

Graphical Control Module

The primary objective for **Graphical Control Module (GCM) project** was to develop a graphics interface to the **GCM-II** system which monitors security zones through implementation of perimeter controlling functionality. The solution allows users to setup and monitor security zones and devices through the **GCM** user interface. The **GCM** user interface supports multiple languages.

The module can include up to 256 user accounts, each having different levels of account privileges. The **GCM** user interface communicates with a backend **GCM daemon module** to get and set information on security zones, devices, alarm states, and configuration parameters. **GCM** performs real time monitoring of security zones with visual representation of current object status and generates a visual and sound alarm if security is breached. **GCM** can produce reports in which the history of alarms and system configuration settings can be displayed and printed.

A **GCM Map Editor** allows a user to edit graphical representation of objects or regions that are being monitored for security. The **Map Editor** defines up to 20 various graphical elements for this purpose.

Scope

- Functional Requirements definition
- Story Board creation
- GUI design and development
- Map Editor implementation
- GUI multilingual support
- Functional and acceptance testing
- 2 person project for 9 month duration

Technologies

- Qt v4.5 for Linux X11
- Fedora 10 OS
- GCC v4.3.2
- KDE v4.2.1
- Subversion

Project Management

- Weekly updated project plan and budget
- Weekly status call
- Weekly status report
- Risk management
- Web access to Bug Tracking System

