European **GNSS** (Galileo) Open Service

Signal In Space Interface Control Document

GALILEO

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Document Change Record

Reason for change	Issue	Revision	Date
First issue	Draft	0	19/05/2006
CBOC Modulation added, 'lossless atmosphere' assumption removed from Tx power definition (issue under study), SAR data, update of the bit allocations of some F/NAV and I/NAV pages, editorial corrections etc.	Draft	1	14/02/2008
Update of the 'Terms of Use and Disclaimers' section and namely the licensing policy for R&D and standardization purposes as well as commercial purposes. Assignment of the primary and secondary codes to satellites in section in section 3.6. More details on the I/NAV alert page content in section 4.3.2.3. Clarification of the power sharing between the different Galileo signal components in section 2.7.1. Addition of Galileo E1 subcarriers plots in section 2.3.3 Clarification that Galileo E5a and E5b signals can be processed as QPSK signals in section 2.3.1.2. Update of the acronym list with QPSK in annex A. In section 4.2.4, for Page Type 6, parameter 'i' has been replaced by ω, the argument of perigee. In section 5.1.2, Time of Week an entire week from 0 to 604799 seconds, not up to 604800.	Issue 1	0	February 2010
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1. Introduction

1.1. Document Scope

The name "Galileo" shall mean the system established under the Galileo programme.

The present European GNSS (Galileo) Open Service Signal In Space Interface Control Document (OS SIS ICD) Issue 1 contains the publicly available information on the Galileo Signal In Space. It is intended for use by the Galileo user community and it specifies the interface between the Galileo Space Segment, and the Galileo User Segment. The present document is subject to evolution, and the information contained in it may change. It is therefore recommended that a reconfigurable approach for the Galileo receivers be adopted by the manufacturers, in order to easily adapt the receivers' architecture to the possible changes which might occur in the future.

1.2. Document Overview

The present document is organised as follows:

- Chapter 1 is this introduction which provides the scope of the document and an overview of the Galileo system
- Chapter 2 provides the signal-in-space radio frequency characteristics
- Chapter 3 provides the characteristics of the spreading codes
- Chapter 4 provides the message structures
- Chapter 5 provides the characteristics of the navigation message data contents

1.3. Galileo System Overview

Galileo is the European global navigation satellite system providing a highly accurate, guaranteed and global positioning service under civilian control. It is inter-operable with GPS and GLONASS, the two other current global satellite navigation systems.

The fully deployed Galileo system consists of 30 satellites (27 operational and 3 spares), positioned in three circular Medium Earth Orbit planes at a nominal average orbit semi-major axis of 29601.297 Km, and at an inclination of the orbital planes of 56 degrees with reference to the equatorial plane.

Galileo provides enhanced distress localisation and call features for the provision of a Search and Rescue (SAR) service interoperable with the COSPAS-SARSAT system.

Figure 1 specifies the radio-frequency air interface between the space and user segments. Three independent CDMA signals, named E5, E6 and E1, are permanently transmitted by all Galileo satellites. The E5 signal is further sub-divided into two signals denoted E5a and E5b.
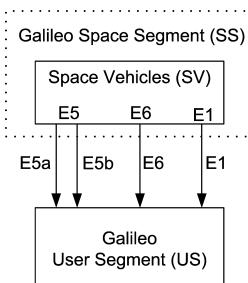
Figure 1.   Space Vehicle/Navigation User Interface

2. Galileo Signal Characteristics

2.1. Frequency Plan

2.1.1. Frequency Bands

The Galileo navigation Signals are transmitted in the four frequency bands indicated in Figure 2. These four frequency bands are the E5a, E5b, E6 and E1 bands. They provide a wide bandwidth for the transmission of the Galileo Signals.
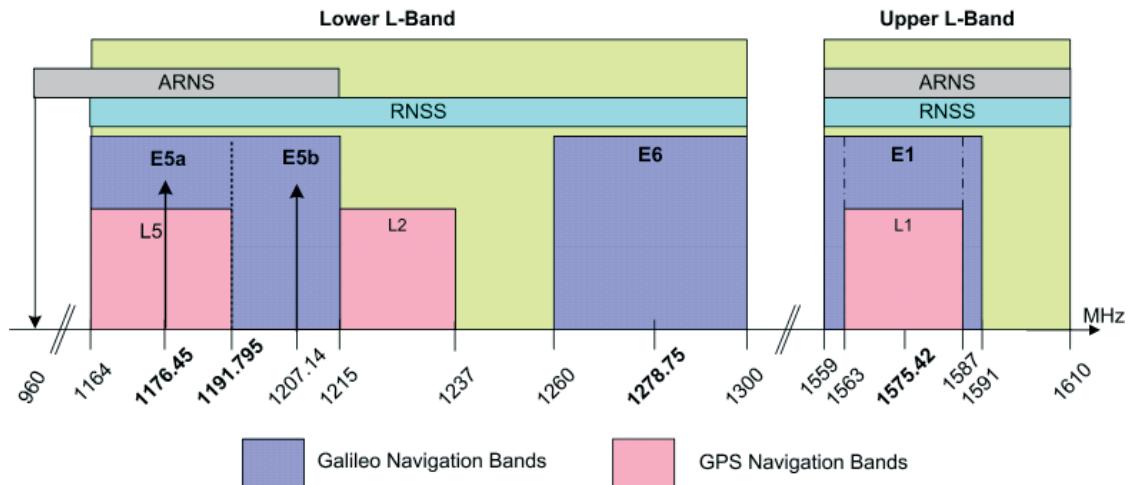
Figure 2.   Galileo Frequency Plan

The Galileo frequency bands have been selected in the allocated spectrum for Radio Navigation Satellite Services (RNSS) and in addition to that, E5a, E5b and E1 bands are included in the allocated spectrum for Aeronautical Radio Navigation Services (ARNS), employed by Civil-Aviation users, and allowing dedicated safety-critical applications.

2.1.2. Carrier Frequencies

Galileo carrier frequencies are shown in Table 1. The names of the Galileo signals are the same than the corresponding carrier frequencies. Note that E5a and E5b signals are part of the E5 signal in its full bandwidth.

Signal	Carrier Frequency (MHz)
E1	1575.420
E6	1278.750
E5	1191.795
E5a	1176.450
E5b	1207.140

Table 1.   Carrier Frequency per Signal

2.1.3. Receiver Reference Bandwidths

The receiver reference bandwidths centred on the carrier frequencies of Table 1 are specified in Table 2. Those reference bandwidths are considered when computing the correlation losses provided in paragraph 2.8.

Signal	Receiver Reference Bandwidth (MHz)
E1	24.552
E6	40.920
E5	51.150
E5a	20.460
E5b	20.460

Table 2.   Galileo Signals Receiver Reference Bandwidths

2.2. Signal Polarization

The transmitted signals are Right-Hand Circularly Polarized (RHCP).

2.3. Modulation

In the following sections, modulation expressions are given for the power normalized complex envelope (i.e. base-band version) sX(t) of a modulated (band-pass) signal SX(t). Both are described in terms of their in-phase sX-I(t) and quadrature sX-Q(t) components by the following generic expressions in Eq. 1.

$$S_X(t) = \sqrt{2P_X}\left[s_{X-I}(t)\cos(2\pi f_X t) - s_{X-Q}(t)\sin(2\pi f_X t)\right]$$
$$s_X(t) = s_{X-I}(t) + j\,s_{X-Q}(t)$$

Eq. 1

Table 3 defines the signal parameters used in this chapter, with the indices:

- 'X' accounting for the respective carrier (E5, E5a, E5b, E6 or E1) and
- 'Y' accounting for the respective signal component (B, C, I or Q) within the signal 'X'.

