

ATPL+ Rational Unified Process (ATPL+RUP)

Features & Benefits

- Integrates TOGAF with IBM Rational Unified Process
- Delivers actionable enterprise architecture
- Identifies EA deliverables that are input into specific solution delivery tasks
 - Solution Delivery Recommendations
 - Solution Architecture Contract
 - Architecture Review Report
- New roles
 - Solution Architect
 - Architecture Review Lead
- Certified by The Open Group
- Validated by IBM Rational

Ready for



Overview

ATPL+ Rational Unified Process (ATPL+RUP) is a method plugin in the [APG TOGAF Process Library \(ATPL\)](#) that integrates [The Open Group Architecture Framework \(TOGAF™\)](#) and its Architecture Development Method (ADM) with the [IBM Rational Unified Process® \(RUP®\)](#). RUP is a comprehensive process framework that provides industry-tested practices for software and systems delivery and implementation and effective project management.

Research shows that high-performing organizations see a 40% increased ROI on IT investments than their competitors ([Weill & Ross, 2004](#)). These industry-leading companies share a number of common success factors, including:

- Assigning accountability for organizational change to key solution delivery projects,
- Clarifying how architecturally-significant projects link to business strategy, and
- Learning from each project to further develop internal capabilities to effectively manage architecture assets.

Related studies also show that organizations who effectively govern their IT portfolios realize 20% higher profits (ROA) than their competitors. ATPL+RUP provides organizations an integrated framework of proven best practices and industry standards that delivers these capabilities in pursuit of these benefits.

The solution architect role in [ATPL+ Govern Solution Architectures \(ATPL+GSA\)](#) describes the hand-offs between enterprise architecture and solution delivery (see Figure 1). However, it is still the responsibility of the development team to understand what to do with the information provided.

Price

Included with ATPL license

Product

#02-010402

Audience

- Chief Information Officer
- Vice President/Director in IT
- IT manager
- Enterprise architect
- Process architect

System requirements

Browsing ATPL

- Mozilla Firefox v1.5+ or Microsoft Internet Explorer v6.0+
- Customizing ATPL
- EPF Composer v1.2.0.2

About Armstrong Process Group

Armstrong Process Group, Inc., (APG) is committed to providing proven and practical process guidance for aligning IT capabilities with business strategy through the combination of integrated strategic process improvement consulting, customized classroom training, professional development products, and project coaching. APG is an Influencing member of the Object Management Group (OMG) and contributes to the UML 2.0 and SPEM 2.0 specifications. APG is a member of The Open Group Architecture Forum and contributes to the ongoing evolution of The Open Group Architecture Framework (TOGAF) and the IT Architect Certification (ITAC) program. APG is also a contributor to the Eclipse Process Framework (EPF) initiative. APG is an IBM Business Partner, an IBM Independent Software Vendor, a Telelogic Partner, and a Value-Added Reseller for Sparx Systems. APG is a privately-held corporation located in Hudson, Wisconsin.

