Galileo E6-B/C Codes
Technical Note

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Document Change Record

Reason for change	Issue	Revision	Date
First issue	1	0	January 2019

Table of Contents

List of Figures

List of Tables

1 Introduction

1.1 *Document Scope*

The purpose of this technical note is to provide the main specification of the Galileo E6-B and E6-C codes.

Many aspects of the E6-B/C signal are already described in the Galileo Open Service Signal-In-Space Interface Control Document [RD1]. This document provides additional details, including primary codes and their assignment, as well as secondary codes, that are necessary for receiver manufacturers in order to facilitate the development of Galileo E6-B/C enabled receivers.

1.2 *Reference Documents*

Id.	Document Title
RD1	European GNSS (Galileo) Open Service Signal-in-Space Interface Control Document, OS SIS ICD, Issue 1.3, December 2016

2 Galileo E6-B/C Spreading Code Characteristics

This chapter provides details of the Galileo E6-B/C ranging codes. Currently, the ranging codes of the E6-B and E6-C components can be transmitted either unencrypted or encrypted. E6-C codes may be encrypted in the future for use in access-controlled applications. A user may use the E6-C signal component as described in this document temporarily, but they may not be able to use it anymore when encrypted. Therefore, users and receiver manufacturers shall not assume the E6-C signal component will be permanently available. E6-C ranging code encryption is planned for future use. The description of the encryption implementation is out of the scope of this document.

2.1 Code-data coherency

The start of data symbols, of secondary code chips, and of primary code periods, are aligned as defined in [RD1]. The timing relation between chips and symbols for E6-B and E6-C components is illustrated in the following picture.
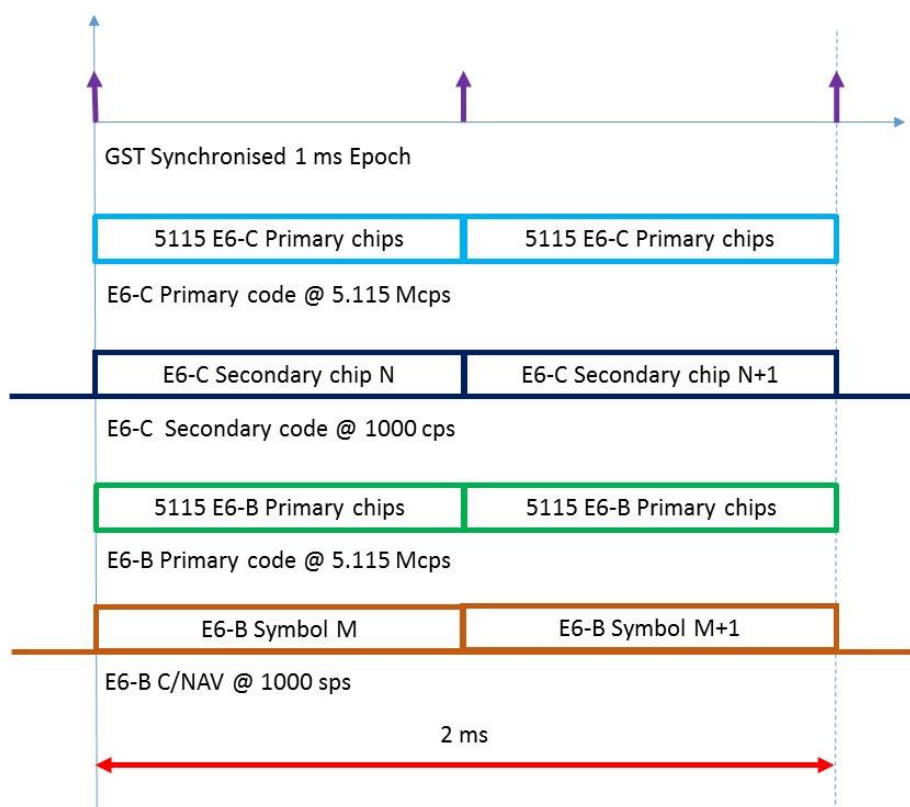

Figure 1: E6-B and E6-C synchronisation

2.2 Code Lengths

The ranging codes are built from primary and secondary codes by using a tiered code construction as described in [RD1]. The code lengths to be used for each signal component

are stated in Table 1.

Signal Component	Tiered Code Period (ms)	Code Length (chips)	
		Primary	Secondary
E6-B	1	5115	N/A
E6-C	100	5115	100

Table 1: Codes Lengths

2.3 *Primary Codes Definition*

2.3.1 E6-B and E6-C Primary Codes

The E6-B and E6-C primary codes are pseudo-random memory code sequences. Each set of codes for each signal component comprises 50 members. The E6-B and E6-C primary codes are provided in sections in A.3 and A.4.

2.4 *Secondary Codes*

2.4.1 Definition of Secondary Codes

The E6-C secondary codes are the CS1001-50, as defined in [RD1], and provided here in Table 2 for convenience using the [RD1] hexadecimal notation.

