TENTH PLANET

Compiere ERP
Starter Kit

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1. Compiere ERP - an Overview

Compiere Enterprise is a modern, highly adaptable, enterprise-class business solution - that can be deployed on-premise or on the Cloud. Compiere ERP improves business agility and dramatically lowers cost of ownership.

- Compiere's design enables applications to be easily customized and extended "without programming. Applications are defined as objects in an Active Data Dictionary.
- Changes are easily made using a modern "drag and drop" Visual Dictionary Editor. Your IT staff will easily embrace the techniques required to extend Compiere.
- Compiere's innovative design reduces the cost and effort associated with upgrading business applications.
- Compiere's Automated Upgrade Technology enables seamless migration to new software versions while preserving all Dictionary-based customizations, saving significant time and cost compared to traditional systems.

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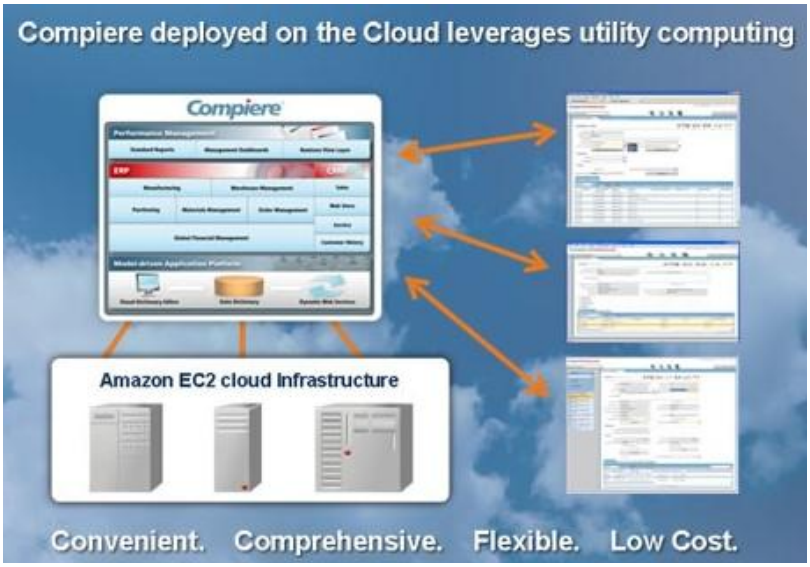
1. *Core ERP Modules*

Compiere ERP includes core ERP & CRM capabilities like Financial Management, Purchasing, Materials Management, Order Management, Project Accounting, Sales, Service, e-Commerce, Manufacturing, Material Planning, Performance Management and Reporting.

2. *Available on Amazon Cloud*

With Compiere on the Cloud, enterprises of all sizes can leverage the comprehensive, low cost and adaptable Compiere ERP solution with the convenience of Amazon's on-demand computing services.



3. *Multi-server Support*

Compiere Enterprise is built to scale - supporting multiple servers, large transaction volumes, hundreds of users and business complexity required by demanding businesses of all sizes.

4. *Visual Dictionary Editor*

Compiere's revolutionary design enables applications to be easily customized and extended without programming - a first in the ERP industry. Applications are defined as objects in an Active Data Dictionary. Changes are easily made using a modern "drag and drop" Visual Dictionary Editor.

5. *Web Services Support*

Integration with other applications is easy using Compiere's service oriented architecture (SOA) and web services (Available in Compiere Enterprise Edition)

6. *Workflow Engine*

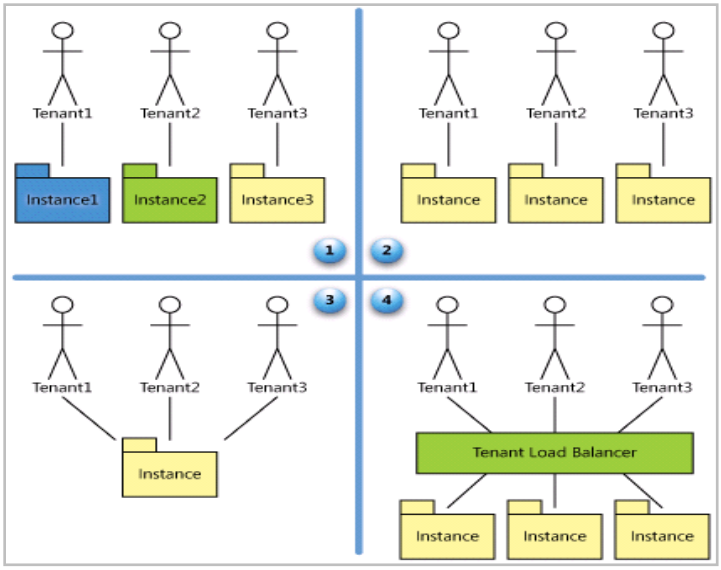
Compiere's flexible workflow model gives the ability to define automated workflow rules that match any business practices. The system conforms to Business Process Management standards from the Workflow Management Coalition and Object Management Group.