Parameter	Explanation	Unit
f_X	Carrier frequency	Hz
P_X	RF-Signal power	W
L_{X-Y}	Ranging code repetition period	chips
$T_{C,X-Y}$	Ranging code chip length	s
$T_{S,X}$	Sub-carrier period	s
$T_{S,X-Y}$	Subcarrier period	s
$T_{D,X-Y}$	Navigation message symbol duration	s
$R_{C,X-Y}$	$= 1/T_{C,X-Y}$ code chip rate	Hz
$R_{S,X}$	$= 1/T_{S,X}$ sub-carrier frequency	Hz
$R_{S,X-Y}$	$= 1/T_{S,X-Y}$ subcarrier frequency	Hz
$R_{D,X-Y}$	$= 1/T_{D,X-Y}$ navigation message symbol rate	Hz
$S_X(t)$	Signal pass-band representation	N/A
$C_{X-Y}(t)$	Binary (NRZ modulated) ranging code	N/A
$D_{X-Y}(t)$	Binary (NRZ modulated) navigation message signal	N/A

Parameter	Explanation	Unit
$sc_{X-Y}(t)$	Binary (NRZ modulated) subcarrier	N/A
$e_{X-Y}(t)$	Binary NRZ modulated navigation signal component including code, sub-carrier (if available) and navigation message data (if available); $(= c_{X-Y}(t)\, sc_{X-Y}(t)\, D_{X-Y}(t))$	N/A
$s_X(t)$	Normalised (unit mean power) baseband signal $= s_{X-I}(t) + j\, s_{X-Q}(t)$	N/A
$c_{X-Y,k}$	kth chip of the ranging code	N/A
$d_{X-Y,k}$	kth symbol of the navigation message	N/A
DC_{X-Y}	$= T_{D,X}{}^Y/T_{C,X}{}^Y$ number of code chips per symbol	N/A
$\|i\|_L$	i modulo L	N/A
$[i]_{DC}$	Integer part of i/DC	N/A
$rect_T(t)$	Function "rectangle" which is equal to 1 for $0<t<T$ and equal to 0 elsewhere	N/A

Table 3.   Signal Description Parameters

2.3.1. E5 Signal

2.3.1.1. Modulation Scheme

The diagram in Figure 3 provides a generic view of the E5 signal AltBOC modulation generation.
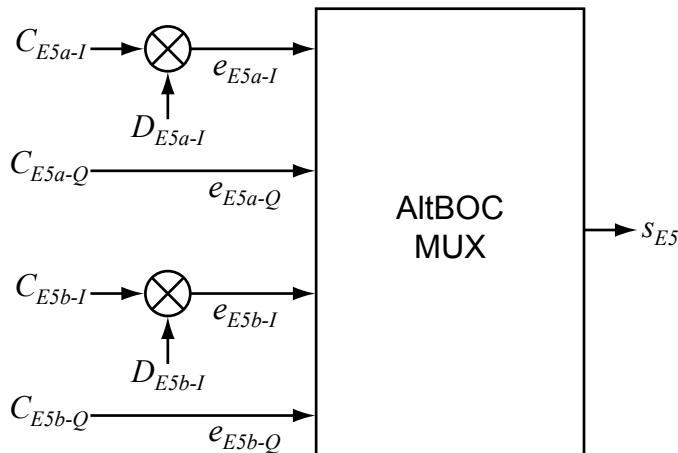
Figure 3.   Modulation Scheme for the E5 Signal

The E5 signal components are generated according to the following:

- e_{E5a-I} from the F/NAV navigation data stream D_{E5a-I} modulated with the unencrypted ranging code C_{E5a-I}

- e_{E5a-Q} (pilot component) from the unencrypted ranging code C_{E5a-Q}

- e_{E5b-I} from the I/NAV navigation data stream D_{E5b-I} modulated with the unencrypted ranging code C_{E5b-I}

- e_{E5b-Q} (pilot component) from the unencrypted ranging code C_{E5b-Q}

The respective definitions are following (Eq. 2):

$$e_{E5a-I}(t) = \sum_{i=-\infty}^{+\infty}\left[c_{E5a-I,|i|_{L_{E5a-I}}} \ d_{E5a-I,[i]_{DC_{E5a-I}}} \ rect_{T_{C,E5a-I}}\left(t - i\, T_{C,E5a-I}\right)\right]$$

$$e_{E5a-Q}(t) = \sum_{i=-\infty}^{+\infty}\left[c_{E5a-Q,|i|_{L_{E5a-Q}}} \ rect_{T_{c,E5a-Q}}\left(t - i\, T_{C,E5a-Q}\right)\right]$$

$$e_{E5b-I}(t) = \sum_{i=-\infty}^{+\infty}\left[c_{E5b-I,|i|_{L_{E5b-I}}} \ d_{E5b-I,[i]_{DC_{E5b-I}}} \ rect_{T_{C,E5b-I}}\left(t - i\, T_{C,E5b-I}\right)\right]$$

$$e_{E5b-Q}(t) = \sum_{i=-\infty}^{+\infty}\left[c_{E5b-Q,|i|_{L_{E5b-Q}}} \ rect_{T_{C,E5b-Q}}\left(t - i\, T_{C,E5b-Q}\right)\right]$$

Eq. 2

The Galileo satellites transmit the E5 signal components with the ranging codes chip rates and symbol rates stated in Table 4.

Signal (Parameter X)	Component (Parameter Y)	Ranging Code Chip-Rate RC,X-Y (Mchip/s)	Symbol-Rate RD,X-Y (symbols/s)
E5a	I	10.230	50
E5a	Q	10.230	No data ('pilot component')
E5b	I	10.230	250
E5b	Q	10.230	No data ('pilot component')

Table 4.   E5 Chip Rates and Symbol Rates

2.3.1.2. Modulation Type

The wideband E5 signal is generated with the AltBOC modulation of side-band sub-carrier rate $R_{S,E5}$ = $1/T_{S,E5}$=15.345 MHz (15 x 1.023 MHz) according to the expression in Eq. 3 with the binary signal components e_{E5a-I}, e_{E5a-Q}, e_{E5b-I} and e_{E5b-Q} as defined in Eq. 2. Note that E5a and E5b signals can be processed independently by the user receiver as though they were two separate QPSK signals with a carrier frequency of 1176.45 MHz and 1207.14 MHz respectively.

$$s_{E5}(t) = \frac{1}{2\sqrt{2}}\left(e_{E5a-I}(t) + j\, e_{E5a-Q}(t)\right)\left[s\, c_{E5-S}(t) - j\, s\, c_{E5-S}\left(t - T_{s,E5}/4\right)\right] +$$

$$\frac{1}{2\sqrt{2}}\left(e_{E5b-I}(t) + j\, e_{E5b-Q}(t)\right)\left[s\, c_{E5-S}(t) + j\, s\, c_{E5-S}\left(t - T_{s,E5}/4\right)\right] +$$

