

Oracle powered w-SaaS Platform

For rapid SaaS enablement and dynamic deployment on cloud

Software-as-a-Service (SaaS)

Software-as-a-Service (SaaS) is software application functionality offered/consumed over the internet, with minimal or no software installation required to access it.

The usage of SaaS by businesses has been on the rise due to the following reasons:

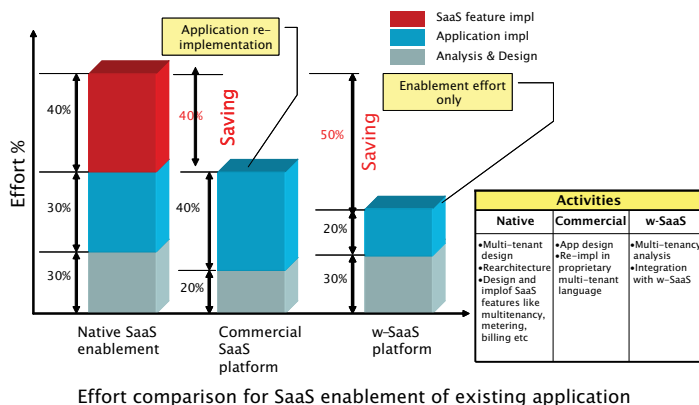
- Cost Effective - SaaS delivery models have very little upfront capital investment, are based on Subscription fees and shorter commitment periods.
- Configurable - Successful SaaS applications are built on architectural principle of 'multi-tenancy', which allows for the application to be configured or customized with minimal effort.

SaaS Adoption

Software vendors desiring to adopt SaaS either have to build SaaS capabilities into their software or use an independent SaaS platform provider to SaaS-enable their software.

However, there are still some barriers to SaaS adoption such as lock in with a platform using proprietary language, transfer to on-premise deployment based on customer's SaaS adoption strategy and portability between public / private cloud infrastructures based on business needs.

w-SaaS Wipro's SaaS platform built on open standards addresses these key concerns to enable existing applications operate within the SaaS model, utilizing existing middleware technologies in a very non-intrusive manner.



Effort comparison for SaaS enablement of existing application

Wipro w-SaaS platform

Wipro has built w-SaaS, a platform for rapid SaaS enablement and deployment on cloud, using some of the commonly accepted trends in software engineering and open standards. The w-SaaS platform comprises of the following components:

- SOA-based services framework for SaaS enablement
- A Cloud Provisioning Fabric (CPF) to enable seamless portability between different clouds
- Unified Admin Console for platform services management, cloud management and tenant provisioning

Wipro has filed for a patent on the innovative mechanism used in w-SaaS for non-intrusive SaaS enablement.

Wipro chose Oracle (Oracle Database, Oracle WebLogic Application Server and Oracle VM) as the deployment platform for w-SaaS enabled applications. The software vendor can deploy the same application on-premise or on the cloud using w-SaaS and Oracle.

Oracle offers a comprehensive, open and integrated set of technologies to build, deploy and manage applications to ISVs. It is also the platform of choice for SaaS deployments with eight out of ten leading SaaS vendors delivering business critical applications on Oracle.

Platform Offering

The w-SaaS platform offers the following features:

Non-intrusive SaaS enablement

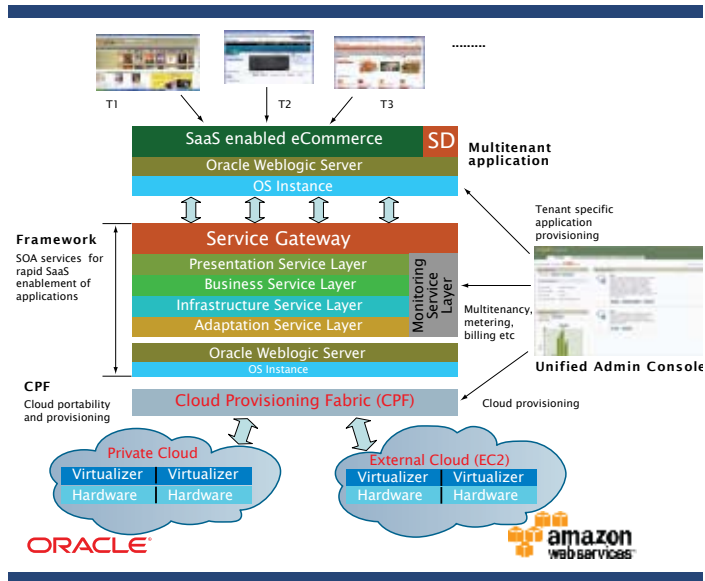
The SOA based framework services are available out-of-the-box for SaaS features like multi-tenancy, usage metering, billing, user management etc. These services can be consumed by the application in a non-intrusive way to operate in the SaaS model.

Seamless Cloud Deployment

The CPF provides features to create deployable images of the application and deploy them on a cloud infrastructure. The images created can be converted from one format to another thus allowing portability between different underlying clouds. The CPF also provides ability to provision hardware nodes into the cloud and to dynamically provision virtual machines on these hardware nodes.

Easy Platform Administration

The unified admin console provides the ability to administer and manage both the cloud platform and the SaaS applications. This also gives a unified look-and-feel for cloud management regardless of the underlying cloud.



The platform components deployed on the Oracle WebLogic Server (WLS) leverage the dynamic configuration support within the Oracle WLS to configure the service configurations at runtime. The Oracle Database is used as the backend data store for the platform. The w-SaaS platform leverages the high performance capabilities of the Oracle VM by integrating well with the Oracle VM Server powered private cloud.

Value Proposition

- No proprietary multi-tenanted language for the platform
- Technology agnostic SaaS enablement
- Supports multiple deployment options for SaaS application
- Provides seamless cloud portability

Oracle technology stack

- With support for grid computing, virtualization and integrated management across the stack, Oracle enables software vendors to deliver highly available, always-on services and scale out as their customer base grows

- Oracle WebLogic Server provides dynamic configuration support which is required for SaaS platform operation
- Oracle database is a highly scalable database for SaaS implementations, and provides robust data isolation capabilities
- Oracle virtualization technology (Oracle VM server) provides a high performance virtual machine environment

Wipro can leverage Infocrossing's (a Wipro Company) PCI-DSS compliant Class A data centers to host the w-SaaS platform on Oracle based cloud setup for customers or setup the w-SaaS platform with Oracle based private cloud in customer's data center.

4 Phases-Of-Adoption

Suitability Phase: Analyzing the adoption based on understanding and deriving its business value proposition at the enterprise-landscape

Scoping Phase: Identifying the business processes - whole or portions or ISV products to be transformed for maximizing benefits of SaaS/Cloud applicability

Enablement Phase: Implementing application-isolations, customizations via configurations and hosting with enhanced maintainability

Measurement Phase: Monetizing the metered application usage based on negotiated business rules.

w-SaaS Platform helps in the above adoption by;

- Business-Consultancy - 2 weeks
- Proof-Of-Fitment - 3 weeks
- Enablement - 3-6 months (may be revisited to judge real-life complexity)

Pricing

Wipro offers a complete SaaS hosting solution right from enablement of the SaaS application to deployment and operation of the same on a cloud infrastructure. w-SaaS platform therefore comes with various pricing models to suit customer needs.

For more information mail to: pcm.coe@wipro.com

About Wipro

Wipro Technologies is a global services provider delivering technology-driven business solutions that meet the strategic objectives of our clients. Wipro has 55+ 'Centers of Excellence' that create solutions around specific needs of industries. Wipro delivers unmatched business value to customers through a combination of process excellence, quality frameworks and service delivery innovation. Wipro is the World's first CMMi Level 5 certified software services company and the first outside USA to receive the IEEE Software Process Award.