

## MQSeries Workflow V3.3 TTT Class

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## **Business Process Management MQSeries Workflow V3.3**

**New functions update** 

BPM from IBM allows a business to do *what* it wants, *when* it

wants, and how it wants.

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> MQSeries Workfl V3.3 -TTT Class





## MQSeries Workflow V3.3 - Evolution

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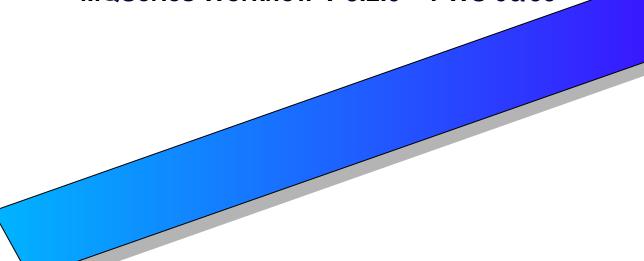
MQSeries Workflow V3.3 03/2001

MQSeries Workflow V3.2.2 07/2000

**MQSeries Workflow V 3.2.1 OS/390 12/99** 

MQSeries Workflow V 3.2.1 PWS 09/99

MQSeries Workflow V 3.2.0 PWS 06/99



MQSeries Workflow V3.3 New Functions





## MQSeries Workflow V3.3 - Goals

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## Manage business processes from start to end, leveraging distributed resources

...the process engine for WebSphere and MQSeries

- Enhancing Websphere and MQ Family integration
- Reducing cost of ownership and cost of introduction
- Extending process automation support
- Improving performance for highly automated processes
- Addressing key customer requirements
- Ensuring platform currency





## MQSeries Workflow V3.3 - At a glance



- Comprehensive support for web standards
- Support for Webserver farms
- JSP-wizard-for web user front-ends
- Asynchronous event handling exploiting MQ/XML and MQSI pub/sub
- Extended container size to 4MB
- Dynamic sub-process invocation
- Oracle 8 support, in addition to DB2
- Tivoli Inventory Enablement
- Configuring clusters for large installations
- Increased performance
- Server-based price





## Increased performance

- Enhanced process automation performance
  - most effect by automatic activities started unattended
  - -'staffless'
- Reducing number of container instances
  - reuse of identical data container instances at runtime, most effect for huge data containers
  - Avoids data mapping from input to output container if no default data connector is specified.
  - Avoids data mapping from output to input container if no loop data connector is specified.
- DB2/390 performance improvements in a DB2/390 Data Sharing Environment

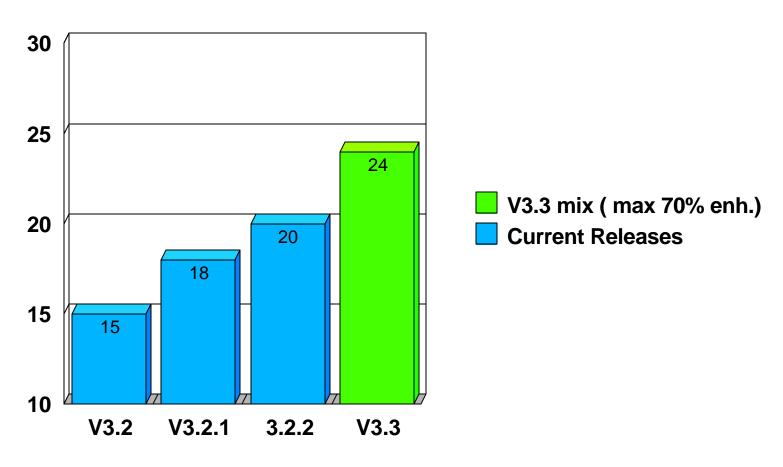




## Performance enhancements

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#### Basic Act. / Sec. on RS6000 F50









## Wizard-based JSP GUI generation

- for Rapid Process Deployment
- generates JSP GUIs based on data container definition
- plug-in to WebSphere Studio
- available as support pack





