



The Wassenaar Arrangement Munitions List

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ATT sub-working group on article 5
Geneva. 30 May 2018



The Wassenaar Arrangement provides for a technical forum to its Participating States

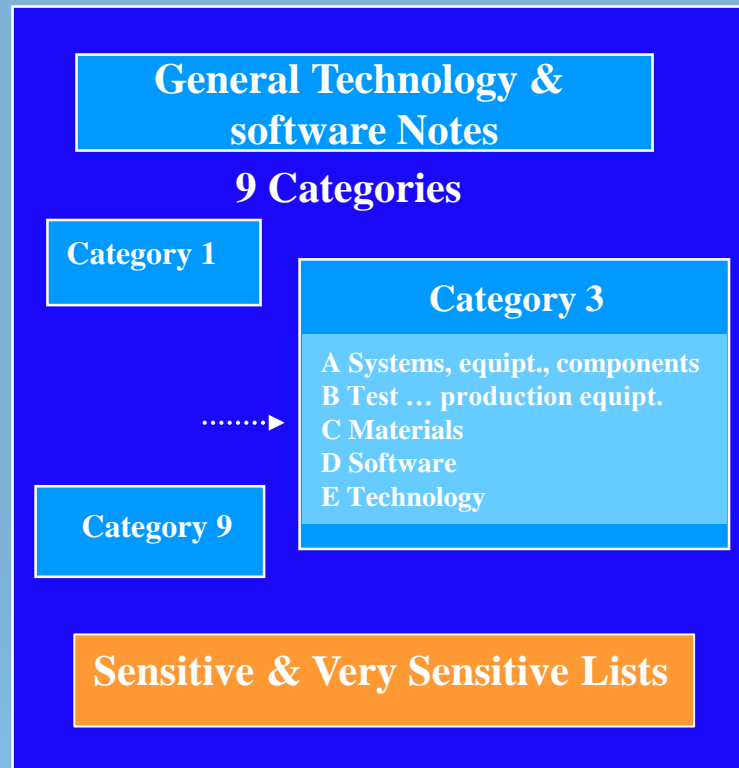
Establishing and maintaining the
Control Lists is WA core business



General structure of Dual Use and Munitions Lists

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ML basic breakdown

- ML1 to ML 4: small arms, light and heavy weapons, ammunition.



ML basic breakdown

- ML 5: Fire control systems, radars and other detection, target tracking or designation, warning and countermeasures



ML basic breakdown

- ML 6, ML 9, ML 10:
 - Ground vehicles
 - Vessels (surface or underwater)
 - Aircraft (manned or unmanned)



ML basic breakdown

- ML7: Chemical, biological, radioactive agents detection, decontamination...



- ML8: Explosives and energetic materials



ML basic breakdown

- ML 11: Electronic equipment.



ML basic breakdown

- ML 12: High Velocity kinetic energy weapon systems.



$$E_c = \frac{1}{2} m \cdot v^2$$

joule (J) (kg) (m/s)

ML basic breakdown

- ML13 armoured or protective equipment



ML basic breakdown

➤ ML 14: Military training and simulators



ML basic breakdown

- ML 16: Forgings, castings, unfinished products

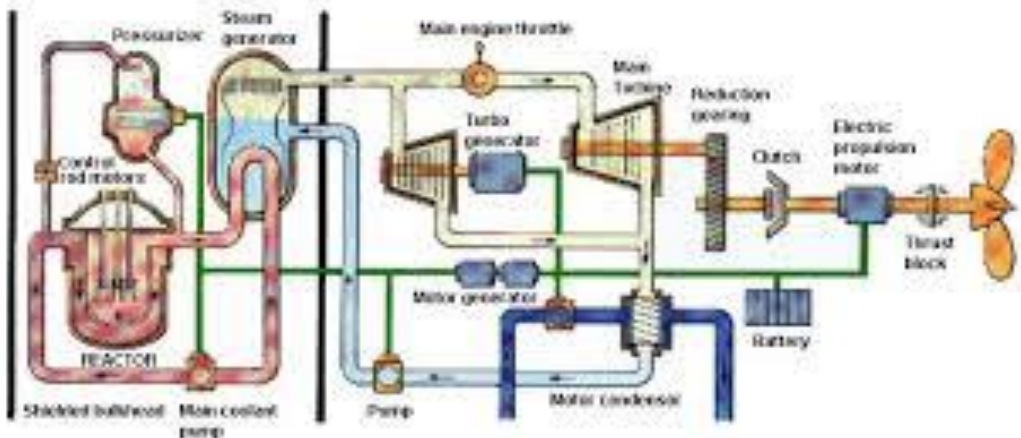


ML basic breakdown

➤ ML 17: Miscellaneous equipment...