Compiere enable three types of workflow:

- **General Workflow** – Provides guidance and step-by-step instructions for achieving a task. Examples: Setup Wizards or Month End procedures. A user starts them from the menu.
- **Document Process Workflow** – Started when processing any document. You can use these workflows to manage approvals. Example: Special approval for orders over a certain amount.
- **Document Value Workflow** – The workflow is automatically started when any entity fulfils a user defined condition. Example: Start credit approval for a new Business Partner.

7. *Multi Tenancy*

Multi-tenancy refers to the architectural principle, where a single instance of the software runs on a software-as-a-service (SaaS) vendor's servers, serving multiple client organizations (tenants). SaaS application maturity can be expressed using a model with four distinct levels.



- **Level I: Ad Hoc/Custom -** The first level of maturity is similar to the traditional application service provider (ASP) model of software delivery, dating back to the 1990s. At this level, each customer has its own customized version of the hosted application, and runs its own instance of the application on the host's servers.

- **Level II: Configurable -** At the second level of maturity, the vendor hosts a separate instance of the application for each customer (or tenant). Whereas in the first level each instance is individually customized for the tenant, at this level, all instances use the same code implementation, and the vendor meets customers' needs by providing detailed configuration options that allow the customer to change how the application looks and behaves to its users. Despite being identical to one another at the code level, each instance remains wholly isolated from all the others.

- **Level III: Configurable, Multi-Tenant-Efficient -** At the third level of maturity, the vendor runs a single instance that serves every customer, with configurable metadata providing a unique user experience and feature set for each one. Authorization and security policies ensure that each customer's data is kept separate from that of other customers; and, from the end user's perspective, there is no indication that the application instance is being shared among multiple tenants.

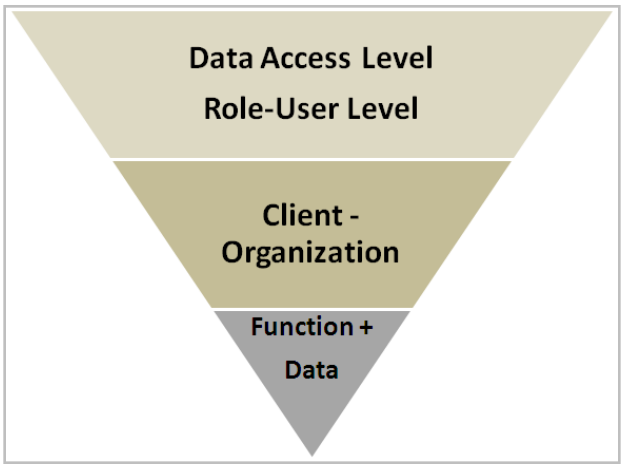
- **Level IV: Scalable, Configurable, Multi-Tenant-Efficient -** At the fourth and final level of maturity, the vendor hosts multiple customers on a load-balanced farm of identical instances, with each customer's data kept separate, and with configurable metadata providing a unique user experience and feature set for each customer.

NOTE: Compiere supports all the above models of multi-tenancy and based on the specific needs of an enterprise any one of the above models can be used accordingly

8. Security Management

All Companies have the need for Security in their ERP/CRM applications. Compiere provides comprehensive, yet flexible security to meet your needs.

Compiere provides a complete application-level security infrastructure, supporting role-based security, data security, data encryption and auditing. An enterprise is fully equipped with Compiere ERP, architected to implement security policies that protect valuable corporate data from inappropriate or unlawful access.
Security is defined with increasing restrictions. If considered as a funnel, the user must pass through the first level before getting to the next level.