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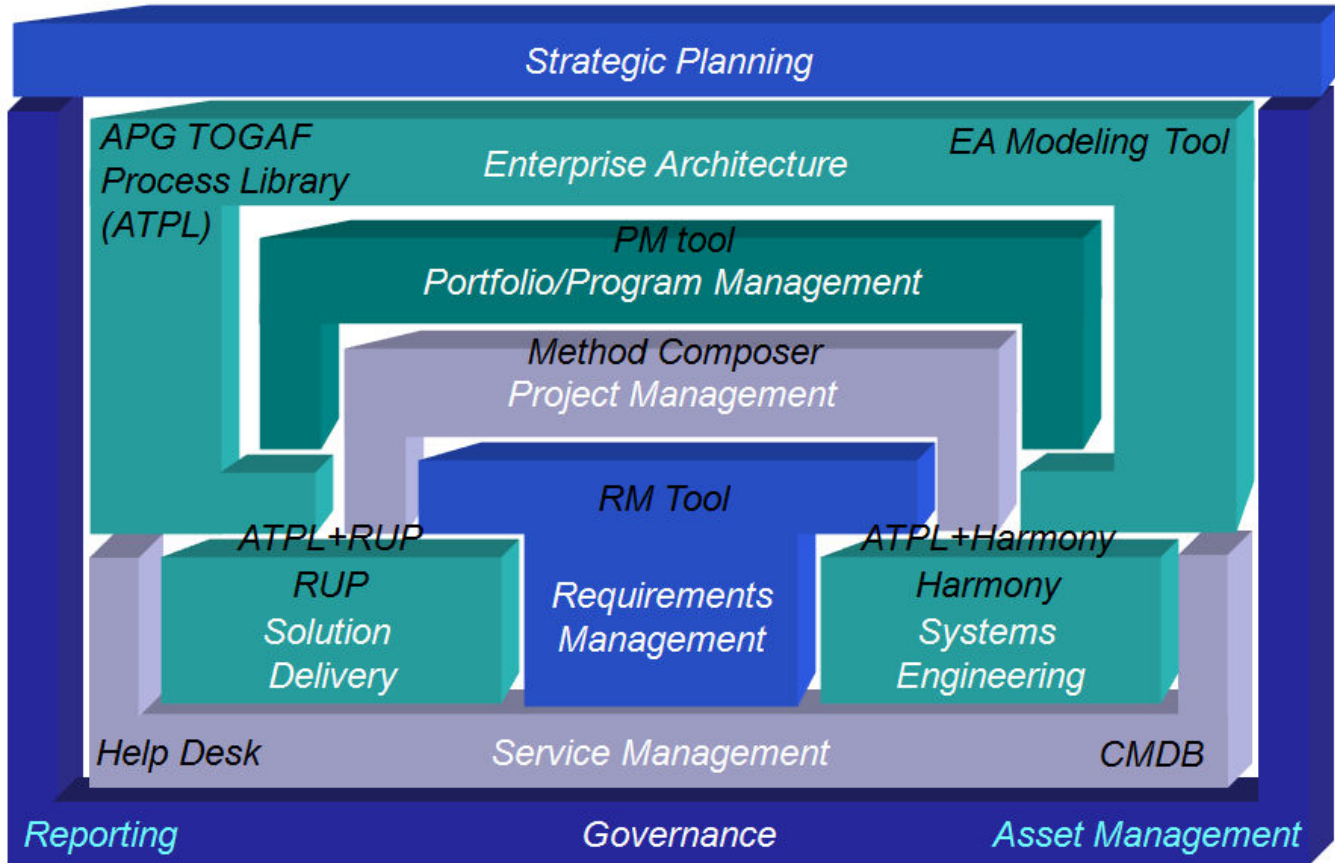


Figure 1 Different business-IT lifecycles and how they need to integrate with one another. Also shows the types of tooling required to support each lifecycle and their integration.

This requires an organization to do two things:

- Provide a clear definition of the solution delivery method, and
- Identify which deliverables from the architecture development method are inputs to which activities in the solution delivery lifecycle.

Organizations interested in rapidly adopting industry standard best practices for enterprise architecture and solution delivery have a unique opportunity to provide a comprehensive and integrated solution. With ATPL and RUP being built on the same Eclipse-based platform (see Figure 2), APG has created ATPL+ Rational Unified Process (ATPL+RUP) – a tight integration between TOGAF Architecture Development Method (ADM) and RUP.

Integration with IBM Rational Unified Process

ATPL+RUP provides a clear description of how enterprise architecture integrates with solution delivery and identifies which TOGAF architecture deliverables are relevant to solution delivery and associates them with specific tasks within RUP. ATPL+RUP shows how enterprise architecture influences activities in many different aspects of solution delivery, including the following RUP disciplines and roles.

- Project management (Project Manager)
- Requirements (System Analyst and Requirements Specifier)
- Architecture (Software Architect)
- Design (Database Designer)
- Testing (Test Analyst)

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Integration with IBM Rational Method Composer

ATPL+RUP is an [IBM Ready for Rational software](#) validated product and integrates with the [IBM Rational Software Delivery Platform](#). In particular, ATPL+RUP is designed to be used with [IBM Rational Method Composer \(RMC\)](#), an Eclipse-based tool for defining and manage business and IT development methods.