Pressurized-water Naval Nuclear Propulsion System



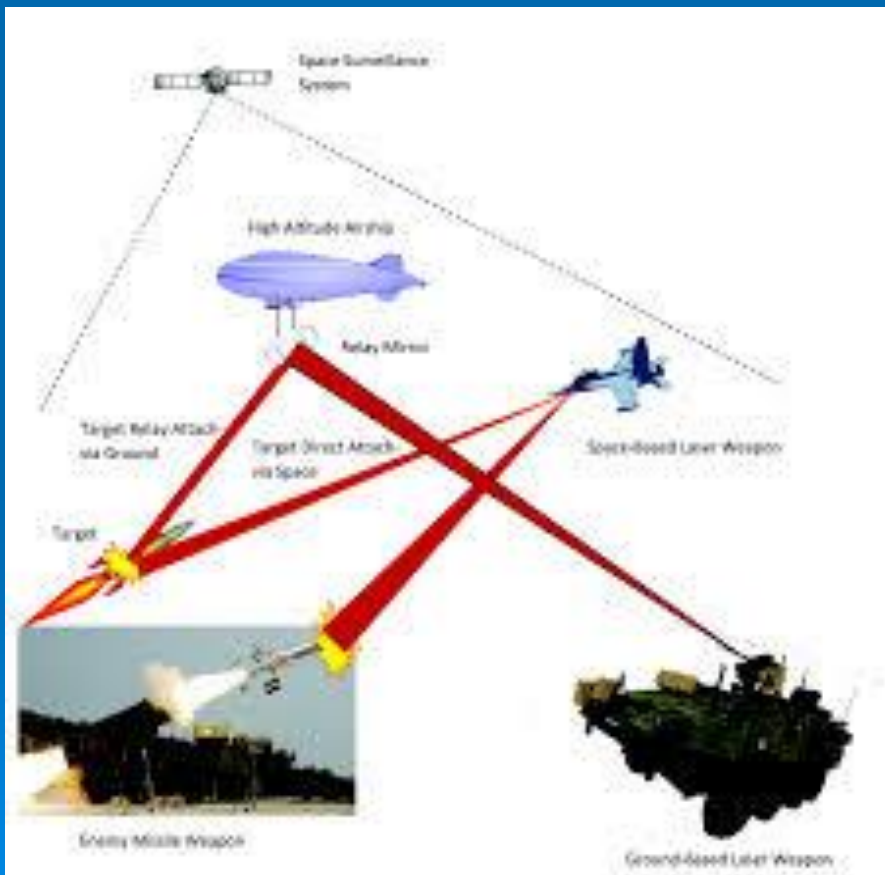
ML basic breakdown

➤ ML 18: Production equipment



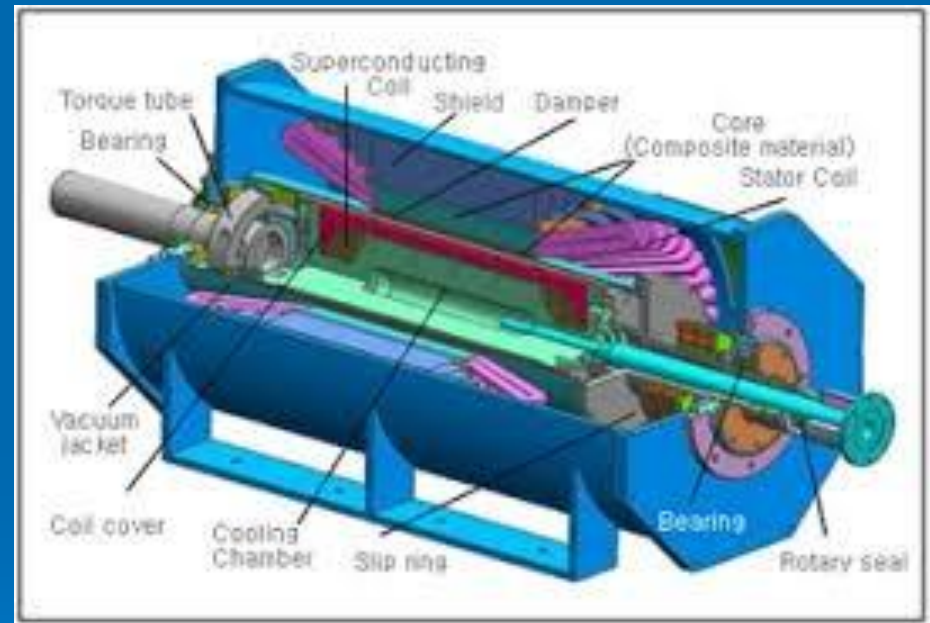
ML basic breakdown

➤ ML 19: Directed Energy Weapons



ML basic breakdown

- ML 20: Cryogenic and superconductive equipment



ML basic breakdown

- ML 21: Software “specially designed for...”



- ML 22: Technology “required for...”



To summarize



**Only one selection criterion:
the military characteristics.**

Concept of

“Specially designed or modified for military use”



“Specially designed or modified for military use”

➤ When assessing a military product, experts must take into consideration:

- Specification by a military authority
- Specific design to respond to battlefield requirements and environment
- Military performance, not necessarily higher than civil performance, but specific to...

Description in the control text is often simple, but assessment may be complex.

The Lists Review

National Proposals from the 42 PS justified against the criteria are submitted prior to a deadline (February)



Delegations from the 42 PS come to Vienna 3 times/year for Technical discussions



