



**i n v e n t**



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**OMG MDA and HP**

# Model Driven Architecture

## Facilitates

- Portability of Applications
- Cross Platform Interoperability
- Platform Independence of Specifications
- Domain Specificity
- Productivity Gains in Application
  - Specification
  - Development
  - Deployment
  - Maintenance

# Model Driven Architecture

## Portability of Applications

- Increases Re-use of
  - Design
  - Implementation
- Reduces cost and complexity of
  - Application Development
  - Management
- Now and into the Future

# Model Driven Architecture

## Cross Platform Interoperability

- Using rigorous methods guarantees that applications based on multiple implementation technologies all implement identical business functions
- Shared Platform Independent Model makes interoperability among such applications easier

# Model Driven Architecture

## Platform Independence

- Greatly reduces the time, cost and complexity associated with re-targeting applications for different platforms
- Makes it easier to re-target to new platforms that are yet to be invented

# Model Driven Architecture

## Domain Specificity

- Domain Specific Models facilitate rapid implementation of new, industry specific applications on diverse platforms
- For example a Manufacturing Domain Specific Model can be specified using domain specific tools and then deployed on multiple platforms using the re-targeting capabilities of MDA

# Model Driven Architecture

Increase productivity for developers, designers and system administrators by allowing them to use languages and concepts that they are familiar with, while standards based tools and infrastructure facilitate seamless communication and integration across teams



# Model Driven Architecture

## Bottom Line

- Reduced cost throughout the application life-cycle
- Reduced development time for new applications
- Improved application quality
- Increased return on technology investment
- Rapid inclusion of emerging technology benefits into existing systems

## MDA and HP

The recently announced hp netaction software suite extends the reach of Internet operating environment by delivering tools and technology based on standards that seamlessly integrate with customer and partner capabilities on platforms of their choice

## MDA and HP

Needs of hp netaction software suite align well with what MDA promises

- The hp netaction software suite spans many platforms
- XML, J2EE™ and by implication IIOP™/CORBA™ are strategic underpinnings
- Targeted for HP's three OS technology platforms (HP-UX™, Windows NT™ and Linux™) and others
- Requires seamless interworking with partners' offerings
- Success depends on the ability to design once, deploy many ways on many platforms, and have the pieces interoperate seamlessly

## MDA and HP

The MDA Initiative at the OMG opens up a unique opportunity for creating and evolving platform agnostic standards like UML™, XMI™, CWM™ and their follow-ons that enable standards based realization and evolution of this multi-platform, multi-environment strategy