

MooD® 2010 Platform Overview

A technical note accompanying MooD Platform version 2010

**Version 1.1
Autumn 2009**

Purpose

The MooD platform supports the exploitation of an Enterprise Business Model either directly through building and analysis of a model using MooD Business Architect, or through a configured MooD Active Enterprise solution – a highly visual web based application that supports specific decision making processes in a business.

This document describes the components that make up the MooD platform, and gives some basic technical specifications.

® MooD, Knowledge Map, Process Activation, Knowledge Activation, Performance Activation, Synchronisation Activation Technology and Autoexplorer are registered trademarks of Salamander Enterprises Ltd. in the United Kingdom and / or other countries.

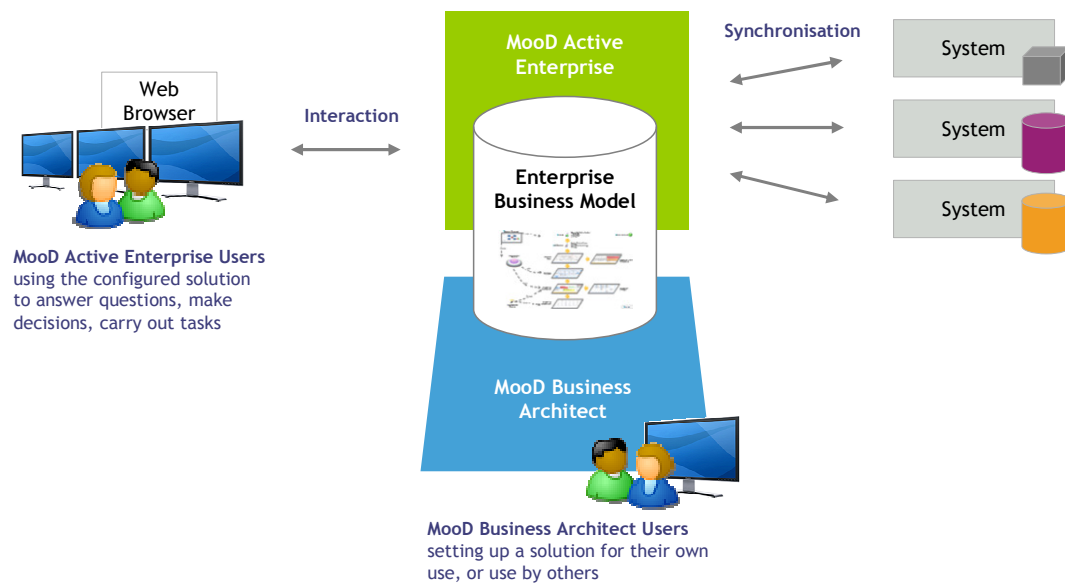
™ MooD Active Enterprise is a trademark of Salamander Enterprises Ltd.

® All other trademarks referenced are the property of their respective owners.

© 2009 Salamander Organization Limited. All Rights Reserved.

Concept

Users of MooD Active Enterprise™ interact with the Enterprise Business Model through a configured set of visual dashboards, models, interactive components and forms that have been put together on a “model canvas” – a highly flexible, interactive and visual ‘UI’ into the underlying data that appears to the user simply as a highly visual set of connected web pages. Panels (tabular, graphical, interactive) on the model canvas pull data from the model and allow actions and analysis to take place concerning the behaviour and performance of a business, and the impact of options against this.



The Enterprise Business Model exchanges content with other systems and sources of data through Synchronisation Activators. Structural data (the ‘elements’ of the model) as well as value-based data can be exchanged, where such data is chosen to be mastered outside of MooD.

MooD Business Architect is used to configure the Model, assemble content in the model directly through modelling, or through setting up synchronisation activators, and build visualisations on the model canvas using Panels and the MooD Query Builder – a way of querying across the model at a level above SQL.. All aspects of an Active Enterprise solution are configured through Business Architect, and all configuration and governance data for the solution is held in the model.