## Comprehensive support for Web standards

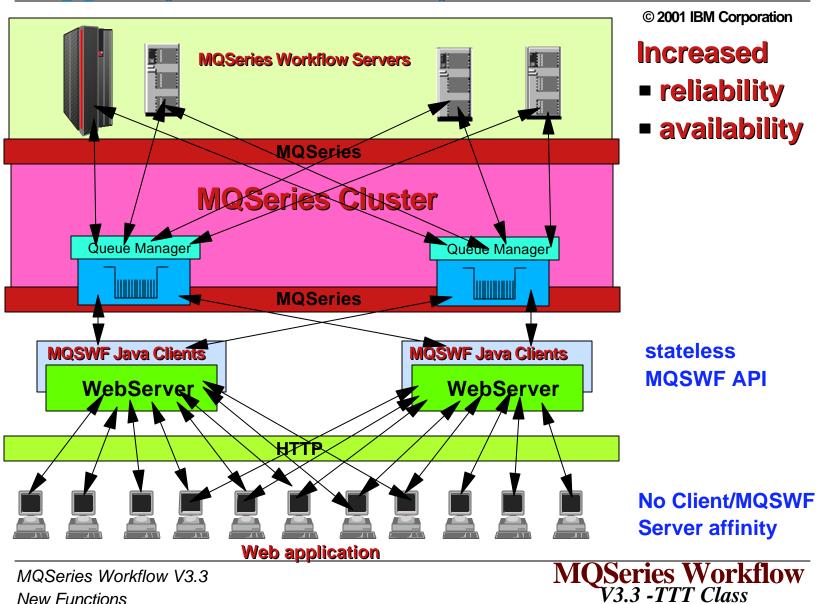


- MQSWF WebClient part of product
- JSP wizard for rapid process deployment
- Web security
  - made available through authentication exit
- EJB invocation via MQ/MQAO and XML
  - locator policy is JNDI
- J2EE standard support
- Web server farms
- RMI over IIOP now supported on z/OS as well
- MQSWF Execute APIs available in Java

