



Department
for Business
Innovation & Skills

OPEN GENERAL EXPORT LICENCE

International Non-Proliferation
Regime Decontrols: Dual-Use
Items

July 2014

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The Secretary of State, in exercise of powers conferred by Articles 9(2) and (4) of Council Regulation (EC) No. 428/2009 (“the Regulation”)(a) and Article 26 of the Export Control Order 2008 (“the Order”)(b), hereby grants the following Open General Export Licence:

Open General Export Licence (International Non-Proliferation Regime Decontrols: Dual-Use Items) dated 18 July 2014, granted by the Secretary of State.

Union Licence

1. This is general export authorisation under the terms of Article 9(2) of Council Regulation (EC) No. 428/2009. This authorisation, in accordance with Article 9(2) of that Regulation, is valid in all Member States of the European Union and is a Union Licence for the purposes of the Order.
2. Subject to the following provisions of this Licence, any item specified in the Schedule 1 hereto, may be exported from the United Kingdom, or from any other Member State, by any person established in the United Kingdom, to any destination in Schedule 2.

Exclusions

3. This Licence does not authorise the export of items:
- (1) if the exporter has been informed by a competent authority of the Member State where he is established that they are or may be intended, in their entirety or in part:
 - (a) for use in connection with the development, production, handling, operation, maintenance, storage, detection, identification or dissemination of chemical, biological or nuclear weapons, or other nuclear explosive devices or the development, production, maintenance or storage of missiles capable of delivering such weapons
 - (b) for a military end use and the purchasing country or country of destination is subject to an arms embargo imposed by a Decision or Common Position adopted by the Council of the European Union or a decision of the OSCE or imposed by a binding resolution of the Security Council of the United Nations
 - (c) for use as parts or components of military items listed in the national military list that have been exported from the territory of the Member State concerned without authorisation or in violation of an authorisation prescribed by national legislation of that Member State.
 - (2) if the exporter is aware that the items in question are intended, in their entirety or in part, for any of the uses referred to in sub-paragraph (1)

^(a) *O.J. No. L134 29.5.09. p.1 as amended by Regulation (EU) 1232/2011 of the European Parliament and the Council of 16 November 2011, O.J. L236 8.12.2011 p26.*

^(b) S.I. 2008/3231

- (3) if the exporter has grounds for suspecting that the items in question are or may be intended, in their entirety or in part, for any of the uses referred to in sub-paragraph (1)(a), unless the exporter has made all reasonable enquiries as to their proposed use and is satisfied that the items will not be so used
- (4) if their export is controlled by virtue of any entry in Annex I to the Regulation not specified in Schedule 1
- (5) where the exporter has, at the time of export, been served with a notice which suspends or revokes his ability to use this Licence pursuant to article 32(1) of the Order, unless the period of suspension or revocation has expired.

Conditions and Requirements

4. The authorisation in paragraph 1 is subject to the following conditions:
 - (1) before first using this licence, the exporter shall inform the Secretary of State of their intention to do so, specifying their name and the address at which copies of records maintained pursuant to paragraph 4(2) may be inspected; this notification must be made via the Export Control Organisation's electronic licensing system, SPIRE, at www.spire.bis.gov.uk;
 - (2) the exporter or transferor shall maintain the following records in respect of all their exports and transfers of items under this Open General Export Licence:
 - a) the date and destination of each
 - b) the name and address of the consignee and, where known, the
 - c) end-user
 - d) a description of the items exported or transferred
 - e) the quantity of goods exported.

and any such records shall be maintained for at least 3 years after the end of the calendar year in which the export or transfer took place, and the exporter or transferor shall permit the records to be inspected and copied by any person authorised by the Secretary of State;

- (3) except in the case of an export of technology by telephone, fax or other electronic media, official and commercial export documentation accompanying the items shall include a note stating either:
 - (a) "These items are being exported under the Open General Export Licence (International Non-Proliferation Regime Decontrols: Dual-Use Items)"; or
 - (b) the SPIRE reference (in the form 'GBOGE 20XX/XXXXX') of the exporter's registration in respect of this licence;

which shall be presented to an officer of HM Revenue and Customs if so requested.

