

SUMMARY OF CHANGES

LIST OF DUAL-USE GOODS & TECHNOLOGIES AND MUNITIONS LIST

as of 4 December 2013

The following table outlines the changes made to the 2012 List of Dual-Use Goods & Technologies and Munitions List ([WA-LIST \(12\) 1](#)). The table should be used only as a reference. The changes include all amendments approved by the WA Plenary as of 4 December 2013.

Category/Item	Comments
GTN	
	- «and» replaced by «or» in the second paragraph
Category 1	
1.A.4.	- new Technical Note 2 - existing Technical Note renumbered 1
1.B.1.b.	- local definition for 'tape-laying machines' (single quotes and new Technical Note) - «or sheets» deleted
1.B.1.g.	- local definition for 'tow-placement machines' (single quotes and new Technical Note) - «or sheets» deleted
1.B.1., Technical Notes	- new Technical Note 2 for 'filament band' - existing Technical Note numbered 1
1.C.8.a.3.	- 'glass transition temperature (T _g)' added
1.C.8., Technical Notes	- new Technical Note 2 - existing Technical Note numbered 1 and amended
1.C.10.b., Technical Note	- deleted
1.C.10.c., Note a.	- single quotes replaced by double quotes around "specific modulus" (global definition) – editorial correction
1.C.10.a., b. and c.	- new Technical Notes 1 and 2 placed at the end of 1.C.10.c.
1.C.10.e.2.a.	- comma added after «resin or pitch» – editorial correction
Annex – List of "Explosives"	- in para. 32.d. - square brackets replaced by parenthesis around (bis-dinitrotriazole) – editorial correction - para. 34 deleted - new paras 44-48
Category 2	
2.B. Technical Note 5.f.	- amended
2.B.6.b.1.b.	- amended, including new sub-paras a. and b. under paragraph 1 - new Technical Note for 'full operating range'
2.B.6.b.1.c.2.b.	- amended, including addition of «at any point within a measuring range»
2.B.6.b.2.	- "angular position deviation" replaced by angular position "accuracy" - definition for "angular position deviation" deleted
2.D.2., Notes 1 and 3	- «machine tools» replaced by «items»

Category/Item	Comments
Category 3	
3.A.1.a., Note 2	- addition of "Three dimensional integrated circuits" and new definition
3.A.1.a.5.a.1.	- parameter changed from 500 million to 1 billion words per second
3.A.1.b.	- new Technical Note for peak saturated power output
3.A.1.b.2.	- entry rewritten
3.A.1.b.2., Note 2	- reference corrected to read 3.A.1.b.2.h. (instead of f.) - «average output power» replaced by «peak saturated power output»
3.A.1.b.3.	- entry rewritten - new Note 2 - existing Note renumbered 1 and «average output power» replaced by «peak saturated power output»
3.A.1.b.4.	- entry rewritten
3.A.1.b.4., Note 2	- «average output power» replaced by «peak saturated power output»
3.A.1.e.2.	- Nota Bene added referring to the Munitions List
3.A.1.h., Note 3	- comma added after 'modules' – editorial correction
3.A.2.	- «and accessories therefor» deleted
3.A.2.a.	- «oscilloscopes» added - «specially designed test tape therefor» deleted
3.A.2.a.1., 2., 3. and 4.	- entries deleted
3.A.2.a.6.	- entry amended, including para. a. - new Technical Note
3.A.2.a.7.	- new entry for real-time oscilloscopes, including a new Note
3.A.2.d.1.	- «pulses» replaced by «pulse-modulated signals»
3.A.2.d., Technical Notes at the end of the entry	- Technical Note 2 amended
3.C.5.	- «semiconductor» added before "substrates"
3.E.2.b.	- parameter changed from two to four
Category 4	
4.A.3.b.	- parameter changed from 3.0 to 8.0 Weighted TeraFLOPS
4.A.5.	- new entry for "intrusion software" and new definition
4.D.1.b.1.	- parameter changed from 0.25 to 0.60 Weighted TeraFLOPS
4.D.4.	- new entry for "intrusion software" and new definition
4.E.1.b.1.	- parameter changed from 0.25 to 0.60 Weighted TeraFLOPS
4.E.1.c.	- new entry for "intrusion software" and new definition
Category 5 – Part 1	
5.A.1.b.1.d.	- comma added after «light-emitting diodes (LEDs)» - editorial correction
5.A.1.b.5.b.	- "frequency switching time" replaced by 'channel switching time' - new Technical Note for 'channel switching time'
5.A.1.b.5.d.	- single quote before «signals» deleted – editorial correction
5.A.1.j.	- new entry, including a Note and Technical Note
5.E.1.d.	- entry rewritten – consequential change as a result of changes to Category 3 (3.A.1.b.2.)

