

## SUMMARY OF CHANGES

### LIST OF DUAL-USE GOODS & TECHNOLOGIES AND MUNITIONS LIST

as of 12 December 2012

The following table outlines the changes made to the 2011 List of Dual-Use Goods & Technologies and Munitions List ([WA-LIST \(11\) 1 Corr.](#)). However, the table should be used only as a reference. The changes include all agreed Experts Group amendments as of 12 December 2012.

Category/Item	Comments
<b>GSN</b>	
	<ul style="list-style-type: none"> <li>- «either» replaced by «any of the following» in the chapeau</li> <li>- new para. 3 and new Note</li> <li>- reference to GSN replaces reference to Cat 9 in the definition for "object code"</li> </ul>
<b>Category 1</b>	
1.A.4.a.	<ul style="list-style-type: none"> <li>- Gas masks replaced by Full face masks</li> <li>- new Technical Note</li> </ul>
1.A.4. Note	- Occupational health or safety added before «equipment» in para. b.
1.C.1.b.	- new decontrol Note
1.C.1.c.	- new decontrol Note
<b>Category 2</b>	
2.B.1. chapeau and 2.B.1.f.	- «and specially designed components» deleted
2.B.1., Note 2	- new para. e. added
2.B.1.a.1. and 2.B.1.b.1.a.	- positioning accuracy parameter changed from 4.5 to 3.0 µm
2.B.1.b.2.	- entry expanded to include sub-paras. a. to d. plus a new Note and Technical Note for 'parallel mechanism machine tools'
2.B.1.b.3.	- «any» linear axis replaced by «one or more» linear axis
2.B.6.b.1.	- new Note
2.B.6.c.	- entry amended
2.D.1.	<ul style="list-style-type: none"> <li>- entry expanded into paras. a. and b.</li> <li>- para. a. amended to delete reference to "use"</li> <li>- new decontrol Note</li> </ul>
2.D.2.	<ul style="list-style-type: none"> <li>- reference to 2.D.3. added to Note 2</li> <li>- new Note 3</li> </ul>
2.D.3.	- new entry

Category/Item	Comments
<b>Category 3</b>	
3.A.1.a.7.	- paras. a. and b. amended
3.A.1.a.7., Technical Notes	- new para. 3
3.A.1.b.2.	- paras. d., e. and f. amended - new paras. g. and h.
3.A.1.b.4.f.3.	- «either» added before «length d»
3.A.1.b.4.	- new Note 3
3.A.1.b.10.	- «for» replaced by «anywhere within the range of» in paras. a. and b.
3.A.1.b.11.	- parameters amended in sub-paras. a., b., f. and g.
3.A.2.c.	- 70 GHz replaced by 75 GHz in paras. 2 and 3
3.A.2.c.4.	- entry amended, including para. a. and new para. b. plus new Technical Notes 1 and 2 - "dynamic signal analysers" replaced by "signal analysers" in the chapeau and the Note
3.A.2.c.5.	- new entry
3.A.2.d.	- 70 GHz replaced by 75 GHz in paras. 1 and 2
3.A.2.d.3.	- para. a. deleted - 3.2 GHz replaced by 4.8 GHz in para. b. - 70 GHz replaced by 75 GHz in para. f.
3.A.2.d.4.	- «for» replaced by «anywhere within the range of» in paras. a. and b. - 70 GHz replaced by 75 GHz in paras. a. and b.
3.A.2.d.5.	- 70 GHz replaced by 75 GHz
3.A.2.e.	- 70 GHz replaced by 75 GHz in para. 1 - new paras. 2 and 3 plus new Technical Note - former para. 2 renumbered para. 4 and parameter changed from 70 to 110 GHz.
3.A.2.f.	- parameter changed from 70 to 110 GHz.
3.B.1.a.2.	- entry amended
3.B.1.b.	- para. 1 deleted - para. 2 amended - new para. 5
3.B.1.e.1.	- reference to 3.B.1.d. deleted
3.B.1.h.	- entry expanded to include new paras. 1 and 2 - reference to Cat 3 added to the definition of "Substrate blanks"
3.C.2.	- para. a. amended, including sub-paras. 1 and 2 - para. c. deleted - «including silylated resists» deleted in para. d. - Technical Note referring to silylation techniques deleted
<b>Category 4</b>	
4.D.1.a.	- entry amended to delete reference to "use"

Category/Item	Comments
<b>Category 5 – Part 1</b>	
5.A.1.b.1.d.	- punctuation change at the end of the entry
5.A.1.f.	- chapeau amended - new paras. 1, 2, 3 and 4 plus new Note - existing paras. 1, 2 and 3 relettered a., b. and c. - existing Nota Bene amended - new Nota Bene 2
5.A.1.h.	- new chapeau - entry expanded into para. 1 and new para. 2 - Nota Bene amended
5.A.1.i.	- entry deleted - Nota Bene amended
5.B.1.a.	- entry amended to delete reference to "use"
5.E.1.d.	- paras. 4, 5 and 6 amended - new paras. 7 and 8
<b>Category 5 – Part 2</b>	
Note 3, Cryptography Note	- chapeau amended - new para. a.; subsequent paras. renumbered or relettered - new para. b. for Hardware components - new Note to the Cryptography Note - new Statement of Understanding for the Note to the Crypto Note
5.A.2.a.1.	- «or the execution of copy-protected "software"» added - Technical Note 1 amended
5.A.2.a.2.	- new Note
5.A.2.a.7.	- entry amended - Validity Note extended to 2015
5.A.2., Note g.	- reference to «paras. b. to e. of the Cryptography Note» replaced with «paras. a.2. to a.5. of the Cryptography Note» (consequential change)
5.A.2., Note i.	- Note amended - para. b. of the definition for "Personal area network" amended
5.E.2.	- new Note
<b>Category 6</b>	
6.A.1.a.1.a.2.	- «all» replaced by «any» in chapeau - new Technical Note - former paras. a. and b. renumbered 1 and 2 with a new chapeau - «assuming 100% coverage» added to Technical Note for 'sounding rate' - new para. b.
6.A.1.a.1.a.3.	- para. b. amended - new para. c.
6.A.1.a.1.a.3., Technical Notes	- «maximum» deleted before «sonar range» in paras. 1 and 2 - «at that range» added to end of para. 1
6.A.2.a.3.d.1.b.	- entry amended

