



# **Stabilix<sup>®</sup>** **eBusiness Platform** **(CloudEx<sup>™</sup>) Overview**



# Introduction

Stabilix®'s business process automation (BPA) suite, code named CloudEx is a software development and integration platform based on open system computing standards. Whatever you need, whether it is incremental automation, major overhaul, or enterprise-wide integration, CloudEx can help by making it easy to connect people, information and applications in just the right combination for your business.

CloudEx provides the tools to rapidly integrate sophisticated process management into business operations and applications. It models, extends, configures, and automates business processes. The software platform is a portfolio of integrated yet highly modular solutions for service automation, analytics and enterprise information integration.

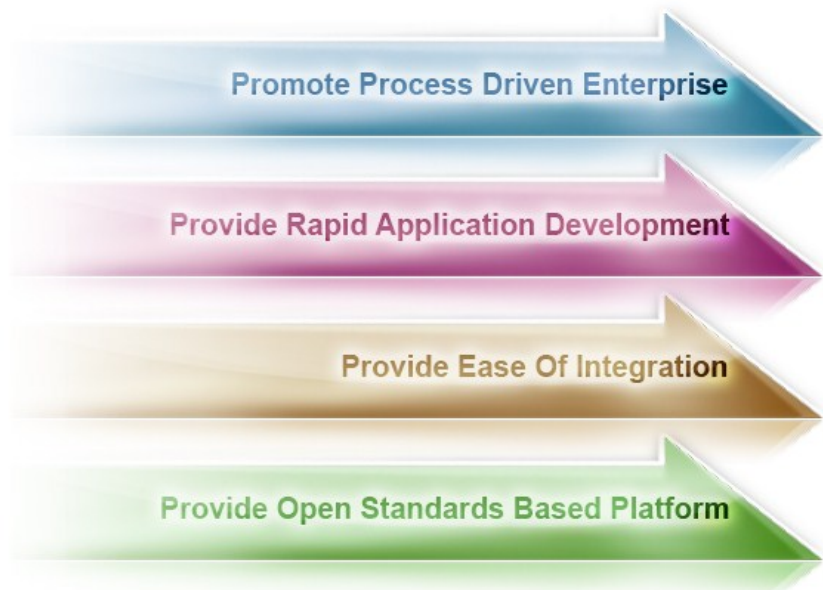
CloudEx enables all constituents of an organization to use personalized applications based on roles, contexts, actions, locations, preferences and workflow collaboration needs. The software platform provides a composite infrastructure & application framework with advanced tooling for flexible, SOA-based solutions, as well as scalability required by any size organization. CloudEx derives its power from the highly integrated yet modular set of components and can be used to jumpstart enterprise web application development.

The promise of open systems is faster and more economical development of high-quality systems that are technologically current. CloudEx is built on several open source platforms while using the open system leverage of a sound baseline application, standards-based framework of functionality and interfaces.

## Key Features and Benefits

**CLOUDEX brings 4 primary advantages to a business enterprise:**

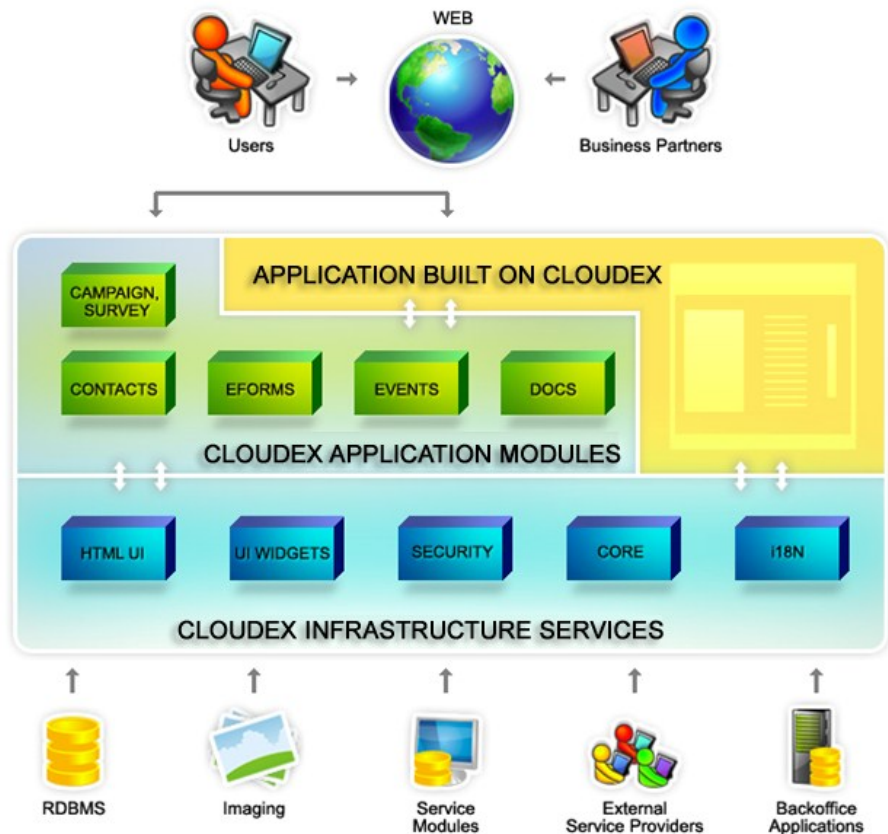
- Promote process driven enterprise
- Provide rapid application development
- Provide ease of integration
- Provide open standards based platform





