

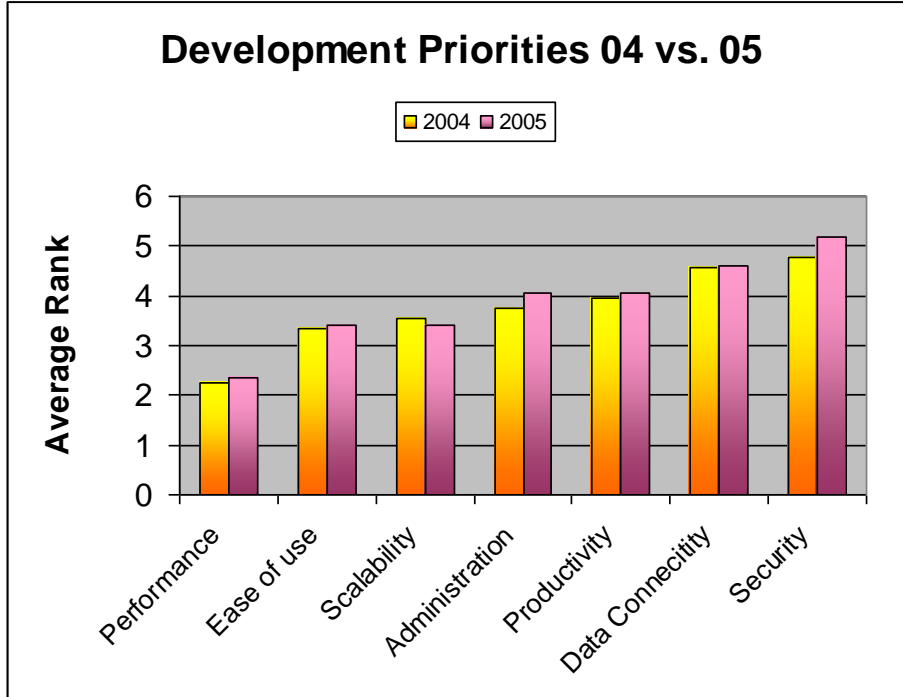
1. Architecture Overview and Components



Objectives

- **At the end of this module, the learners will be able to:**
 - Define purpose of Informatica
 - Explain features of informatica 8.x
 - Understand informatica Power center services

Thought Process behind Informatica 8



Customer Survey

- High Availability and Failover was a top 10 request in the 2004 User Group surveys
- Executing mapping logic directly in the database was 10th out of 66 features in the 2005 Surveys
- Better logging capabilities was 2nd out of over 60 feature requests in the 2004 surveys
- Looping support within the Designer
- Increased performance, scalability, reliability and better administration was the top ranking

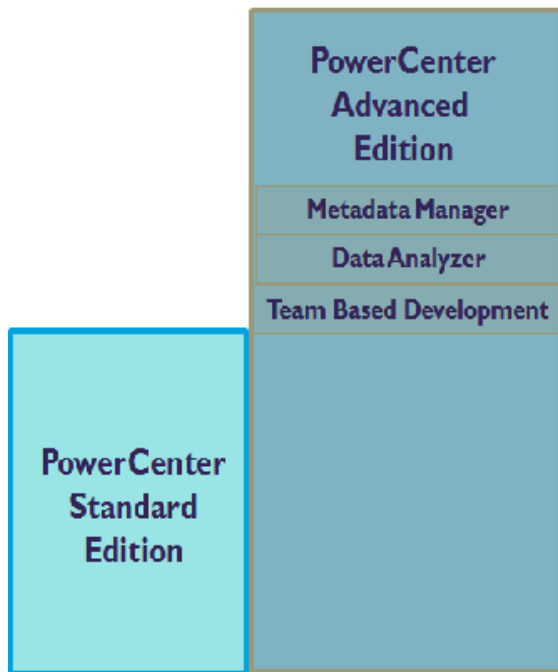
Why Informatica 8.x

- Service Oriented Architecture
 - Servers are now Services.
 - Informatica Future Releases are based on SOA architecture
- Enterprise Grid
 - Provides scalability within a grid computing environment
 - Optimum Performance through Load balancing
- Dynamic Portioning
 - Optimal Parallel Processing by dividing the data processing into data sets
 - It can be done based on number of Nodes, number of DB partition switch will improve linear scalability
- High availability & Resiliency
 - Seamless failover and recovery of all ETL Jobs
 - Reduces service interruptions in the event of hardware/software outages
- Pushdown optimization
 - Flexibility to push the mapping as a SQL to the database to improve performance
 - Mapping can be pushed to Source db, Target db or both etc

Why Informatica 8.x (Contd.).

- Integration with IDQ and CDE
 - IDQ will be used to do the Analysis and cleansing and Standardization
 - Inbuilt Data Quality plans for libraries
 - Unstructured Data Handling capabilities(Power Point, Word, PDF, ACCORD,EDI etc)
- Metadata Reporting through Metadata Manager
 - Integration of End to End Metadata from Source , ETL,DB,BI application
 - Operational Reporting on Time Consuming Jobs and Historical analysis
 - Data Lineage and Impact Analysis Reports
- Enhancements and advanced features in 8x
 - Enhanced Features for Real Time processing
 - Enhanced Features Web Service Features
 - Improved Flat File Processing capabilities
 - New Transformations (Java, SQL Transformation etc)

PowerCenter 8 Packaging



PowerCenter Options

New

Data Cleanse and Match

Data Federation

Enterprise Grid

High Availability

Pushdown Optimization

Unstructured Data

Updated

Data Profiling

Partitioning

Real-Time

Broader

PowerCenter Connects

Informatica Product Line

- PowerCenter
- PowerExchange
- Data Quality
- Data Explorer
- Identity Resolution
- B2B Data Transformation
- Data Archive
- Data Subset
- Data masking

Definitions

- **Service:** a logical representation of a server or process
 - e.g. Repository Service, Log Service
- **Nodes:** a logical representation of hardware
 - Usually 1:1 relationship with physical server
- **Domain:** a logical unit for management and administration for PowerCenter services
- **Service Process:** the physical instance of a service on a node. i.e. a process or set of processes
 - In a High Availability/Failover scenario, if a node goes down, it is the Service Process that is brought up on the back up node

PowerCenter Services

- Application Services are created and configured by Administrator via Administration Console
 - Integration, Repository, Web Service Hub, SAP BW Services
 - Can have multiple instances of each type of service
 - Administrator can configure, add/remove or enable/disable services

- Core Services are automatically created and running within a domain
 - Can be monitored via Administration Console
 - Core Services are highly available (by design)
 - Some configuration is possible by an Administrator

Log Service

- All log events managed centrally across services in a domain Query and filter log events
- Export logs
 - Save to XML format
- Archive logs (to specified location)
 - Domain (all logs)
 - Service (logs associated with a service or service type)
 - Text or XML format
- Purge logs
 - Immediate on demand (up to an end date)
 - Auto-purge based on date, disk space
 - Domain (all logs)
 - Service (logs associated with a service or service type)

Review: Q&A

- What is a domain in informatica Powercenter?
- Name some products from informatica Powercenter productline?
- Name the Powercenter components?

Summary

In this module we discussed:

- Purpose of Informatica
- Explained the features of Informatica 8.x
- Understand informatica Power center services
- How to control the services



Thank You