HP Systinet software

Consistency and control for application development

Key functionality

- Services and Application Component Repository
- Lifecycle design and management
- Policy validation and management
- Contract management of Service Level Objectives
- UDDI Registry
- Eclipse and Visual Studio plug-ins

Realizing the business value of applications

Modern application architectures create new opportunities for IT to deliver business advantages—and new headaches for application architecture teams. As the level of complexity and the pace of change continue to spiral upward, IT needs a consistent way to apply and enforce policies and best practices to ensure that applications provide maximum business value.

HP has a compelling solution. HP Systinet software provides a rich set of capabilities that bring structure, control, and consistency to the application development process within a service oriented architecture. It helps achieve conformance to IT architectural and technical policies. It gives application teams an automated way to collaborate and ascertain that applications can interoperate. And it simplifies the process of building, sharing, and viewing the lifecycle of any re-usable component to provide the most visibility into each stage of lifecycle component.

Modernization that's efficient and collaborative

As companies move to modern applications with shared service and application components, they are exploring new ways to retire outdated legacy applications. This can mean accessing legacy applications with a new user interface, to reduce the amount of time maintaining integrations between applications, and adopt new processes and enforce policies for developing and for working with multi-layer, component-based applications.

Along with the modernization agenda, IT is also quickly adopting innovative technologies to draw on proven and promising architectural patterns and application styles. Service-oriented architecture, representational state transfer (REST), Web application styles, mash ups, business processes, and service-component architectures are all being added to the mix.

HP Systinet gives IT control points across a modern application lifecycle with all of its moving parts and rapid changes. It is a powerful vehicle to define the following:

- Governed application lifecycles
- Lifecycle stages with specific governed tasks and decisions
- Manual and automated policies that can be validated and enforced
- Owners of stages and decision owners
- Voters and escalation points

Equally important, HP Systinet facilitates collaboration among all stakeholders in the application lifecycle, starting with a consolidated way to manage the artifacts that make up your applications. An integrated registry and metadata repository provides a foundation for collaborative artifact publishing and visibility. Stakeholders such as developers, testers, and consumers can now have a lifecycle view that allows them to understand an artifact from the perspective of its stage in the lifecycle, its service level agreements, and its consumption usage and quality metrics.

Support for multiple application components

- SOAP services
- REST services
- Composite applications
- BPEL business processes
- SCA Services—Java and non-Java service components combined

New features

- Personalized user experience
- User-defined repository partitions
- Modern, multi-level application visualization capabilities
- New lifecycle process templates
- Rapid import/export of data
- Expanded governance reporting capabilities

Supported artifact types for repository storage

- WSDL's
- XSD's
- XLST's
- Service endpoints
- All document types
- Design-time policies
- Service level agreements
- Consumption contracts
- Component metadata
- BPEL's
- XPDL's
- Service Operations and Elements

Harness a broad range of advanced functionality

HP Systinet is a complete lifecycle governance tool which can integrate into the HP ALM Platform, allowing applications to be managed across their lifecycle and bringing a level of consistency and control to ensure positive business outcomes. HP Systinet delivers the following core capabilities to IT organizations managing application lifecycles:

- Information management: Delivers customizable and powerful capabilities for manipulating and reporting data about projects, services, policies, and other related artifacts needed for the modern application environment

- Lifecycle management: Supports the process of services, components, and composite applications progressing through lifecycle stages

- Policy management: Supports creation, enforcement, and management of policies

- Contract management: Supports creation of contracts that formalize relationship between a service and component providers and consumers

- Registry/Repository: An integrated and standards based registry and repository as the "system of record" for your enterprise applications

Putting the tools for lifecycle governance all in one place

Highlights of the new features in HP Systinet that exemplify the depth and breadth of the governance capabilities:

New lifecycle process templates
HP Systinet provides a visual representation of the entire lifecycle governing the design, development, and readiness of a service or application component. Governance lifecycle stages can be individually edited on the fly, viewed at a glance, managed as a workflow, and easily edited. This capability is the key for rapid adoption of best practices. Now everything related to defining what happens in different lifecycle stages is in a single place, with a highly visual, easy-to-understand, and easy-to-customize interface.