- (4) where the exporter has received a warning letter sent on behalf of the Secretary of State which identifies failure to comply with this Licence or a provision of applicable export control legislation, the exporter shall take such steps as are identified in that warning letter (within the timescale stated) in order to restore compliance with the Licence. Without prejudice to article 34 of the Order, failure to comply with this condition may result in this Licence being revoked or suspended until the exporter can show compliance to the satisfaction of the Export Control Organisation. The exporter will be notified in writing of any such suspension or revocation and the initial period of such suspension or revocation. Where at the end of this initial period, the exporter has not shown compliance to the satisfaction of the Export Control Organisation, the period of suspension or revocation may be extended. The exporter will be notified of such an extension in writing.
- (5) The Secretary of State has the power to vary or withdraw export licences at any time. If you do not use this licence within any 24-month period for an export allowed by this licence, your entitlement to use it will **automatically run out** at the end of that 24-month period and your registration details will be removed from SPIRE. However, you can register for this licence again if you want to use it after your registration has ended.
- (6) You **must** update the 'Open licensing returns' within SPIRE, for **all** exports or trade carried out within each calendar year. You **must** update the returns by the last day of the following January at the latest (for example, you would need to update the January to December returns by the end of the following January) and include **all** the information required. You do **not** have to report on technology transfers.

Prohibitions not affected by this licence

5. Nothing in this Licence affects any prohibition or restriction on the export of any items other than under the Regulation or the Order, and this licence does not confer any licence or permission under, or for the purposes of, any enactment other than the Regulation and the Order.

Interpretation

6. For the purpose of this Licence:
 - (1) "entry" includes part of an entry
 - (2) unless the context otherwise requires, any other expression used in this Licence has the same meaning as in the Regulation or the Order as appropriate.

Entry into force

7. This Licence comes into force on 18 July 2014.
8. The Open General Export Licence (International Non-Proliferation Regime Decontrols: Dual-Use Items) dated 6 January 2014 is hereby revoked

An Official of the Department for Business, Innovation and Skills authorised to act on behalf of the Secretary of State.

SCHEDULE 1

ITEMS CONCERNED

Items subject to de-control as a result of review of the Wassenaar Arrangement (WA), Missile Technology Control Regime (MTCR) Technical Annexes, Australia Group (AG) or the Nuclear Suppliers Group (NSG) during 2013.

Items specified in the following control entries in Annex I to Council Regulation (EC) No. 428/2009 as amended by Council Regulation (EU) No 388/2012.

Note 1: Where definitions for items in quotation marks are not listed in each relevant Category these can be found in Annex I to Council Regulation (EC) No. 428/2009 as amended by Council Regulation (EU) No 388/2012.

Category 1

1A005., **as follows**

Body armour designed to provide protection from knife, spike, needle or blunt trauma only.

1C006.d., **as follows**

Materials specified by 1C006.d. when specified and packaged as medical products.

1C008.a.3., **except**

Aromatic polyimides having a 'glass transition temperature (Tg)' exceeding 505 K (232°C).

1C008.a.4., **except**

Aromatic polyetherimides having a 'glass transition temperature (Tg)' exceeding 563 K (290° C).

1C008.f., **except**

Polybiphenylenethersulphone having a 'glass transition temperature (Tg)' exceeding 563 K (290° C).

1C351.b.2.

1C351.b.4.

1E001., **as follows**

"Technology" according to the General Technology Note for the "Development" or "production" of equipment or materials authorised above in 1A005, 1C008.a.3., 1C008.a.4. or 1C008.f. or specified in 1C351.b.2. or 1C351.b.4.

Category 22B009., **except**

Spin-forming machines and flow-forming machines, which, according to the manufacturer's technical specifications, can be equipped with "numerical control" units or a computer control and having all of the following:

- a. Three or more axes which can be coordinated simultaneously for "contouring control"; and
- b. A roller force more than 60 kN.

2D001., **as follows**

"Software", other than that specified in 2D002, specially designed or modified for the "development", "production" or "use" of equipment authorised above in 2B009.

2E001. , **as follows**

"Technology" according to the General Technology Note for the "development" of equipment authorised above in 2B009. or "software" authorised above in 2D001.

2E002., **as follows**

"Technology" according to the General Technology Note for the "production" of equipment authorised above in 2B009.

Category 33A001.a.5.a.1., **except**

Analogue-to-Digital convertors having a resolution of 8 bit or more, but less than 10 bit, with an output rate greater than 1 billion words per second.