Eq. 3

$$\frac{1}{2\sqrt{2}}\left(\bar{e}_{E5a-I}(t) + j\, \bar{e}_{E5a-Q}(t)\right)\left[s\, c_{E5-P}(t) - j\, s\, c_{E5-P}\left(t - T_{s,E5}/4\right)\right] +$$

$$\frac{1}{2\sqrt{2}}\left(\bar{e}_{E5b-I}(t) + j\, \bar{e}_{E5b-Q}(t)\right)\left[s\, c_{E5-P}(t) + j\, s\, c_{E5-P}\left(t - T_{s,E5}/4\right)\right]$$

The respective dashed signal components $\bar{e}_{E5a-I}$, $\bar{e}_{E5a-Q}$, $\bar{e}_{E5b-I}$ and $\bar{e}_{E5b-Q}$ represent product signals according to Eq. 4:

$$\bar{e}_{E5a-I} = e_{E5a-Q}\, e_{E5b-I}\, e_{E5b-Q} \qquad\qquad \bar{e}_{E5b-I} = e_{E5b-Q}\, e_{E5a-I}\, e_{E5a-Q}$$

$$\bar{e}_{E5a-Q} = e_{E5a-I}\, e_{E5b-I}\, e_{E5b-Q} \qquad\qquad \bar{e}_{E5b-Q} = e_{E5b-I}\, e_{E5a-I}\, e_{E5a-Q}$$

Eq. 4

The parameters sc_{E5-S} and sc_{E5-P} represent the four-valued sub-carrier functions for the single signals and the product signals respectively:

$$s\,c_{E5-S}(t) = \sum_{i=-\infty}^{\infty} A\,S_{|i|_8}\,rect_{T_{S,E5}/8}\left(t - i\,T_{s,E5}/8\right)$$

$$s\,c_{E5-P}(t) = \sum_{i=-\infty}^{\infty} A\,P_{|i|_8}\,rect_{T_{S,E5}/8}\left(t - i\,T_{s,E5}/8\right)$$

Eq. 5

The coefficients AS_i and AP_i are according to Table 5.

i	0	1	2	3	4	5	6	7
$2\,AS_i$	$\sqrt{2}+1$	1	-1	$-\sqrt{2}-1$	$-\sqrt{2}-1$	-1	1	$\sqrt{2}+1$
$2\,AP_i$	$-\sqrt{2}+1$	1	-1	$\sqrt{2}-1$	$\sqrt{2}-1$	-1	1	$-\sqrt{2}+1$

Table 5.   AltBOC Subcarrier Coefficients

One period of the sub-carrier functions sc_{E5-S} and sc_{E5-P} is shown in Figure 4.
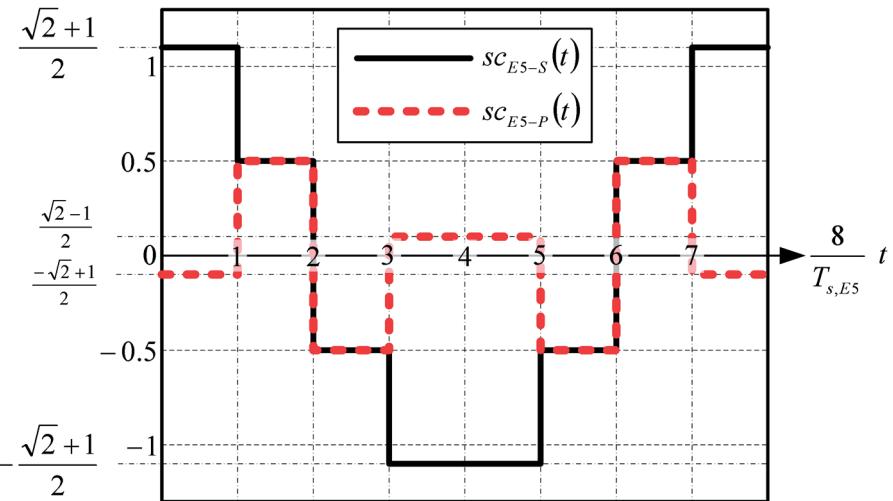
Figure 4.   One Period of the Two Subcarrier Functions Involved in AltBOC Modulation

2.3.1.3. Equivalent Modulation Type

Equivalently, the AltBOC complex baseband signal $s_{E5}(t)$ can be described as an 8-PSK signal according to Eq. 6. The corresponding phase states are illustrated in Figure 5.

$$s_{E5}(t) = \exp\left(j\frac{\pi}{4}k(t)\right) \quad \text{with} \quad k(t) \in \{1,2,3,4,5,6,7,8\},$$

Eq. 6
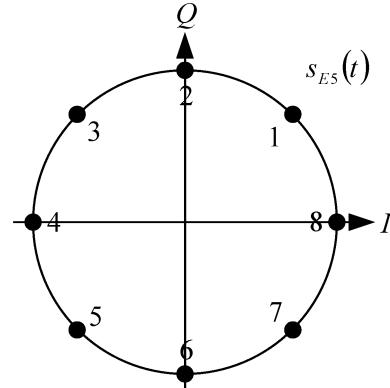
Figure 5.   8-PSK Phase-State Diagram of E5 AltBOC Signal

The relation of the 8 phase states to the 16 different possible states of the quadruple $e_{E5a\text{-}I}(t)$, $e_{E5a\text{-}Q}(t)$, $e_{E5b\text{-}I}(t)$, and $e_{E5b\text{-}Q}(t)$ depends also on time. Therefore, time is partitioned first in sub-carrier intervals $T_{s,E5}$ and further sub-divided in 8 equal sub-periods. The index i_{Ts} of the actual sub-period is given by Eq. 7 and determines which relation between input quadruple and phase states has to be used.

$$i_{Ts} = \text{integer part}\left[\frac{8}{T_{s,E5}}\left(t \ \text{modulo} \ T_{s,E5}\right)\right] \quad with \quad i_{Ts} \in \{0,1,2,3,4,5,6,7\}$$

Eq. 7

The dependency of phase-states from input-quadruples and time is given in Table 6.

		Input Quadruples															
eE5a-I		-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1
eE5b-I		-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	1
eE5a-Q		-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1
eE5b-Q		-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1
$t' = t$ modulo $T_{s,E5}$		k according to $s_{E5}(t)=exp(jk\pi/4)$															
i_{Ts}	t'																
0	$[0,T_{s,E5}/8[$	5	4	4	3	6	3	1	2	6	5	7	2	7	8	8	1
1	$[T_{s,E5}/8, 2\,T_{s,E5}/8[$	5	4	8	3	2	3	1	2	6	5	7	6	7	4	8	1
2	$[2\,T_{s,E5}/8, 3\,T_{s,E5}/8[$	1	4	8	7	2	3	1	2	6	5	7	6	3	4	8	5
3	$[3\,T_{s,E5}/8, 4\,T_{s,E5}/8[$	1	8	8	7	2	3	1	6	2	5	7	6	3	4	4	5
4	$[4\,T_{s,E5}/8, 5\,T_{s,E5}/8[$	1	8	8	7	2	7	5	6	2	1	3	6	3	4	4	5
5	$[5\,T_{s,E5}/8, 6\,T_{s,E5}/8[$	1	8	4	7	6	7	5	6	2	1	3	2	3	8	4	5
6	$[6\,T_{s,E5}/8, 7\,T_{s,E5}/8[$	5	8	4	3	6	7	5	6	2	1	3	2	7	8	4	1
7	$[7\,T_{s,E5}/8, T_{s,E5}[$	5	4	4	3	6	7	5	2	6	1	3	2	7	8	8	1