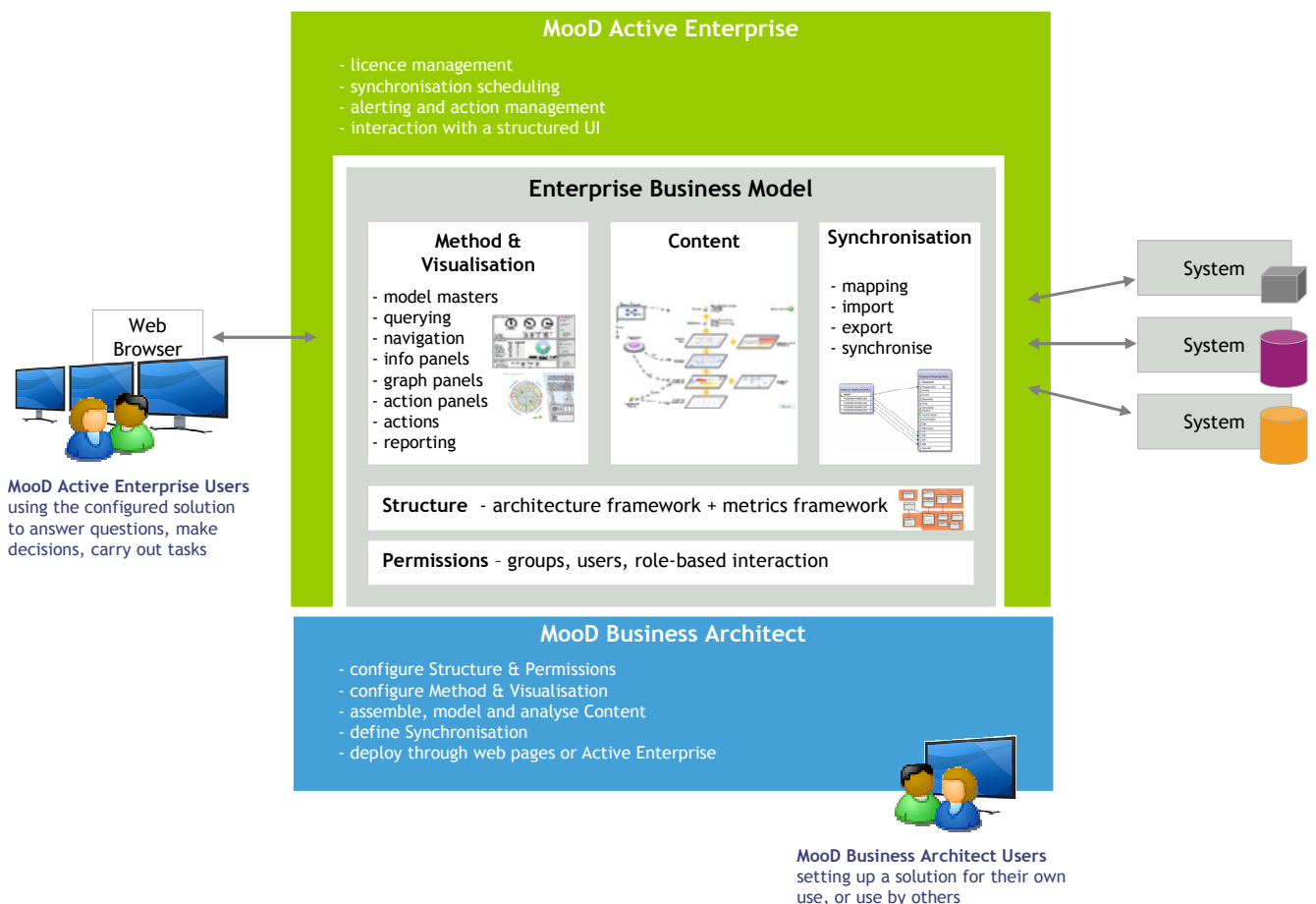
The MooD Platform in detail

The MooD Platform comprises –

- MooD Business Architect
- MooD Active Enterprise

Both of these products access and manipulate the Enterprise Business Model as their single, coherent, integrated repository of information.