Category/Item	Comments
Category 5 – Part 2	
Note 3 – Cryptography Note, para. b.	- entry amended including addition of «or 'executable software'» after «component» in the chapeau and in paras. 1 to 4 - new Technical Note for 'executable software' - new decontrol Note
Technical Note after Note 4	- Technical Note referring to parity bits has been moved to below 5.A.2.a.1.a.
5.A.2., Nota Bene	- N.B. referring to GNSS receiving equipment has been amended as a result of changes made to Category 7 (7.D.5. and 7.E.1.)
5.A.2.a.1., Technical Notes	- Technical Note 3 now included as a Note under the definition for "Cryptography"
5.A.2.a.1., Note	- deleted
5.A.2.a.1.a.	- addition of Technical Note referring to parity bits (moved from below Note 4)
5.A.2.a.9.	- «or perform» added after «to use»
5.A.2., Decontrol Note	- new para. k
Category 6	
6.A.1.a.1.c.	- new Note 3
6.A.1.a.1.e.	- addition to the end of the chapeau for acoustic arrays
6.A.1.a.2.a.3.	- new sub-paras d. and e.
6.A.1.a.2.b.	- new sub-para. 8
6.A.1.a.2.e.	- new sub-para. 3
6.A.1.a.2.g.	- new entry, including a Note and Technical Notes
6.A.5., Note 2	- single quotes placed around 'non-repetitive pulsed' – editorial correction - addition of a Technical Note which had previously been a Note under 6.A.5.d.6.
6.A.5.a.6.b.	- new Note 2, including a Technical Note - existing Note numbered 1
6.A.5.b.4.	- new paras. a. and b. - existing paras. a. and b. renumbered 1 and 2
6.A.5.b.5.	- new para. a. - existing para. a. relettered b. and amended to include «equal to or exceeding 1 ps» - existing para. b. relettered c.
6.A.5.b.6.	- new para. a. - existing para. a. relettered b. and amended to include «equal to or exceeding 1 ps» - existing paras. b. and c. relettered c. and d.
6.A.5.d.6.	- Note changed to a Technical Note and moved under Note 2 to 6.A.5.
6.A.7.a.; 6.A.7.b.1. and 2.; 6.B.7.	- capital G in μ Gal and mGal – editorial correction
6.A.7.b.2.	- local definition for 'time-to-steady-state registration' (single quotes and a new Technical Note)
6.A.8.k.2.	- «compressed» added before pulse width - new decontrol Note
6.A.8.l.1., Note	- «or harbour» deleted before radar - local definition for 'marine radar' (single quotes)

Category/Item	Comments
Category 6 cont.	
6.A.8.1., Note	- Note is amended to refer to 6.A.8.1. instead of 6.A.8.1.4. - «marine traffic control» replaced by 'vessel traffic services' (local definition)
6.A.8.	- new Technical Notes 1 and 2 for 'marine radar' and 'vessel traffic service'
Category 7	
7.A.2.a.1.b. Note and 7.A.2.a.2.b. Note	- global definition for "spinning mass gyros" (double quotes) - local definition for 'spinning mass gyros' deleted (Technical Note)
7.A.2.a.2.a.	- parameter changed from 40 to 4 degrees per hour
7.A.2.a.2.b.	- parameter changed from 0.2 to 0.1 degree per square root hour
7.A.3.	- entry entirely rewritten
7.D.3.c.	- entry deleted - definition for "expert systems" also deleted
7.D.4.	- reference in chapeau expanded to 7.E.4.a.1. to 6.
7.D.5.	- new entry
7.E.1.	- list of references expanded to include 7.D.5. - new Note
7.E.4.b.6.	- entry deleted, including Nota Bene
Category 8	
8.A.2.i.2.	- «or by using a dedicated computer» deleted from entry - Technical Note amended
8.A.2.q.	- new Nota Bene
Category 9	
9.A.1.a.	- new Note 2 - existing Note numbered 1
9.A.10.a.	- comma added after «intermetallic reinforced materials» – editorial correction
Sensitive List	
3.D.1. and 3.E.1.	- reference to 3.B. deleted – editorial correction
4.D.1. and 4.E.1.	- parameter changed from 0.5 to 1.0 Weighted TeraFLOPS
6.A.2.a.3., Note 6.a.	- spelling of aluminium modified – editorial change
7.D.3.c.	- entry deleted
7.D.4.a. to d. and g.	- new entry
Very Sensitive List	
	- no change
Munitions List	
ML1.a., Note	- new para. d.
ML1.b.2.	- new decontrol Note
ML3., Note 2	- amended and expanded into paras. a. to d.
ML7.c.2.	- hyphen added before «aminoethyl alkyl» - editorial issue - «O» added before «-2-di-isopropylaminoethyl»- editorial issue
ML7.i.1.	- comma added after ML7.b. and addition of «and» - editorial
ML8.	- entry largely rewritten

Category/Item	Comments
ML cont.	
ML12, Note 1.b.	- parenthetical example added after «energy storage» - new Nota Bene
ML17.a.	- new Nota Bene
ML22.a.	- para. a. amended to replace "use" with other terms - paras. b.3. and b.4. deleted and new Nota Benes added - Note 1 amended to replace "use" with other terms - «and» replaced by «or» in Note 2.a.
Definitions	
"Angular position deviation"	- definition deleted
"Cryptography"	- new Note added to definition
"Expert systems"	- definition deleted
"Frequency switching time"	- reference to Cat 5P1 deleted
"Intrusion software"	- new definition
"Measurement uncertainty"	- reference to VDI/VDE 2617 deleted
"Space-qualified"	- reference to Cat 7 included in the definition
"Spinning mass gyros"	- new definition
"Three dimensional integrated circuit"	- new definition
Acronyms and Abbreviations	
YAG	- spelling of aluminium modified
SOU's and Validity Notes	
6.A.5.d.1.d.1.d.	- Validity Note deleted
ML8.c.11.b.	- new Validity Note