# CloudEx Platform Components

CloudEx architecture includes two major sets of components (i) enterprise infrastructure services and, (ii) integrated set of enterprise application modules. Customer specific application modules can be built on top of this component stack. The component structure of CloudEx is illustrated below.



CloudEx Infrastructure components provide all the necessary plumbing required to quickly build and rollout a Java EE web application.

The core components include:

- Core Web application components for data persistence and caching
- Internationalization and localization API
- Highly flexible and advanced security API
- MVC based presentation framework built on top of Struts2
- Ajax based UI components with built-in security and internationalization support
- An workflow engine on which event management application module is built
- An administration console for all Infrastructure features
- Hibernate for data persistence



CloudEx application modules provide prebuilt common application modules required in large enterprise projects. These application modules are built on top of CloudEx infrastructure components. All these application modules are highly integrated and can also be easily integrated to the application being built.

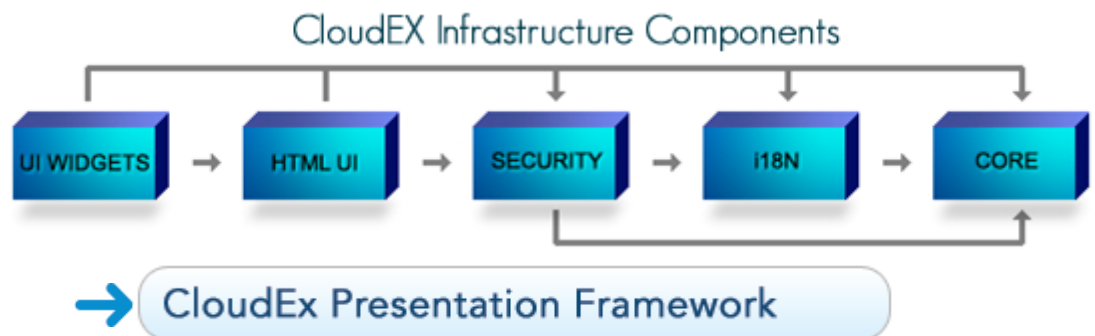
CloudEx application modules include,

- **An integrated e-Forms module which enables quick Web deployment of manual business processes (paper forms to electronic forms conversion)**
- **An integrated event management module built on top of workflow system**
- **Document management module which can be integrated with an enterprise file storage system**
- **A module for campaign creation, execution and result analysis**
- **A module for survey creation, execution and result analysis**
- **Contact management system**

Enterprise Web applications can be quickly built using the above set of prebuilt application components.

## CloudEx Infrastructure Services

CloudEX Infrastructure services are a set of components built to provide common Java EE enterprise application needs. This is a highly integrated yet modular set of components built on a layered architecture as shown below.



### → CloudEx Presentation Framework

CloudEx Presentation Framework is built on top of the Struts2 open source Web application framework. Application screens can be quickly built using CloudEx Presentation Framework and CloudEx UI widgets.

CloudEx Presentation Framework is fully integrated with core platform features and supports multiple view technologies. It also enforces a clean separation of Model, View and Controller (MVC) elements. Application UI built using CloudEx Presentation Framework can be easily customized (using CSS style sheets).