RMC is a commercial tool based on the open source [Eclipse Process Framework Composer \(EPFC\)](#) tool (see Figure 2). RMC comes with the Rational Process Library which includes the IBM Rational Unified Process (RUP). End users of ATPL can use EPFC (but are encouraged to upgrade to RMC for enterprise-class features). Licenses of ATPL+RUP must use RMC, as ATPL+RUP requires the end user to also have a license to the Rational Unified Process (RUP).

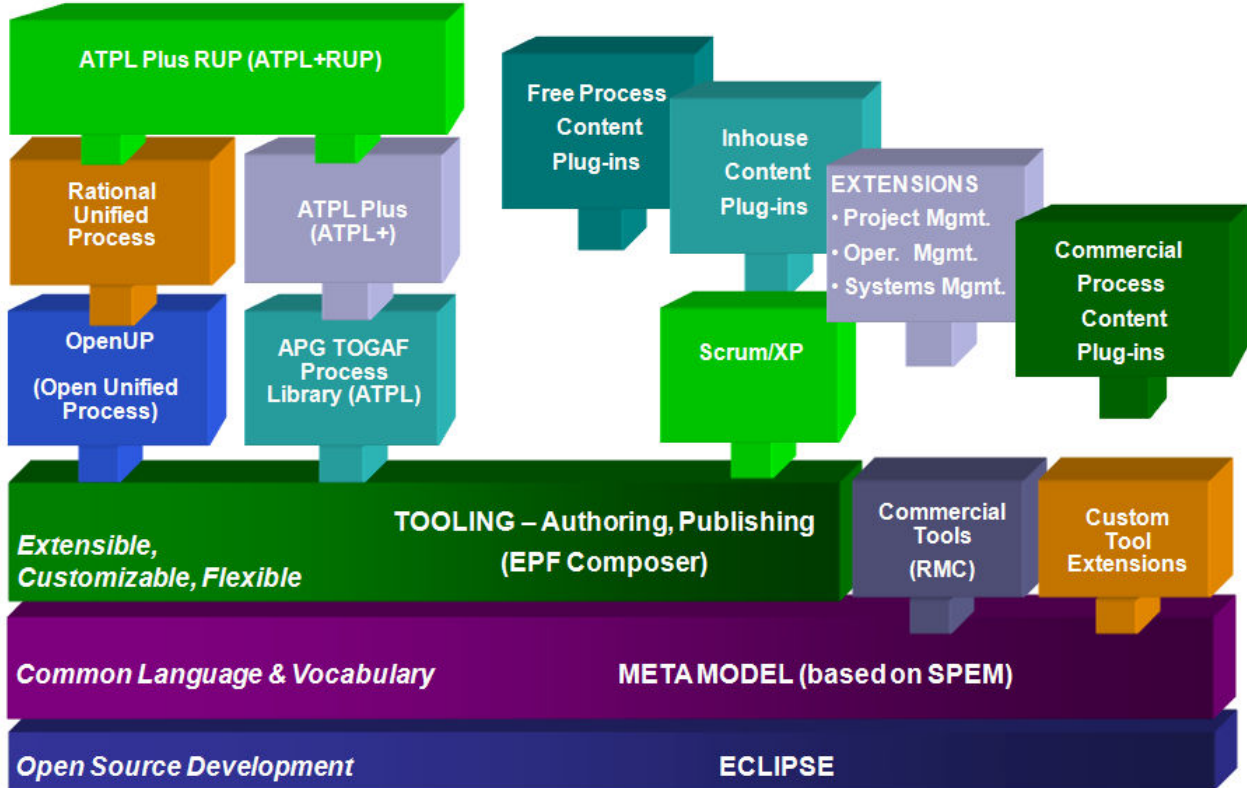


Figure 2 Conceptual overview of the Eclipse Process Framework (EPF) platform. The bottom layers represent the tools and the top layers represent various method plugins.