3A001.a.7., **except**

'Field programmable logic devices' having any of the following:

- a. A maximum number of single-ended digital input/outputs of 500 or greater;
or
- b. An 'aggregate one-way peak serial transceiver data rate' of 200 Gb/s or greater;

Note 3A001.a.7.includes:

- Simple Programmable Logic Devices (SPLDs)
- Complex Programmable Logic Devices (CPLDs)
- Field Programmable Gate Arrays (FPGAs)

- *Field Programmable Logic Arrays (FPLAs)*
- *Field Programmable Interconnects (FPICs)*

Technical Notes

1. *'Field programmable logic devices' are also known as field programmable gate or field programmable logic arrays.*
2. *Maximum number of digital input/outputs in 3A001.a.7.a. is also referred to as maximum user input/outputs or maximum available input/ outputs, whether the integrated circuit is packaged or bare die.*
3. *'Aggregate one-way peak serial transceiver data rate' is the product of the peak serial one-way transceiver data rate times the number of transceivers on the FPGA.*

3A001.b.2., **except**

Microwave "Monolithic Integrated Circuits" (MMIC) power amplifiers having any of the following:

- a. Rated for operation at frequencies exceeding 3.2 GHz up to and including 6.8 GHz and with an average output power greater than 4W (36 dBm) with a "fractional bandwidth" greater than 15%
- b. Rated for operation at frequencies exceeding 6.8 GHz up to and including 16 GHz and with an average output power greater than 1W (30 dBm) with a "fractional bandwidth" greater than 10%
- c. Rated for operation at frequencies exceeding 16 GHz up to and including 31.8 GHz and with an average output power greater than 0.8W (29 dBm) with a "fractional bandwidth" greater than 10%
- d. Rated for operation at frequencies exceeding 31.8 GHz up to and including 37 GHz and with an average output power greater than 0.1 nW (-70 dBm)
- e. Rated for operation at frequencies exceeding 37 GHz up to and including 43.5 GHz and with an average output power greater than 1.0 W (30 dBm)
- f. Rated for operation at frequencies exceeding 43.5 GHz up to and including 75 GHz and with an average output power greater than 31.62 mW (15 dBm) with a "fractional bandwidth" greater than 10%
- g. Rated for operation at frequencies exceeding 75 GHz up to and including 90 GHz and with an average output power greater than 10 mW (10 dBm) with a "fractional bandwidth" greater than 5%; or
- h. Rated for operation at frequencies exceeding 90 GHz and with an average output power greater than 0.1 nW (-70 dBm).

3A001.b.11., **except**

"Frequency synthesizer" "electronic assemblies" having a "frequency switching time" as specified by any of the following:

- a. Less than 156 ps
- b. Less than 100 μ s for any frequency change exceeding 1.6 GHz within the synthesized frequency range exceeding 4.8 GHz but not exceeding 10.6 GHz
- c. Less than 250 μ s for any frequency change exceeding 550 MHz within the synthesized frequency range exceeding 10.6 GHz but not exceeding 31.8 GHz
- d. Less than 500 μ s for any frequency change exceeding 550 MHz within the synthesized frequency range exceeding 31.8 GHz but not exceeding 43.5 GHz
- e. Less than 1 ms for any frequency change exceeding 550 MHz within the synthesized frequency range exceeding 43.5 GHz but not exceeding 56 GHz
- f. Less than 1 ms for any frequency change exceeding 2.2 GHz within the synthesized frequency range exceeding 56 GHz but not exceeding 75 GHz;
or
- g. Less than 1 ms within the synthesized frequency range exceeding 75 GHz.

3A001.e.1.b, **except**

'Secondary cells' having an 'energy density' exceeding 300 Wh/kg at 20° C.

3A002.a.1.

3A002.a.2.

3A002.a.3.

3A002.a.4.

