What's New in IBM Express Runtime Version 2.1?

IBM Virtual Innovation Center

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Objectives

- The objective of this module is to introduce the new feature enhancements in Express Runtime Version 2.1

  - Renamed from Integrated Runtime to Express Runtime
  - Built on the latest market leading middleware components
  - Added functional support for Enterprise JavaBeans (EJB) and Java Messaging Service (JMS)
  - Console for Express Runtime
  - Enhanced wizards for the development and deployment of a solution
  - New development environment
  - Extended platform support
  - Autonomic log and trace analyzer

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Renamed from Integrated Runtime to Express Runtime

- Express Runtime was previously named Integrated Runtime in Version 1.1

- In Version 2.1, it is renamed to Express Runtime. The new product offers a comprehensive set of tools to develop and deliver complete business solutions to customers.

IBM Express Runtime

Version 2.1

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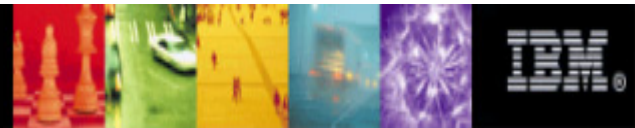
Built on the latest market leading middleware components

- ## The middleware components consist of:

  - ### IBM HTTP Server 6.0*

    - Express Runtime contains the full IBM HTTP Server to help you service multiple Web requests and feed them into the application server. The IBM HTTP Server provides a security-rich, standards-based Web environment capable of handling fast, high-bandwidth transactions.

  - ### IBM HTTP Plug-in for WebSphere Application Server

    - Express Runtime also includes Web Server Plugin, which helps automate the configuration of the IBM HTTP Server and the WebSphere Application Server–Express. This automated configuration reduces the time and resources required to establish and configure a secure, fully functional Web environment.

* IBM HTTP Server is integrated into OS/400 and IBM i5/OS.

WebSphere software   **DB2.** Information Management Software

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Built on the latest market leading middleware components (cont.)

- **WebSphere Application Server - Express Version 6.0**
  - Express Runtime contains the execution environment from WebSphere Application Server Express. It provide you with a standards-based application server that supports the full Java 2 Platform, Enterprise Edition (J2EE) 1.4 programming model and extensions including servlets, JavaServer Pages (JSPs), EJB, JMS, and Web services.
  - The software also easily integrates with the relational database (RDB) and other system services, providing cross-organizational views and access to application data and functionality.

- **DB2 Universal Database (UDB) Express Edition Version 8.2***
  - Express Runtime contains the execution components from DB2 UDB Express. It provides a fully functional, standards-based RDB specifically designed to support midsize business applications.
  - As a member of the IBM DB2 family, DB2 UDB Express is compatible with the other members of the DB2 RDB family.

* DB2 UDB is integrated into OS/400 and i5/OS.

WebSphere software   DB2. Information Management Software

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Added functional support

- **EJB support via WebSphere Application Server - Express 6.0**

- **JMS support via WebSphere Application Server - Express 6.0**

Note: The inclusion of the support for both EJB and JMS requires a higher hardware specification for the development machine. Refer to the Express Runtime Information Center for more details.

Console for Express Runtime V2.1

- An integrated Web-based console provides consolidated and remote administration of the middleware components (WebSphere Application Server - Express, DB2 UDB Express, and IBM HTTP Server).

Enhanced wizards for development and deployment

- The Application Wrapper Editor and Solution Wrapper Editor in the Express Runtime Developer allow you to create and edit the wrappers without having to code the Extensible Markup Language (XML) source.

