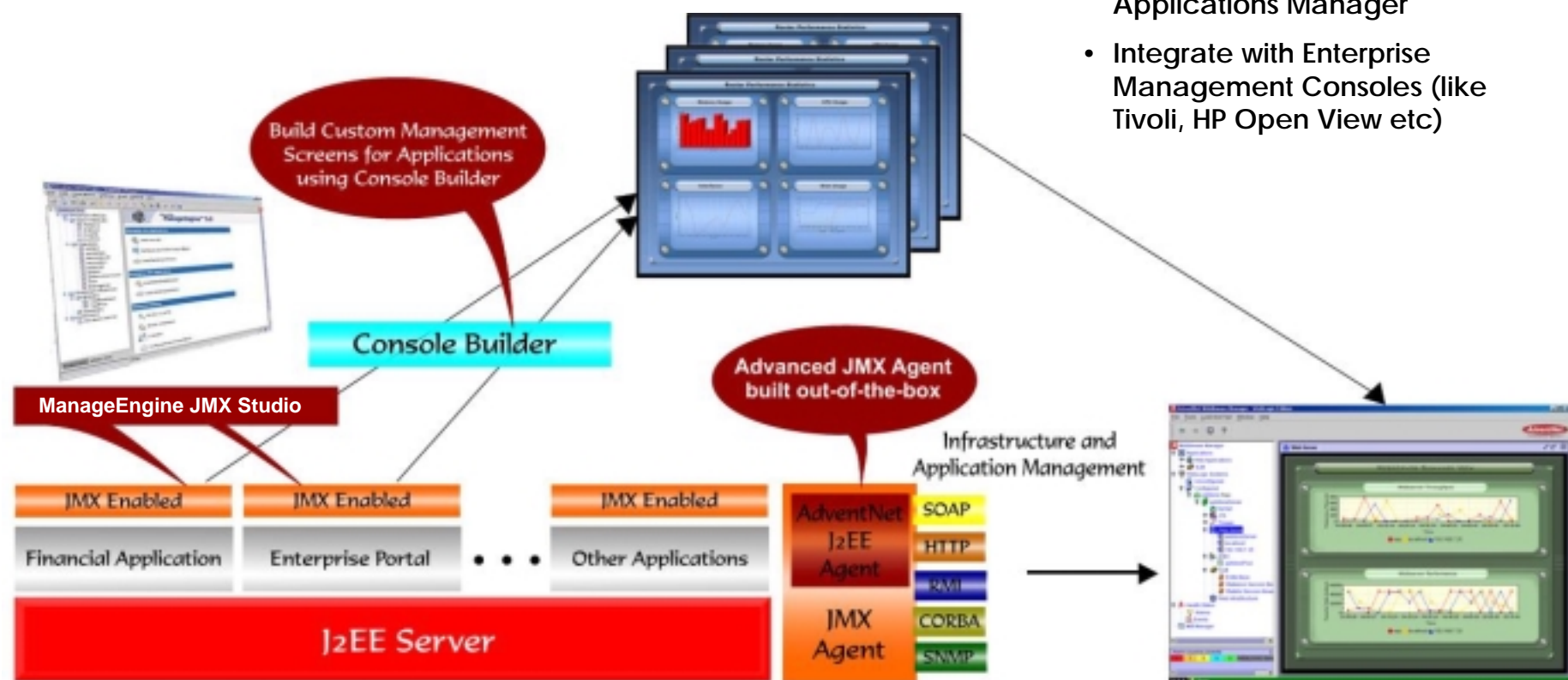
## *Powered by AdventNet JMX Technology Deployed in Over 150 Customers*

---

- |                         |                               |                                |
|-------------------------|-------------------------------|--------------------------------|
| • AAA                   | • Extricity/Peregrine         | • Siemens                      |
| • ABN AMRO              | • Forgent                     | • Software AG                  |
| • Alcatel               | • IONA                        | • Software House International |
| • Anoto AB              | • Kipling Systems AB          | • SpiritSoft                   |
| • BEA                   | • Laminar Software            | • SS8 Networks                 |
| • Bowstreet             | • Lockheed Martin Corporation | • Starfish Software            |
| • British Telecom       | • Lucent                      | • StorageNetworks              |
| • Broadsoft             | • Marconi                     | • Sycamore Networks            |
| • Capital One           | • McData                      | • Telcordia                    |
| • CCP Software GmbH     | • Morgan Stanley Dean Witter  | • Teradyne                     |
| • Cisco                 | • Motorola                    | • ThinAirApps                  |
| • Coca Cola Enterprises | • Nokia                       | • Unisphere Solutions          |
| • CrossWorlds/IBM       | • Nortel                      | • Vitria                       |
| • Deutsche Telekom      | • NPULSE                      | • VocalTec                     |
| • EBS Dealing Resources |                               |                                |
| • Ericsson              |                               |                                |

## ManageEngine Console Builder – What it Does – J2EE Illustration

- Create a Management Console for applications
- Integrate with ManageEngine Applications Manager
- Integrate with Enterprise Management Consoles (like Tivoli, HP Open View etc)



**ManageEngine Applications Manager**



## ***ManageEngine Console Builder***

---

- **Tool to generate consoles for JMX instrumentation**
- **Analysis and presentation of management data**
- **Generates graphical consoles automatically**
- **Wizards to generate custom consoles**
- **Supports different types of JMX instrumentation**
- **Integration with NSM consoles, including Tivoli, HP, CA**
- **Integration with ManageEngine Applications Manager**
- **Integrates views from multiple JMX agents**