Features:

- **Role-based Security**
  - Each User account is associated with one or more roles. Roles are used to secure access to both data and functionality.
  - An inheritance-based model is used to grant or revoke privileges according to role. For example, everyone assigned to accounting roles are granted view-access to account balances, but only the users assigned the role of CFO can change the chart of accounts.
- **Data Security**
  - Robust data-level security is applied using Roles to restrict read and write level access at the record or field level. For example, a data security policy can restrict sales representatives from viewing sales invoices from outside their territory.

Benefits:

- With data security you have the ability to automate internal controls using precise access rules, ensuring appropriate governance checks and appropriate segregation of duties for transactions.

9. Audit Trial

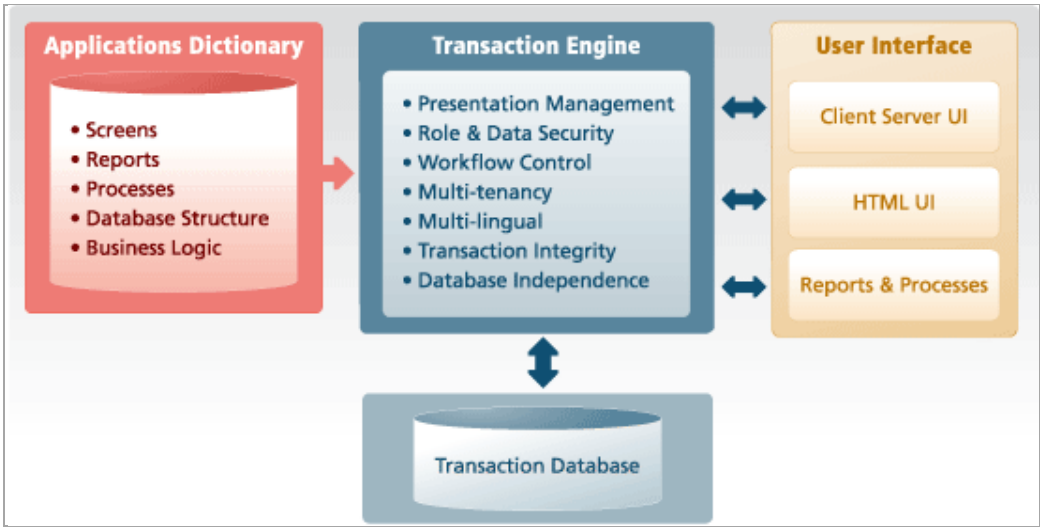
Compiere provides the ability to audit any transaction in the system, including changes to the Active Data Dictionary (metadata). For example, if an administrator changes a user's role, a security policy or a field on an order screen, those changes can be logged and audited.

New transactions, changes to existing data and even queries of specific records and fields can be tracked in the audit log. The choice of how restrictive or open the security policy needs to be is in our control.

2. Technology

1. *System Architecture*

Model Driver Architecture



Without procedural coding or crafting of SQL commands Compiere's **Model Driven Architecture** enables rapid application customizations

Compiere Model Driven Architecture Advantages:

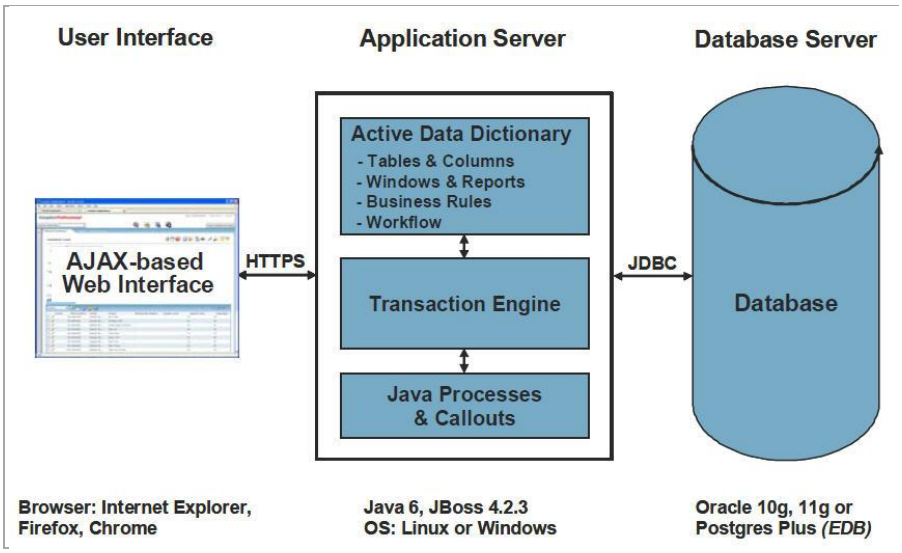
- Rapid customization of applications to specific business needs
- Greater stability because windows and reports are generated from rules stored in an active Application Dictionary rather than programmed using 3GL code
- Higher productivity for developers and users alike
- Affordable customization of applications at any time without specialized programming staff
- Preservation of customizations when upgrading