Code Identifier	Code Length	No. of Hexadec. Symbols	Number of Filled up Zeros	Code Sequence
$CS100_1$	100	25	0	83F6F69D8F6E15411FB8C9B1C
$CS100_2$	100	25	0	66558BD3CE0C7792E83350525
$CS100_3$	100	25	0	59A025A9C1AF0651B779A8381
$CS100_4$	100	25	0	D3A32640782F7B18E4DF754B7
$CS100_5$	100	25	0	B91FCAD7760C218FA59348A93
$CS100_6$	100	25	0	BAC77E933A779140F094FBF98
$CS100_7$	100	25	0	537785DE280927C6B58BA6776
$CS100_8$	100	25	0	EFCAB4B65F38531ECA22257E2
$CS100_9$	100	25	0	79F8CAE838475EA5584BEFC9B
$CS100_{10}$	100	25	0	CA5170FEA3A810EC606B66494
$CS100_{11}$	100	25	0	1FC32410652A2C49BD845E567
$CS100_{12}$	100	25	0	FE0A9A7AFDAC44E42CB95D261
$CS100_{13}$	100	25	0	B03062DC2B71995D5AD8B7DBE
$CS100_{14}$	100	25	0	F6C398993F598E2DF4235D3D5
$CS100_{15}$	100	25	0	1BB2FB8B5BF24395C2EF3C5A1
$CS100_{16}$	100	25	0	2F920687D238CC7046EF6AFC9
$CS100_{17}$	100	25	0	34163886FC4ED7F2A92EFDBB8
$CS100_{18}$	100	25	0	66A872CE47833FB2DFD5625AD
$CS100_{19}$	100	25	0	99D5A70162C920A4BB9DE1CA8

Code Identifier	Code Length	No. of Hexadec. Symbols	Number of Filled up Zeros	Code Sequence
CS100$_{20}$	100	25	0	81D71BD6E069A7ACCBEDC66CA
CS100$_{21}$	100	25	0	A654524074A9E6780DB9D3EC6
CS100$_{22}$	100	25	0	C3396A101BEDAF623CFC5BB37
CS100$_{23}$	100	25	0	C3D4AB211DF36F2111F2141CD
CS100$_{24}$	100	25	0	3DFF25EAE761739265AF145C1
CS100$_{25}$	100	25	0	994909E0757D70CDE389102B5
CS100$_{26}$	100	25	0	B938535522D119F40C25FDAEC
CS100$_{27}$	100	25	0	C71AB549C0491537026B390B7
CS100$_{28}$	100	25	0	0CDB8C9E7B53F55F5B0A0597B
CS100$_{29}$	100	25	0	61C5FA252F1AF81144766494F
CS100$_{30}$	100	25	0	626027778FD3C6BB4BAA7A59D
CS100$_{31}$	100	25	0	E745412FF53DEBD03F1C9A633
CS100$_{32}$	100	25	0	3592AC083F3175FA724639098
CS100$_{33}$	100	25	0	52284D941C3DCAF2721DDB1FD
CS100$_{34}$	100	25	0	73B3D8F0AD55DF4FE814ED890
CS100$_{35}$	100	25	0	94BF16C83BD7462F6498E0282
CS100$_{36}$	100	25	0	A8C3DE1AC668089B0B45B3579
CS100$_{37}$	100	25	0	E23FFC2DD2C14388AD8D6BEC8
CS100$_{38}$	100	25	0	F2AC871CDF89DDC06B5960D2B
CS100$_{39}$	100	25	0	06191EC1F622A77A526868BA1
CS100$_{40}$	100	25	0	22D6E2A768E5F35FFC8E01796
CS100$_{41}$	100	25	0	25310A06675EB271F2A09EA1D
CS100$_{42}$	100	25	0	9F7993C621D4BEC81A0535703
CS100$_{43}$	100	25	0	D62999EACF1C99083C0B4A417
CS100$_{44}$	100	25	0	F665A7EA441BAA4EA0D01078C
CS100$_{45}$	100	25	0	46F3D3043F24CDEABD6F79543
CS100$_{46}$	100	25	0	E2E3E8254616BD96CEFCA651A
CS100$_{47}$	100	25	0	E548231A82F9A01A19DB5E1B2
CS100$_{48}$	100	25	0	265C7F90A16F49EDE2AA706C8
CS100$_{49}$	100	25	0	364A3A9EB0F0481DA0199D7EA
CS100$_{50}$	100	25	0	9810A7A898961263A0F749F56

Table 2: E6-C Secondary Codes

2.4.2 Secondary Codes Assignment

The assignment of the secondary codes to the signal components is according to Table 3. For the E6-C component, an independent secondary code is assigned for each primary code.

Component	Secondary Code Assignment
E6-B	N/A
E6-C	CS100$_{1-50}$

Table 3: Secondary Codes Assignment

2.5 *Assignment of Codes to Satellites*

2.5.1 Primary Code Assignment to Satellites

The E6-B and E6-C primary codes provided in A.3 and A.4 will be allocated to the space vehicle IDs (SVID) as follows:

- To SVID n (with n = 1 to 36) are assigned the corresponding E6-B and E6-C primary codes number n.