3A002.c., **except**

Radio-frequency "signal analysers" as follows:

1. "Signal analysers" having a 3 dB resolution bandwidth (RBW) exceeding 10 MHz anywhere within the frequency range exceeding 31.8 GHz but not exceeding 37.5 GHz;
2. "Signal analysers" having Displayed Average Noise Level (DANL) less (better) than -150 dBm/Hz anywhere within the frequency range exceeding 43.5 GHz but not exceeding 75 GHz;
3. "Signal analysers" having a frequency exceeding 75 GHz;

4. "Signal analysers" having all of the following:
 - a. "Real-time bandwidth" exceeding 85 MHz; and
 - b. 100% probability of discovery with less than a 3 dB reduction from full amplitude due to gaps or windowing effects of signals having a duration of 15 μ s or less;

Technical Notes

1. *Probability of discovery in 3A002.c.4.b. is also referred to as probability of intercept or probability of capture.*
2. *For the purposes of 3A002.c.4.b., the duration for 100% probability of discovery is equivalent to the minimum signal duration necessary for the specified level measurement uncertainty.*

Definitions

"Real-time bandwidth"

For "signal analysers", the widest frequency range for which the analyser can continuously transform time-domain data entirely into frequency-domain results, using a Fourier or other discrete time transform that processes every incoming time point without gaps or windowing effects that causes a reduction of measured amplitude of more than 3 dB below the actual signal amplitude, while outputting or displaying the transformed data.

3A002.d., **except**

Frequency synthesized signal generators producing output frequencies, the accuracy and short term and long term stability of which are controlled, derived from or disciplined by the internal master reference oscillator and having any of the following:

1. Specified to generate pulses having all of the following, anywhere within the synthesized frequency range exceeding 31.8 GHz but not exceeding 75 GHz:
 - a. 'Pulse duration' of less than 100 ns; and
 - b. On/off ratio equal to or exceeding 65 dB.
2. An output power exceeding 100 mW (20 dBm) anywhere within the synthesized frequency range exceeding 43.5 GHz but not exceeding 75 GHz;
3. A "frequency switching time" as specified by any of the following:
 - a. Less than 100 μ s for any frequency change exceeding 1.6 GHz within the synthesized frequency range exceeding 4.8 GHz but not exceeding 10.6 GHz
 - b. Less than 250 μ s for any frequency change exceeding 550 MHz within the synthesized frequency range exceeding 10.6 GHz but not exceeding 31.8 GHz
 - c. Less than 500 μ s for any frequency change exceeding 550 MHz within the synthesized frequency range exceeding 31.8 GHz but not exceeding 43.5 GHz

- d. Less than 1 ms for any frequency change exceeding 550 MHz within the synthesized frequency range exceeding 43.5 GHz but not exceeding 56 GHz; or
- e. Less than 1 ms for any frequency change exceeding 2.2 GHz within the synthesized frequency range exceeding 56 GHz but not exceeding 75 GHz.

3A002.e., **except**

Network analysers having any of the following:

1. An output power exceeding 31.62 mW (15 dBm) anywhere within the operating frequency range exceeding 43.5 GHz but not exceeding 75 GHz;
2. An output power exceeding 1 mW (0 dBm) anywhere within the operating frequency range exceeding 75 GHz but not exceeding 110 GHz; or
3. 'Nonlinear vector measurement functionality' at frequencies exceeding 50 GHz but not exceeding 110 GHz;

Technical Note

'Nonlinear vector measurement functionality' is an instrument's ability to analyse the test results of devices driven into the large-signal domain or the non-linear distortion range.

4. A maximum operating frequency exceeding 110 GHz;

3B001.b.1

3B001.d.

3B001.h., **except**

Multi-layer masks with a phase shift layer not specified by 3B001.g. and having any of the following:

1. Made on a mask "substrate blank" from glass specified as having less than 7 nm/cm birefringence; or
2. Designed to be used by lithography equipment having a light source wavelength less than 245 nm;

3C001.d., **as follows**

"Substrates" having one or more P-type epitaxial layers of GaN, InGaN, AlGaIn, InAlN, InAlGaIn, GaP, InGaP, AlInP or InGaAlP, independent of the sequence of the elements, except if the P-type epitaxial layer is between N-type layers.

3D001., **as follows**

"Software" specially designed for the "development" or "production" of equipment authorised above in 3A001.b.2., 3A001.b.11., 3A002.a.1., 3A002.a.2., 3A002.a.3., 3A002.a.4., 3A002.c., 3A002.d., 3A002.e., 3A001.e.1.b., 3A002.d., 3B001.b.2., or 3B001.h., or specified in 3B001.d.

3D002., as follows

"Software" specially designed for the "use" of equipment authorised above in 3B001.b.2., or specified in 3B001.d.

