

# JAPCC

## The Joint Air Power Competence Centre – ‘NATO’s Catalyst for the Improvement and Transformation of Joint Air and Space Power’



Joint Air Power  
Competence Centre

### JAPCC VISION

Be NATO’s catalyst for the improvement and transformation of Joint Air and Space Power; delivering effective solutions through independent thought and analysis.

### JAPCC MISSION

The JAPCC, as a team of multinational experts, is to provide key decision-makers effective solutions on Air and Space Power challenges, in order to safeguard NATO and the Nations’ interests.

### WHAT’S THE ORGANIZATION OF THE JAPCC?

Based on a Memorandum of Understanding (MoU), the JAPCC is sponsored by 16 NATO nations who provide a variety of experienced Subject Matter Experts (SMEs) from Air, Land and Maritime services. Through its multi-discipline organization, the JAPCC chooses the most suitable SMEs for the task and combines their knowledge and experience to fully contribute to transforming NATO’s A&S Power. More importantly, since the JAPCC is not constrained by the need for full consensus or by political expediency, it can offer the best military advice across the spectrum of A&S Power to NATO HQs and national policy making bodies.

### HOW DOES THE JAPCC ACCOMPLISH ITS MISSION?

A&S Power SMEs, drawn from the Land, Maritime and Air components of the 16 MoU nations, conduct collaborative research into areas in which JAPCC assistance is requested by leveraging their independent thought and a global network of experts that reach across the military, academic and industrial spheres. The resulting analysis and solutions are disseminated via studies, reports, journal articles, seminars, panels and conferences.

### WHAT CAN THE JAPCC DO FOR YOU?

Our primary customers are NATO Headquarters (Allied Command Operations, Allied Command Transformation, NATO Joint Commands and Air Command) and sponsoring nations. However, the JAPCC does accept Requests for Support (RfS) from other sources via our RfS form, which can



be accessed through the JAPCC website. With numerous successful products and ever increasing connections with industry and academia, the JAPCC continues to build upon its reputation as NATO’s pre-eminent advocate for the development and enhancement of Joint A&S Power.

### RECURRING PROJECTS AND EVENTS

#### Annual Conference

The JAPCC Conference attracts senior representatives from the military industry and academia, with attendance of nearly 200 flag officers in the last three years. The next JAPCC Conference will be held on 10–12 October 2017.

#### JAPCC Journal

The Journal of the JAPCC is our flagship publication reflecting key A&S topics. Deliberately considering busy readers, the Journal publishes pertinent, short (1,500–2,000 words) articles from contributors across the Joint A&S Power community. The Journal (e-version) is available on the JAPCC website at [www.japcc.org/publications](http://www.japcc.org/publications).

#### NATO Doctrine and Working Groups

The JAPCC is active across the spectrum of Joint Air and Space Power to ensure NATO doctrine is updated and provides subject matter expertise to numerous NATO Working Groups and Committees. As examples, AJP 3.3 Allied Joint Doctrine for Air and Space Operations and ATP 49G Use of Helicopters in Land Operations are both managed at the JAPCC, as are numerous others.

### RECENTLY PUBLISHED STUDIES AND REPORTS

#### Alliance Airborne Anti-Submarine Warfare

Following a Request for Support from Allied Maritime Command (MARCOM), the JAPCC completed this study to investigate the current Maritime Air support capability for Anti-Submarine Warfare (ASW). The aim of this project is to define the current challenges experienced by ASW-capable air platforms in both today’s operational environment and in a range of possible future environments assessing whether the Alliance has a capability shortfall in the ASW mission area.

## Future Unmanned System Technologies

Technological development with regard to unmanned system automation will continue to evolve quickly and may reach a level at which direct human supervision is technically no longer required. This study provides NATO and national key decision-makers with relevant information regarding the legal and ethical implications when introducing highly automated or autonomous capabilities to their military inventories.

## NATO/EU Air Transport, Training, Exercises and Interoperability

This project is a follow on and update to our 2011 study. First, we intend to report which of our solutions/initiatives from the 2011 study have been initiated or completed. Then, we will re-examine the feasibility of the remaining dormant proposed solutions, identify any additional critical problems, and finally attempt to stimulate NATO to adopt the best multinational initiatives which can improve the standardization and interoperability of AT among NATO nations. This study will primarily focus on training, exercises and interoperability.

## ONGOING STUDIES

### Joint Air Power Following the 2016 Warsaw Summit

The overarching aim is to provide a coherent set of most pressing strategic priorities in the field of future generic Joint Air Power capabilities and competences as an input to the development of the Alliance Joint Air Power Strategy and as an input to the upcoming NATO Summit in Brussels in May 2017.

### NATO Helicopter Under-Slung Load (USL) Certification

The NATO Helicopter Inter-Service Working Group (HISWG) consist of three panels and is custodian of several helicopters STANAGS. The Helicopter Under-Slung Load Equipment (HUSLE) panel is the subject matter expert group that discusses USL standardization within NATO. The HUSLE panel is custodian of STANAG 2445 'Criteria for the Clearance of Helicopter Under-Slung Load Equipment

and Under-Slung Loads'. This STANAG defines the minimum criteria for the clearance, rigging and lifting of helicopter under-slung loads and increases interoperability.

### Air Warfare Communication in a Networked Environment

A highly evolved and mature C2 network will enable forms of self-organization/synchronization of the cooperative players/elements (not necessarily equal or equivalent) that interact throughout the battlespace. This more advanced C2 network will permit new forms of information transfer among different platforms, most notably 5<sup>th</sup> Generation aircraft, that display information from different sensors and employ different weapons.

### Command and Control of a Space Surveillance and Tracking (SST) Network

A multinational network of SST sensors to populate a database of spatial debris and manmade objects can only be effective if correctly managed and supported by unrestricted data sharing and optimized survey and tracking campaigns. To task the SST network, an effective and unambiguous Command and Control chain is required. Based on an analysis of the various Command and Control models, this project will point out advantages and drawbacks of every identified model, provide recommendations and finally identify the way-ahead for the development of an efficient C2 model for a multinational SST network.

**All JAPCC publications are available to download from our website [www.japcc.org/publications](http://www.japcc.org/publications).**



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about NATO's Centre  
of Excellence for  
Joint Air & Space Power

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