Table 6. Look-up Table for AltBOC Phase States

2.3.2. E6 Signal

Figure 6 provides a generic view of the E6 signal generation.
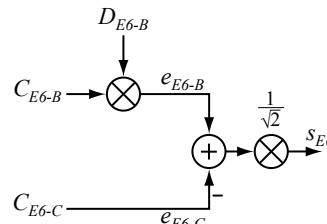
Figure 6. Modulation Scheme for the E6 Signal

The E6 signal B and C components are generated according to the following

- $e_{E6\text{-}B}$ from the C/NAV navigation data stream $D_{E6\text{-}B}$ modulated with the encrypted ranging code $C_{E6\text{-}B}$

- $e_{E6\text{-}C}$ (pilot component) from the ranging code $C_{E6\text{-}C}$

Equation 8 provides their mathematical description.

$$e_{E6-B}(t) = \sum_{i=-\infty}^{+\infty}\left[c_{E6-B,|i|_{L_{E6-B}}}\ d_{E6-B,[i]_{DC_{E6-B}}}\ rect_{T_{C,E6-B}}\left(t - iT_{C,E6-B}\right)\right]$$

$$e_{E6-C}(t) = \sum_{i=-\infty}^{+\infty}\left[c_{E6-C,|i|_{L_{E6-C}}}\ rect_{T_{C,E6-C}}\left(t - iT_{C,E6-C}\right)\right]$$

Eq. 8

The Galileo satellites transmit the E6 signal components with the ranging codes chip rates and symbol rates stated in Table 7.

Component (Parameter Y)	Ranging code chip Rate $R_{C,E6-Y}$ (MChip/s)	Symbol Rate $R_{D,E6-Y}$ (symbols/s)
B	5.115	1000
C	5.115	No data ('pilot component')

Table 7.   E6 Chip Rates and Symbol Rates

The E6 signal is generated according to Eq. 9, with the binary signal components $e_{E6-B}(t)$ and $e_{E6-C}(t)$. Note that both pilot and data components are combined on the same carrier component, with a power sharing of 50 percent.

$$s_{E6}(t) \quad = \frac{1}{\sqrt{2}}\left[e_{E6-B}(t) - e_{E6-C}(t)\right]$$

Eq. 9

2.3.3. E1 Signal

Figure 7 provides a generic view of the E1 CBOC signal generation.
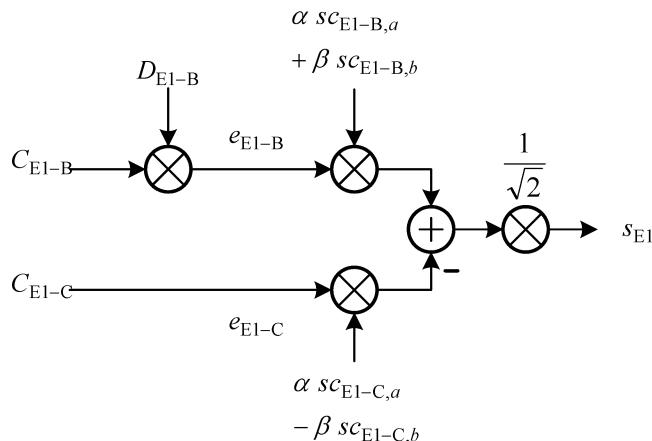
Figure 7.   Modulation Scheme for the E1 CBOC Signal

The E1 CBOC signal components are generated as follows:

- e_{E1-B} from the I/NAV navigation data stream D_{E1-B} and the ranging code C_{E1-B}, then modulated with the sub-carriers $sc_{E1-B,a}$ and $sc_{E1-B,b}$

- e_{E1-C} (pilot component) from the ranging code C_{E1-C} including its secondary code, then modulated with the sub-carriers $sc_{E1-C,a}$ and $sc_{E1-C,b}$

Equation 10 provides the mathematical description of these components.

$$e_{E1-B}(t) \quad = \sum_{i=-\infty}^{+\infty}\left[c_{E1-B,|i|_{L_{L1-B}}}\ D_{E1-B,[i]_{DC_{E1-B}}}\ rect_{T_{c,E1-B}}\left(t - iT_{c,E1-B}\right)\right]$$

$$e_{E1-C}(t) \quad = \sum_{i=-\infty}^{+\infty}\left[c_{E1-C,|i|_{L_{L1-C}}}\ rect_{T_{c,E1-C}}\left(t - iT_{c,E1-C}\right)\right]$$

Eq.10

Galileo satellites transmit ranging signals for the E1 signal with the chip rates and sub-carrier rates defined in the following Table 8.

Component (Parameter Y)	Sub-carrier Type	Sub-carrier Rate		Ranging Code Chip-Rate $R_{C,E1\text{-}Y}$ (Mcps)
		$R_{S,E1\text{-}Y,a}$ (MHz)	$R_{S,E1\text{-}Y,b}$ (MHz)	
B	CBOC, in-phase	1.023	6.138	1.023
C	CBOC, anti-phase	1.023	6.138	1.023

Table 8.   E1 SoL CBOC Chip- and Sub-carrier Rates

The navigation data message stream, after channel encoding, is transmitted with the symbol rate as stated in Table 9.

Component (Parameter Y)	Symbol Rate $R_{D,E1\text{-}Y}$ (symbols/s)
B	250
C	No data ('pilot component')

Table 9.   E1 SoL Symbol Rates

The E1 SoL composite signal is then generated according to equation Eq. 11 below, with the binary signal components $e_{E1\text{-}B}(t)$ and $e_{E1\text{-}C}(t)$. Note that as for E6, both pilot and data components are modulated onto the same carrier component, with a power sharing of 50 percent.

$$s_{E1}(t) = \frac{1}{\sqrt{2}} \left(e_{E1-B}(t) \left(\alpha \, s\,c_{E1-B,a}(t) + \beta \, s\,c_{E1-B,b}(t) \right) - e_{E1-C}(t) \left(\alpha \, s\,c_{E1-C,a}(t) - \beta \, s\,c_{E1-C,b}(t) \right) \right)$$

Eq. 11

$$\text{with} \quad s\,c_X(t) = \text{sgn}\left(\sin\left(2\pi\,R_{s,X}\,t \right) \right)$$

The parameters α and β are chosen such as that the combined power of the $sc_{E1-B,b}$ and the $sc_{E1-C,b}$ sub carrier components equals 1/11 of the total power of e_{E1-B} plus e_{E1-C}, before application of any bandwidth limitation. This yields:

$$\alpha = \sqrt{\frac{10}{11}} \quad \text{and} \quad \beta = \sqrt{\frac{1}{11}}$$