3E001., as follows

"Technology" according to the General Technology Note for the "development" or "production" of equipment authorised above in 3A001.a.5.a.1., 3A001.a.7., 3A001.b.2., 3A001.b.11., 3A002.c., 3A002.d., 3A002.e., 3A001.e.1.b., 3A002.a.1., 3A002.a.2., 3A002.a.3., 3A002.a.4., 3A002.d., 3B001.b.2., 3B001.h. or 3C001.d. or specified in 3B001.d.,

3E002.b., except

"Technology" according to the General Technology Note, other than that specified in 3E001, for the "development" or "production" of a "microprocessor microcircuit", "microcomputer microcircuit" or microcontroller microcircuit core, having an arithmetic logic unit with an access width of 32 bits or more and designed to perform less than four floating-point operation results per cycle.

Category 4

4A003.a.

4A003.b. **except**

"Digital computers" having an 'Adjusted Peak Performance' ('APP') exceeding 8.0 Weighted TeraFLOPs (WT).

4D001.a., **as follows**

"Software" specially designed or modified for the "development", "production" or "use" of equipment specified in 4A003.a. or equipment authorised above in 4A003.b.

4D001.b.1., **except**

"Software", other than that specified in 4D001.a., specially designed or modified for the "development" or "production" of "digital computers" having an "Adjusted Peak Performance" ("APP") exceeding 0.6 Weighted TeraFLOPs (WT).

4E001.a., **as follows**

"Technology" according to the General Technology Note, for the "development" or "production" or "use" of equipment specified in 4A003.a, equipment authorised above in 4A003.b. or "software" authorised above in 4D001.a.

4E001.b.1., **except**

"Technology", other than that specified in 4E001.a., specially designed or modified for the "development" or "production" of "digital computers" having an "Adjusted Peak Performance" ("APP") exceeding 0.6 Weighted TeraFLOPs (WT).

Category 5 Part 1

5A001.b.3.b., **as follows**

Radio equipment specially designed for use with fixed or mobile satellite Earth stations for commercial civil telecommunications.

5B001.b.5.

5D001.a., **as follows**

"Software" specially designed or modified for the "development", "production" or "use" of equipment, functions or features, authorised in 5A001.b.3.b.

5D001.b., **as follows**

"Software" designed or modified to support "technology" authorised below in 5E001.c.1.

5D001.c., **as follows**

Specific "software" specially designed or modified to provide characteristics, functions or features of equipment, authorised above in 5A001.b.3.b. or specified in 5B001.b.5.

5E001.a., **as follows**

"Technology" according to the General Technology Note for the "development", "production" or "use" (excluding operation) of equipment functions or features authorised above in 5A001.b.3.b. or "software" authorised above in 5D001.a.

5E001b.4., **as follows**

"Technology" for the "development" of "spread spectrum" techniques, including "frequency hopping" techniques, for fixed or mobile satellite Earth stations for commercial civil telecommunications.

5E001.c.1., **except**

"Technology" according to the General Technology Note for the "development" or "production" of the following:

1. Equipment employing digital techniques designed to operate at a "total digital transfer rate" exceeding 120 Gbit/s.

5E001.c.5.

5E001.d., **except**

"Technology" according to the General Technology Note for the "development" or "production" of Microwave Monolithic Integrated Circuit (MMIC) power amplifiers specially designed for telecommunications and having any of the following:

1. Rated for operation at frequencies exceeding 3.2 GHz up to and including 6.8 GHz and with an average output power greater than 4 W (36 dBm) with a "fractional bandwidth" greater than 15%;
2. Rated for operation at frequencies exceeding 6.8 GHz up to and including 16 GHz and with an average output power greater than 1 W (30 dBm) with a "fractional bandwidth" greater than 10%;

3. Rated for operation at frequencies exceeding 16 GHz up to and including 31.8 GHz and with an average output power greater than 0.8 W (29 dBm) with a "fractional bandwidth" greater than 10%;
4. Rated for operation at frequencies exceeding 31.8 GHz up to and including 37 GHz and with an average output power greater than 0.1 nW (-70 dBm);
5. Rated for operation at frequencies exceeding 37 GHz up to and including 43.5 GHz and with an average output power greater than 1.0 W (30 dBm);
6. Rated for operation at frequencies exceeding 43.5 GHz up to and including 75 GHz and with an average output power greater than 31.62 mW (15 dBm) with a "fractional bandwidth" greater than 10%;
7. Rated for operation at frequencies exceeding 75 GHz up to and including 90 GHz and with an average output power greater than 10 mW (10 dBm) with a "fractional bandwidth" greater than 5%; or
8. Rated for operation at frequencies exceeding 90 GHz and with an average output power greater than 0.1 nW (-70 dBm);