Personalized user experience—Tailor-made to the deployment organization
HP Systinet 4.0 provides a simpler user experience, with a host of new customization capabilities that can be performed on the fly, including expanded search capabilities and dynamic, role-based perspectives. Three core perspectives are provided, which map to the usage patterns and needs of the particular user. These can be easily extended for additional or new perspectives. The role-based perspectives reduce the time it takes to learn how to use the governance tool—cutting training costs and the ramp-up time for new users. User interface customizations can also be implemented in real time.
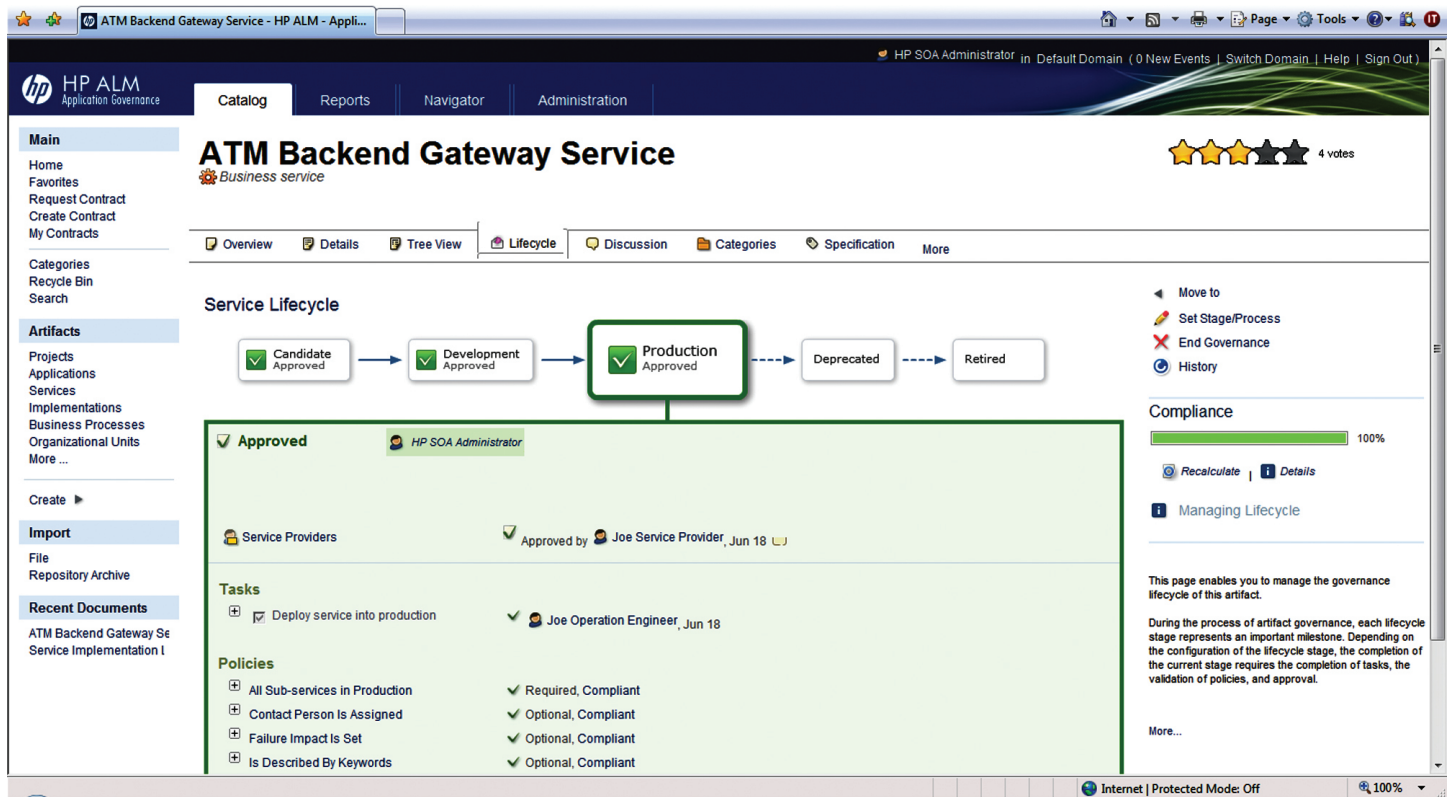
Modern, multi-level application visualization capabilities
HP Systinet has now added several views in its innovative HP Visual Navigator. It is now possible to view application components and artifacts hierarchically, separated into different tiers, based on architectural layers or application component types. Views can be user defined and filtered to provide the level of detail desired. Dependencies of one or more components across applications and services are tracked and can be highlighted; the views can be changed in real time and on the fly.

User-defined repository partitions
HP Systinet provides user-defined logical partitions with unique privileges and access rights to access their role-based relevant information contained in the repository. This allows fine-grained control over who can modify services and applications and the portfolio of applications that can be exposed for reuse by other organizations. This granularity is the key for compliance and conformance to industry regulations where the ability to control access-to-service endpoints, functional specifications, or technical documents is an essential business requirement.