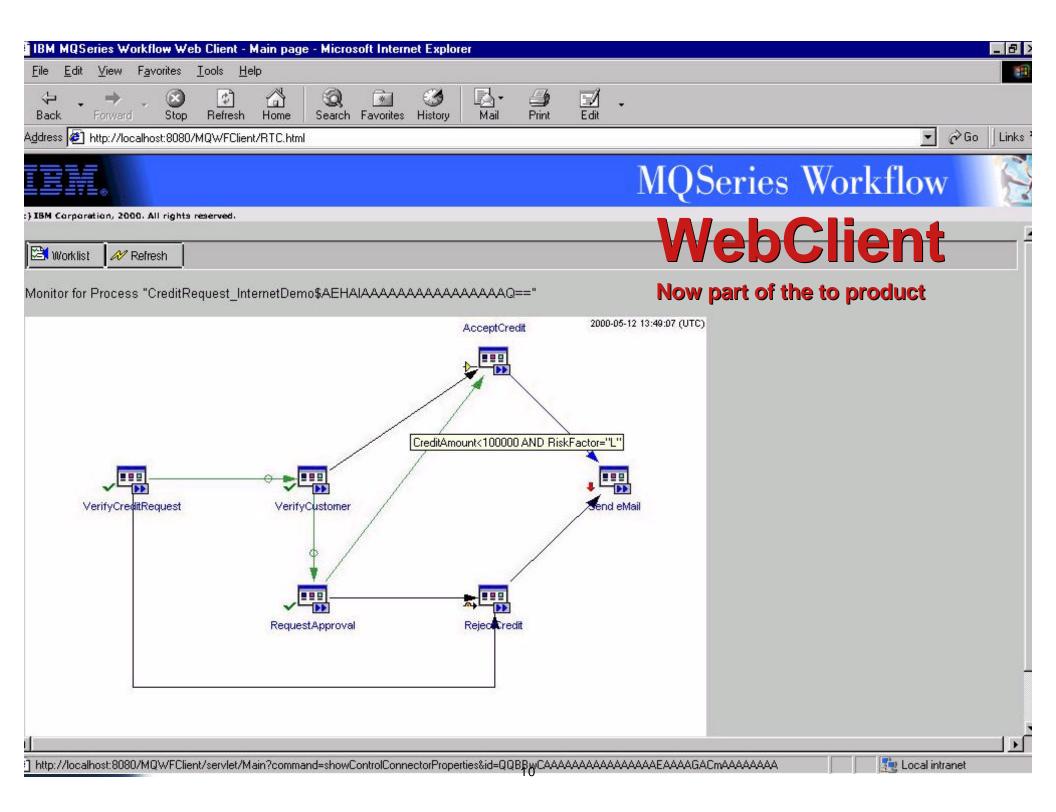




## Support for Web server farms

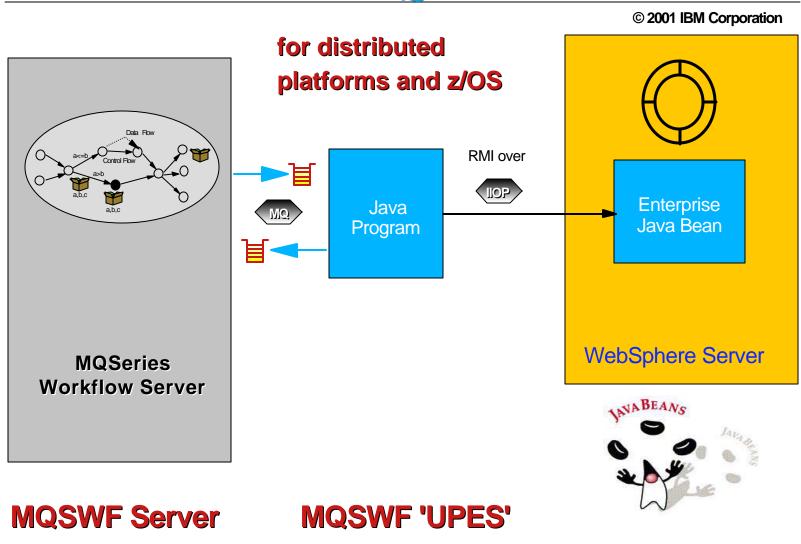


New Functions





## EJB invocation via MQ and XML



MQSeries Workflow V3.3 New Functions MQSeries Workflow V3.3 -TTT Class



## Dynamic sub-process invocation

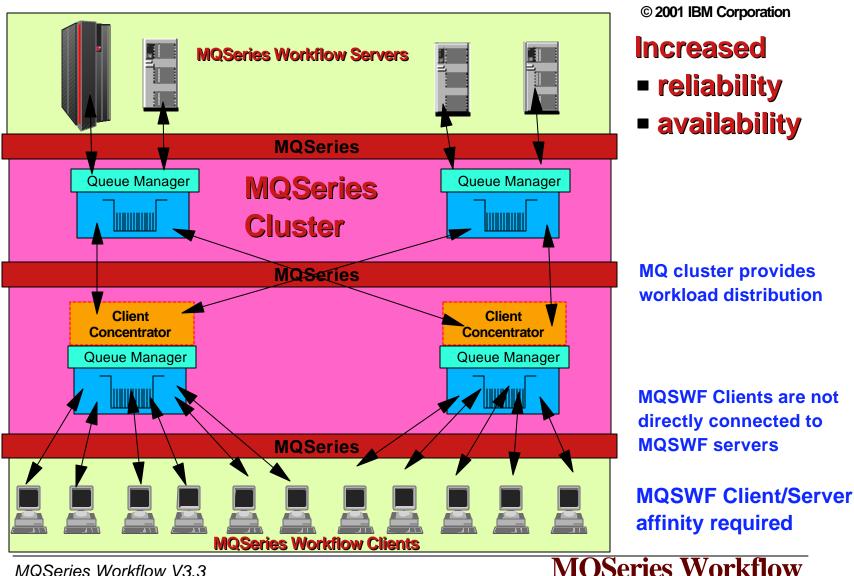
- Allows to decide during runtime which process model to invoke as sub-process
- Name of process model can be passed via input container of the corresponding process activity.
- Navigation engine checks corresponding field and creates the required process instance
- Mapping of the input/output container of the sub-process and the corresponding process activity is done via member name.







