

Network Manager nominated by the European Commission

SDM Workshop – DATALINK -



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Monitoring the Datalink Performances.



European Aviation Safety Agency

Report

Technical issues in the implementation of Regulation (EC) No 29/2009 (Data Link)

Version 1.1

In response to the EC letter ref. DG MOVE E2/GO/cd D(2013), Ares(2013)3672917

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EASA report (2014)



VDL Mode 2 Measurement, Analysis and Simulation Campaign

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ELSA Consortium and	Programme Partnership
400 revenue and mes simulation representin requiring about 50 da workgroup sessions, a options and technical	igations, measurements and simulations comprised of data from more than asurement flights, analysis of 3 million air/ground exchanges, 700 hours of g 350,000 flight hours, and stress testing of common avionics configurations yo of cumulated live sessions have been conducted. Together with several nd special investigations into possible protocol optimisations, MF deployment details for MF network operation, they provided a wealth of observations and the foundation for a set of concrete recommendations for improving the

ance and robustness of the data link deployment based on the current regulation and implementation rule, and also for the next phases of data link deployment. Improvements seen during the execution of the programme, as well as simulations of scenarios, confirm that formance can be brought to an acceptable operational level even in the short term assur-ntinued engagement and contributions from all stakeholders.

ELSA Study (June 2016)

EUROPEAN COMMISSION Postpone the rule (2015/310) dates by 5 years Feb 2013-> Feb 2018 (New aircraft and ANSPs) Feb 2015-> Feb 2020 (retrofit except exemptions)

- - Tasked:
 - SDM-> Implementation Program (ATN-B1)
 - EASA -> New regulation (RMT)
 - EUROCAE -> Update the standard



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EUROCONTROL/NM -> Monitor the performances

NMB#18 (13,04,2017) approved the new tasks related to the new function:

- Support DLS implementation and reinforce the RFF
 - New tasks coordinated with the RAFT (National Freq. Managers)
- Perform the "pan-European DLS performance monitoring and spectrum coordination function, infrastructure performances impact and monitoring function"
 - Multi-frequency, network performance status and impact.
- Further support the implementation of the DLS Recovery Plan in coordination with SDM and EASA
 - 'Best in class', white list, links to flight plans, performance feedback to standards groups.
- Report all findings in conjunction with EC, SDM and EASA
 - Share information, make proposals for improvements









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Forecasting (In conjunction with the SDM cf. CEF-Call – WP2.5)

the European Commission







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DPMF- Current tasks

- Mandated by the European Commission (Approved by NMB)
 - VDL-2 / ATN-B1- (2) performance monitoring (cf. EC mandate).
- Other monitoring activities related to datalink performances
 - ICAO: Performance Based Monitoring (Oceanic airspace)
 - Performed by ANSPs (Ex. NATS)
 - ICAO asked NM to collect the monitoring data and take action for non compliant aircraft.
 - Others:
 - SATCOM service performances
 - ATS-B2?

Other DATALINK related tasks

- Run Interop testing (EEC platform, E2E), for all stakeholders (28 last years)
- Support ICAO (Standards and Panels)
- Support: R&D (SESAR, ATS-B2), Rules Making Tasks (EASA), SDM (CEF-Call)
- Contribute to the CEF 2017 DLS IP1
- Radio Frequency Function to find more VDL-2 channels (cf. WP2.5)











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Outcome of the performances monitoring









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- - Multi frequency deployed by operators (ANSPs and CSPs)
 - Aircraft upgraded with much better performing avionics
- Medium/poor performances in certain areas
 - Under investigations
- Voice Interferences still observed (-> RFF)
- Good cooperation with EC/EASA/SDM/EUROCAE

Questions?





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