2.5.2 Secondary Code Assignment to Satellites

The E6-C secondary codes provided in section 2.4.1 will be allocated to the space vehicle IDs (SVID) as follows:

- To SVID n (with n = 1 to 36) is assigned the secondary code $CS100_n$ (i.e. $CS100_1$ to SVID 1).

A.1 Introduction

This annex provides basic information regarding the Galileo primary codes for components E6-B and E6-C.

A.2 Hexadecimal Coding Convention

Generally, one hexadecimal symbol (0 to 9, A to F) corresponds to four succeeding code chips. The leftmost code-chip corresponds to the first code-chip in time, and the rightmost code-chip corresponds to the last code-chip in time. The first group is built with the first four code-chips, the second group with the fifth to eighth code-chips, etc.

For primary codes whose length is not divisible by four, as is the case for E6-B/C primary codes, the last hexadecimal symbol is built from the last group of code-chips, filled up with zeros at the end in time (to the right) to reach a final length of 4 binary symbols.

Components	Primary Code Length (chips)	Number of Hexadecimal Symbols	Number of Filled up Zeros	Number of Defined Codes
E6-B	5115	1279	1	50
E6-C	5115	1279	1	50

Table 4: Primary Code-Length and Hexadecimal Representation Characteristics

A.3   E6-B Primary Codes

The E6-B primary codes are provided below and embedded within current document ("*A3_E6B.TXT*").

E6-B_Code_No_01;
E6648AA5EFF0907A170377FB20CEDEE1E8D253DAC2496831010336B444276BAAB17E
599548B1A79C67379F98DF0CB81AE8D914EE4947093ADCB94FF4B3916EE562A4CAFD
4A5A049721606E55FFFEB26C949D7C8B0AB7AD2F7DDBBF88A9B091510D209AAA3F6C
83ECFB8DE21B77E793A9E759E73A7ED6330395FD9380E8E86F0A511E0FEC8E0B6501
983FA7C693FFFFFF719EFE4249EF295B578E514817D9E86EBC10917B3B7656BEF6C9
AAB8200B20DEE54BFDB18728A3393450F20B08A7AC84A9F945398E13434BD3076087
F32CA165AFB94FEA9686924E831BA4BD76ACF62D7B216BAC53F71FAF1A13580BDFBB
56DD555855A9E2541FFDED2ADFA6125D73F116006A715596001D1538B0D91C8D445D
0342B910219EA64B77A7A245E4E70AD547590C3D59DF32CF8ACECB6D2F17ABDA7F89
DB09C96A2E811599A39191CEE8F8D42A0BC2A5D00D8D7C318E8996470280F551D25D
FAF153766F6D237236B23FBE1E74484CA9485848CD5C1966705EA03A0220E84B1AFC
9F08F8BDC110D9597973C0F347F5259591EEEF00C399D9A6EF140B759465E07F487A
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3E83A0F2D5C3A9BCFC0E7C9F02AA0A97AFC31A286E9CF85BE5885FFA22E51827EFB1
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33F0319C840DEA265D8631A1EE9A66439DA99563DB168E9C1574E2730F6AAF709AA1
45B75DB885B14FB78E38A05948ABC6206C793C33CE9189BFF19338C

E6-B_Code_No_02;
A2AB1DB576F2061D6993AC3832FF041C388E44240AA6EAB61ABB450D961ED6C8088C
05313E8A31B322CC757C389FF8B033792BFDACA5D3D4926321497DDBBD7C40F833AA
87EC0D27B11E215E491528C0919B2E0D3106DBBA384EF22B1133538C78C76C4ABAC8
493E18A30E842CD00501EE9A737F8AD7E7D78EF22EA826E8973BD19945A5A30A4101
295D4D9010CFB232E2187A98AB9876DE1C9B33B23A8328028E9111A3AD612D7583B0
E6A502AA3AAD7E90680013A3C2E83C475C687307B9B4B71B668EE7B2573756F1AB9F
C7DF4DBB0577C87FEA7031A1A3B55D054731C1FD7849296D03F66BECD04DC25C99BF
EBD810622970C160248356A15A18C3F6907E39C4BE82EAC8AD3874D3EC67E77FBAF6
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846A1666845653BA47CFEE762C6846EDFB5DFAE144FA31501FC18D8CB77160B8B3FA
5500C30D5FB1C8B0B8F5060182F278BD748E3B64D8DA7FA85A48E0179CA3A2441B22
05FBC5E335BC49D0B1FE60B2D7F94484C2921780B31B9968747EE4D19F1AEBD314F8
018F47649B8EFE6D8F72304E810FA22301B620674202651D73A3C3AF84CC259F26AB
775F46FD947EA5818B055224667A94C29D0BE44E925053CB0A35FC670A1FEBF39EB0
0D7D64AD23AF036915DB36FAB654AD9D5F39B3F97F16DB0B9522718

E6-B_Code_No_03;
D7C50CAAB17471A735C51D4759644BE4A788FEA8ECD5F17E00B373DBD24917481DA7
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098C08316E570B10E5C939DE08C1DDE918B749332B5E6AA488A5AF937F609414E885
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7F334218F8EDB23EBA3FC0AC8CF8BB5794562E6D5B0A356CDB6BCFC0CAC2ACCE6CEE
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AD6403B8875CD9C9E95CA09DB303DA879AB468BC213F248DC27FAF92E32F6B07E366
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19

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A.4 E6-C Primary Codes

The E6-C primary codes are provided below and embedded within current document *("A4_E6C.TXT")*.