RMC Features Not Found in EPFC

- Includes Rational Process Library (including RUP and other method plugins)
- User-defined reports via BIRT (including report templates)
- Enterprise-class configuration and process management capabilities
- Customization of published website via “skins”
- Additional publishing capabilities (Word, PDF)
- Project tailoring wizard via “tags”
- Search capability included in published static website

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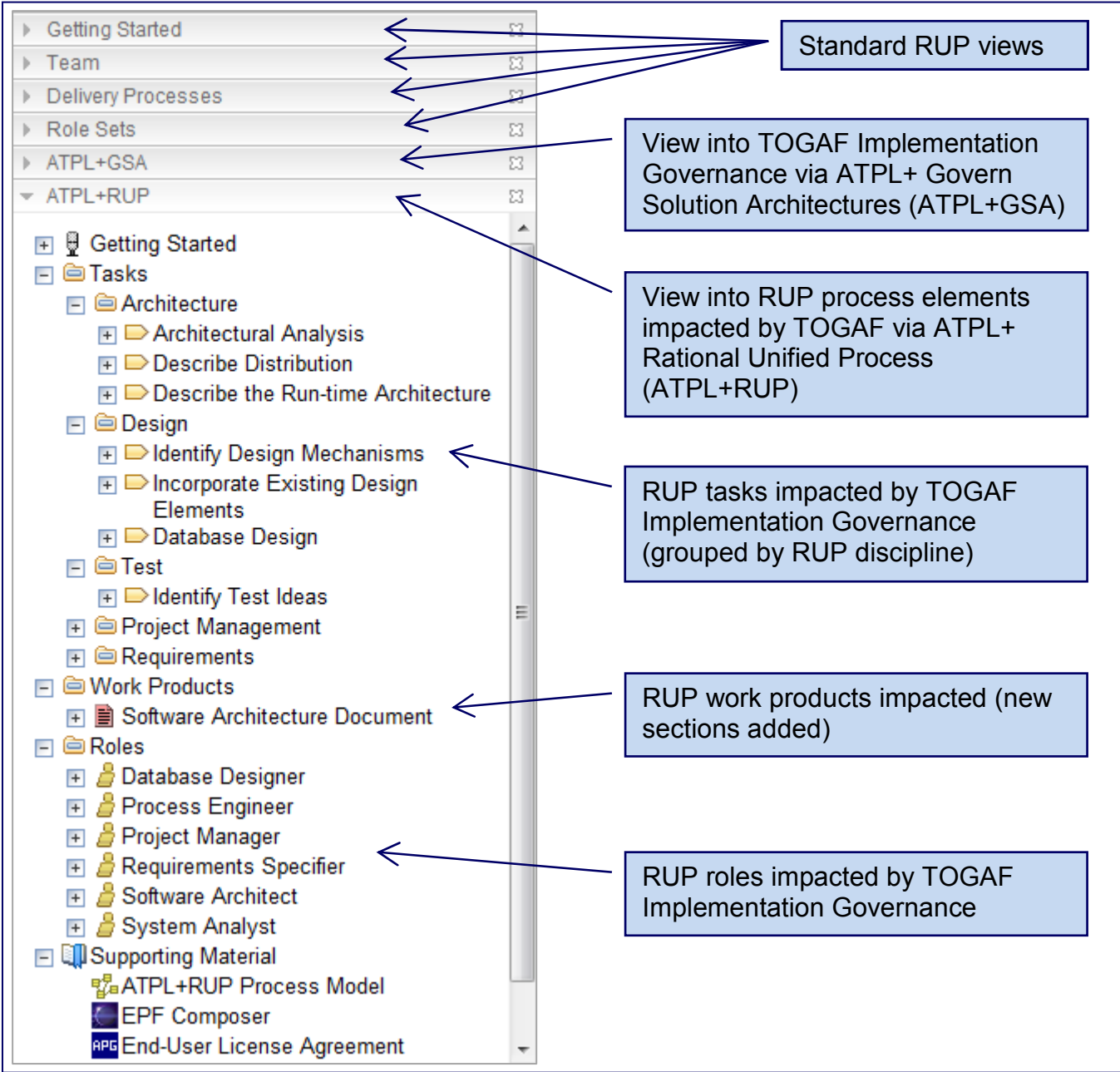


Figure 4 Additional views added to the published RUP website when using ATPL+RUP and ATPL+GSA. This content would be accessed by solution delivery practitioners, as well as the enterprise architecture community.

