

CentraSite For SOA & API Management

Manage your APIs and build repeatable solutions faster



Give developers and business analysts one place to store, find and re-use all your service and Application Programming Interface (API) assets. With CentraSite, you can catalog thousands of APIs and services. Developers and business analysts will know what assets they can re-use. Plus, you'll have the assurance that services perform to the high standards you've enforced.

CentraSite is the API catalog and SOA registry/repository that increases asset re-use to accelerate and guide the development of new APIs and services. Use CentraSite to produce new APIs and services faster while improving collaboration between business and IT.

Key Benefits

- Ensure the right services and APIs are built the right way
- Guide the evolution of assets from conception through retirement
- Eliminate rework—foster re-use by providing a catalog of re-usable assets
- Make decisions faster—information on assets is just a click away
- View the impact of changes by understanding asset interdependencies
- Manage the entire process of planning, designing and developing APIs
- Track SOA and API adoption and benefits
- Increase consistency and control

Features

Unified metadata registry and repository

CentraSite gives you a central, platform-independent application for defining, describing and storing assets. You can easily catalog all services, APIs, business processes and related assets, such as XML schemas and business rules. You can publish asset definition and descriptions to CentraSite using numerous options—for example:

- Add assets using CentraSite's Web-based interface
- Publish assets from Eclipse™-based IDEs and UDDI-compliant IDEs
- Bulk-load hundreds of assets using command line utilities and APIs
- Leverage the built-in asset publishing of other webMethods products

CentraSite's flexible metadata store captures relevant asset information, such as asset capabilities, owner, location, version, classifications and configuration. You also can store associated artifacts, for example, requirements documents and usage guidelines, as part of the asset description. Customize all aspects of the store to suit your unique needs—for example, by defining custom asset types and adding custom attribute attachments and classifications.

Choose from more than 50 ready-to-use asset type definitions, including service, REST API, XML schema and BPEL™ processes. Use them as-is to get started quickly or as inspiration for defining your own asset types.

Life-cycle management and versioning

CentraSite's active life-cycle technology tracks and guides the evolution of every service and API asset, from conception through retirement. You can assign every asset type in CentraSite's store a unique life cycle that models its real-world status, such as proposed, built, productive or retired. Ensure standards and practices are followed as every asset moves through its life cycle. Use CentraSite's built-in versioning capabilities to define and track asset versions. Multiple versions can exist side by side, and older versions can be retired over time.

Policy management

CentraSite's active policy technology automates life-cycle processes. An active policy defines a series of actions that you associate with an event, such as the addition, modification or life-cycle status change of an asset. When the event occurs, CentraSite executes the actions prescribed in the policy. For example, when a service is added to CentraSite, a policy can trigger a series of automated steps, such as validating metadata and provisioning appropriate permissions.

Smart policy provisioning: Manually associating the right policies with the right assets can be tedious and result in errors. CentraSite's smart policy provisioning eliminates that guesswork. Once a policy is defined and approved, CentraSite automatically applies it to all assets that meet specific criteria you define. You can change the policy's scope simply by changing these criteria.

Development-time policies: CentraSite enforces policies along an asset’s life cycle at major governance checkpoints, such as funding approval, architecture and design reviews, and operational readiness reviews. Automated enforcement provides timely and consistent guidance to interdependent but autonomous SOA and API management teams. To save time, you can use pre-loaded development-time policies, including metadata validation, WS-I compliance, approval workflow, permission provisioning, notifications and much more.

Run-time policies: CentraSite also provides a powerful roster of policies that can be enforced when services are invoked at run-time to ensure correct and authorized use of services. Run-time policies include consumer authorization, message-level encryption and signatures, traffic management, Service Level Agreement (SLA) monitoring, API key provisioning and enforcement, and schema validation. Run-time policies are managed in CentraSite and enforced using webMethods Mediator.

Custom policies: In addition to using CentraSite’s pre-built policy templates, you can write custom policies in Java® scripting language. Your custom policies will have full access to all metadata available in CentraSite.

Search and browse, asset notification

Finding and re-using service and API assets is easy by using CentraSite’s Web-based interface. You can find service and process assets by browsing using built-in or custom taxonomies. Use CentraSite’s powerful keyword search or its advanced search capabilities for defining complex criteria. You can also subscribe to your favorite assets and receive notification of any changes to them.