Category 5 Part 2

5A002. and 5D002, **as follows**

Hardware components or 'executable software', of existing items described in Note 3 - Cryptography Note, that have been designed for these existing items, and meeting all of the following:

1. "Information security" is not the primary function or set of functions of the component or 'executable software';
2. The component or 'executable software' does not change any cryptographic functionality of the existing items, or add new cryptographic functionality to the existing items;
3. The feature set of the component or 'executable software' is fixed and is not designed or modified to customer specification; and
4. When necessary as determined by the appropriate authority in the exporter's country, details of the component or 'executable software', and details of relevant end-items are accessible and will be provided to the authority upon request, in order to ascertain compliance with conditions described above.

Technical Note

'Executable software' means "software" in executable form, from an existing hardware component excluded from 5A002. by the Cryptography Note.

Note 'Executable software' does not include complete binary images of the "software" running on an end-item.

5A002.a., **as follows**

Mobile telecommunications Radio Access Network (RAN) equipment designed for

civil use, which also meet the provisions 2. to 5. of the Cryptography Note (Note 3 in Category 5, Part 2), having an RF output power limited to 0.1W (20 dBm) or less, and supporting 16 or fewer concurrent users.

Servers, (rack mounted or tower, including blades), single board computers and similar general purpose computing devices, with information security functionality specified only by 5A002.a.1., and having all of the following:

1. Cryptographic functionality limited to any of the following:
 - a. Primitives in the instruction set of a Central Processing Unit (CPU), where the CPU meets Note 3 to Category 5 Part 2;
 - b. The operating system meets Note 3 to Category 5 Part 2, or is "in the public domain"; or
 - c. The 'remote management interface';
2. Cryptographic functionality uses only standard published commercial algorithms and cannot be easily changed by the user;
3. No other software is installed which uses any of the cryptographic functionality specified in paragraph 1. above; and
4. The equipment is not controlled by Category 4.

Network switching or relay equipment, with information security functionality specified only by 5A002.a.1., and having all of the following:

1. Cryptographic functionality limited to either of the following:
 - a. A 'remote management interface', which uses a physically or logically separate channel from the user or data plane (e.g. a virtual dedicated circuit); or
 - b. A 'remote management interface', which accesses the device through a web server installed on the device; and
2. Cryptographic functionality uses only standard published commercial algorithms and cannot be easily changed by the user.

Technical Note:

'Remote management interface' is a standard interface where the primary function is to allow a systems administrator to access a device to configure its underlying hardware (e.g. network interfaces or hard disks), perform software updates, and monitor the health of the device (e.g. determine the CPU temperature or available disk space).

5D002.a., **as follows**

"Software" specially designed or modified for the "development", "production" or "use" of equipment authorised above in 5A002. or 5A002.a. or "software" authorised above in 5D002. or 5D002.a.

5E002.a., **as follows**

"Technology" according to the General Technology Note for the "development", "production" or "use" of equipment authorised above in 5A002 or 5A002.a. or "software" authorised above in 5D002 or 5D002.a.

Category 6

6A005.a.6.a., **except**

Non-"tunable" continuous wave "(CW) lasers" having output wavelength exceeding 975 nm but not exceeding 1,150 nm and a single transverse mode and output power exceeding 200 W;

6A005.a.6.b., **as follows**

Multiple transverse mode, industrial "lasers" having any of the following:

- a. Output power exceeding 500 W but not exceeding 1 kW and having all of the following:
 1. Beam Parameter Product (BPP) exceeding 0.7 mm•mrad; and
 2. 'Brightness' not exceeding 1024 W/(mm•mrad)²;
- b. Output power exceeding 1 kW but not exceeding 1.6 kW and having a BPP exceeding 1.25 mm•mrad;
- c. Output power exceeding 1.6 kW but not exceeding 2.5 kW and having a BPP exceeding 1.7 mm•mrad;
- d. Output power exceeding 2.5 kW but not exceeding 3.3 kW and having a BPP exceeding 2.5 mm•mrad;
- e. Output power exceeding 3.3 kW but not exceeding 4 kW and having a BPP exceeding 3.5 mm•mrad;
- f. Output power exceeding 4 kW but not exceeding 5 kW and having a BPP exceeding 5 mm•mrad;
- g. Output power exceeding 5 kW but not exceeding 6 kW and having a BPP exceeding 7.2 mm•mrad;
- h. Output power exceeding 6 kW but not exceeding 8 kW and having a BPP exceeding 12 mm•mrad; or
- i. Output power exceeding 8 kW but not exceeding 10 kW and having a BPP exceeding 24 mm•mrad;

Technical Note

For the purpose of 6.A.5.a.6.b. above, 'brightness' is defined as the output power of the "laser" divided by the squared Beam Parameter Product (BPP), i.e., (output power)/BPP².

