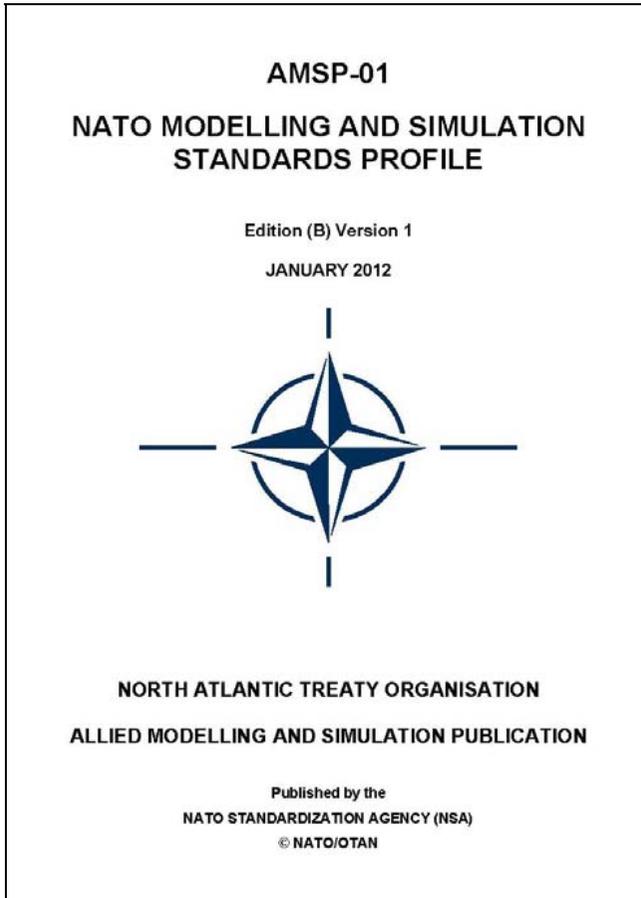


The AMSP-01 document currently includes more than 40 Standards that are relevant to the M&S domain.

Each of the identified Standards is briefly described according to a metadata template that includes: the Standard Title, Identifier, Version, Abstract Description, Indication of Maturity, Limitations, Availability and several other key parameters.



The AMSP-01 document is publicly available on the NATO website:  
[http://nsa.nato.int/nsa/zpublic/ap/amsp-01\(B\).pdf](http://nsa.nato.int/nsa/zpublic/ap/amsp-01(B).pdf)

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NORTH ATLANTIC TREATY ORGANISATION  
SCIENCE AND TECHNOLOGY ORGANISATION

## Allied M&S Publication AMSP-01

## NATO M&S Standards Profile

Prepared by

## Modelling & Simulation Standards Subgroup (MS3) of the NATO M&S Group (NMSG)



## Modelling & Simulation Standards

The NATO Modelling & Simulation Master Plan (MSMP) calls for the application of Modelling and Simulation (M&S) for cost effective defence planning, training, exercises, support to operations, research, technology development and armament acquisition (modernisation).

Common standards are essential enablers for simulation interoperability and re-use. This includes technical architecture standards (e.g. HLA - the High Level Architecture), data interchange standards (e.g. SEDRIS - Synthetic Environment Data Representation and Interchange Specification) and best practices (e.g. Distributed Simulation Engineering and Exploitation Process - DSEEP).

The NATO Modelling and Simulation Group (NMSG) was officially nominated as the Delegated Tasking Authority for M&S standardisation in 2003. NMSG has developed NATO Standardisation Agreements (STANAG), e.g. HLA and SEDRIS. However, the need was identified to provide and maintain an overview or ‘Standards Profile’ of existing or emerging standards for M&S.

## The Modelling & Simulation Standards Subgroup (MS3)

In cooperation with the NATO Standardization Agency (NSA), the NMSG has determined that an Allied Publication (AP) is the most appropriate NATO standardisation document form for a ‘Standards Profile’ in Modelling & Simulation.

In May 2007, the NMSG approved the establishment of the M&S Standards Subgroup (MS3), which is tasked to create and maintain the NATO M&S Standards Profile. The Standards Profile is published under the title AMSP-01 (Allied M&S Publication).

## The Main Objectives of MS3

- **Establish a common understanding** of the terminology associated with M&S standardisation.
- **Produce and maintain the AMSP-01** “NATO M&S Standards Profile”, a list of existing standards applicable to M&S development, integration and employment. The profile also includes promising emerging standards.
- **Provide recommendations** to NMSG and Standards Developing Organisations (SDOs) for new standardisation priorities based on the identified areas where additional standards are needed.
- **Develop policy and procedures** for the MS3 activity.

## Partnerships

The MS3 co-ordinates its activities with Standards Developing Organisations, which include SISO (Simulation Interoperability Standards Organization), IEEE (Institute of Electrical and Electronics Engineers), and ISO (International Standard Organization) and corporate associations (e.g. National Training and Simulation Association (NTSA) and European Training and Simulation Association (ETSA)).

## The Allied M&S Publication 01 (AMSP-01)

The second release of the AMSP-01 document was promulgated in January 2012. The MS3 group will provide a periodic update of the document.

The M&S standards have been categorised as shown below:

- **M&S methodology, Architectures and Processes**
- **Conceptual Modelling and Scenarios**
- **M&S Interoperability**
- **Information Exchange Data Model**
- **Software Engineering**
- **Representation of Natural and Human-Made Environment**
- **Simulation Analysis and Evaluation**
- **M&S Miscellaneous**

