



ALD

A HUB Cyber Security

Reliability and Safety Engineering Solutions

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COMPANY PROFILE

ALD (a HUB Security) is one of the world's largest Reliability, Safety Engineering Company. Since 1984 the company has been engaged in three main activities:

- **Reliability, Safety Professional Services**
 - **RAMS, FRACAS, ILS and LCC Software Development**
 - **Reliability & Safety Training**
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- ALD's skilled engineering personnel have engaged in hundreds of RAMS engineering projects around the globe.
 - ALD's flexible organizational structure enables response to each customer's specific needs.
 - ALD provides a complete solution for all aspects of Reliability, Safety of products and processes, dealing with complicated systems at every level from the highest to the most detailed. ALD's approach combines high professionalism, dependability and ingenuity in all tasks and projects it has been involved in since its foundation in 1984.
 - ALD service and software is enrooted in various defense, Aerospace, Railway, Telecom and Energy Projects ensuring Safety, Availability and Maintenance Optimization.

LIST OF HUB SECURITY RAMS SERVICES

- Reliability and Safety Program Plan
- Reliability Prediction and Analysis (MTBF, Failure Rate Predictions)
- FMEA/FMECA Analysis
- Testability Analysis
- Failure Analysis, Fault Tree Analysis
- Electrical Parts Stress Analysis
- Maintainability prediction and analysis
- Reliability demonstration test program
- Reliability Centered Maintenance (RCM)
- Logistics support, spares optimization
- Reliability, Safety Software tools

RELIABILITY, MAINTAINABILITY, SAFETY, ILS SERVICE & TRAINING

- Master Plans, Statements Of Work (SOW), Reliability and Maintainability (R&M) Specifications
- R&M Allocation, Prediction, Failure mode analysis (Design FMEA, FMECA, FTA)
- System Safety Assessment
- Aviation Safety
- Dispatch Reliability
- Spare Parts Initial Provisioning Recommendations
- Maintenance Policy Optimization
- Optimization methods
- Integrated Logistics Support (ILS) and Life Cycle Costing
- Availability and Readiness analysis
- R&M Test and Demonstration
- Reliability Growth Test
- Inspection and Diagnostics
- Testability and BIT/BITE Analysis
- Accelerated Life Testing
- Component Engineering
- Failure Reporting, Analysis and Corrective Action (FRACAS)



RAM SOFTWARE BY ALD SOFTWARE



RAM Commander *The Ultimate Reliability & Safety Tool*

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|-------------------------|-----------------------------|-----------------|
| *FHA | *RBD | *MSG-3 |
| *PSSA, SSA | *Markov | *MMEL |
| *Fault Tree Analysis | *Stress Analysis | *Zonal Analysis |
| *FMEA/FMECA | *ILS | *CMA |
| *Testability | *Spare Part Optimization | *FIDES |
| *Reliability Prediction | *Maintainability Prediction | *RCM |



Safety Commander *Integrated Safety Assessment*

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|---|----------------------------------|
| * Real Integration of Entire Aircraft\System SA | * Final Certification Document |
| * Multi user / Multi site / Multi-vendor | * FHA/FTA/FMES/FMECA |
| * Version / Revision Control | * MMEL |
| * Huge FTAs with millions of cut-sets | * Flight\Mission Profile Control |
| * Average probability calculation | |
| * Loop failures resolution | |



Web FRACAS *Reliability & Safety Management System*

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|--|----------------------------|
| *Failure and Maintenance events repository | *FRACAS Process Management |
| *Dispatch Reliability Trending | *FRB/MRB |
| *Safety Bulletins | *Corrective Action |
| *Streamlining of Failure Info | *Top Management Dashboard |

CUSTOMERS

HUB SECURITY's hundreds of customers worldwide are a testimony for the usability and effectiveness of HUB SECURITY's powerful software tools and the high level of HUB SECURITY's service and training.

Partial list of HUB SECURITY's customers:



Partial List of Customers (Continue):

- ◆ ABB (Poland)
- ◆ Actia Automotive (France, Spain)
- ◆ Aeroconseil, AKKA (France)
- ◆ AEG Power (France)
- ◆ Airbus (France, Germany)
- ◆ Airforce (US, Israel)
- ◆ Airwell (Israel, France, Italy)
- ◆ ANDAR (Turkey)
- ◆ Analogic (USA)
- ◆ AnSHUB Securityo STS (France)
- ◆ ALSTOM Transport (France)
- ◆ AT&T (USA)
- ◆ ADI (Australia)
- ◆ Bank Hapoalim (Israel)
- ◆ BAE (USA)
- ◆ Bharat Electronics (India)
- ◆ Brightsource Energy (Israel)
- ◆ COBHAM (France)
- ◆ COMAC (China)
- ◆ CMI Defense (Belgium)
- ◆ DAMEN Naval (Netherlands)
- ◆ Deutsche Bahn (Germany)
- ◆ DELL (Israel)
- ◆ DGA (France)
- ◆ DSO (Singapore)
- ◆ EADS (France)
- ◆ EATON Aerospace (USA)
- ◆ EATON Electronics (Czech Republic)
- ◆ ELECMA (France)
- ◆ Elisra (Israel)
- ◆ El-Op (Israel)
- ◆ ELBIT Systems (Israel)
- ◆ EFW (USA)
- ◆ ELTA (Israel)
- ◆ ERAU (USA)
- ◆ ESG (Germany)
- ◆ GIAT Industries (France)
- ◆ GMV (Spain)
- ◆ Hindustan Aeronautics (India)
- ◆ IAA (Israel)
- ◆ IDF (Israel)
- ◆ IKERLAN (Spain)
- ◆ IMI (Israel)
- ◆ IMTECH (Netherlands)
- ◆ Interroll (Germany)
- ◆ Intel (USA)
- ◆ IVECO (Italy)
- ◆ ISIS MPP (France)
- ◆ Kontron (USA)
- ◆ Larsen & Toubro (India)
- ◆ Lockheed Martin (USA)
- ◆ MARVELL (Israel)
- ◆ Marini (Italy)
- ◆ MBDA (France, Italy)
- ◆ Meggitt (Switzerland)
- ◆ Ministry of Defense (Israel)
- ◆ Mitsubishi (India)
- ◆ Motorola (Israel)
- ◆ MORS SMITT WABTEC (UK)
- ◆ Nexans (Norway)
- ◆ Navy (USA)
- ◆ NASA (USA)
- ◆ Parsons (USA)
- ◆ SAAB (Sweden & Australia)
- ◆ SAGEM Avionics (USA)
- ◆ Sukhoi (Russia)
- ◆ SELEX Comm. (Italy)
- ◆ SELEX Galileo (Italy)
- ◆ SANDISK (Israel)
- ◆ Philips (Israel, France)
- ◆ RAC (USA)
- ◆ Rafael (Israel)
- ◆ Rohde-Schwarz (Germany)
- ◆ SAGEM Avionics (France, USA)
- ◆ Siemens (France)
- ◆ SNECMA (France)
- ◆ Sonovision (France)
- ◆ ST Electronics (Singapore)
- ◆ ST Engineering (Singapore)
- ◆ Tadiran (Israel)
- ◆ Technip (Thailand)
- ◆ Technosky (India)
- ◆ THALES (UK, Canada, India, Australia, Austria, Spain, France, USA, China)
- ◆ THALES Alenia Space (Belgium)
- ◆ Zodiac Aerospace (France, USA)