In addition, a collection of MooD components are available as pluggable extensions to MooD functionality, and interfaces are available for those who write their own components.



MooD Business Architect

MooD Business Architect includes tools and functionality that cover the following areas:

Repository Management

- managing connections to Enterprise Business Models, and administration functions on simple Microsoft® Access-based Models

Enterprise Business Model Configuration

- setting up and configuring the structure of the Model ('theme management') in terms of meta model to be used across architecture and metrics, definitions, constraints, rules and relationships across this, visualisations including model masters for automated creation of model content, queries to be used across the model behind panels

Modelling

- creating and manipulating elements in the architecture and metrics framework, including properties, relationships, measure types and thresholds
- creating and using model masters to define the automated, templated appearance of models and elements
- building specific graphical models according to the defined configuration of the Enterprise Business Model, reusing, varianting or creating new content
- exploiting the Enterprise Business Model for understanding, review or analysis, including navigation through sequences of models, exploring and traversing dependencies, and reviewing the current results of queries, plotted upon models as panels or matrices.
- presenting and highlighting data using a 'Slide Show' mode for models
- reporting into Microsoft Word and Powerpoint

Variants

- creating variants – a replica of a set of elements that stay traceable to their original source, but can be evolved to represent an alternative state in the future

Queries

- using MooD Query Builder to assemble the right views onto data across the Enterprise Business Model by tracing through dependencies, adding constraints based on data values
- executing queries directly within Business Architect, or using queries as the basis for Panels and direction execution within Active Enterprise
- parameterising queries with variables to allow query reuse, and the dynamic provision of parameters into queries through Action Panels

Panels

- configuring Panels on models based on the MooD Query builder: a range of Info Panels and Matrices for tabular data, Graph Panels for charts and graphs, and Action Panels for interaction and execution of Actions via Active Enterprise (see '**Active Enterprise Configuration**' below)
- panels of any type, and Actions (executable code associated with an Action Panel) can be created and plugged in by third parties
- additional Panels and Actions are available (see '**MooD Components**'), and further Panels and Actions can be created and plugged in by third parties

Permissions & Roles

- setting up and configuring users, groups and permissions across this structure and content held against this structure, down to the level of individual elements and fields, and setting up user home pages for use in Active Enterprise

Web Publication

- generating 'static' web sites based on the Enterprise Business Model and html templates

Metrics

- defining the metric types, properties, thresholds and status indicators, aggregation rules and alerting rules that comprise the metrics framework that is blended with the architecture framework
- configuring the synchronisation of metrics with other sources of data, and exploiting metrics in queries and panels as an integral part of the Enterprise Business Model

Orchestration

- discovery of web services from UDDI or WSDL / XSD / BPEL specifications, creation of stub services within MooD, test execution of individual services or orchestrations of services using test data for validation against the rest of the architecture, the simulation of stub services within this testing and the blending of automated and non-automated service execution, and the deployment of services and orchestrations within SOA development and deployment environments including those from IBM® and Oracle®

Synchronisation

- configuring synchronisation with other sources of data through synchronisation activators, graphically defining the mapping between MooD content and content discovered in other tools, systems and data sources; scheduling and executing synchronisations
- configuring connections from elements in the Enterprise Business Model to complete sets of data in data containers, to allow the navigation from MooD into other systems and data stores, including WebDav-compliant document management systems, Microsoft Office and Adobe® Acrobat, web pages and arbitrary user-defined sources of data
- a set of default Synchronisation Activators are provided with MooD Business Architect to allow the synchronisation of data held in Microsoft Excel, Project and Visio, and for any database accessible through ODBC, and also for XMI files
- Additional Synchronisation Activators are available (see 'MooD Components'), and further Synchronisation Activators can be created and plugged in by third parties