### Key Features and Benefits

#### CLOUDEX Presentation Frame-

- Integrated security and internationalization support
- Support for high level UI widgets (CLOUDEX UI widgets)
- Model-View-Controller (MVC) architecture
- Support for multiple view components (JSP, FreeMarker, Velocity, etc.)
- Interceptor component which promotes SOA design



## → CloudEx Internationalization Support

CloudEx provides internationalization support “out of the box”. All UI components in CloudEx has built-in i18n support and includes labels, messages, dates, currency format, page layout and images.

## → CloudEx Security Framework

CloudEx provides an advanced security framework which is used across all the CloudEx modules. CloudEx security framework is a very flexible identity and access management system. The security infrastructure is designed to minimize administrative effort in security configuration.

CloudEx security can also integrate with enterprise authentication systems such as LDAP. It can also easily be customized to model an existing enterprise organization hierarchy.

## → CloudEx UI Components

CloudEx UI components are integrated with core infrastructure services and hence have built-in security and internationalization features. CLOUDEX also provides a set of high level UI widgets to speed up application development.

CloudEx UI widgets have a uniform API structure and are easy to learn and implement. Appearance of UI components can be easily customized using predefined CSS style sheets. They can also be configured for optimum usage of memory and performance.

Following diagram shows a UI widget (WebTable) used in CloudEx user administration

User Listing

Page 1 of 1

	Name	User Name	Created By	Created On	Status
☰ ▶	subadmin1	subadmin1	corporate-profile-user	14/08/2008	Blocked
☰ ▶	adminuser	adminuser	felix:user	31/05/2008	Active
☰ ▶	subadmin1	subadmin1	corporate-profile-user	14/08/2008	Active
☰ ▶	sub_admin2	sub_admin2	corporate-profile-user	14/08/2008	Active

View Details  
Edit  
Block

### Key Features and Benefits

#### CLOUDEX Security Framework:

- Provides single sign-on support
- Provides user and group management including access rights
- Minimum administrative effort for security configuration
- Data level security access mechanism
- Integration of organizational hierarchy with security hierarchy
- Provides auditing and logging facilities

### Key Features and Benefits

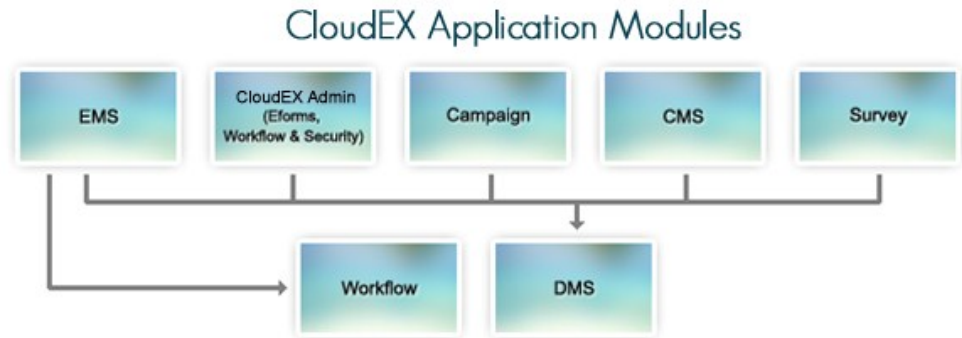
#### CLOUDEX Security UI:

- Built-in security and i18n features
- Built on AJAX paradigm for highly responsive UI
- Minimal download footprint to maximize application performance
- Uniform widget API makes it easy to learn
- Designed for scalability and better application performance



# CloudEx Application Modules

Following diagram shows various application modules available as part of the CLOUDEX product.



## → CloudEx E-forms support

CloudEx enables quick migration of existing paper based processes to web based workflow based processes using e-Forms and Event management system. Using e-Forms designer, existing paper forms can be quickly converted to electronic forms. CloudEx can deploy these e-Forms as Web based data capture screens and can start a workflow based on the captured data.

CloudEx e-Forms are based on the XForms specification and are powered by open source Orbeon XForms engine.

## → CloudEx Event Management Module

Event management system is a workflow based module which allocates events/tasks to appropriate individuals or groups. Event management sub system includes case management which can be used for tracking various requests from customers. EMS module is powered by a workflow engine and provides support for a wide range of workflow patterns (sequence, parallel, split, synchronization and exclusive choice).

