

2003 FAA National Software Conference

178B Software from a Military Developer

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Military users requiring FAA certification

Military SW developers Are attempting to lean
DO-178B methodology

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- **Some Areas of Concern**
 - Top Down Design Approach
 - Performance Testing

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- Top Down Approach?
- Meet Firm Requirements
- Safety Experts do the Safety Analysis at the End

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- Performance Testing
 - Test to performance, intended function requirements only
 - 178B expects robustness, failure condition and stress testing

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- Mitigation Suggestions
 - Stress top down when reviewing PSAC
 - Seasoned DERs assigned
 - Support the assigned DERs
 - Stress robustness testing when reviewing the SVP