MIMOS Decision Support System Platform (Mi-DSS)

With MIMOS Mi-DSS, organisations can rapidly adapt to market changes in productive and cost-effective ways through a customised decision support system. This intelligent platform provides decision support and infers conclusions based on predefined rules for any given problem.

Overview

MIMOS Mi-DSS is an intelligent platform which recommends possible solutions for identified problems based on user inputs, data sources (both external and internal) and predefined rules.

The platform consists of four major components: Workflow Manager (WFM), Data Integrator (DIR), Decision Modeller (DM) and Rule-Based Engine (RBE). These four components are used to build a customised DSS application for any domain.

Features

Mi-DSS comprises the following features:

- **Workflow Management**

  WFM connects all components for the decision-making process and allows web service clients to execute workflow processes.

- **Data Integration**

  DIR provides users with a unified view of multiple-sourced data. DIR allows WFM to extract and map data to ontologies, grab RSS and data content from querying Mi-Clip (MIMOS intelligent web clipper platform), and write to a data source.

- **Decision Modelling**

  DM executes complex algorithms to provide decision support for a given problem based on a decision model and input given.

- **Rule-Based Reasoning**

  RBE provides the functionality to infer a conclusion on a problem that cannot be observed directly. RBE allows WFM to run rules and to construct sub-graphs in an ontology model.

Technology Benefits

The main impacts of Mi-DSS are:

- **Vehicle Resource Planning**

  Mi-DSS can improve vehicle allocation and fleet management through recommendations based on inputs such as truck loading, peak/low periods and route information.

- **Dynamic Route Planning**

  Organisations can gain more insight into a logistics chain by identifying and linking core contributing processes to quicken delivery and improve linkage between process groups.

- **Job and Business Matching**

  Candidates can be better matched to relevant jobs, and business prospects can connect to potential partners when individuals and organisation have improved access to multiple sources of information.

Technology Summary

Mi-DSS
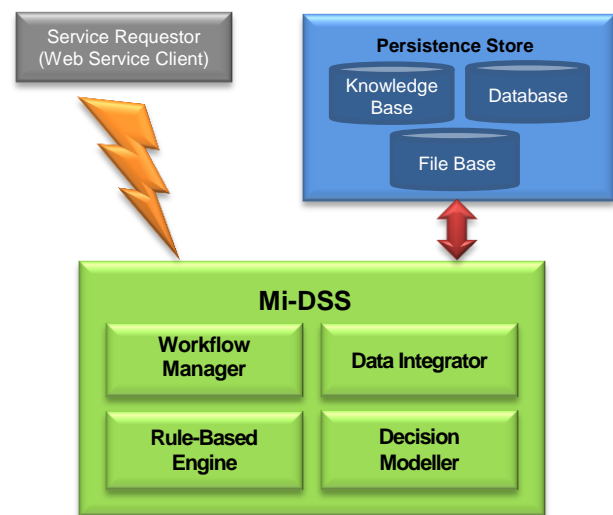A standalone platform that is used to build customised DSS applications for any domain.
Industries: Enterprise, Government

Features
- Workflow management
- Data integration
- Decision modelling
- Rule-based reasoning

Technology Benefits
- Vehicle resource planning
- Dynamic route planning
- Job and business matching

MIMOS Mi-DSS system architecture

System Requirements

Mi-DSS	
Hardware Requirements	
Processor	Dual-Core Processor
Memory	8GB of RAM
Disk Storage	80GB of hard disk space
Software Requirements	
Operating System	Linux® (64-bit)
Tools	Java™ Development Kit (JDK) version 6.0 update 16 and above
Application Server	Apache ServiceMix

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