The workflow engine is a flexible, extensible workflow tool, based on an intuitive process definition language to express business processes graphically in terms of tasks, wait states for asynchronous communication, timers, automated actions, etc. Optional processes can be defined in Business Process Modeling Language (BPML) and translated during design time.

### Key Features and Benefits

#### CLOUDEX e-Forms:

- Drag & drop screen design using IBM Forms Designer
- Integrated with Document management system and Event management system
- Can be extended using custom UI components

### Key Features and Benefits

#### CLOUDEX Event Management

- Case management including incident/complaint management
- Activities/Task management
- Reporting and analysis
- Integration with Knowledge base of Document management system
- Integration with Contact management system



## Key Features and Benefits

### CLOUDEX DMS:

- Provides file management and Knowledge base management
- Document version management and categorization
- Advanced keyword based document search
- Integration with document repository systems such as FileNet
- Provides easy integration with other application modules

## Key Features and Benefits

### CLOUDEX CMS:

- Provides customer/contact management
- Provides sophisticated contact search
- Provides a mechanism to maintain and quickly retrieve contact relationships
- Integration with other application modules such as Event management system, Campaign management system and Document management system

## Key Features and Benefits

### CLOUDEX Campaign Management:

- Ability to conduct multi-channel campaigns
- Precise control over campaign execution – timing, participation and method of communication
- Integrated online campaigns with banner ads
- Integrated with document management system
- Integrated with survey management system
- Detailed campaign result analysis (cross selling, up selling etc.)

## Key Features and Benefits

### CLOUDEX Survey Management:

- Sophisticated survey design interface
- Integration with one or more campaigns
- Integration with document management system
- Integrated security and internationalization features
- Survey result analysis – reports and export to excel features

## → CloudEx Document Management Module

CloudEx DMS module provides ability to access, share and track electronic documents. All application modules access documents/attachments through DMS module. DMS can be easily integrated to new application modules. DMS is integrated with core CloudEx modules such as Event management system, e-Forms and Campaign management system. If an existing file repository system is used in an enterprise, it can be easily integrated with DMS.

## → CloudEx Contact Management Module

Contact management module can be used to manage contacts, prospective clients and customers of an enterprise. CloudEx product by default provides a wide variety of information including contact names, addresses etc. Integration with document management, event management and campaigns provide powerful features for the enterprise.

CloudEx also provides a facility to easily extend contact information during specific application deployments.

## → CloudEx Campaign Management Module

CloudEx campaign management module can be used to conduct marketing campaigns, collect campaign results and to perform analysis of the campaign results. It also provides strong integration with other application modules such as document management system and survey management system.

CloudEx campaigns are highly configurable and can be targeted to precise set of audience. It also provides online campaign components which can be integrated in the application. Campaign module also provides ROI analysis.

## → CloudEx Survey Management Module

CloudEx survey management module can be used to design and conduct online surveys. This module can be used to create, publish, collect and track questionnaires and answers.

Survey module offers integration with other modules such as campaign and document management systems. It is also possible to analysis and reporting across multiple surveys using generic questions.



# CloudEx System Requirements

Recommended Server Configuration for Windows 2003 Server and above

- **2.6 GHz Intel Pentium IV or equivalent**
- **1GB RAM**
- **1GB Free Disk Space**

Recommended Server Configuration for Solaris OS version 10—SPARC

- **UltraSPARC IIIi 1 GHz**
- **1GB RAM**
- **1GB Free Disk Space**

Recommended Server Configuration for Linux (Ubuntu 7.x+, Red Hat EL 4 etc.)

- **2.6 GHz Intel Pentium IV or equivalent**
- **1GB RAM**
- **1GB Free Disk Space**

Supported Application Servers

- **Apache Tomcat 5.5.4+**
- **JBoss AS 4.2.1+**
- **Bea WebLogic 9.0+**
- **IBM WebSphere 6.1+**

Database Requirements

- **Oracle 9i+ and above**
- **MySQL and above**
- **Microsoft SQL server 2000 and above**

## About

The Stabilix® Insurance Platform was designed from the ground up around an extremely flexible, adaptive Service-Oriented Architecture (SOA). It leverages leading lightweight, reliable open source core engines such as Orbeon, jBPM and Hibernate, as well as proven enterprise design patterns and mature Java EE technologies for demanding production environments. The unique integration, synchronization and centralized management provide unmatched functionality, flexibility and performance at the lowest possible cost for the client.

For more information please contact:

## Stabilix® Corporation

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