



ADLP Airborne Data Link Processor Software Development



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Rockwell Collins France, the producer of the Airborne Data Link Processor (ADLP) is upgrading and improving the ADLP Processor Software from STANAG 5511 Ed-4 to STANAG 5511 Ed-5. MilSOFT has been evaluated and chosen by Rockwell Collins France, as a subcontractor to participate to the development of the ADLP software upgrade.

The ADLP-100 is a tactical Airborne Data Link Processor which supports Link 11A network operations.

ADLP implements mainly the following STANAG 5511 Ed.5 messages and tasks including:

- Air and Surface surveillance [identification, reporting responsibility (R2)],
- Special point,
- Information management (identity, alert, correlation, IFF),
- ASW operations,
- EW operations,
- Weapon coordination [Command & Control (C&C), Weapon Engagement Status (WES)].
- Manages database (up to 1000 tracks and their associated information):
- Stores or refreshes external track information from the Link 11A
- Processes Real Time built-in-test.

MilSOFT engineers performed the following tasks in the software upgrade activities of ADLP:

- Modify the CORBA interface to the mission system (replacement of existing CORBA ORB by another one)
- Implement STANAG 5511 Ed5
- Improvement of some processing (filtering, correlation...)
- Develop some DLCPs to STANAG 5511 Ed5

MilSOFT team has participated the following activities:

- Software Requirements refinement
- Detailed software design
- Code Development
- Unit Testing
- Software Integration Testing
- Factory Acceptance Test procedure update
- Software and/or system tests conduct

System Features

- C/C++ programming language
- Real-time embedded software
- CORBA usage
- Lynx Operating System