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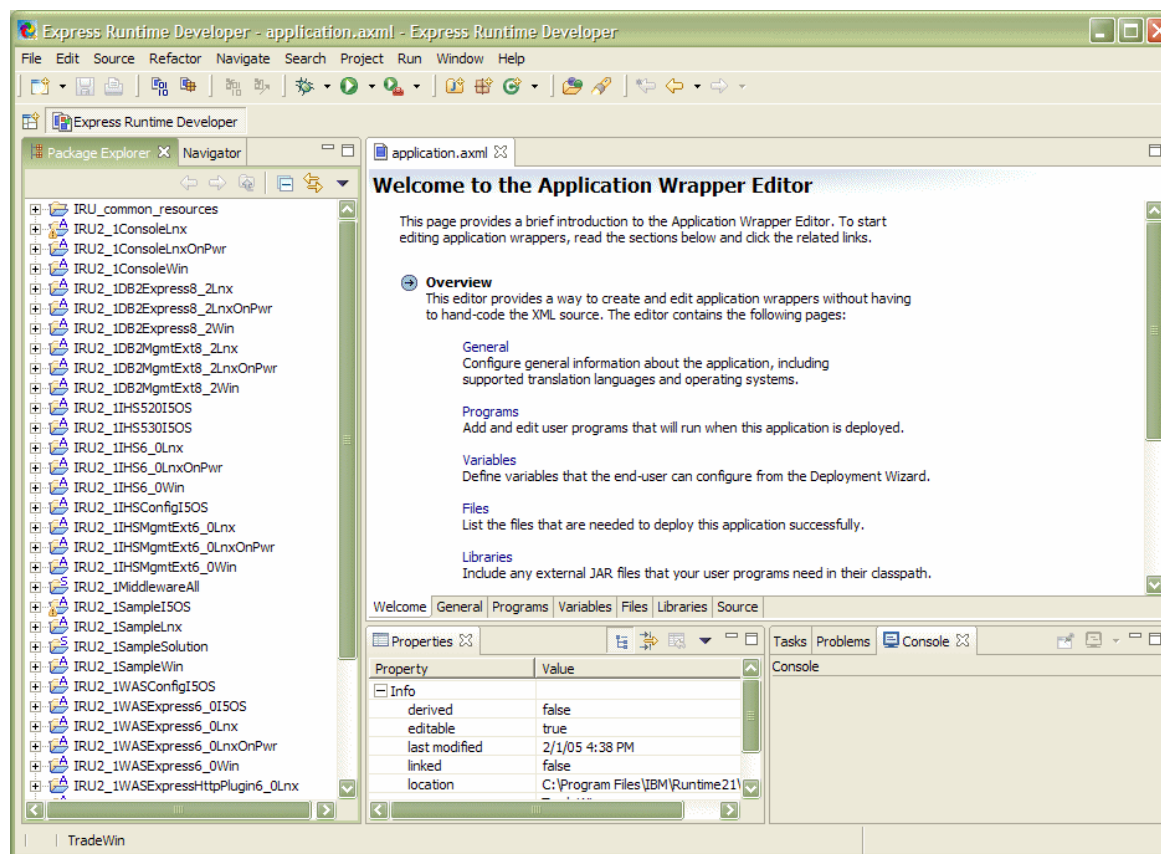
Improved Deployment Wizard

– Previously called the Solution Deployer, the Deployment Wizard provides a step-by-step graphical user interface (GUI) to guide users through the deployment process.
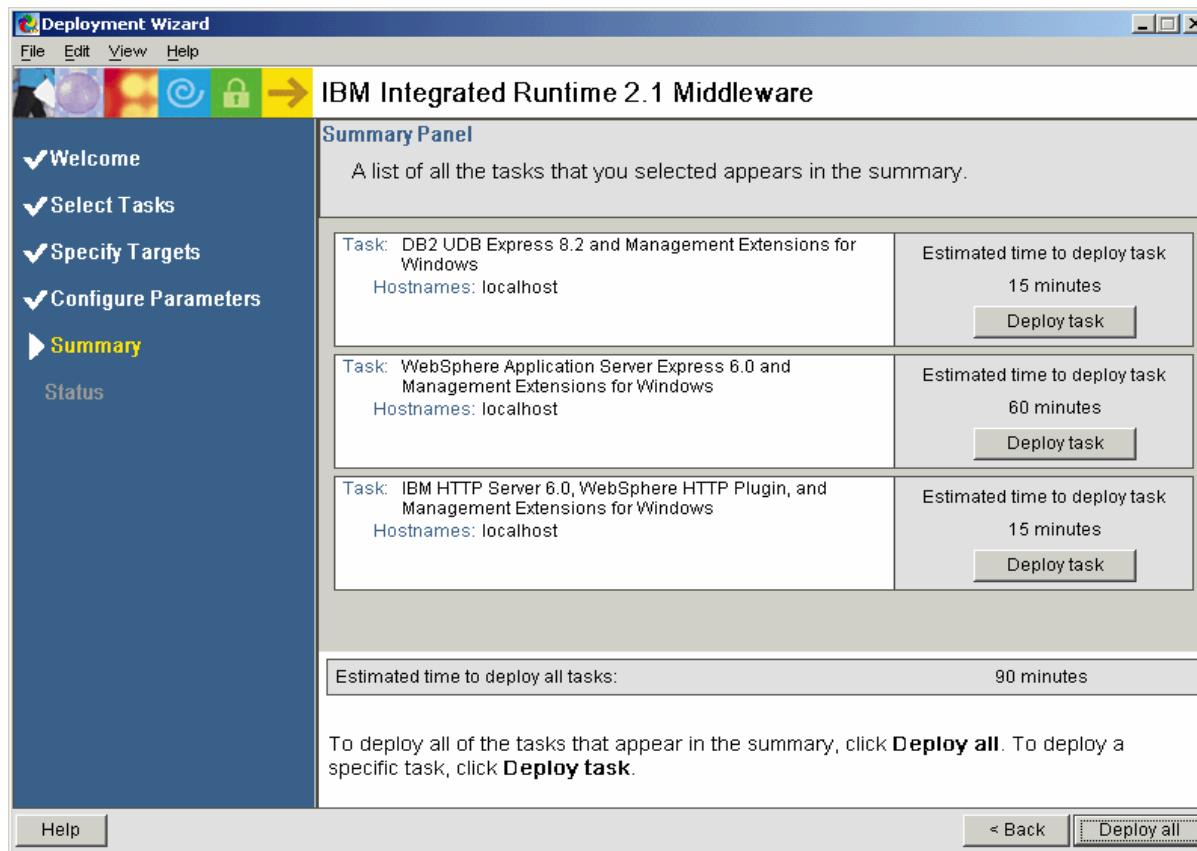
✓ **Automated deployment of solution components**