Application Dictionary

- Compiere uses a centralized and active Applications Dictionary to store meta-data and rules for managing your custom solution
- The Applications Dictionary is an integral part of the Compiere Model-driven Application Platform that enables you to customize your solution quickly and easily

2. *Web Architecture*

The Compiere Web architecture dramatically improves ERP user experience. It is an example of the latest generation of Rich Internet Applications (RIA) that utilizes Ajax (Asynchronous JavaScript and XML) technology to deliver functionality, usability, responsiveness and personalization through a Web browser.



Advantages

- The Compiere Web architecture generates significant cost savings by eliminating the installation, configuration and management of desktop client software
- It is compatible with modern browsers such as Mozilla Firefox and Microsoft Internet Explorer
- It is platform- operating system- and browser-agnostic
- Securely operates within most firewall configurations
- The Compiere Web architecture makes intelligent use of network bandwidth and server computing resources. The Compiere Web client sends focused procedure call instructions to the server only when additional data is needed

3. Hardware/Software Requirements

a. Hardware

Considerations	Sample server configuration for 100+ users, 1000+ transactions/day, 20+ VPN users
✓ Number of Users ✓ Concurrent Users ✓ Data Growth ✓ Throughput ✓ Peak Utilization ✓ Batch Process needs ✓ Reporting	**CPU:** Intel Xeon E7-8895 v2 @2.8GHz **RAM:** 32 GB **Hard Disk:** 4 TB **OS:** Redhat 5 - 64bit **Database:** Oracle 11R2

b. Software Requirements

Technology	Software Name	Version
Backend	Database	Oracle 11g R2 or Enterprise DB
Framework	J2EE	JDK 1.6
Frontend	Browser	Google Chrome, Firefox, IE
Report Viewer	xls, adobe viewer	

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3. Compiere Licensing

Two types of Compiere Licensing are available

1. ***Open Source License (GPL)***
2. ***Commercial License***

The Compiere Enterprise Edition is distributed under a Commercial License for customers who are unable to abide by the terms of the GPL license. A Commercial License offers many customers a degree of flexibility not provided by the GPL.

Low Cost

Compiere disrupts the traditional cost structure of acquiring, deploying, and maintaining ERP systems. Compiere ERP replaces traditional upfront license fees and high ongoing maintenance costs with a low user-based subscription fee and can dramatically lower annual operating costs - saving up to 80% in total cost of ownership. You gain cost savings and flexibility - without vendor lock-in.

4. Database Choices

Compiere supports Oracle XE, Standard and Enterprise editions to cater to different customer requirements across the globe

1. ***Oracle XE, Standard and Enterprise Editions***

Compiere also runs on Oracle's free database - Oracle XE. As an optional fee-based service, Compiere offers an application-specific full use license for Oracle Standard Edition One, Standard Edition and Enterprise Edition. Licenses are for a one year term and are annually renewable.

2. ***Database Licensing***

- **User-based licensing** – User licensing offers an exceptional value for organizations that can precisely identify and count the number of authorized Compiere users. Licensing is per named user with a minimum of 10 users. User-based licensing is not available to Compiere customers who deploy the web store or other self-service functionality, because the precise number of users cannot be counted.
- **Processor-based licensing** – Processor licensing is based on a count of all processors where the database is installed and/or running. Processor licensing is the choice for customers that have enabled Compiere self-service capabilities or who are licensing a larger number of named users.

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5. Compiere Benefits

1. *IT Benefits*

- No upfront high infrastructure costs required as the software can be hosted on cloud
- Lower implementation and customization costs
- Lower costs associated with upgrading to new software releases
- Easier access to technical staff with relevant skills

2. *Business Benefits*

- Ability to quickly adapt to new business requirements - without programming
- Streamlined business processes
- Improved customer service and responsiveness
- Improved integration between departments and divisions
- Better information and business visibility