

# Department of Environmental Protection

## Division of Air Resource Management:

### Florida Air Monitoring and Assessment System (FAMAS)

#### Enterprise 24x7 Inc. Project Summary

#### Overview

The primary functions of FAMAS include automatic polling of monitoring sites; importing and exporting of data in formats recognized by EPA; audit and reporting features; editing features; data integrity checks; the ability to recognize time zone distinctions; and the ability to download data from EPA. The division is responsible for the collection, storage and reporting of data collected by ambient air monitors located throughout the state, as mandated by the EPA. The statewide air quality monitoring network is operated by both state and local environmental programs. State-operated sites consist of over 50 monitoring sites supporting more than 73 monitors. Local air programs operate an additional 97 sites with 150 monitors. Among the pollutants that are monitored are carbon monoxide, lead, ozone, particulate matter and sulfur dioxide.

This application uses an Oracle VLDB (very large database) with the partitioning option. The current size is over 3.0 billion records. Oracle Heterogeneous Services (HS) were used to migrate data from SQL Server to Oracle during the ETL phase.

Enterprise 24x7 Inc. continues to provide IT consulting services to assist DARM with the completion of Information Technology (IT) maintenance service requests. Service requests are related to software applications and systems designed for the support of programs, processes and other activities implemented for the purpose of developing, deploying and maintaining the FAMAS application.

#### E24X7INC Services

The E24X7INC **Manager of Applications Development** coordinated systems analysis and applications development activities through direct and indirect staff. The Manager directed development teams in the areas of scheduling, technical direction, future planning and standard development practices. He participated in quality improvement activities for the development organization. He monitored scheduled milestones to ensure project/ program objectives were met in a timely manner and possessed in-depth knowledge of the principles, theories, practices and techniques for managing the activities related to planning, managing and implementing systems analysis and applications development projects and programs.

The E24X7INC **Applications Development Analysts** worked closely with the application users & owners, business analysts, and team members to understand the business requirements that drove the analysis and design of quality technical solutions. Those solutions had to be aligned with business and IT strategies and comply with the organization's architectural standards. They involved in the full systems life cycle and were responsible for designing, coding, testing, implementing, maintaining and supporting applications software that was delivered on time and within the agreed budget. They made recommendations towards the development of new code or reuse of existing code. Their responsibilities also included participation in component and data architecture design, performance monitoring. They had decades of combined experience in systems development, quality assurance and integration methodologies.

The E24X7INC **System Analyst (SA)** was responsible for the design and development of IT system enhancements and new features. The SA developed design and functional specifications, produced deliverables related to the project(s), assigned and assisted in post implementation support and system enhancements. Responsible for applying appropriate C.A.S.E. tools to develop system features. The SA was responsible for gathering, compiling and synthesizing information with regard to technology processes and systems. The SA

# Department of Environmental Protection Division of Air Resource Management: Florida Air Monitoring and Assessment System (FAMAS) Enterprise 24x7 Inc. Project Summary

was involved in the full systems life cycle and was responsible for designing, coding, testing, implementing, maintaining and supporting applications software to ensure each new feature was delivered on time and within budget.

## Technologies Leveraged

- Oracle Forms
- VB, C++
- MSOffice
- Oracle Database
- PL/SQL
- JIRA
- ASP .NET
- ETL
- Cherwell