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Task: Architectural Analysis ↩️ ⏪ ⏩ 📄 📁

➤ This task focuses on defining a candidate architecture and constraining the architectural techniques to be used in the system.

Disciplines: [Analysis & Design](#)

☰ Purpose

- To define a candidate architecture for the system based on experience gained from similar systems or in similar problem domains.
- To define the architectural patterns, key mechanisms, and modeling conventions for the system.
- Determine applicability of existing assets that exist in the architecture repository.
- Understand relevance of solution architecture requirements.
- Validate solution architecture context (business, data, application, technology).

[↕ Back to top](#)

☰ Relationships

Roles	Primary Performer: <ul style="list-style-type: none"> Software Architect 	Additional Performers:
Inputs	Mandatory: <ul style="list-style-type: none"> Architecture Asset Glossary Risk List Solution Architecture Context Solution Architecture Requirement Vision 	Optional: <ul style="list-style-type: none"> Architectural Proof-of-Concept Design Model Project-Specific Guidelines Reference Architecture
Outputs	<ul style="list-style-type: none"> Analysis Class Analysis Model Architecture Asset Deployment Model Design Model Software Architecture Document Solution Architecture Context Solution Architecture Requirement 	

Three additional items added to "Purpose" of task to reflect expanded scope when taking EA view

Three additional work products added as inputs and outputs to this task (which are outputs of TOGAF ADM via ATPL+GSA)

- Architecture Asset
- Solution Architecture Context
- Solution Architecture Requirement

Figure 5 Additional content added by ATPL+RUP to an existing RUP task – Architectural Analysis. Shows the extended purpose of the task and the TOGAF ADM work products that are inputs and outputs of the task.

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When performing architectural analysis in the context of an enterprise architecture, it is important for the project to leverage any existing [Architecture Asset](#) in the [Architecture Repository](#). It is also important for the project to understand what new asset it expects to contribute back to the enterprise.

← Additional narrative added to “Main Description” of task to reflect EA influence.

[-] Steps

[+] Expand All Steps [-] Collapse All Steps

- [+] Develop Architecture Overview
- [+] Survey Available Assets
- [+] Define the High-Level Organization of Subsystems
- [+] Identify Key Abstractions
- [+] Identify Stereotypical Interactions
- [+] Develop Deployment Overview
- [+] Identify Analysis Mechanisms
- [+] Review the Results
- [+] Survey Available Assets (ATPL+GSA)
- [+] Map Analysis Mechanisms to Architecture Assets
- [+] Validate Solution Architecture Context
- [+] Address Solution Architecture Requirements

↑ Back to top

[-] More Information

Concepts	<ul style="list-style-type: none">• Distribution Patterns• Analysis Mechanisms• Concurrency• Layering
Guidelines	<ul style="list-style-type: none">• Re-Use of Building Blocks in Other Projects (Phases F to G)
Tool Mentors	<ul style="list-style-type: none">• Creating a Use-Case Model Survey Using Rational SoDA• Performing Architectural Analysis Using Rational XDE Developer• Capturing the Results of Use-Case Analysis Using Rational Rose• Creating Use-Case Realizations Using Rational Rose• Publishing Web-based Rational Rose Models Using Web Publisher

→ Four additional steps added to task to reflect the new inputs from TOGAF

→ Guideline added to task from TOGAF Resource Base in ATPL.

Figure 6 More additional content added by ATPL+RUP to the same RUP task – Architectural Analysis. Shows additional steps added to the task as well as an extended task description. Task also includes added reference to an existing TOGAF guideline from ATPL.

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