

## Who we are

- Established in 1994, Sutra is successfully serving International Customers in Japan and Europe.
- Sutra is the Software Development partner for leading international companies.
- Sutra is Software Product Development Company with expertise in **Enterprise Solutions and Engineering Solutions.**
- Sutra offers cost effective and innovative solutions using latest Computing technologies.
- Sutra is an **ISO 9001:2008 certified** company having international business experience.

## Key Characteristics

- Qualified personnel from premier institutions with international experience.
- **Strong Understanding of Business Processes.**
- In Depth Knowledge of Software Engineering Processes.
- Extensive Offshore Project Management Experience.
- **PMI Certified** Project Leads, **Sun Certified** Java Developers, **Dedicated QA**, Support teams.

## Key Industries

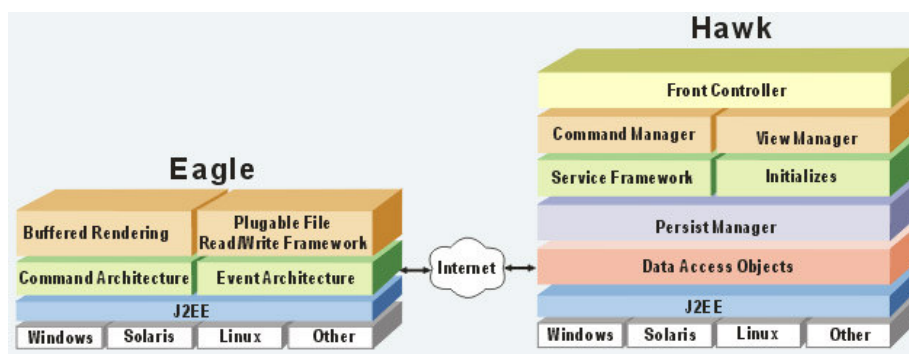
- Software Developers
- System Integrators
- Telecom/Mobile
- Manufacturing
- Healthcare
- Insurance

## ISMS Policy

- Sutra values secrecy of Client Data/ IPRs to highest degree.
- Sutra has ISMS (Information Security Management System) Policy in place.

## Eagle and Hawk

- |         |  |
|---------|--|
| Hawk    | • MVC based front controller and service architecture                          |
| Eagle   | • MVC based servlet and applet communication architecture                      |
| Service | • Stateless layer for implementing business rules in a typical web application |



## Eagle and Hawk: Java Based Framework for CAD/CAE Applications

### Eagle Features

- Platform / Environment Independent
- Lightweight, can be run in Internet Browsers
- MVC Type2 Based multiplayer architecture
- Seamless Integration of various layers using command architecture
- Configurable Undo / Redo Manager
- Rendering framework based on double buffering
- Customized event based interface within various view components

### File Support

- Image Processing – Support for BMP / JPEG / GIF / PNG file formats
- Pluggable framework for various file format reading / writing e.g. DXF

### Hawk Features

- Configurable framework for Web based application development & deployment
- Reusable web components.

### Additional Support

- Client Server communication facilitated through 'Hawk' Architecture

## Falcon: VC++ based Lightweight General Purpose FEM Post Processor

### Falcon Features

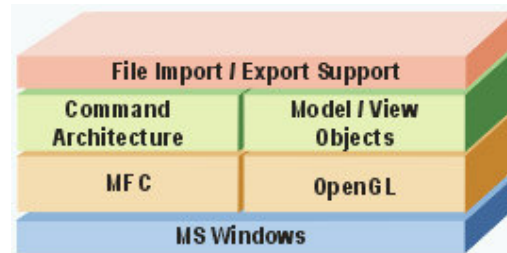
- 3D Support based on OPENGL
- Can Handle Large Models Multi Window/Multi View Port Support
- Support For UNV and NASTRAN Files
- Can Display Contours / IsoSurfaces / Deformation / Vectors / Animation etc.

### View Control Support

- 3D Dynamic Rotation / Zoom / Pan and other Viewing Features
- Shading / HiddenLine / FeatureLine / WireFrame Display
- Layer / Property / Material Data based Color Option
- Different Selection Mode Support

### File Support

- Import / Export FEM Data in UNV, NASTRAN, FEMAP File Formats
- Import / Export FEM/Geometry Data in DXF, STL, VRML File Formats
- Image Support for BMP / JPG / TIFF File Formats



### Result Display Support

- Contour Display (Bands/Lines)
- IsoSurface Support
- Vector Data Display
- Deformation Display
- Solid Sectioning
- Time Based Animation (Contour / Vector / IsoSurface)
- 2D/3D Graph Support
- Auto Report Creation in HTML / WORD / EXCEL

### Optional Features (Customization Support)

- Database Connectivity (Access / SQL Server / Oracle)
- Import/Export of FEM/Geometry Data in DXF, STL, OP2, VRML File Formats
- Auto Report Creation in HTML / WORD / EXCEL