Figure 1. HP Systinet Lifecycle Process Templates

Rapid import and export of data

HP Systinet now supports a broad range of options for how import and export of data is handled, with the ability to define the level of granularity, down to a single application or service component. This capability accelerates the process of applying software updates, upgrades, or extensions since they typically require data to be imported or exported as part of that process.
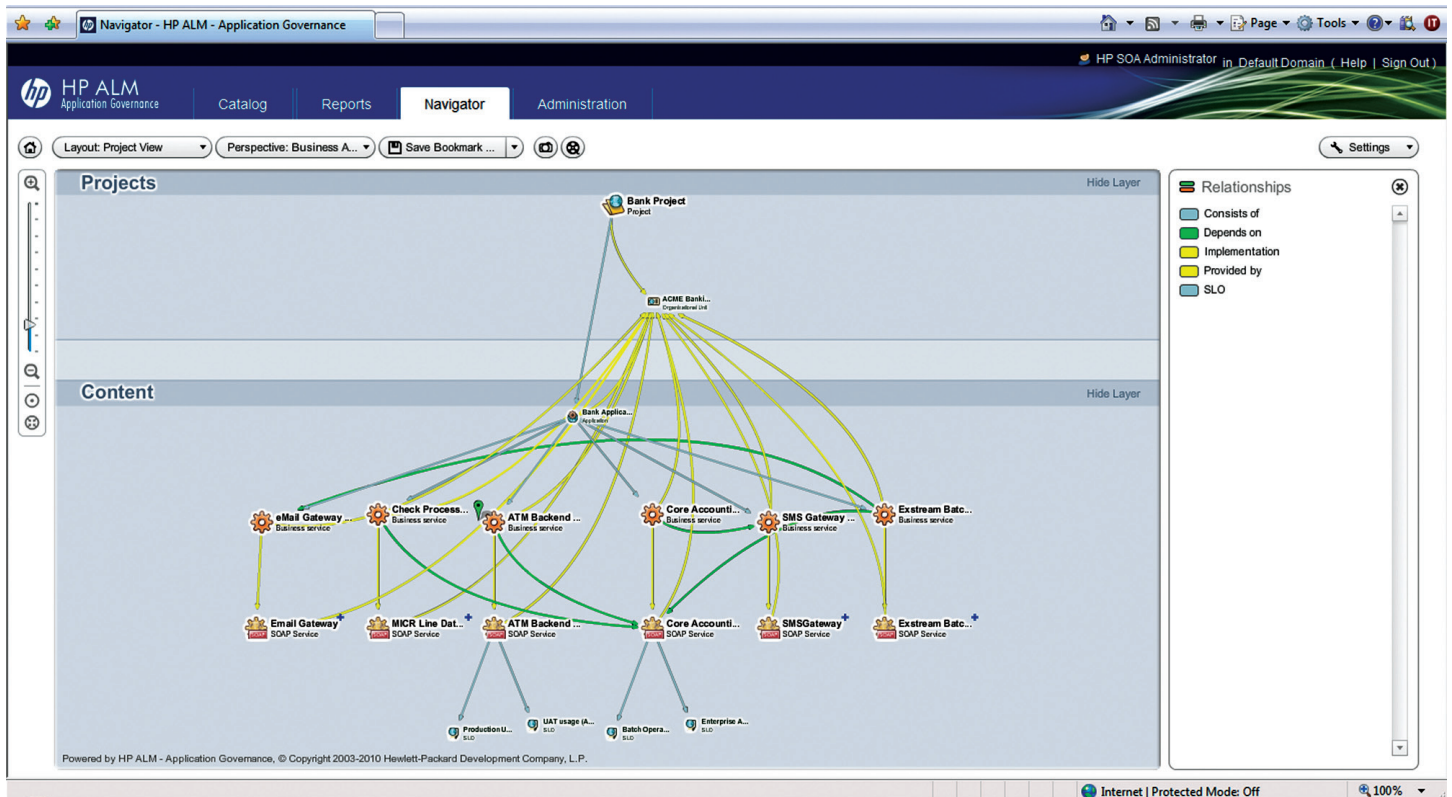
By enabling application teams to quickly identify dependencies between application components in the different architecture tiers, the HP Visual Navigator can make it much simpler to spot design-time issues, conduct change-impact analysis, and communicate dependencies across teams. Dependencies that are unknown or unintended also become easy to see and understand. Architects and developers can discover problems with the application or service structure and correct them in the development process, where it is much less expensive to do so.

Expanded governance reporting capabilities

Users can now structure reports with parameters that can be changed directly within the User Interface without requiring admin privileges. Report parameters are presented to the user as a series of drop-down menus that make it easy to redefine the parameters used and rerun a report. A less formal version of reporting, ad hoc search, has also been made simpler and more powerful with many out-of-the-box reports available.

More flexible search and reporting capabilities make it easier to understand how people are actually using the repository and how governance efforts are translating into cost savings and efficiency results. Also, it details levels of adoption and improvement in policy compliance, both while in design and development phases and how to find subtle relationships that exist between data repository elements.

Figure 2. HP Systinet: Visual Navigation

About HP Application Solutions

HP application solutions help modernization initiatives deliver business outcomes instead of failing under the burden of outdated, legacy delivery mechanisms. Where other solutions mistake the software development lifecycle for a total picture of the application, HP sees core delivery in the context of the complete application lifecycle—from business idea through retirement. Furthermore, by providing unified management and automation solutions, HP offers customers not simply more tools and integrations, but greater simplicity. The result for enterprise application teams is improved predictability, repeatability, quality, and change readiness in both the core and complete lifecycle

Learn more at
hp.com/go/soa

Sign up for updates
hp.com/go/getupdated

Share with colleagues   Rate this document