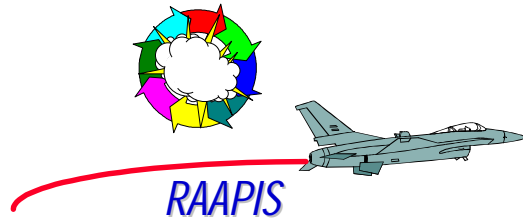


# ***Real-Time Aerospace Application Programming Interface Support (RAAPIS)***



**Camilo Segura**  
**Minerva Rodriguez**  
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- **Background**
- **Current contract**
- **Future plans**



- **The purpose of RAAPIS is to support the development of Standard APIs that can be used in real-time avionics systems. The APIs must support interoperability, security and high performance.**
- **Contract is sponsored by the Open System Joint Task Force (OSJTF), the Air Force Research Lab (AFRL) and the DOD Information System Agency (DISA).**
- **RAAPIS provides support of:**
  - IEEE's Portable Application Standards Committee (PASC).
  - Society of Automotive Engineers (SAE) OS-API Subcommittee.
  - Real-Time & Embedded System Working Group (Open Group)
- **Raytheon has experience in Real-Time Systems, Operating Systems, Security and Open Architectures.**



## Contract Tasks:

1. **Application Programming Interfaces Task**  
Support the different standards groups in defining APIs.  
In particular: Fault Tolerance, Ada Bindings,...
2. **Open Architecture Task**  
Support the GOA group.  
In particular the Operating System API (OSAPI) group
3. **Delta Document implementation**  
Bring findings of our implementations to the standards groups .
  - Security
  - Performance
  - Domain Specific



## Plans for 2002:

### Continue supporting Standards activities:

- SAE (OSAPI & GOA)
- Open Group
- OMG (RT CORBA)
- PASC

### Perform Demonstration:

- Standards applicability
- Security
- Middleware



- **The purpose of the demonstrations would be to show the applicability of the standards in Real-time Aerospace Application Systems.**
- **Demonstrate meeting the following requirements:**
  - **Interoperability**
  - **Security**
  - **Performance**