## Support of configuration clusters for large installations



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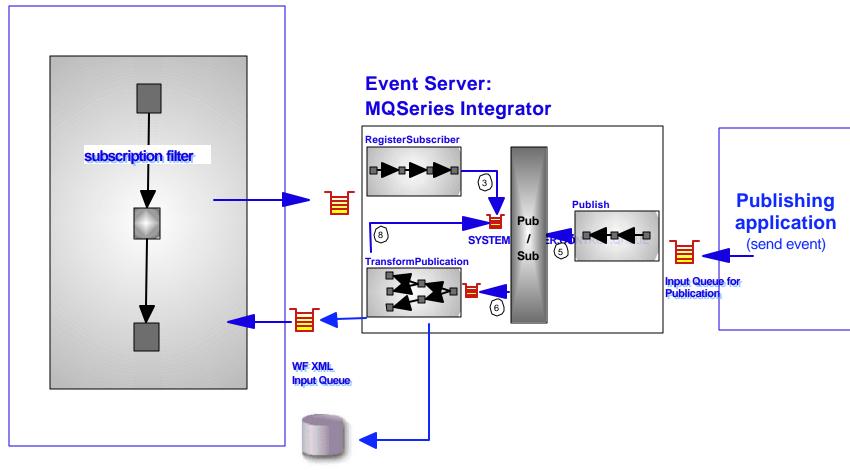
New Functions



## Asynchronous event handling

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#### **MQSeries Workflow Server**



**Correlation data** 

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# Process model enhancements for exception handling and automation

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#### Termination of activities

- automatically send as XML message to UPES
- allows to support automated follow-on steps after activity or process termination

### Activity state in transition conditions

- Allows to trigger different activities depending on the final state of the activity within the process model
- States for actual and previous activities (expired, finished, ForcedFinished, skipped)

### Expiration status for activities

- Provides a new final state 'Expired'
- Duration after which the activity expires can be specified in (Sec. Min. Hours....) like notification

#### ForceFinish/Force Restart with container values

- API to send new data container data
- used to handle exceptions
- used to force continuation of processes





### **Additionals**

- Extended container size to 4MB
- Audit messages
  - Audit trails in XML format can be written into a MQ queue
  - Filters (SQL updates) allow to specify object types to be written
- Authentication exit
  - Allows to use customer preferred authentication facility
  - Supports implementation of single logon
  - Passwords need not to be maintained in MQ workflow
- Tivoli inventory enablement
- Block activity name visible in audit trail
- Consolidation of error management
  - Allows error reporting and error handling in a standardized way
- Active tracing
  - Incore trace for first failure data capture on servers
  - Entries are written automatically at abnormal termination
  - External writer optionally allows to write trace buffers to file





## Platform Currency

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### New releases / versions supported

- ► IBM DB2 Version 7 on distributed platforms
- ► IBM Websphere 3.5
- ► IBM MQ Series Version 5.2
- ► IBM AIX 5L Power PC
- ► IBM OS/390 V2.10
- ➤ Oracle Version 8.1
- Sun Solaris 8
- Microsoft WindowsMe for clients
- ► Java JDK 1.3 (addl platform dependencies)
- ► XML V3

### Support dropped

- ► IBM OS/2 support (server and client)
- ► IBM OS/390 V2.6
- ► IBM DB2 V5 support on distributed platforms
- Microsoft Windows 95 support (client)
- ► Lotus Notes client support (UI dropped, API still maintained)
- ► Java JDK 1.1.x and 1.2.2

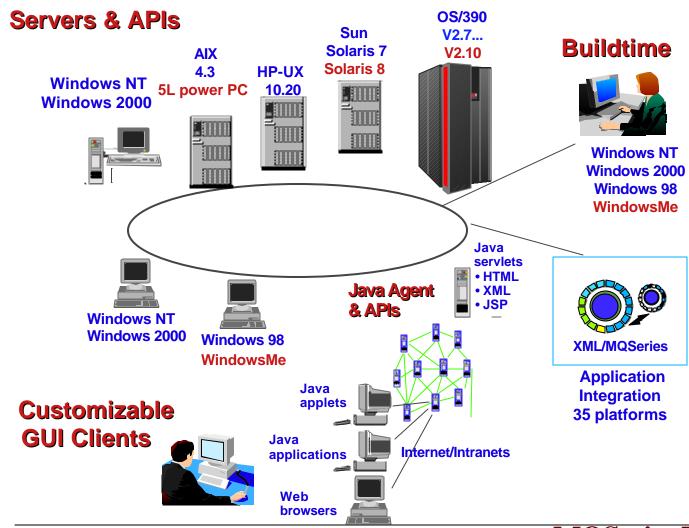
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## MQSeries Workflow V3.3 - Platforms

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