New items, amendments or deletions are agreed by experts in October and validated by the Plenary in December. Lists are accordingly changed and published on the WA Website.

Maintaining the WA Control Lists

2017 Lists Review:

- 104 national proposals, 165 further technical papers discussed in the Experts Group
- 90 different topics; ca. 80% agreed

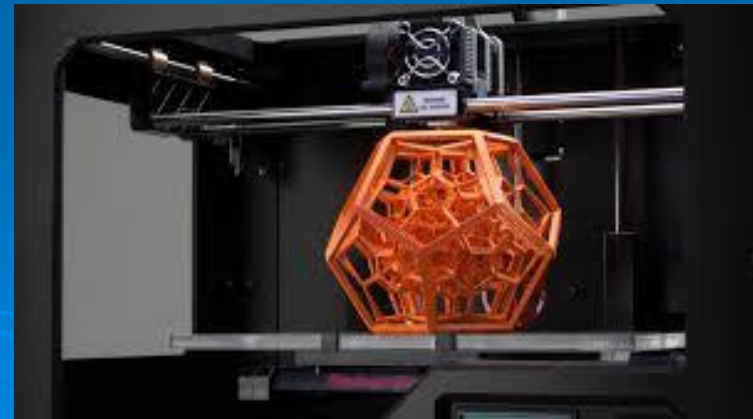
2018 Lists Review:

- 81 national proposals (17 on ML), 7 non-papers are being discussed in the Experts Group

Ongoing Issues of particular concern related to military threats

Since 2012, WA experts have been focusing
on some recurring issues of concern:

- Forensics equipment
- Cyber threat - cyber warfare
- Drone (UAVs) jamming
- Additive manufacturing
(3D Printing)



To be kept in mind:

- The WA Control Lists provide the 42 PS with a technical tool, then it is the sole responsibility of the PS to apply and enforce the Lists at national level. **ML is the basis for the EU Military List.**
- WA experts must keep in close contact with technical developments at academic and industry level in order to:
 - Always be able to assess the evolution of risks and detect technologies of security concern;
 - Take into account the realities of the legitimate civil market.



QUESTIONS