Active Enterprise Configuration

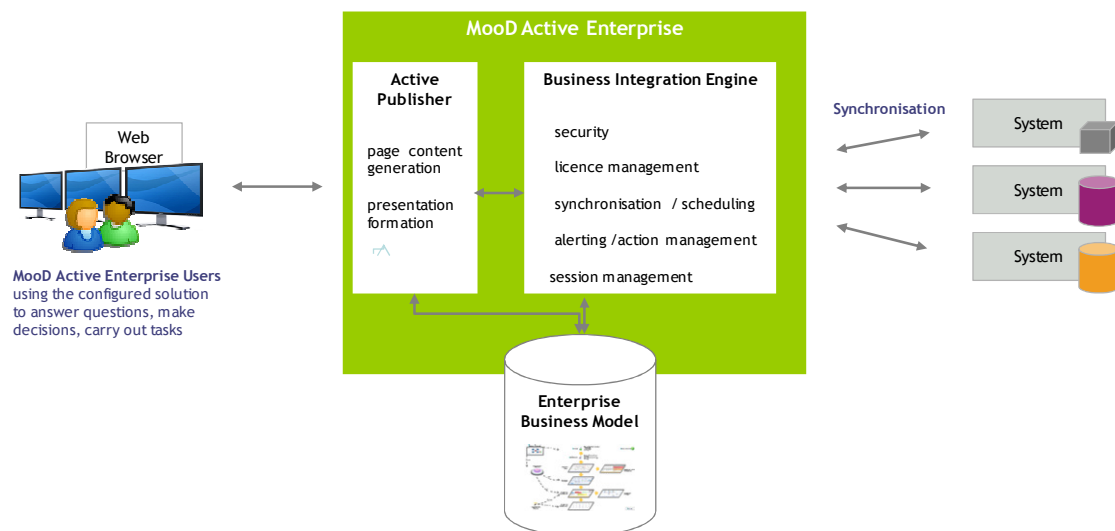
- configuring action panels to be used on a model canvas, based on data pulled from the Enterprise Business Model, and offering a variety of actions to the user, such as updating data, creating new elements, initiating synchronisations, filtering data and views based on user-selected parameters, and directed navigation through models
- “pinning” together action panels such that actions in one action panel can affect other action panels, including panels on other models via the concept of a ‘session store’ of parameters being set by the current user
- configuring the connection to MooD Active Enterprise and associated deployment options for a particular Enterprise Business Model, all within the Business Architect user interface, including logon screens, exception screens and web browser behaviour and settings

MooD Enterprise Business Model

All structure, data and configuration developed using MooD Business Architect is held in a MooD Repository, administered through MooD Repository Manager, and managed through a layer of software that provides functionality such as API, meta-model structuring, management and enforcement, user rights management, dependency analysis and adapters into specific physical database management systems.

MooD Active Enterprise

The MooD Active Enterprise is hosted by a web server, as a server-side software component which manages the generation of an active model canvas through to a web browser, based on content and configuration data held in the Enterprise Business Model.



After installing MooD Active Enterprise on the server and establishing a reference to the relevant MooD Repository, all further configuration of MooD Active Enterprise is performed using the MooD Business Architect.

MooD Components

Additional, pluggable components are available alongside the MooD platform. Some of these components (marked with a *) are available from Salamander, have been developed with or by third parties. Assistance can be provided to organisations that choose to develop their own MooD components.

Enterprise Business Model Blueprints

- M4 (MODAF 1.2)
- TOGAF™ 9 (with extensions to support Salamander Business Architecture)
- The Open Group's Archimate®
- SAE (Everware-CBDI Service Architecture & Engineering)

Synchronisation Activators

- Microsoft® Project
- IBM System Architect®
- IBM DOORS®
- Oracle Primavera*

Panels

- Target Graph Panel*
- Aztec Sun Chart *
- Silt Chart*
- Relatedness Action Panel*