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B.1 Definitions

The terms below printed with an initial capital letter shall have herein the following meanings unless the context otherwise requires:

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"E6-B/C SIS TN Copyright" – shall mean the copyright on and to the E6-B/C SIS TN document

and/or its content.

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"Patents" – shall mean any and all patents and/or patent applications mentioned in Annex B.12, including the inventions described and claimed therein as well as any divisions, continuations, continuations-in-part, re-examinations and reissues thereof, and any patents issued from said patent applications.

"Products" – shall mean software, electronic devices (e.g., chipsets and receivers) and Value Added Services that are developed – directly or indirectly – by the Authorised Person and that are making use of the High Accuracy Service and Commercial Authentication Service on E6-B/C Signal.

"Technical Data of the E6-B/C SIS TN" – shall mean the data related to: Galileo Signal characteristics, the Galileo Spreading Codes characteristics, Galileo Message Structure, Message Data Contents and E6 Memory Codes, as such terms are used in the E6-B/C SIS TN.

"Territory" – shall mean, with respect to each E6-B/C SIS TN IPRs individually, and subject to Export Controls, the territories covered by said individual E6-B/C SIS TN IPR.

"Value Added Services" – shall mean any service developed based on, or using, the E6-B/C SIS TN IPRs and delivering different or additional capabilities with respect to the OS Signal.

B.2   Ownership of Rights

Ownership in and/or control of the E6-B/C SIS TN IPRs shall remain with the EU and therefore, no title of any intellectual property right on the E6-B/C SIS TN IPRs under the Authorisation shall be acquired by the Authorised Person, whether by implication, estoppel or otherwise. The Authorisation shall be withdrawn and shall not apply against any individual, corporation or other natural or legal person that challenges the validity of any of the E6-B/C SIS TN IPRs or participates in such a challenge, or encourages or supports any third parties in such a challenge.

B.3   Scope of the Authorisation

The scope of the Authorisation is limited to the Territory and Field of Use.

The Authorisation is non-transferable and non-licensable. The Authorised Person shall not assign, transfer or license any of the rights granted under the Authorisation.

The Authorised Person shall practice, use and/or copy the E6-B/C SIS TN IPRs in the Field of Use under the Authorisation in a manner so as not to harm the security interests of the EU or its Member States as set forth in article 13 and article 17 of the Regulation (EU) No 1285/2013 of the European Parliament and of the Council of 11th December 2013 on the implementation and exploitation of European satellite navigation systems and repealing Council Regulation (EC) No 876/2002 and Regulation (EC) No 683/2008 of the European Parliament and of the Council.

The commercial exploitation of the Products in the Field of Use under the Authorisation shall be under the sole responsibility of the Authorised Person.

The Authorised Person shall not state or imply in any promotional material or elsewhere that the Products were developed by, are used by or for or have been approved or endorsed by the EU or by the owner of any of the Patents.

Pursuant to the Authorisation, the EU's covenant not to assert covers the following activities of the Authorised Person:

a) the use of the Technical Data of the E6-B/C SIS TN, including their integration and incorporation into any Products, by the Authorised Person or by third parties contractors used by the Authorised Person for manufacturing said Products;

b) the storage of the Technical Data of the E6-B/C SIS TN, provided the source is acknowledged;

c) the reproduction of the E6-B/C SIS TN, in whole or in part, its distribution and its publication for non-commercial not-for-profit purposes and scale without amending the document or adding any element;

d) providing links to the EU website where the document is published, provided the source is acknowledged, in accordance with the copyright notice in the E6-B/C SIS TN;

e) This list is exhaustive. No other activity shall benefit from the Authorisation. The practice of any of the E6-B/C SIS TN IPRs outside of the scope of the Authorisation shall be deemed in breach of the intellectual property rights of the EU.

Subject to the foregoing, the Authorised Person shall have the discretion to select distributors and otherwise determine the commercial strategy, including all channels of distribution, regarding the distribution and sale of the Products in the Territory.

The Authorised Person shall be solely responsible for (but failure to strictly abide by a) and b) below shall not be in contradiction with the Authorisation):

a) exercising its activities hereunder strictly in compliance with all laws and regulations of each of the countries in which such activity takes place;

b) compliance with all Export Controls.

B.4 Additional Intellectual Property Rights and Maintenance of Patent Rights

The EU reserves the right, in the course of the Authorisation term, to acquire ownership or control of additional intellectual or industrial property rights related to the E6-B/C Signal. In that case, the EU may update Annex B.12 accordingly. The EU however takes no obligation to communicate the acquisition of or licence to additional intellectual or industrial property rights related to the E6-B/C Signal.

