

UAV DACH e.V.

German Language UAS Association

By Bernhard von Bothmer



New Structure & Activity Update

In 2000, UAV DACH was set up with support from UVS International as a German language working group.

Its primary objective was to represent the Austrian, German, Swiss and Dutch UAS industry interests. For that purpose UAV DACH contributed to the development of operational requirements, concepts and procedures for national and international unmanned aircraft (UA) flights in controlled airspace, GAT and cross-border flights.

The working group has worked very successfully for nearly 10 years, but now it seemed necessary to change its structure to facilitate a wider integration, optimise functionality and increase effectiveness. On 22 February 2010, the UAV DACH working group was transformed into a legal non-profit German association (e.V. - eingetragener Verein). The name of the association is "UAV DACH e.V."

The members and guests pay a membership fee based on their annual turnovers. The association is registered in Bonn, Germany.

UAV DACH Members

The working group started with five companies and recently has grown to 22 members and a permanent guest: ADSE, Ascending Technologie GmbH, Autoflug GmbH, Carl Zeiss Optronics GmbH, DFS Deutsche Flugsicherung, Diehl BGT Defence, DLR, EADS Deutschland, Military Air Systems, Elektroniksystem und Logistik GmbH (ESG), EMT - Ingenieurgesellschaft Dipl.-Ing. Hartmut Euer mbH, Fraunhofer FKIE and FHR, Hochschule München, IABG mbH, NLR, OHB System AG, Rheinmetall Defence Electronics GmbH Flight Simulation, RUAG Aviation, Schiebel Elektronische Geräte, Stemme UMS Umwelt-Messflug-Systeme GmbH, Swiss-UAV AG, Telefunken RACOMS GmbH & Co.KG, TU Braunschweig, Institut für Luft- und Raumfahrtssysteme.

The work is done in the following subgroups:

- Certification and Qualification and Datalink

The group works within the following fields:

- Development of future airworthiness requirements for UAS as a function of UAS Autonomy;
- Contribution to European/NATO efforts and initiatives for certification of UAS;
- Close cooperation with the German Bundeswehr Technical and Airworthiness Center for Aircraft (WTD 61);
- Discussion and promotion of spectrum requirements for communication, command & control of UAS.

- Sense / Detect & Avoid (S&A)

For several years this subgroup has collected, analysed and assessed information and data available in the field of S&A capabilities for UAS applications such as existing regulations with relevance to S&A, S&A functionalities/technologies and related issues like Human Factors and Data Link. Members of this subgroup participate in different international working groups such as EUROCAEWG 73 and NATO NIAG SG 134 to actively support the process of creating S&A regulations for UAS.

- German Aviation Law

This group consists of members of the German MoD, Bundeswehr Technical and Airworthiness Center for Aircraft (WTD 61), German BMI (federal police), VC (Cockpit association), German CAA (LBA), Technical University Berlin (lead), BDLI (German Aerospace Industries Association) and

industry. The group will propose adaptations of the German air law in reference to UAS and present this to the German Ministry of Transportation (MOT, BMVBS).

Starting in 2000 the following subjects have been worked on by task forces:

- a. Examination of regulations relevant under aviation law;
- b. Participation in the JAA/EUROCONTROL task force on UAS;
- c. Licensing of civil UAS pilots, sense and avoid tests and comments to the USAR as well as FINAS papers and others.

From 2005 to 2009, comments were formulated on: certification policy of EASA, A-NPA-16-2005 and RSP in 2006, EUROCONTROL UAV OAT, Preparing WRC 2007/11 in respect to the UAS-Datalink for command and control, Support of NATO-FINAS (Flight in non-segregated Airspace), Cooperation with the UAS Germany (MoT, DLR, DFS) and BDLI (German Aerospace Industries Association), LTF 1550 (Special Regulations for Airworthiness Verification of Unmanned) and Conferences at Airtex UAV World in Frankfurt/Main and the ILA 2008 in Berlin.

Upcoming activities in 2010

UAV DACH and/or its members have identified the following prerequisites for future civil use of UAS:

- Allocation of adequate frequency spectrum for command and control;
- Establishment of feasible certification routes for UAS manufacturers;
- Development of procedures for integration of UAS into civil airspace;
- Work in all the subgroups of EUROCAE WG 73;
- Work in EDA Qualification SG UAS;
- Work in MidCAS;
- Support ICAO UAS Study Group;
- Participation in EU supported INOUI project;
- Support the national preparation of WRC 2011;
- Lead of NATO NIAG Sense & Avoid Study group.

UAV DACH contributes to the German legislative process by supplying opinions and position papers to the German authorities, which will help to standardize the necessary safety standards for the national and pan-European use of civil unmanned aircraft systems.

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