# VisCMSE SOFTWARE SUITE

**VisCMSE** (**Vis**ual **C**ontrol, **M**onitoring and **S**imulation **E**nvironment) software is a design environment that reduces the cost of the development of custom-built system integration software applications and Graphical User Interface (GUI) by 75-80%. The use of VisCMSE is intuitive and does not require special computer programming expertise. After reading the manual, any computer-literate engineer or researcher can use VisCMSE to build a control and data collection system for specific applications. VisCMSE also supports the seamless integration of several VisCMSE-built applications into a bigger system, allowing the customer to generate large systems with no limitations on the number of objects, hierarchy layers, and data points.

VisCMSE is mature, market-ready software. It was applied by the American company AZ Global Research and Engineering Ltd. to enable the use of satellite images for environment monitoring, flood management, brushfire management, vegetation monitoring, change control, and water and air quality control applications for an Italian customer. The integrated system of five applications was procured to the customer in June of 2007, and is now included in five bids for different Earth Observation projects in Italy, Tunisia, and Madagascar, and independently in Ghana for a commercial satellite ground station. It is currently evaluated in Italy and Australia for the development of hotel management systems for small hotels, as well as for facility management the integration of access security.

## Types of Applications

VisCMSE may be used for:

- Building SCADA (**S**upervisory **C**ontrol **A**nd **D**ata **A**cquisition) systems.
- Real-time data modelling
- Integration of the static databases of governments and of private vendors with real-time data
- Integration of static GIS data with “live” data streams and legacy models
- Integration of legacy software into contemporary applications
- Process modeling for industry and for operations analysis.

## Areas of Application

Specific areas where VisCMSE may be used include:

- Alternative “clean” power generation
- Geoinformation systems and Earth Observation
- Management of scientific experiment
- Industrial automation
- Disaster response and mitigation (flood, fire, other)
- Environment control and monitoring
- Electrical grid and pipelines operation
- Remote operation of oil wells, wind turbines, satellite teleports, etc.
- Hospitality industry
- Management of municipal infrastructure and resources
- Wildlife monitoring

VisCMSE software was created based on experience in the design of launch control systems for Space launch operations. It is implemented in Java-2 programming language and was tested against Windows-2000 and Windows-XP operational systems. It uses exclusively Open Source third-party applications and is free from any licensing claims. It is also designed to run on the standard PC computer.

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