✓ **Full integration of Business Partner applications**

✓ **Pre-integrated and preconfigured solution components**

✓ **Remote installation and configuration on target machines of different operating systems**

✓ **Reduces time and cost for deploying a solution**

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IBM application development tools

- Two copies of Rational Web Developer are included that allows you to assemble solutions, build, test, and deploy Web services and Java applications.

- Rational Application Developer and other Rational tools are available via the Software Access Catalog.
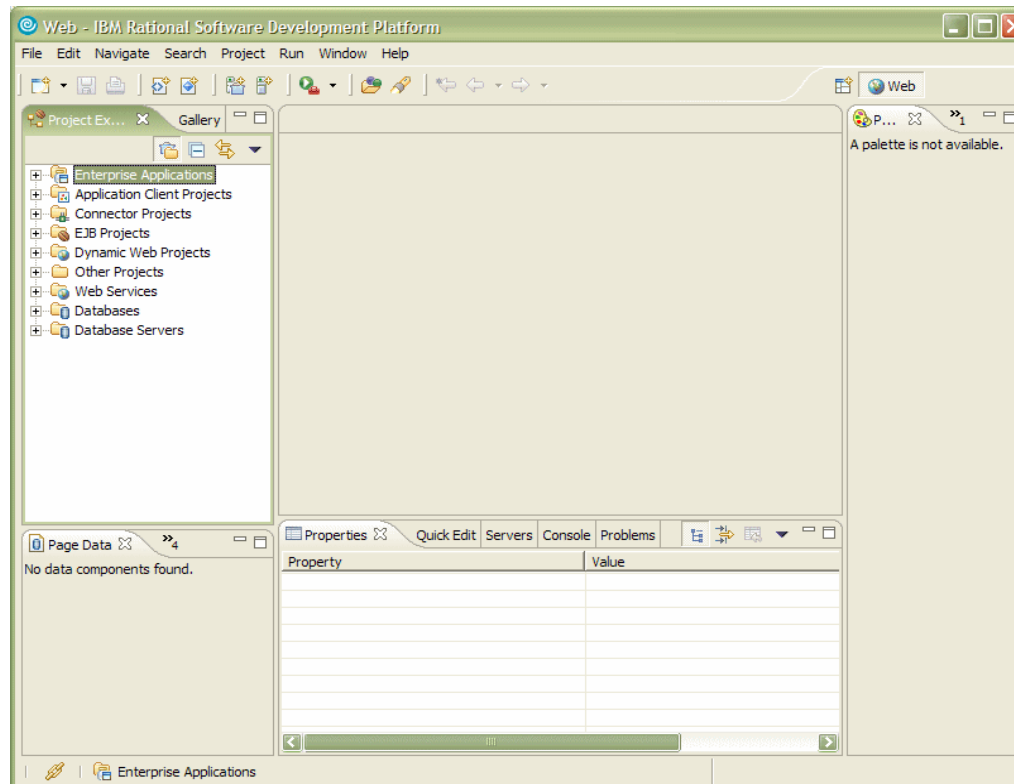
Expanded platform support

- **Windows®**
  - Windows XP Professional SP™ 2
  - Windows 2000 Server SP4
  - Windows 2000 Advanced Server SP4
  - Windows 2000 Professional SP3
  - Windows Server 2003, Standard Edition SP1
  - Windows Server 2003, Enterprise Edition SP1
- **Linux™ for POWER (deployment target only)**
  - SUSE LINUX Enterprise Server (SLES) 8.0
  - SUSE LINUX Enterprise Server (SLES) 9.0
  - Red Hat Enterprise Linux AS 3.0
- **Linux™ (Intel™ platforms only)**
  - Red Hat Enterprise Linux (RHEL) 3.0 WS/AS/ES
  - SUSE LINUX Enterprise 8.0
  - SUSE LINUX Enterprise 9.0
  - Red Flag Advanced Server 4.1 (deployment target only)
- **IBM i5/OS or OS/400 V5R3 (deployment target only)**

Autonomic log and trace analyzer (technology preview in V2.1)

- Provides a single, integrated point of problem determination for multiple software components distributed across a company's network

✓**Common log format for easy viewing, analysis, and automated problem determination**

✓**Future integration with Business Partner administration functions**

✓**Common log functions integrated with administration console**

✓**Enables partners to remotely access customer logs for servicing**

✓**Reduces time and costs for problem determination**

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Summary

- New feature enhancements in Express Runtime V2.1 bring significant benefits to end - customers. They further simplify and expedite the development and deployment of a complete business solution.

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End of the module

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