

EnterpriseWeb: Dynamic, Data-driven, Policy-Controlled Apps and Processes

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EnterpriseWeb (www.enterpriseweb.com) is an award winning application platform for ‘smart’ automation. It supports real-time personalization of human workflows and dynamic optimization of system and infrastructure processes.

The platform helps Digital Enterprises enrich user-experiences, accelerate service delivery, and gain Business Agility, without sacrificing performance, scalability or control.

The Platform won two coveted 2014 CODIE Awards from the Software & Information Industry Association (SIIA) for Best Semantic Platform

(http://siia.net/codies/2014/winners_detail.asp?nID=146) and Best Governance, Risk and Compliance Solution (http://siia.net/codies/2014/winners_detail.asp?nID=146).

The Company has customers on 4 continents, supporting a wide range of solutions -

In the Life Sciences, organizations are using a suite of EnterpriseWeb applications for smart human processes that dynamically streamline administrative effort while proactively guiding compliance based on the context of a research study. A leading Academic Medical Center in New York City uses EnterpriseWeb to manage their half-billion dollars in annual R&D activity.

In emerging Cloud markets, EnterpriseWeb provides applications for advanced DevOps use-cases with OpenStack, Docker and KVM to policy-controlled infrastructure practical and governable today. The Telecom industry recently recognized EnterpriseWeb’s virtualization work as the “Most Innovative” SDN/NFV solution (<http://www.digitaljournal.com/pr/1965518>).

An independent SAP Integrator is using EnterpriseWeb to develop a suite of smart information management tools for automating complex data migration processes with algorithmic matching and inflight exception management.

EnterpriseWeb Technology

EnterpriseWeb is a platform for implementing Semantic SOA (you can find my recent Dataversity Blog [here](#)). It includes a registry for declaratively modeling connections, a design studio for rapidly composing applications simply using links and metadata references, a high-performance run-time environment, and a database for transaction logs and business records.

EnterpriseWeb extends and/or replaces centralized bus technologies seen in conventional SOA deployments, which have limited transformation, integration and process capabilities. Instead its execution environment uses distributable and dynamically programmable agents. Agents serve as generic engines performing app, data, process, network and UI “Integration-as-a-Service”. Instead of going in and out through the Bus to middleware components, which introduce cost, latency and network complexity, the agents RESTfully fetch integration patterns from system libraries to perform any aspect of processing and federating what’s necessary to specialized or legacy systems.

In EnterpriseWeb, user or system interactions are modeled as app operations called

Cloudlets™. Services for relevant functions, data, business logic and UI templates are referenced with links or metadata at design-time. Every interaction request is mediated by distributable agents. The application is fully dynamic, the agents interpret all Cloudlet references at run-time, resolving them to concrete resources, and handling all bindings and transformations. Upon completion agents log their activity, generate and index resources to reflect changed state, and tag all new relationships. In this way, agents are dynamically curating the overall environment, providing a trace of all interactions, full audit history, and new semantic pathways for future executions.

Cloudlets are actually sets of logical processes that interpret requests to deliver personalized responses, while also targeting business compliance, automating IT governance, and handling system controls. This approach is designed to optimize functional and non-functional concerns of an application per interaction. It represents a ground up re-think of middleware for the 21st century. It delivers business agility without sacrificing performance, scalability and control.

EnterpriseWeb's Reactive-Semantic SOA changes the economics of real-time distributed computing. It makes dynamic, data-driven and policy-controlled applications practical for organizations of all types and sizes. Like SOA, Semantic SOA is domain independent. It supports any application or process for human processes and infrastructure apps.

For more information, please visit our website www.enterpriseweb.com