

IBM DUBLIN FINANCIAL SERVICES SOLUTIONS CENTRE

SAP RFC/BAPI SOLUTION V1.0.0 FOR WMQI SERVICE OFFERING

Document Revisions

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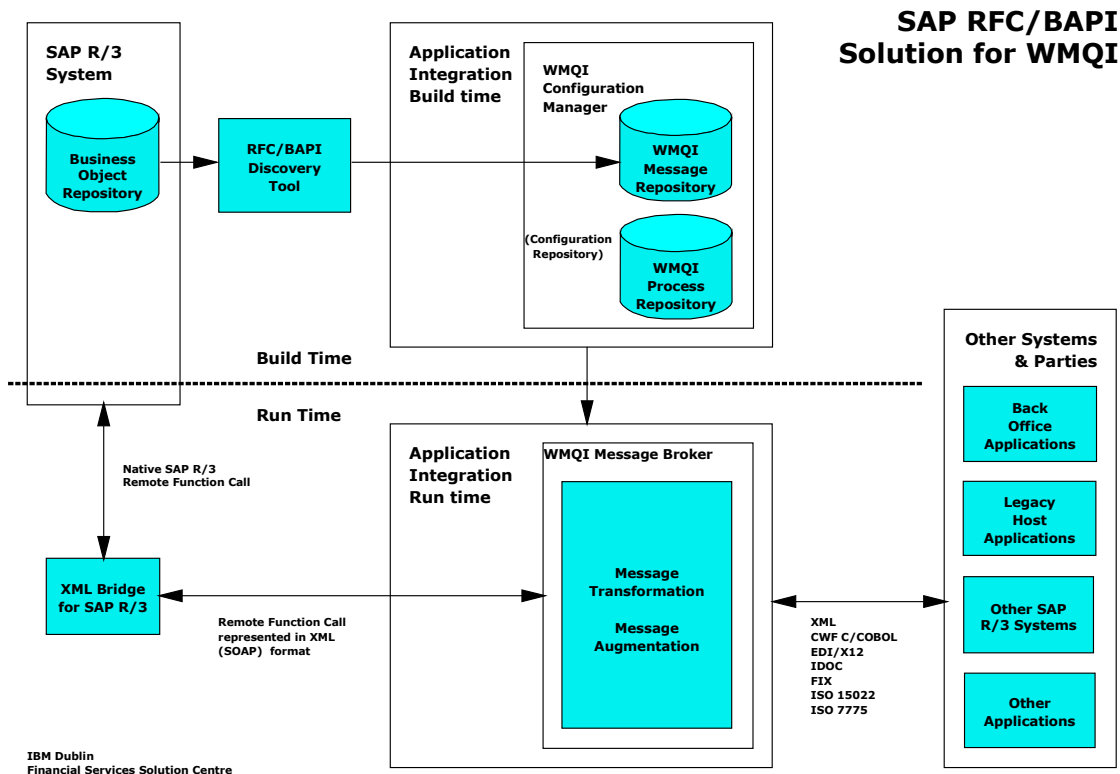
OVERVIEW

SUMMARY

The SAP RFC/BAPI Solution for WMQI is a Category One Fee Based Support Pack services offering for WMQI 2.1 CSD02 (and later).

The SAP RFC/BAPI Solution for WMQI allows WMQI to make Remote Function Calls (RFCs) to SAP R/3 on behalf of other SAP, non-SAP legacy and contemporary systems. The process of making the RFC call is transparent to these systems, so in addition to facilitating integration, the solution shields EAI solution developers from the complexities of SAP RFC and BAPI interface programming.

Remote Function Calls (RFCs) and Business API (BAPI) are standard interfaces in the SAP R/3 system that allow access to SAP R/3 business processes and data from external systems. Each function underlying a BAPI supports the RFC protocol and has been assigned as a method to a SAP Business Object in the Business Object Repository (BOR). Since BAPIs in the SAP R/3 System are implemented and stored as Remote Function Call (RFC) function modules, the RFC interface can be used to exploit BAPI functionality.



FEATURES

The solution comprises of two primary components:

- **RFC/BAPI Discovery Tool & Importer (Build Time)**

The discovery tool is a GUI driven tool that can connect directly to the SAP R/3 system. It is used to extract BAPI and RFC metadata from the SAP R/3 Business Object Repository and import it directly into the WMQI Message Repository in the form of message sets.

Build time tooling is supported on Windows NT/2000 platforms.

- **XML Bridge for SAP R/3 (Run Time)**

Inbound (to SAP R/3): The XML Bridge for SAP R/3 receives an XML (SOAP) message containing an RFC or BAPI instruction from WMQI*. The bridge then makes the corresponding native RFC/BAPI call into the SAP R/3 system. It processes the response from the SAP R/3 system, converting it to an XML message and returning it to WMQI*.

Outbound (from SAP R/3): A SAP R/3 application sends a native RFC or BAPI call to the XML Bridge for SAP R/3. The bridge then sends a corresponding XML (SOAP) message to WMQI*. A response message is sent as XML (SOAP) back to the XML Bridge for R/3*. The bridge in turn translates this into a native SAP R/3 response. This response may be originated from within the WMQI broker itself, or, by transformation of a response from another EAI participant.

* Transported as an MQSeries message.

The XML Bridge for SAP R/3 is Java application that will run on any Java 2 (or later) platform runtime implementation.

The solution may be used in conjunction with other WMQI solution offerings to enable transaction processing across platform, application and standards boundaries.

Sample WMQI Message Flows are also delivered as part of the solution materials.

BENEFITS

The SAP RFC Solution for WMQI is designed to work seamlessly within the WebSphere MQSeries Integrator environment. The BAPI/RFC discovery tool and XML Bridge for SAP R/3 offer considerable productivity advancement, in particular shielding EAI solutions developers from much of the complexities of BAPI/RFC programming.

The adoption of the SAP RFC Solution for WMQI by an organisation will represent savings in time and cost in data analysis, message modelling, and development of message processing/EAI solutions involving SAP R/3 systems.

By buying into the collective expertise used to develop the SAP RFC Solution for WMQI, an organisation will significantly lower the project cost and risk of project failure. This will ultimately lead to faster and cheaper delivery of applications to production.

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