The Authorisation shall automatically cover any such additional intellectual or industrial property rights included in the updated Annex B.12, without the need to amend the Authorisation. The EU shall have no obligation, duty or commitment whatsoever to:

a) maintain the E6-B/C SIS TN IPRs in force, whether in full or partly, nor shall it be obliged to communicate any decision thereto to the Authorised Person;

b) furnish any assistance, technical information or know-how to the Authorised Person.

B.5   Duration and Termination

With respect to each of the E6-B/C SIS TN IPRs, the Authorisation shall be valid for the whole duration of said E6-B/C SIS TN IPR insofar as the terms, conditions and limitations of the Authorisation are respected.

The Authorisation shall terminate automatically upon any act of the Authorised Person that violates any of the terms, conditions or limitations of the Authorisation, unless the European Union agrees to the remedial measures proposed by the Authorised Person and the latter are implemented in reasonable time set by the Union.

In the event of a termination of the Authorisation for whatever reason, the Authorised Person shall:

a)   immediately discontinue the development or use of the Products or any other activity covered under the scope of the Authorisation as defined in Section 4 above; and

b)   except in cases of termination for violation of this Authorisation by the Authorised Person, as a temporary exception to point a. above, have the right, during 6 (six) months after the termination of the Authorisation, to sell all remaining Products in stock or in process of being manufactured at that date, or within that term of 6 (six) months, have terminated, finished and/or fulfilled all agreements which have been entered into prior to the termination.

The Authorisation and its validity shall not be influenced by the fact that one or more of the E6-B/C SIS TN IPRs whose practice, use or copy is authorised hereunder should finally be declared not granted or invalid.

B.6   Warranties and Liability

The Authorisation is issued under the E6-B/C SIS TN IPRs as they are. The EU makes no representation and no express or implied warranty, and assumes no liabilities as to any matter whatsoever concerning the E6-B/C SIS TN IPRs, including as to:

a)   the condition, the patentability and/or validity and enforceability of the E6-B/C SIS TN IPRs;

b)   the freedom to practice, use or copy the E6-B/C SIS TN IPRs, to perform the activities that benefit from the Authorisation, or to develop, commercialise or exploit the Products;

c)   any third party's prior rights to use the E6-B/C SIS TN IPRs and/or to enjoin the activities that benefit from the Authorisation;

d)   the dependency of the E6-B/C SIS TN IPRs on third parties' intellectual or industrial property rights;

e)   the merchantability or fitness for a particular purpose of the E6-B/C SIS TN IPRs and/or the Products.

To the full extent allowed by law, all warranties, whether expressed or implied, for any use of E6-B/C SIS TN IPRs or related to the Products, including on product liability, are excluded, and the EU shall not be held liable for any claim or damage related thereto, being asserted by the Authorised Person or any third party with respect to the activities of the Authorised Person under the Authorisation.

B.7 Infringements by Third Parties

The EU shall have the discretionary right and faculty to decide whether or not to bring an action for any infringements of the E6-B/C SIS TN IPRs in the case where a third party does not benefit from the Authorisation, even where the EU has been duly informed about such alleged infringement by the Authorised Person. The EU shall have no obligation whatsoever to bring such an action nor to notify any decision thereto to the Authorised Person.

B.8 Action for Infringement Brought by Third Parties

The Authorised Person shall defend itself and at its own expenses, and bear all the consequences, including the payment of damages and attorney fees, against any claim, suit or proceeding made or brought against the Authorised Person and arising from its activities under the Authorisation, including any claim, suit or proceeding for infringement of third parties' rights as a result of the Authorised Person's practice, use or copy of the E6-B/C SIS TN IPRs or commercialisation of Products. The Authorised Person shall notify the EU without undue delay about any such claim, suit or proceeding. The EU may, at its sole discretion, agree to provide the Authorised Person with any assistance which the EU considers to be appropriate, but the EU shall not in any way be obliged to do so. If the EU decides to defend either the Authorised Person or the E6-B/C SIS TN IPRs, the Authorised Person shall collaborate with the EU and provide the EU with all the assistance necessary to such defence.

B.9 Permits

The necessary steps for obtaining all permits and licences required for the activities under the Authorisation, under the laws and regulations in force at the place where said activities of the Authorised Person are provided or to be provided, shall be the exclusive responsibility of the Authorised Person.

B.10 Applicable Law and Dispute Resolution

The Authorisation shall be governed by European Union law, complemented where necessary by the law of Belgium.

Except for the right of the EU and/or the Authorised Person to apply to a court of competent jurisdiction for a temporary restraining order or a preliminary injunction to prevent irreparable harm, any dispute, controversy or claim arising under, out of or relating to the Authorisation and any subsequent amendments thereof, including, without limitation, its validity, binding effect, interpretation, performance, breach or termination shall be submitted to mediation in accordance with the WIPO Mediation Rules. The place of mediation shall be Brussels. The language to be used in the mediation shall be English.