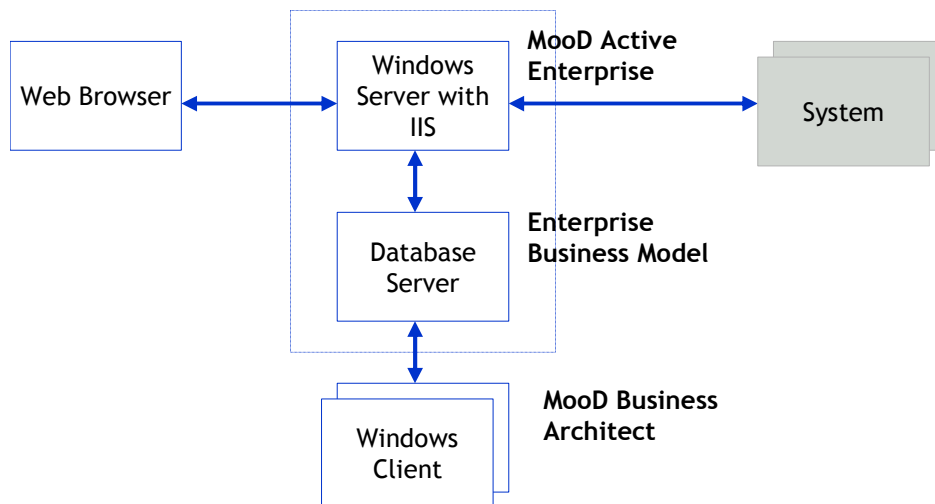
Additional Components

- MooD Simulation* (incorporating Simul8 from Simul8® Corporation)
- Document Builder (the definition and maintenance of Word documents based on repository content)
- MooD Business Orchestration (interoperates with SOA standards to discover and align web services, including BPEL import and export).

Technical Deployment

The Enterprise Business Model is held in a relational database (under Microsoft Access, SQL Server, or Oracle), and deployed through Active Enterprise running on a Microsoft web server, MooD Business Architect is installed directly onto a Windows® Client machine, and interacts with the Enterprise Business Model through an ODBC connection,

In principle all components can be installed onto and run on a single laptop, using a Microsoft Access database. However, a larger scale deployment might involve separating components of the MooD platform onto their own infrastructure:



A common pragmatic step is to host MooD Active Enterprise and the Enterprise Business Model on the same server, as indicated by the dotted line around these in the figure above.

Technical Specification

MooD Client and Server software can be operated upon the system configurations described below. Please note that these specifications are 'minimum' requirements, and that the real system requirements for any specific MooD implementation will be depend on the specific solution and customer data/usage.

System Requirements

Server	Processor: Intel® Pentium® IV/Xeon® or Intel-compatible 3GHz Processors. Hyper threaded, Symmetric Multiprocessor, or Xeon-based system is preferred or any Core 2 Duo / Dual-core or quad-core Xeon architecture. Memory: 2GB or more recommended Graphics Card: 1024x768 or greater, 16bit colour depth or greater
Client Tools	Processor: 1 GHz 32-bit or 64-bit processor(s) Memory: 1GB or more recommended Graphics Card: 1024x768 or greater, 16bit colour depth or greater

Supported Platforms

Operating System (Server)	Microsoft Windows 2003 Server SP2 (recommended); Windows 2008 Server
Operating System (Client Tools) ¹	Windows XP Professional SPs 1a, 2 and 3 (recommended); Windows Vista Enterprise SP1, Windows Vista SP2, Windows Vista Business SP1, Windows Vista Ultimate SP1; Windows 7 (32bit and 64bit)
Clients	Microsoft Internet Explorer 6, 7 & 8
Database	Microsoft SQL Server 2005, 2008; Oracle 10g, 11g. For small projects, SQL Server Express 2005, 2008 and Oracle 10XE (using 10g or 11g client drivers). The Microsoft SQL Native Client Driver is recommended for SQL Server clients.

Required Software

Server and Client Tools	Microsoft .Net Framework 2.0; Microsoft Excel XP (2002) or later for Excel and Aggregation Field Activators; Microsoft Word 2000 or later for Word reporting; Microsoft PowerPoint 2000 or later for Spotlight export to PowerPoint; Microsoft Project 2003 or later for Project Synchronization Activator
-------------------------	---

¹ MooD product functionality is substantially available on the Windows 2000 client platform but is not formally supported.