One period of the sub-carrier function $\alpha\,sc_{E1-B,a}(t) + \beta\,sc_{E1-B,b}(t)$ for the E1-B signal component and one period of the sub-carrier function $\alpha\,sc_{E1-C,a}(t) - \beta\,sc_{E1-C,b}(t)$ for the E1-C signal component are shown in the following figure
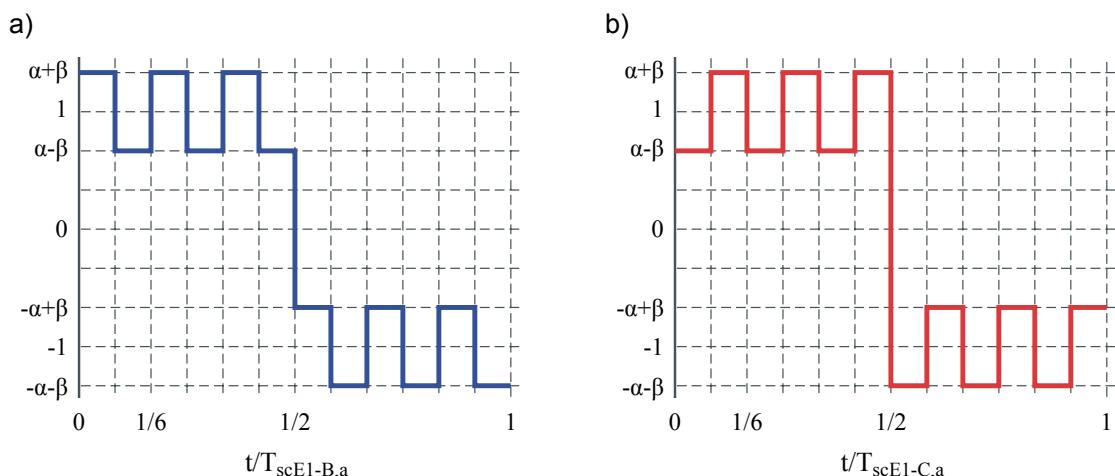
Figure 8.   One period of the CBOC sub-carrier for a) the L1-B signal component, and b) the L1-C signal component

2.4. Logic Levels

The correspondence between the logic level code bits used to modulate the signal and the signal level is according to the values stated in Table 10.

Logic Level	Signal Level
1	-1.0
0	+1.0

Table 10.   Logic to Signal Level Assignment

2.5. Transmitted Signal Phase Noise

The phase noise spectral density of the un-modulated carrier will allow a second-order phase locked loop with 10 Hz one-sided noise bandwidth to track the carrier to an accuracy of 0.04 radians RMS.

2.6. Transmitted Signals Code/Data Coherency

The edge of each data symbol coincides with the edge of a code chip. Periodic spreading codes start coincides with the start of a data symbol.

The edge of each secondary code chip coincides with the edge of a primary code chip. Primary code start coincides with the start of a secondary code chip.

2.7. Received Power Levels on Ground

2.7.1. Minimum Levels

The Galileo satellites will provide Galileo E5, E6 and E1 signals strength in order to meet the minimum levels specified in 0. The minimum received power on ground is measured at the output of an ideally matched RHCP 0 dBi polarized user receiving antenna when the SV elevation angle is higher than 10 degrees.

Signal	Signal Component	Total Received Minimum Power (dBW)
E5	E5a (total I+Q) (50/50% I/Q power sharing)	-155
	E5b (total I+Q) (50/50% I/Q power sharing)	-155
E6	E6 CS (total B+C) (50/50% E6-B/E6-C power sharing)	-155
E1	E1 OS/SoL (total B+C) (50/50% E1-B/E1-C power sharing)	-157

Table 11.   Received Minimum Power Levels on Ground

For a 5 degree user elevation angle, the user minimum received power will typically be 0.25 dB lower than specified in Table 11 above.

2.7.2. Maximum Levels

The Galileo terrestrial user's maximum received signal power level is, using the same assumptions as for the minimum received power, not expected to exceed 3 dB above the corresponding minimum received power.

For purposes of establishing user receiver dynamic range for receiver design and test, the maximum received signal power level is not expected to exceed 7 dB above the corresponding minimum received power.

2.8. Payload and Component Reception Losses

The correlation loss due to payload distortions will be below 0.6 dB.

For the reference receiver bandwidths defined in section 2.1.3, additional losses due to receiver filtering are to be considered, as shown in Table 12.

Signal	Loss (dB)
E1	0.1
E6	0.0
E5	0.4
E5a	0.6
E5b	0.6

Table 12.   Additional Losses due to Receiver Filtering

3. Galileo Spreading Codes Characteristics

3.1. Code Lengths

The ranging codes are built from so-called primary and secondary codes by using a tiered codes construction described in paragraph 3.2. The code lengths to be used for each signal component are stated in Table 13. Note that the E6 ranging codes are not subject of this SIS ICD.

Signal Component	Tiered Code Period (ms)	Code Length (chips)	
		Primary	Secondary
E5a-I	20	10230	20
E5a-Q	100	10230	100
E5b-I	4	10230	4
E5b-Q	100	10230	100
E1-B	4	4092	N/A
E1-C	100	4092	25

Table 13.   Code Lengths

3.2. Tiered Codes Generation

Long spreading codes are generated by a tiered code construction, whereby a secondary code sequence is used to modify successive repetitions of a primary code periods, as shown in Figure 9 for a primary code of length N and chip rate f_c, and a secondary code of length N_S and chip rate $f_{cs} = f_c/N$. The duration of N chips is also called a primary code epoch in Figure 9. In logical representation, the secondary code chips are sequentially exclusive-ored with the primary code, always one chip of the secondary code per period of the primary code.
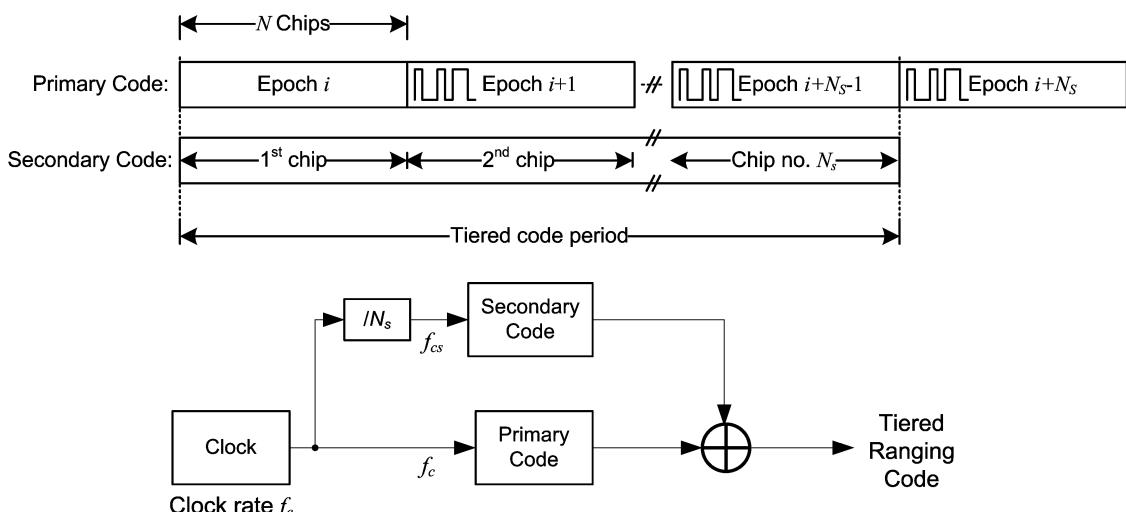
Figure 9.   Tiered Codes Generation

3.3. Primary Codes Generation

The primary spreading codes can be either

- Linear feedback shift register-based pseudo-noise sequences, or

- Optimized pseudo-noise sequences

Optimized codes need to be stored in memory and therefore are often called 'memory codes'. Register based codes used in Galileo are generated as combinations of two M-sequences, being truncated to the appropriate length. These codes can be generated either with pairs of LFSR or might be also stored in memory.