<b>Category/Item</b>	<b>Comments</b>
<b>Category 6 cont.</b>	
6.A.2.a.3.g.3. 6.A.2.c.3. 6.A.2.d.3. 6.A.5.f.4.	- punctuation changed at the end of these entries
6.A.5.a.2. and 3. 6.A.5.b.2. and 3.	- 520 nm changed to 510 nm
6.A.5.a.6.a.	- entry amended, including deletion of paras. 1 and 2
6.C.4.b.	- entry amended including new paras. 4 and 5
6.C.4.c.	- entry amended including new para. 2
6.C.5.b.	- entry deleted
<b>Category 7</b>	
7.A.1.a.2.	- parameter changed to 1,250 micro g in paras. a and b.
7.A.3., Note 2	- Wassenaar Arrangement added before Participating State
7.D.3.d.	- entry deleted - new Nota Bene for flight control "source code"
7.D.4.	- new entry to replace 7.D.3.d. and new Note
7.E.1.	- reference to 7.D.1., 7.D.2. and 7.D.3. added to entry
7.E.4.b.1.	- entry amended
7.E.4.b.2.	- entry deleted
7.E.4.b.3.	- entry and Note amended
7.E.4.b.4.	- entry amended and new Note
7.E.4.b.	- new Note
<b>Category 8</b>	
	- no change
<b>Category 9</b>	
9.A.1.a., Note	- Wassenaar Arrangement added before Participating State in paras. a. and b.
9.E.3.a.5.	- entry amended - new Technical Note 1 (existing Technical Note numbered 2)
9.E.3.h.3.	- punctuation change at the end of the entry

Category/Item	Comments
<b>Sensitive List</b>	
2.D.1., 2.E.1. and 2.E.2.	- amended to reflect consequential changes resulting from agreement on the Dual-Use List
2.D.1.a.2. 2.D.1.b.2. 2.D.1.c. 2.D.1.d. 2.E.1.a.2. 2.E.1.b.2. 2.E.1.c. 2.E.1.d. 2.E.2.a.2. 2.E.2.b.2. 2.E.2.c. 2.E.2.d.	- punctuation changes
2.D.1.a.1. 2.D.1.b.1.a. 2.D.1.b.2. 2.D.1.b.3. 2.E.1.a.1. 2.E.1.b.1.a. 2.E.1.b.2. 2.E.1.b.3. 2.E.2.a.1. 2.E.2.b.1.a. 2.E.2.b.2. 2.E.2.b.3.	- «any» linear axis replaced with «one or more» linear axis (consequential changes resulting from changes to the Dual-Use List)
5.A.1.h.	- entry amended (consequential change)
5.B.1.a.	- entry amended to delete reference to "use" - «in» 5.A.1. replaced with «specified by» 5.A.1.
7.D.3.d.1. to 4. and 7.D.3.d.7.	- entry deleted
<b>Very Sensitive List</b>	
5.A.1.h.	- entry amended (consequential change)
<b>Munitions List</b>	
ML1.	- chapeau is unchanged but the rest of the entry is restructured and amended
ML2.a., Note 2	- Note amended, including new paras. d. and e. and new Nota Bene - former Note 3 is amended and is now para. f.
ML2.d.	- entry amended
ML6.b.1.	- entry amended, including paras. a. to d.
ML6., Note 3	- Note amended
ML8.c., Notes 1-5	- these Notes are now positioned under ML8.c.1., ML8.c.4. and ML8.c.5 respectively

<b>Category/Item</b>	<b>Comments</b>
<b>Munitions List cont.</b>	
ML8, Notes 5-7 at end of entry	- former Note 5 is deleted - former Note 6 is renumbered Note 1 and an asterisk has been added for clarity - former Note 7 is renumbered Note 2
ML10.	- paras. e., f. and g. are amended - Wassenaar Arrangement added before Participating State in Notes 1.c., 2.a. and 5.b.
ML11.	- "spacecraft" and components added to chapeau - specially designed components deleted from chapeau and added to paras. a. and b. - new para. c.
<b>Definitions</b>	
"Diffusion bonding"	- definition amended
"Dynamic signal analysers"	- definition deleted
"Frequency mask trigger"	- new definition
"Object code"	- reference to GSN replaces reference to Cat 9
"Personal area network"	- para. b. of definition amended
"Real-time bandwidth"	- definition amended
"Space-qualified"	- definition amended including a new Note - reference to Cat 8 deleted
"Substrate blanks"	- reference to Cat 3 added to definition
<b>SOUs and Validity Notes</b>	
CAT 5 Part 2 – new Note to the Cryptography Note	- new SOU for the Note to the Cryptography Note
5.A.2.a.7.	- Validity Note extended