6A008.k.2., **as follows**

Two dimensional 'marine radar' or 'vessel traffic service' radar, having all of the following:

- a. "Pulse compression" ratio not exceeding 150;
- b. Compressed pulse width of greater than 30 ns;
- c. Single and rotating mechanically scanned antenna;
- d. Peak output power not exceeding 250 W; and
- e. Not capable of "frequency hopping".

Technical Notes

1. 'Marine radar' is a radar that is used to navigate safely at sea, inland waterways or near-shore environments.

2. 'Vessel traffic service' is a vessel traffic monitoring and control service similar to air traffic control for aircraft.

6D001., **as follows**

"Software" specially designed for the "development" or "production" of equipment authorised above in 6A005.a.6.a. or 6A005.a.6.b.

6E001., **as follows**

"Technology" according to the General Technology Note for the "development" of equipment or "software" authorised above in 6A005.a.6.a., 6A005.a.6.b. or 6D001.

6E002., **as follows**

"Technology" according to the General Technology Note for the "production" of equipment or "software" authorised above in 6A005.a.6.a. or 6D001.

6E101., **as follows**

"Technology" according to the General Technology Note for the "use" of equipment specified in 6A002.

Note This licence does not permit the export of "technology" specified in 6E101 for the "use" of equipment designed for airborne applications and usable in missiles.

Category 7

7A001.a.2., **except**

Accelerometers, and specially designed components therefore, specified to function at linear acceleration levels exceeding 15 g but less than or equal to 100 g and having all of the following:

- a. A "bias" "repeatability" of less (better) than 1,250 micro g over a period of one year; and
- b. A "scale factor" "repeatability" of less (better) than 1,250 ppm over a period of one year.

7A002.a.2.a., **except**

Gyros or angular rate sensors, having all of the following, and specially designed components therefor:

- a. Specified to function at linear acceleration levels less than or equal to 100 g,
- b. Rate range greater than or equal to 500 degrees per second; and
- c. "Bias" "stability" of less (better) than 4 degrees per hour, when measured in a 1 g environment over a period of three minutes, and with respect to a fixed calibration value.

7A002.a.2.b., **except**

Gyros or angular rate sensors, having all of the following, and specially designed components therefor:

- a. Specified to function at linear acceleration levels less than or equal to 100 g,
- b. Rate range greater than or equal to 500 degrees per second; and
- c. An "angle random walk" of less (better) than or equal to 0.1 degree per square root hour;

7A003.d., **except**

Inertial measurement equipment including Inertial Measurement Units (IMU) and Inertial Reference Systems (IRS), incorporating accelerometers authorised above in 7A001.a.2., or gyros specified in 7A002.

7D001., **as follows**

"Software" specially designed or modified for the "development" or "production" of equipment authorised above in 7A001.a.2., 7A002.a.2.a., 7A002.a.2.b. or 7A003.d.

7D003.c.

7E001., **as follows**

"Technology" according to the General Technology Note for the "development" of equipment or "software", authorised above in 7A001.a.2., 7A002.a.2.a., 7A002.a.2.b., 7A003.d. or 7D001.

7E002., **as follows**

"Technology" according to the General Technology Note for the "production" of equipment authorised above in 7A001.a.2., 7A002.a.2.a., 7A002.a.2.b. or 7A003.d.

7E003., **as follows**

"Technology" according to the General Technology Note for the repair, refurbishing or overhaul of equipment authorised above in 7A001.a.2. or 7A003.d.

7E004.a.1.

7E004.b.6.

Category 8

8A002.c., **except**

Fibre optic pressure hull penetrators.

8D001., **as follows**

"Software" specially designed or modified for the "development" or "production" or "use" of equipment authorised above in 8A002.c.