Figure 10 shows an example standard implementation of the LFSR method for the generation of truncated and combined M sequences. Two parallel shift registers are used: base register 1 and base register 2. The primary code output sequence is the exclusive OR of base register 1 and 2 output sequences, the shift between these two sequences is zero. Each shift register i (i=1 for base register 1 and i = 2 base register 2) of length R is fed back with a particular set of feedback taps $\{a_{i,j}\}_{j=1\ldots R} = [a_{i,1}, a_{i,2}, \ldots, a_{i,R}]$ and its content is represented by a vector $\{c_{i,j}\}_{j=1\ldots R} = [c_{i,1}, c_{i,2}, \ldots, c_{i,R}]$. For truncation to primary code length N, the content of the two shift registers is reinitialised (reset) after N cycles with the so-called start-values $\{s_{i,j}\}_{j=1\ldots R} = [s_{i,1}, s_{i,2}, \ldots, s_{i,R}]$.
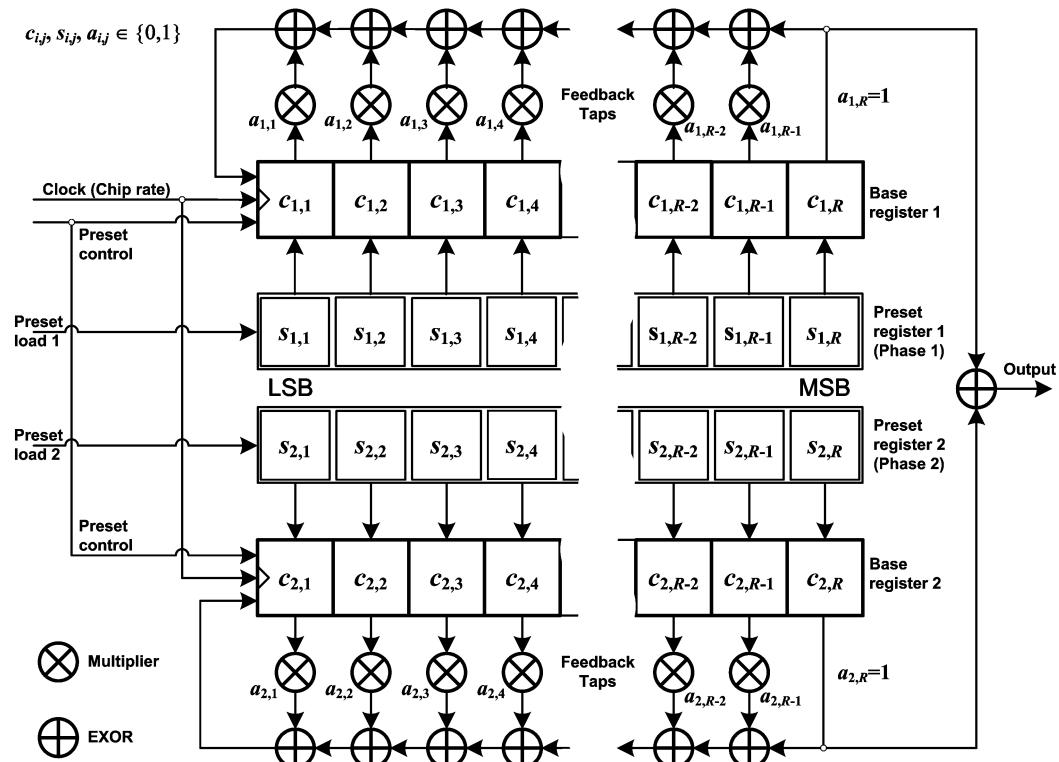
Figure 10.   LFSR Based Code Generator for Truncated and Combined M-sequences

3.4. Primary Codes Definition

3.4.1. E5 Primary Codes

In case of memory codes, the E5a-I, E5a-Q, E5b-I and E5b-Q primary codes are according to the representation provided in Annex C. In case of generation via LFSR, those primary codes use the principle defined in paragraph 3.3, using the parameters defined in Table 14. Note that each set of codes for each signal component comprises 50 members.

Component	Shift Register Length (polynomial order)	Feedback Taps (octal)	
		Register 1	Register 2
E5a-I	14	40503	50661
E5a-Q	14	40503	50661
E5b-I	14	64021	51445
E5b-Q	14	64021	43143

Table 14.   E5 Primary Codes Specifications

The transformation between the octal notation and the vector description $\{a_{i,j}\}$ for the feedback tap positions is defined as follows and is illustrated with an example (Register 1 for E5a-I in Table 14) in Figure 11. After transferring the octal vector notation into binary notation, the bits are counted right to left starting with $j = 0$ from the LSB and ending with $j = R$ at the MSB, where R is the code register length. Then the jth bit applies for the feedback tap $a_{i,j}$ for $j = 1, \ldots, R$, as shown in Figure 10. Note, $a_{i,R}$ is always one and $a_{i,0}$ is not considered in the register feedback tap.
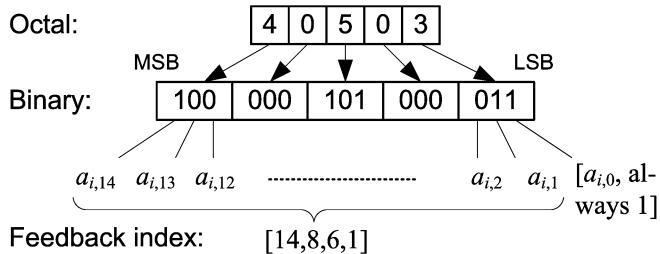
Figure 11.   Code Register Feedback Taps Representation (example for E5a-I)

The start values for all base register 1 cells, in logic level notation, are '1' for all codes of E5a-I, E5a-Q, E5b-I and E5b-Q. The start values of base register 2 are provided in the subsequent sections. The transformation between the octal notation and the vector description $\{s_{i,j}\}$ for the register start values is defined as follows and is illustrated with an example in Figure 12 (code number 1 of E5a-I in Table 15). After transferring the octal notation in binary notation, the bits are counted right to left starting with $j=1$ (note the different start value compared to the feedback taps definition) from the LSB and ending with $j=R$ at the MSB, where R is the code register length. Then the jth bit applies to the start value $s_{i,j}$ for $j = 1, \ldots, R$, as shown in Figure 10. Note in this example the MSB is zero in order to complete the 14-bits binary value sequence to fit into a sequence of octal symbols.
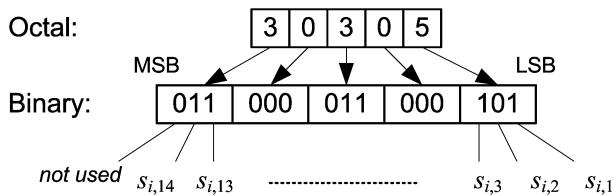
Figure 12.   Start Value Representation for Base Register 2 (first code of E5a-I)

3.4.1.1.   Base Register 2 Start Value for E5a-I

The octal format base register 2 start value with the convention defined in paragraph 3.4.1 is as defined in Table 15 for each primary E5a-I code. In addition, the conventional hexadecimal format of the first 24 code chips of the E5a-I primary codes is given in the table. For example, the first 24 chips of the E5a-I primary code N°1 in Table 15 are 0 0 1 1 1 1 0 0 1 1 1 0 1 0 1 0 1 0 0 1 1 1 0 1, the first binary value corresponding to the first primary code chip in time.