Organizations

Structure your repository by organizations to reflect your business. This allows for delegated administration and separation of concerns. Leverage organization-specific policies and life-cycle models to make asset management easier.

Access, consumer registration and on-boarding

CentraSite can be set up for anonymous access so project teams can see assets available for re-use. Viewing is quick and easy—no credentials are required! Once project teams find services, APIs and process assets they’d like to use, they can request access to them. CentraSite administrators can set up and enforce policies before granting permission to use the assets. Built-in workflow capabilities quickly on-board consumers and track consumption of assets by authorized users. secure AppDepot.

Business user interface and branding

CentraSite provides a business user interface for creating an API portal. This allows app developers to search for APIs they need, read up on the documentation and get notifications on APIs they use. You can even brand the Web-based interface as your own and let customers and partners use it for self-service viewing and promotion of available assets.

A configurable dashboard with graphical widgets and textual data feeds allows reporting on key information.

Relationship tracking

Make sense of the complex interdependencies among services, APIs and IT applications using CentraSite’s relationship-tracking capabilities. Importantly, CentraSite also captures the relationships of services and APIs with the people and organizations that build, operate and maintain them. CentraSite identifies and tracks many relationships automatically as services and APIs are created, deployed and used. As needed, project teams can easily add new relationship definitions.

Power analysis

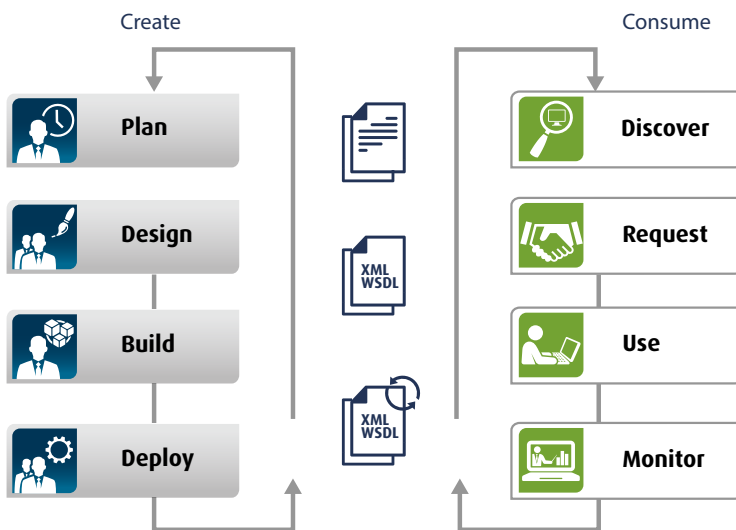
View the impact of proposed changes. With CentraSite, you can see a graphical and interactive view of assets and their relationships. You can use power analysis to interactively explore your entire asset landscape. A real-time graphical map shows the “downstream” impact of any proposed change or disruption. You can customize the view to restrict the set of assets and associations shown to zero-in on the details that interest you the most.

Federation engine

CentraSite’s industry-leading federation engine is the most efficient solution for synchronizing metadata across multiple siloed repositories. It can synchronize metadata between CentraSite and any UDDI Version 3 capable registry. You can specify what metadata is exchanged and how often.

Standards support

CentraSite is a standards-based solution designed to support a variety of SOA and API platforms. CentraSite’s support for open standards also allows it to work directly with third-party solutions for SOA testing, management and security. CentraSite supports OASIS registry/repository: JAXR - Level 1, UDDI V2, UDDI V3, WebDAV and WSDL 1.1; WS-I policy management: WS-I Basic Profile 1.1, WS-Security Policy and WS-Policy 1.5; XML standards: XML Schema 1.0, 1.1, XML Query, XSLT 1.0 and XPD 2.2; enterprise infrastructure: LDAP, POP3/IMAP and SMTP and JAAS.



CentraSite gives your organization a single place to store, find and re-use service and process assets. That speeds up development. Automatic policy enforcement helps you ensure new services, APIs and processes perform consistently and to the quality standards you’ve set.



Find out how to Prove IT First and Prove IT Fast at www.SoftwareAG.gov

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