

## Design and Development of Data Analysis and Replay Tool

WARAS is a GUI based Offline Analysis tool which takes data from different sources and replays it for the analysis of data. The tool is able to analyze the data with respect to different inputs and has different screens to display results.

### Salient Features

- Integration of COTS plotting tools with application to reduce development time and cost.
- Features multiple video windows with option of overlay.
- User friendly synthetic display.
- Data acquisition from onboard system as well as from VDR 1553 MIL bus data, VDR mp2 data and FTI data.

### Outline Specification

#### Features

- GUI Features
  - Password Protection
  - Mode Selection
  - Data Acquisition
  - Operation Selection
  - Graph Plotting
- Operations
  - Replay
  - Analysis
  - Optimize
- Data Handling
- Analysis Tools
  - Geometric Measurement Tool
  - Display Zoom Tool
  - Modify Trajectory Tool
- Display
  - Split Screen
  - Synthetic Display (Flight Path Top View & Missile Path)
  - Video Replay

## Platform

- Windows XP
- Microsoft Direct Show components for Video playback and image overlaying.
- ActiveX components for plotting
- MFC framework

## Diagram