Code No	Start Value	Initial Sequence	Code No	Start Value	Initial Sequence
1	30305	3CEA9D	26	14401	9BFAC7
2	14234	9D8CF1	27	34727	18A25B
3	27213	45D1C8	28	22627	69A39F
4	20577	7A0133	29	30623	39B27D
5	23312	64D423	30	27256	454598
6	33463	23300D	31	01520	F2BC62
7	15614	91CEF2	32	14211	9DDBC6
8	12537	AA82DC	33	31465	332827
9	01527	F2A17D	34	22164	6E2FCA
10	30236	3D84AE	35	33516	22C6D5
11	27344	446D38	36	02737	E881D9
12	07272	C514F2	37	21316	74C4DB
13	36377	0C0184	38	35425	13AB03
14	17046	8767E0	39	35633	119323
15	06434	CB8EFF	40	24655	594886
16	15405	93EBCD	41	14054	9F4D89
17	24252	5D55CE	42	27027	47A3C0
18	11631	B19B7C	43	06604	C9ED53
19	24776	5805FC	44	31455	334994
20	00630	F99EA1	45	34465	1B2A30
21	11560	B23CE5	46	25273	5513F3
22	17272	8515E8	47	20763	7831C1
23	27445	436822	48	31721	30B93A
24	31702	30F77B	49	17312	84D5B4
25	13012	A7D629	50	13277	A5029C

Table 15.   Base Register 2 start Values and First Code Chip for E5a-I

3.4.1.2. Base Register 2 Start Value for E5a-Q

The octal format base register 2 start value with the convention defined in paragraph 3.4.1 is as defined in Table 16 for each E5a-Q primary code. The hexadecimal format of the first 24 code chips with the convention defined in paragraph 3.4.1.1 is also given.

Code No	Start Value	Initial Sequence	Code No	Start Value	Initial Sequence
1	25652	515537	26	20606	79E450
2	05142	D67539	27	11162	B63460
3	24723	58B2E5	28	22252	6D562B
4	31751	305914	29	30533	3A9010

Code No	Start Value	Initial Sequence	Code No	Start Value	Initial Sequence
5	27366	442710	30	24614	59CD72
6	24660	593CF8	31	07767	C0211A
7	33655	214AD7	32	32705	28EB96
8	27450	435EA6	33	05052	D7554B
9	07626	C1A7D5	34	27553	425126
10	01705	F0E94A	35	03711	E0DAFB
11	12717	A8C239	36	02041	EF79F2
12	32122	2EB63B	37	34775	18085D
13	16075	8F0A46	38	05274	D50CD8
14	16644	896DD4	39	37356	0447B9
15	37556	0245F1	40	16205	8DE877
16	02477	EB0160	41	36270	0D1FA0
17	02265	ED28B3	42	06600	C9FCF7
18	06430	CB9F5B	43	26773	48116D
19	25046	576592	44	17375	840BCC
20	12735	A88811	45	35267	152004
21	04262	DD3649	46	36255	0D4897
22	11230	B59F42	47	12044	AF6D25
23	00037	FF81F6	48	26442	4B7593
24	06137	CE8128	49	21621	71BB1B
25	04312	DCD55C	50	25411	53DA0E

Table 16.   Base Register 2 Start Values and First Code Chip for E5a-Q

3.4.1.3. Base Register 2 Start Value for E5b-I

The octal format base register 2 start value with the conventions defined in paragraph 3.4.1 is as defined in Table 17 for each E5b-I primary code. The hexadecimal format of the first 24 code chips with the conventions defined in paragraph 3.4.1.1 is also given.

Code No	Start Value	Initial Sequence	Code No	Start Value	Initial Sequence
1	07220	C5BEA1	26	25664	512FA9
2	26047	4F6248	27	21403	73F36B
3	00252	FD5488	28	32253	2D5317
4	17166	86277B	29	02337	EC8390
5	14161	9E39D5	30	30777	380374
6	02540	EA7EDE	31	27122	46B4DE
7	01537	F28321	32	22377	6C01D9
8	26023	4FB0C9	33	36175	0E0BB6
9	01725	F0AB64	34	33075	2708C7

Code No	Start Value	Initial Sequence	Code No	Start Value	Initial Sequence
10	20637	79833B	35	33151	265B55
11	02364	EC2D91	36	13134	A68E1C
12	27731	409B11	37	07433	C3916E
13	30640	397E16	38	10216	BDC595
14	34174	1E0FCD	39	35466	1327D0
15	06464	CB2F5A	40	02533	EA921F
16	07676	C1079A	41	05351	D45869
17	32231	2D9BC6	42	30121	3EB98A
18	10353	BC5146	43	14010	9FDE16
19	00755	F848B0	44	32576	2A04CA
20	26077	4F01E8	45	30326	3CA56F
21	11644	B16C9B	46	37433	03928A
22	11537	B2827D	47	26022	4FB5B9
23	35115	16C809	48	35770	101EC7
24	20452	7B570F	49	06670	C91D4F
25	34645	1969C0	50	12017	AFC22B

Table 17.   Base Register 2 Start Values and First Code Chip for E5b-I

3.4.1.4. Base Register 2 Start Value for E5b-Q

The octal format base register 2 start value with the conventions defined in paragraph 3.4.1 is as defined in Table 18 for each E5b-Q primary code. The hexadecimal format of the first 24 code chips with the conventions defined in paragraph 3.4.1.1 is also given.

Code No	Start Value	Initial Sequence	Code No	Start Value	Initial Sequence
1	03331	E49AF0	26	20134	7E8CFB
2	06143	CE701F	27	11262	B536C3
3	25322	54B709	28	10706	B8E68C
4	23371	641AB1	29	34143	1E7272
5	00413	FBD0AE	30	11051	B75B69
6	36235	0D8BC9	31	25460	533F65
7	17750	805FA5	32	17665	812B41
8	04745	D86BA0	33	32354	2C4DE1
9	13005	A7E921	34	21230	759E2C
10	37140	067E55	35	20146	7E6434
11	30155	3E4B58	36	11362	B43640
12	20237	7D82FB	37	37246	05671B
13	03461	E33BC2	38	16344	8C6FE0
14	31662	31372C	39	15034	978D4E
15	27146	46676F	40	25471	5319BF

Code No	Start Value	Initial Sequence	Code No	Start Value	Initial Sequence
16	05547	D2613E	41	25646	516499
17	02456	EB443C	42	22157	6E4292
18	30013	3FD0B1	43	04336	DC86A3
19	00322	FCB7CF	44	16356	8C46BE
20	10761	B83815	45	04075	DF0B03
21	26767	48224A	46	02626	E9A5B2
22	36004	0FEE25	47	11706	B0E553
23	30713	38D33B	48	37011	07DBAC
24	07662	C135B9	49	27041	4778E4
25	21610	71DE13	50	31024	37AF4F

Table 18. Base Register 2 Start Values and First Code Chip for E5b-Q

3.4.2. E1-B and E1-C Primary Codes

The E1-B and E1-C primary codes are pseudo-random memory code sequences according to the hexadecimal representation provided in Annex C. Note that each set of codes for each signal component comprises 50 members.

3.5. Secondary Codes

3.5.1. Definition of Secondary Codes

The secondary codes are fixed sequences as defined in hexadecimal notation in Table 19 and Table 20, following again the convention used in paragraph 3.4.1.1. For secondary codes whose length is not dividable by four (case of $CS25_1$ only), the last (most right-hand) hexadecimal symbol is obtained by filling up the last group of code chips with zeros at the end in time (to the right), to reach a final length of 4 binary symbols. Those two tables provide as well the code identifiers together with the code lengths, the number of hexadecimal symbols and the number of filled zeros.

