

THE SCHEDULE OF THE STRATEGIC GOODS (CONTROL) ORDER 2009

PART II

DUAL-USE GOODS THE EXPORT, TRANSHIPMENT OR BRINGING IN
TRANSIT OF WHICH, AND TECHNOLOGY THE EXPORT OR
TRANSMISSION OF WHICH, REQUIRE A PERMIT

Division 2 – List of Dual-Use Goods

| <i>Product Code</i> | <i>Item Description</i> |
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| CATEGORY 4 – COMPUTERS | |
| | <p><u>Note 1</u> <i>Computers, related equipment and “software” performing telecommunications or “local area network” functions with the performance characteristics in Category 5, Part 1 (Telecommunications) shall also be treated as coming within that Category.</i></p> <p><u>Note 2</u> <i>Control units which directly interconnect the buses or channels of central processing units, “main storage” or disk controllers are not regarded as telecommunications equipment described in Category 5, Part 1 (Telecommunications).</i></p> <p><u>N.B.</u> <i>For “software” specially designed for packet switching, see Category Code 5D001.</i></p> <p><u>Note 3</u> <i>Computers, related equipment and “software” performing cryptographic, cryptanalytic, certifiable multi-level security or certifiable user isolation functions, or which limit electromagnetic compatibility (EMC), with the performance characteristics in Category 5, Part 2 (“Information Security”)) shall also be treated as coming within that Category.</i></p> |
| 4A | Systems, Equipment and Components |
| DL4A001 | <p>Electronic computers and related equipment, having any of the following characteristics, and “electronic assemblies” and specially designed components therefor:</p> <p><u>N.B.</u> <i>See also Category Code 4A101.</i></p> <p>a. Specially designed to have any of the following:</p> <p>1. Rated for operation at an ambient temperature below 228 K (–45°C)</p> |

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| | <p>or above 358 K (85°C); <u>or</u></p> <p><u>Note</u></p> <p><i>Category Code 4A001.a.1. does not apply to computers specially designed for civil automobile or railway train applications.</i></p> <p>2. Radiation hardened to exceed any of the following specifications:</p> <p>a. Total Dose 5×10^3 Gy (silicon);</p> <p>b. Dose Rate Upset 5×10^6 Gy (silicon)/s; <u>or</u></p> <p>c. Single Event Upset 1×10^{-7} Error/bit/day;</p> <hr/> <p>b. Having characteristics or performing functions exceeding the limits in Category 5, Part 2 (“Information Security”).</p> <p><u>Note</u></p> <p><i>Category Code 4A001.b. does not include electronic computers and related equipment when accompanying their user for the user’s personal use.</i></p> |
| DL4A003 | <p>“Digital computers”, “electronic assemblies”, and related equipment therefor, as follows, and specially designed components therefor:</p> <p><u>Note 1</u></p> <p><i>Category Code 4A003 includes the following:</i></p> <ul style="list-style-type: none"> — Vector processors; — Array processors; — Digital signal processors; — Logic processors; — Equipment designed for “image enhancement”; — Equipment designed for “signal processing”. <p><u>Note 2</u></p> <p><i>The control status of the “digital computers” and related equipment described in Category Code 4A003 is determined by the control status of other equipment or systems provided:</i></p> <p>a. <i>The “digital computers” or related equipment are essential for the operation of the other equipment or systems;</i></p> <p>b. <i>The “digital computers” or related equipment are not a “principal element” of the other equipment or systems; <u>and</u></i></p> <p><u>N.B.1</u></p> <p><i>The control status of “signal processing” or “image enhancement” equipment specially designed for other equipment with functions limited to those required for the other equipment is determined by the</i></p> |

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| | <p data-bbox="475 304 1385 371"><i>control status of the other equipment even if it exceeds the “principal element” criterion.</i></p> <p data-bbox="475 394 555 427"><u>N.B.2</u></p> <p data-bbox="475 450 1385 551"><i>For the control status of “digital computers” or related equipment for telecommunications equipment, see Category 5, Part 1 (Telecommunications).</i></p> <p data-bbox="437 573 1385 640"><i>c. The “technology” for the “digital computers” and related equipment is determined by Category Code 4E;</i></p> <p data-bbox="399 678 1002 712">a. Designed or modified for “fault tolerance”;</p> <p data-bbox="437 734 501 768"><u>Note</u></p> <p data-bbox="437 790 1385 891"><i>For the purposes of Category Code 4A003.a., “digital computers” and related equipment are not considered to be designed or modified for “fault tolerance” if they utilise any of the following:</i></p> <ol data-bbox="437 913 1385 1395" style="list-style-type: none"> <li data-bbox="437 913 1262 947"><i>1. Error detection or correction algorithms in “main storage”;</i> <li data-bbox="437 969 1385 1070"><i>2. The interconnection of two “digital computers” so that, if the active central processing unit fails, an idling but mirroring central processing unit can continue the system’s functioning;</i> <li data-bbox="437 1093 1385 1272"><i>3. The interconnection of two central processing units by data channels or by using shared storage to permit one central processing unit to perform other work until the second central processing unit fails, at which time the first central processing unit takes over in order to continue the system’s functioning; <u>or</u></i> <li data-bbox="437 1294 1385 1395"><i>4. The synchronisation of two central processing units by “software” so that one central processing unit recognises when the other central processing unit fails and recovers tasks from the failing unit.</i> <p data-bbox="399 1440 1385 1541">b. “Digital computers” having an “Adjusted Peak Performance” (“APP”) (please see Technical Note below on calculation of “APP”) exceeding 0.75 Weighted TeraFLOPS (WT);</p> <p data-bbox="399 1574 1385 1675">c. “Electronic assemblies” specially designed or modified for enhancing performance by aggregation of processors so that the “APP” of the aggregation exceeds the limit specified in Category Code 4A003.b.;</p> <p data-bbox="437 1697 517 1731"><u>Note 1</u></p> <p data-bbox="437 1753 1385 1966"><i>Category Code 4A003.c. includes only “electronic assemblies” and programmable interconnections not exceeding the limit specified in Category Code 4A003.b. when shipped as unintegrated “electronic assemblies”. It does not include “electronic assemblies” inherently limited by nature of their design for use as related equipment specified in Category Code 4A003.e.</i></p> <p data-bbox="437 1989 517 2022"><u>Note 2</u></p> |