8E001., **as follows**

"Technology" according to the General Technology Note for the "development" or "production" of equipment authorised above in 8A002.c.

Category 9

9A001.a., **as follows**

Aero gas turbine engines designed for Auxiliary Power Units (APUs) approved by the civil aviation authority in a Wassenaar Arrangement Participating State.

9D004.d.

9E001., **as follows**

"Technology" according to the General Technology Note for the "development" of "software" specified in 9D004.d.

SCHEDULE 2

DESTINATIONS CONCERNED

This export authorisation is valid for exports to the following destinations: All destinations other than in:

- The customs territory of the EU
- Australia, Canada, Japan, New Zealand, Norway, Switzerland including Liechtenstein, USA
- Iran,

North

Korea.

NOTE:

1. Exports of items covered by this licence may be made under the authority of the European Union General Export Authorisation (EU GEA 001), subject to conditions and restrictions, to the following destinations:

Australia, Canada, Japan, New Zealand, Norway, Switzerland including Liechtenstein, USA.
2. An export licence is NOT required for dual-use goods being exported to EU destinations BUT you must state on export documents that your items require a licence if exported outside the EU) and must keep records (as specified in Articles 22(10) and 22(8) of the EU Dual Use Regulation).

EXPLANATORY NOTE

(This note is not part of the licence)

1. This Open General Export Licence permits, without further authority but subject to certain conditions, the export of dual-use items described in Schedule 1 to the licence from the United Kingdom or from any other Member State of the European Union (EU), where the exporter is established in the United Kingdom, to any destination in Schedule 2 to the Licence.
2. This licence amendment adds the following items to Schedule 1, provided the specific parameters described are met:-

Enterprise level servers, general purpose single board computers and similar

general purpose computing devices - the devices included in Schedule 1 are specified by 5A002a1 and the cryptographic functionality is limited to any of the following:

- remote management of the device
- embedded in a CPU which meets the requirements of Note3: Cryptography Note
- contained within an OS which meets the requirement of Note 3: Cryptography Note or is "in the public domain"

Network switches and relays - the devices included in the amendment are specified by 5A002a1 and the cryptographic functionality is limited to remote management of the device

3. The licence is intended to allow the export of items which were the subject of a review in any of the international non-proliferation regimes (WA, MTCR, AG or NSG) in 2011.
4. The Export Control Order 2008 ("the Order") contains certain registration and record keeping requirements which apply to persons using this Licence.
 - (a) Under Article 28 of the Order, an exporter who exports items under the authority of this Licence must, before or within 30 days after the first occasion they makes use of the licence, provide details to the Secretary of State of their name and the address where copies of the records referred to above may be inspected. This notification must be made via the Export Control Organisation's electronic licensing system, SPIRE, at <https://www.spire.bis.gov.uk>
 - (b) Under Article 29 of the Order, any person established in the United Kingdom who exports items from the United Kingdom or another Member State under the authority of this Licence must maintain and retain certain records relating to each such export for at least three years from the end of the calendar year in which the export takes place, and must permit such records to be inspected and copied by any person authorised by the Secretary of State.
5. The Secretary of State has the power to suspend or revoke licences at any time and in such circumstances and on such terms as he thinks fit. If an exporter receives written notice to this effect, they will be prevented from relying on this Licence. The power to suspend may be used in addition to criminal prosecution or as an alternative. Suspension may occur for example where an exporter is being investigated or prosecuted in relation to a possible criminal offence, or has been found guilty of a criminal offence under the export control legislation. It may also be used in situations where an exporter has breached the conditions of the Licence and failed to take corrective action within a reasonable period (see condition 4(4)).
6. Where the ECO identifies failures in compliance with licence conditions or the legislation during a compliance visit, the ECO may

send a warning letter to the exporter listing the improvements that need to be made to ensure compliance. The letter will set out the timeframe within which these improvements must be completed. Failure to complete these improvements may lead to the exporter's ability to use the licence being suspended for a period of time.

7. The exporter may apply for Standard Individual Export Licences during the period of suspension. Suspension will not automatically prevent them from using another OGEL so long as they meet all its terms and conditions and they have not received a letter suspending or revoking their ability to use that licence.
8. This Licence does not extend to any prohibition under legislation other than Council Regulation (EC) No. 428/2009 or the Order: in particular it does not extend to prohibitions in other legislation implementing United Nations sanctions.

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