Alpha Demonstration
Camera Control Appliance (CCA)

Team Raytheon
CSE 498, Collaborative Design

Austin Gregory
Phillip Studans
Scott Bishop
Thomas Parker

Department of Computer Science and Engineering
Michigan State University
Spring 2010
Project Overview

- Command Assurance – Civil (CA-C)
  - User interface, overlays objects on Google Earth
- Sensor Resource Manager (SRM)
  - ‘Brains’ of the operation
- Command, Control, and Display Equipment (CCDE)
  - Message sender and listener for SRM
- Camera Control Appliance (CCA)
  - Translates messages, threaded camera control
  - What we make!
Architecture Illustrated

- Command Assurance – Civil
- Sensor Resource Manager
- Command, Control and Display Equipment
- Local Computer
- Message Listener
- Message Sender
Architecture Illustrated
Screen Shot

Controls and Visuals
What’s left to do?

• Embed Camera Controller into Google Earth
  – Implemented through CA-C
  – Design GUI
• ICD-101A
  – Parser
  – Translator
• Extend Functionality
  – Extensible Library
• Develop SRM Plugin for CA-C
• Testing