If, and to the extent that, any such dispute, controversy or claim has not been settled pursuant to the mediation within sixty (60) days of the commencement of the mediation, it shall, upon filing of a Request for Arbitration by either the EU or the Authorised Person, be referred to and finally determined by arbitration in accordance with the WIPO Expedited

Arbitration Rules. Alternatively, if, before the expiration of said period of sixty (60) days, either the EU or the Authorised Person fails to participate or to continue to participate in the mediation, the dispute, controversy or claim shall, upon the filing of a Request for Arbitration by the participating EU or Authorised Person, be referred to and finally determined by arbitration in accordance with the WIPO Expedited Arbitration Rules. The arbitral tribunal shall consist of three arbitrators. The place of arbitration shall be Brussels. The language used in the arbitration proceedings shall be English.

In any action to enforce the Authorisation, the prevailing entity shall be entitled to recover its reasonable attorney's fees, court costs and related expenses from the other entity.

B.11 Miscellaneous

The provisions of the Authorisation are severable in the sense that the invalidity or unenforceability of any provision of the Authorisation that is not fundamental to its performance shall not affect the validity and/or enforceability of the remaining provisions hereof. Such invalidity or unenforceability of such non-fundamental provision shall not relieve the Authorised Person of its obligations under the remaining provisions of the Authorisation.

This Authorisation fully and exclusively states the scope of the authorisation concerning the E6-B/C SIS TN IPRs that the EU wishes to issue.

The EU reserves the exclusive right to amend the Authorisation upon due public notice.

The fact that the Authorisation is self-executing and that the EU requires no signature of the Authorisation shall not be considered a waiver and shall have no effect on the binding character of the terms, conditions and limitations of the Authorisation upon the practice, use or copy of the E6-B/C SIS TN IPRs by the Authorised Person.

B.12 Annex

Annex B.12 is appended to and is an integral part of the Authorisation.

List of E6-B/C SIS TN Related Intellectual Property Rights

	IPR	Name of IPR	Application number	Date of filing	Date of publication	Applicant	Owner	Designated Countries
1	Patent	Method for providing assistance data to a mobile station of a satellite positioning system	PCT/EP2006/068177	07-11-06	18-05-07	GSA	EU	Australia Canada China Europe designated countries: (AT, BE, CH, CZ, DE, DK, ES, FI, FR, GB, GR, HU, IE, IT, LU, NL, PL, PT, RO, SE, TR) India Japan Russia S. Korea USA
2	Patent	Method and generator for generating a spread-spectrum signal	12559874	15-09-09	25-03-10	GSA	EU	USA
3	Patent	Chaotic spreading codes and their generation	PCT/EP2007/063080	30-11-07	05-06-08	GSA	EU	Australia Brazil Canada China Europe designated countries: (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,

	IPR	Name of IPR	Application number	Date of filing	Date of publication	Applicant	Owner	Designated Countries
								IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR) India Japan Russia S. Korea
4	Copyright	E6-B/C Codes Technical Note	NA	NA	NA	NA	EU	Worldwide
5	Patent	Spreading codes for a satellite navigation system (concerning memory codes)	PCT/EP2004/014488	17-12-04	22-06-06	ESA	EU	Brazil Canada China Europe designated countries: (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR) Japan USA
6	Patent	Spreading codes for a satellite navigation system (concerning secondary codes)	PCT/EP2005/007235	01-07-05	11-01-07	ESA	EU	Brazil Canada China Europe designated countries: (BE, CH, CZ, DE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, TR) Japan USA

5 Annex C - Authorisation Concerning Use of the Galileo Trade Marks

> **By using the Galileo Trade Marks in the Field of Use, YOU ACCEPT ALL TERMS AND CONDITIONS OF THIS AUTHORISATION including in particular the limitations on use, warranty and liability. If you are acting on behalf of a company or other legal entity, you represent and warrant that you have the legal authority to bind that company or legal entity to these terms and conditions.**

The European Union (hereinafter "the EU") is the owner of the Galileo Trade Marks.

In the interest of facilitating and encouraging the market uptake of satellite navigation, as required by the GNSS Regulation, the EU represented by the European Commission hereby issues the Authorisation concerning the use of the Galileo Trade Marks in the Field of Use, towards natural or legal persons worldwide, subject to the terms, conditions and limitations described herein. The Authorisation is non-exclusive and royalty-free.

C.1   Definitions

The under mentioned terms printed with an initial capital letter shall have the meanings stated below. Any reference to the plural shall include the singular and any reference to the singular shall include the plural.

"Authorisation" shall mean the EU's covenant that it shall not assert, seek to assert and / or enforce any of the rights and claims it has in relation to the Galileo Trade Marks against the use thereof, subject to the terms, conditions and limitations described herein.

"Authorised Person" shall mean the natural or legal person that benefits from the Authorisation under the terms, conditions and limitations described herein.

"EU Stakeholders" shall mean the European Space Agency (ESA), the European GNSS Agency (GSA) and other international organisations with activities in GNSS, any of the EU, ESA or GSA contractors and subcontractors at any tier working in the Galileo programme, operator(s) of the Galileo satellite navigation system, EU Member States and their institutions and bodies, including national space agencies.

"Field of Use" shall mean the use of one or more of the Galileo Trade Marks by the Authorised Person in order to signify that the respective Products make use of the GNSS Services provided by the EU and/or the EU Stakeholders. Reference to the Galileo Trade Marks may be made by any means associated with the marketing of the Products, including but not limited to packaging, instructional and promotional materials.