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| | <p><i>Category Code 4A003.c. does not include “electronic assemblies” specially designed for a product or family of products whose maximum configuration does not exceed the limit specified in Category Code 4A003.b.</i></p> <p>d. Not used;</p> <p>e. Equipment performing analogue-to-digital conversions exceeding the limits specified in Category Code 3A001.a.5.;</p> <p>f. Not used;</p> <p>g. Equipment specially designed to provide external interconnection of “digital computers” or associated equipment which allows communications at data rates exceeding 1.25 Gbyte/s.</p> <p><u>Note</u></p> <p><i>Category Code 4A003.g. does not include internal interconnection equipment (e.g., backplanes and buses), passive interconnection equipment, “network access controllers” or “communications channel controllers”.</i></p> |
| DL4A004 | <p>Computers, as follows, and specially designed related equipment, “electronic assemblies” and components therefor:</p> <p>a. “Systolic array computers”;</p> <p>b. “Neural computers”;</p> <p>c. “Optical computers”.</p> |
| DL4A101 | <p>Analogue computers, “digital computers” or digital differential analysers, other than those specified in Category Code 4A001.a.1., which are ruggedised and designed or modified for use in space launch vehicles specified in Category Code 9A004 or sounding rockets specified in Category Code 9A104.</p> |
| DL4A102 | <p>“Hybrid computers” specially designed for modelling, simulation or design integration of space launch vehicles specified in Category Code 9A004 or sounding rockets specified in Category Code 9A104.</p> <p><u>Note</u></p> <p><i>Category Code 4A102 only extends to equipment supplied with “software” specified in Category Code 7D103 or 9D103.</i></p> |
| 4B | Test, Inspection and Production Equipment |
| | None. |

| <i>Product Code</i> | <i>Item Description</i> |
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| 4C | Materials |
| | None. |
| 4D | Software |
| | <p><u>Note</u></p> <p><i>For “software” for the “development”, “production”, or “use” of equipment described in other Categories, please see the appropriate Category. “Software” for equipment described in this Category is dealt with herein.</i></p> |
| DL4D001 | <p>“Software”, as follows:</p> <p>a. “Software” specially designed or modified for the “development”, “production” or “use” of equipment or “software” specified in Category Codes 4A001 to 4A004, or Category 4D;</p> <p>b. “Software”, other than that specified in Category Code 4D001.a., specially designed or modified for the “development” or “production” of equipment, as follows:</p> <ol style="list-style-type: none"> 1. “Digital computers” having an “Adjusted Peak Performance” (“APP”) exceeding 0.04 Weighted TeraFLOPS (WT); 2. “Electronic assemblies” specially designed or modified for enhancing performance by aggregation of processors so that the “APP” of the aggregation exceeds the limit in Category Code 4D001.b.1. <p><u>Note</u></p> <p><i>Please see Technical Note on calculation of “APP” immediately after Category Code 4E001.</i></p> |
| DL4D002 | “Software” specially designed or modified to support “technology” specified in Category 4E. |
| DL4D003 | Specific “software”, as follows: |
| | a. Operating system “software”, “software” development tools and compilers specially designed for “multi-data-stream processing” equipment, in “source code”; |
| | b. Not used; |
| | <p>c. “Software” having characteristics or performing functions exceeding the limits in Category 5, Part 2 (“Information Security”).</p> <p><u>Note</u></p> |

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| | <i>Category Code 4D003.c. does not include “software” when accompanying its user for the user’s personal use.</i> |
| 4E | Technology |
| DL4E001 | <p>a. “Technology” according to the General Technology Note, for the “development”, “production” or “use” of equipment or “software” specified in Category 4A or 4D.</p> <p>b. “Technology”, other than that specified in Category Code 4E001.a., specially designed or modified for the “development” or “production” of equipment, as follows:</p> <ol style="list-style-type: none"> 1. “Digital computers” having an “Adjusted Peak Performance” (“APP”) exceeding 0.04 Weighted TeraFLOPS (WT); 2. “Electronic assemblies” specially designed or modified for enhancing performance by aggregation of processors so that the “APP” of the aggregation exceeds the limit in Category Code 4E001.b.1. <p><u>Note</u> <i>Please see Technical Note on calculation of “APP” immediately after Category Code 4E001.</i></p> |