## *ManageEngine Applications Manager*

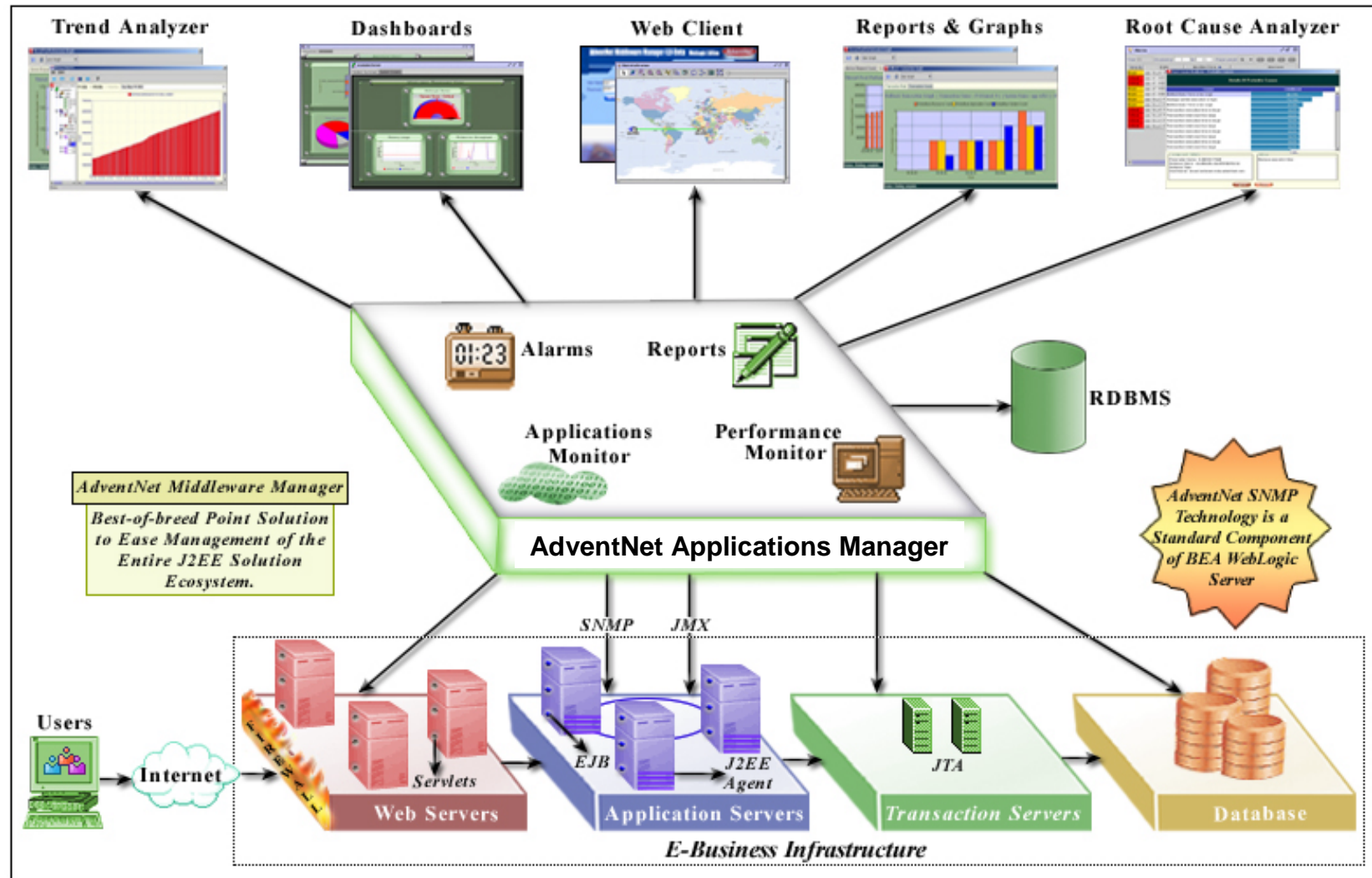


- **Manage J2EE Infrastructure and Applications built on J2EE Server using ManageEngine Applications Manager**
- **Applications Manager has out-of-the-box JMX based J2EE Agent with advanced functionality for monitoring J2EE infrastructure**
- **Management of infrastructure include**
  - **Fault Management**
  - **Configuration/Administration**
  - **Performance**





## ManageEngine Applications Manager Schematic





## ***ManageEngine Applications Manager***

---

- **Manages large-scale networks of application servers**
- **Proactive application management, including**
  - **Availability and performance**
  - **Web transaction details**
  - **Root cause analysis**
- **Discovers and monitors servers via JMX and SNMP**
- **Supports Weblogic, Websphere, and JBoss**
- **Provides advanced application-level instrumentation and visibility using ManageEngine technology**
- **Integrates management of Web servers, databases, load-balancers, and other network devices and systems**





## *Summary*

---

- **ManageEngine Simplifies Java, J2EE and Web Application Management using JMX**
  - Supports key industry standards like SNMP
  - Proven technology
  - Rapid development of powerful application monitoring agents
  - Automatic instrumentation of selected application data
- **Allows integrated management from existing NSM consoles**
- **Complete solution from instrumentation to consoles**
- **Enabler for Business Dashboards**