"Galileo Trade Marks" shall mean any and all trade mark registrations and applications owned by EU and/or the EU Stakeholders, anywhere in the world consisting of or incorporating the word GALILEO, including without limitation the trade mark applications and registrations set out in Annex C

"GNSS" shall mean Global Navigation Satellite System.

"GNSS Regulation" shall mean Regulation (EU) 1285/2013 of the European Parliament and of the Council of 11 December 2013 on the implementation and exploitation of European Satellite Navigation Systems and repealing Council Regulation (EC) No 876/2002 and Regulation (EC) No 683/2008 of the European Parliament and of the Council.

"GNSS Services" shall mean the following activities contemplated by the GNSS Regulation:

a) open service (OS), which is free of charge to the user and provides positioning and synchronisation information intended mainly for high-volume satellite navigation applications;

b) contribution, by means of Galileo open service signals and/or in cooperation with other satellite navigation systems, to integrity-monitoring services aimed at users of safety-of-life applications in compliance with international standards;

c) commercial service (CS) for the development of applications for professional or commercial use by means of improved performance and data with greater added value than those obtained through the open service[1];

d) public regulated service (PRS) restricted to government-authorised users, for sensitive applications which require a high level of service continuity, free of charge for the Member States, the Council, the Commission, EEAS and, where appropriate, duly authorised Union agencies; this service uses strong, encrypted signals;

e) contribution to the search and rescue support service (SAR) of the COSPAS-SARSAT system by detecting distress signals transmitted by beacons and relaying messages to them.

"Products" shall mean software, electronic devices (e.g., chipsets and receivers) and Value Added Services that are developed and marketed – directly or indirectly – by the Authorised Person.

"Value Added Services" shall mean any service delivering different or additional capabilities with respect to signals broadcasted by the infrastructure developed under the European GNSS Programmes.

C.2 Ownership of Rights

Ownership of the Galileo Trade Marks shall remain with the EU and therefore, no title of any intellectual property right on the Galileo Trade Marks under the Authorisation shall be acquired by the Authorised Person.

The Authorisation shall be withdrawn and shall not apply to any natural or legal person that challenges the validity or enforceability of any of the Galileo Trade Marks or participates in such a challenge, or encourages or supports any third parties in such a challenge.

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[1] According to the Commission Implementing Decision (EU) 2017/224 of 8 February 2017 setting out the technical and operational specifications allowing the commercial service offered by the system established under the Galileo programme to fulfil the function referred to in Article 2(4)(c) of Regulation (EU) No 1285/2013 of the European Parliament and of the Council CS comprises two major improvements – the High Accuracy Service and Commercial Authentication Service.

C.3 Scope of the Authorisation

The scope of the Authorisation is limited to the Field of Use.

The Authorisation is non-transferable and non-licensable. The Authorised Person shall not assign, transfer or license any of the rights granted under the Authorisation.

The Authorised Person shall use the Galileo Trade Marks in the Field of Use under the Authorisation in a manner so as not to harm the security interests of the EU or its Member States as set forth in article 13 and article 17 of the GNSS Regulation.

The commercial exploitation of the Products in the Field of Use under the Authorisation shall be under the sole responsibility of the Authorised Person.

The Authorised Person shall not state or imply in any promotional material or elsewhere that the Products were developed by, are used by or for or have been approved or endorsed by the EU or the EU Stakeholders.

Pursuant to the Authorisation, the EU's covenant not to assert covers the use of the Galileo Trade Marks in the context of the development and marketing of any Products, including its use on the Products themselves and on their packaging, instructional and promotional materials, by the Authorised Person or by third party contractors used by the Authorised Person for manufacturing said Products, only in the Field of Use;

In addition to the limitations described above, the Authorised Person shall not:

a) Use the Galileo Trade Marks or any confusingly similar sign as, or as part of, the stand-alone brand name or sub-brand name of any of its Products, or as the stand-alone registered or trading name of any corporate entity or business. For the avoidance of doubt, this does not prevent the Authorised Person from affixing one or more Galileo Trade Marks to the packaging of their Products;
b) Apply for or obtain registration of any trade mark which consists of, comprises, or is confusingly similar to the Galileo Trade Marks;
c) Claim any interest or rights to the Galileo Trade Marks, other than the rights explicitly granted by the EU under the Authorisation.

By way of example, acceptable use of the Galileo Trade Marks under the Authorisation and in the Field of Use would include "the new [Product brand name] satnav powered by Galileo" or "the [Product brand name] Galileo receiver". "A Galileo receiver" or "Galileo receivers" shall also be considered acceptable as referential uses. Unacceptable uses would include "a new satnav by Galileo" and "the Galileo receiver".

The Authorised Person shall be solely responsible for exercising its activities hereunder strictly in compliance with all laws and regulations of each of the countries in which such activity takes place.

C.4 Additional Intellectual Property Rights and Maintenance of Rights

The EU reserves the right, in the course of the Authorisation term, to acquire ownership or control of additional trademarks related with the sign Galileo. In that case, the EU may update

Annex 1 accordingly. The EU however takes no obligation to communicate the acquisition of additional trade mark rights to the Authorised Person.

The Authorisation shall automatically cover any such additional trade mark rights included in the updated Annex 1, without the need to amend the Authorisation. The EU shall have no obligation, duty or commitment whatsoever to:

a) maintain the Galileo Trade Marks in force nor shall it be obliged to communicate any decision thereto to the Authorised Person;

b) provide any assistance, technical information or know-how to the Authorised Person.

C.5 Duration and Termination

The Authorisation shall be valid as long as the Galileo Trade Marks remain valid and in force, insofar as the terms, conditions and limitations of the Authorisation are respected.

The Authorisation shall terminate automatically upon any act of the Authorised Person that violates any of the terms, conditions or limitation of the Authorisation.

The Authorisation and its validity shall not be influenced by the fact that one or more of the Galileo Trade Marks whose use is authorised hereunder should finally be declared not granted or invalid.

C.6 Warranties and Liability

The Authorisation is issued under the Galileo Trade Marks as they are. The EU makes no representation and no express or implied warranty, and assumes no liabilities as to any matter whatsoever concerning the Galileo Trade Marks, including as to the validity and enforceability of the Galileo Trade Marks;

To the full extent allowed by law, all warranties, whether expressed or implied, for any use of the Galileo Trade Marks are excluded. The EU shall not be held liable for any claim or damage related thereto, being asserted by the Authorised Person or any third party with respect to the activities of the Authorised Person under the Authorisation.

C.7 Action for Infringement Brought by Third Parties

The Authorised Person shall defend itself and at its own expenses, and bear all the consequences, including the payment of damages and attorney fees, against any claim, suit or proceeding made or brought against the Authorised Person and arising from its activities under the Authorisation, including any claim, suit or proceeding for infringement of third parties' rights as a result of the Authorised Person's use of the Galileo Trade Marks or marketing of the Products. The Authorised Person shall notify the EU without undue delay about any such claim, suit or proceeding. The EU may, at its sole discretion, agree to provide the Authorised Person with any assistance which the EU considers to be appropriate, but the EU shall not in any way be obliged to do so. If the EU decides to defend either the Authorised Person or the Galileo Trade Marks, the Authorised Person shall collaborate with the EU and provide the EU with all the assistance necessary to such defence.

C.8 Applicable Law and Dispute Resolution

The Authorisation shall be governed by European Union law, complemented where necessary by the law of Belgium.

The courts of Brussels have exclusive jurisdiction over any dispute regarding the interpretation, application or validity of the Contract.

C.9 Miscellaneous

The provisions of the Authorisation are severable in the sense that the invalidity or unenforceability of any provision of the Authorisation that is not fundamental to its performance shall not affect the validity and/or enforceability of the remaining provisions hereof. Such invalidity or unenforceability of such non-fundamental provision shall not relieve the Authorised Person of its obligations under the remaining provisions of the Authorisation.

This Authorisation fully and exclusively states the scope of the authorisation concerning the Galileo Trade Marks.

The EU reserves the exclusive right to amend the Authorisation upon due public notice.

The fact that the Authorisation is self-executing and that the EU requires no signature of the Authorisation shall not be considered a waiver and shall have no effect on the binding character of the terms, conditions and limitations of the Authorisation upon the use of the Galileo Trade Marks by the Authorised Person.

C.10 Annex - Galileo Trade Marks

Annex C.10 is appended to and is an integral part of the Authorisation.

Mark	Territory	Trademark number
	EU	003710712
GALILEI	EU	004546561
GALILEO	EU	011517984
GALILEO	EU	017287129
	EU	002742237

6 Annex D – List of Acronyms

ARNS	Aeronautical Radionavigation Services
BOC	Binary Offset Carrier
CBOC	Composite Binary Offset Carrier modulation
CDMA	Code Division Multiple Access
C/NAV	Commercial Navigation message (provided in E6-B signal)
cps	Chips Per Second
CRC	Cyclic Redundancy Check
ECEF	Earth-Centred, Earth-Fixed
EGNOS	European Geostationary Navigation Overlay Service
EU	European Union
FEC	Forward Error correction
GGTO	Galileo/GPS Time Offset
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
GST	Galileo System time
GTRF	Galileo Terrestrial Reference Frame
ICD	Interface Control Document
IPR	Intellectual Property Rights
Mcps	Mega Chips Per Second
mHz	Megahertz
MSB	Most Significant Bit
N/A	Not Applicable

OS	Open Service
PSK	Phase-Shift Keying
Q	Quadrature Signal component
QPSK	Quadrature Phase-Shift Keying
RF	Radio Frequency
RNSS	Radionavigation-Satellite Services
SAR	Search-and-Rescue Service
SIS	Signal-In-Space
sps	Symbols Per Second
SV	Space Vehicle
SVID	Space Vehicle Identifier
TOT	Time Of Transmission
TN	Technical Note
UTC	Coordinated Universal Time
WIPO	World Intellectual Property Organization

European GNSS Service Centre:

https://www.gsc-europa.eu/