For example, the CS251 secondary code in Table 19 corresponds to the binary sequence '0 0 1 1 1 0 0 0 0 0 0 0 1 0 1 0 1 1 0 1 1 0 0 1 0', the first binary value corresponding to the first secondary code chip in time.

Code Identifier	Code Length	No. of Hexadec. Symbols	Number of Filled up Zeros	Code Sequence
$CS4_1$	4	1	0	E
$CS20_1$	20	5	0	842E9
$CS25_1$	25	7	3	380AD90
$CS100_1$	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

Code Identifier	Code Length	No. of Hexadec. Symbols	Number of Filled up Zeros	Code Sequence
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
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$_{40}$	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

Code Identifier	Code Length	No. of Hexadec. Symbols	Number of Filled up Zeros	Code Sequence
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 19.   Secondary Code Sequences (Part 1)

Code Identifier	Code Length	No. of Hexadec. Symbols	Number of Filled up Zeros	Code Sequence
CS100$_{51}$	100	25	0	CFF914EE3C6126A49FD5E5C94
CS100$_{52}$	100	25	0	FC317C9A9BF8C6038B5CADAB3
CS100$_{53}$	100	25	0	A2EAD74B6F9866E414393F239
CS100$_{54}$	100	25	0	72F2B1180FA6B802CB84DF997
CS100$_{55}$	100	25	0	13E3AE93BC52391D09E84A982
CS100$_{56}$	100	25	0	77C04202B91B22C6D3469768E
CS100$_{57}$	100	25	0	FEBC592DD7C69AB103D0BB29C
CS100$_{58}$	100	25	0	0B494077E7C66FB6C51942A77
CS100$_{59}$	100	25	0	DD0E321837A3D52169B7B577C
CS100$_{60}$	100	25	0	43DEA90EA6C483E7990C3223F
CS100$_{61}$	100	25	0	0366AB33F0167B6FA979DAE18
CS100$_{62}$	100	25	0	99CCBBFAB1242CBE31E1BD52D
CS100$_{63}$	100	25	0	A3466923CEFDF451EC0FCED22
CS100$_{64}$	100	25	0	1A5271F22A6F9A8D76E79B7F0
CS100$_{65}$	100	25	0	3204A6BB91B49D1A2D3857960
CS100$_{66}$	100	25	0	32F83ADD43B599CBFB8628E5B
CS100$_{67}$	100	25	0	3871FB0D89DB77553EB613CC1
CS100$_{68}$	100	25	0	6A3CBDFF2D64D17E02773C645
CS100$_{69}$	100	25	0	2BCD09889A1D7FC219F2EDE3B
CS100$_{70}$	100	25	0	3E49467F4D4280B9942CD6F8C
CS100$_{71}$	100	25	0	658E336DCFD9809F86D54A501
CS100$_{72}$	100	25	0	ED4284F345170CF77268C8584
CS100$_{73}$	100	25	0	29ECCE910D832CAF15E3DF5D1
CS100$_{74}$	100	25	0	456CCF7FE9353D50E87A708FA
CS100$_{75}$	100	25	0	FB757CC9E18CBC02BF1B84B9A
CS100$_{76}$	100	25	0	5686229A8D98224BC426BC7FC
CS100$_{77}$	100	25	0	700A2D325EA14C4B7B7AA8338

Code Identifier	Code Length	No. of Hexadec. Symbols	Number of Filled up Zeros	Code Sequence
CS100$_{78}$	100	25	0	1210A330B4D3B507D854CBA3F
CS100$_{79}$	100	25	0	438EE410BD2F7DBCDD85565BA
CS100$_{80}$	100	25	0	4B9764CC455AE1F61F7DA432B
CS100$_{81}$	100	25	0	BF1F45FDDA3594ACF3C4CC806
CS100$_{82}$	100	25	0	DA425440FE8F6E2C11B8EC1A4
CS100$_{83}$	100	25	0	EE2C8057A7C16999AFA33FED1
CS100$_{84}$	100	25	0	2C8BD7D8395C61DFA96243491
CS100$_{85}$	100	25	0	391E4BB6BC43E98150CDDCADA
CS100$_{86}$	100	25	0	399F72A9EADB42C90C3ECF7F0
CS100$_{87}$	100	25	0	93031FDEA588F88E83951270C
CS100$_{88}$	100	25	0	BA8061462D873705E95D5CB37
CS100$_{89}$	100	25	0	D24188F88544EB121E963FD34
CS100$_{90}$	100	25	0	D5F6A8BB081D8F383825A4DCA
CS100$_{91}$	100	25	0	0FA4A205F0D76088D08EAF267
CS100$_{92}$	100	25	0	272E909FAEBC65215E263E258
CS100$_{93}$	100	25	0	3370F35A674922828465FC816
CS100$_{94}$	100	25	0	54EF96116D4A0C8DB0E07101F
CS100$_{95}$	100	25	0	DE347C7B27FADC48EF1826A2B
CS100$_{96}$	100	25	0	01B16ECA6FC343AE08C5B8944
CS100$_{97}$	100	25	0	1854DB743500EE94D8FC768ED
CS100$_{98}$	100	25	0	28E40C684C87370CD0597FAB4
CS100$_{99}$	100	25	0	5E42C19717093353BCAAF4033
CS100$_{100}$	100	25	0	64310BAD8EB5B36E38646AF01

Table 20.   Secondary Code Sequences (Part 2)

3.5.2. Secondary Codes Assignment

The assignment of the secondary codes of paragraph 3.5.1 to the signal components is according to Table 21. For the 4, 20 and 25 bit secondary codes the same code is used for all associated primary codes. For the 100 bit codes, an independent secondary code is assigned for each primary code.

Component	Secondary Code Assignment
E5a-I	CS20$_1$
E5a-Q	CS100$_{1-50}$
E5b-I	CS4$_1$
E5b-Q	CS100$_{51-100}$
E6-B	N/A

Component	Secondary Code Assignment
E6-C	$CS100_{1-50}$
E1-B	N/A
E1-C	$CS25_1$

Table 21.   Secondary Code Assignment

3.6. Code Assignments to Satellites

3.6.1. Primary code assignment to satellites

The families of primary codes as well as their assignment to satellites as given below are provisional.

The E5a-I, E5a-Q, E5b-I, E5b-Q, L1-B, and L1-C primary codes (defined in Annex C) will be allocated to the space vehicle IDs (SVID) as given in the tables below

SVID	E5a-I	E5a-Q	E5b-I	E5b-Q
1	E5a-I code No 1	E5a-Q code No 1	E5b-I code No 1	E5b-Q code No 1
2	E5a-I code No 2	E5a-Q code No 2	E5b-I code No 2	E5b-Q code No 2
3	E5a-I code No 3	E5a-Q code No 3	E5b-I code No 3	E5b-Q code No 3
4	E5a-I code No 4	E5a-Q code No 4	E5b-I code No 4	E5b-Q code No 4
5	E5a-I code No 5	E5a-Q code No 5	E5b-I code No 5	E5b-Q code No 5
6	E5a-I code No 6	E5a-Q code No 6	E5b-I code No 6	E5b-Q code No 6
7	E5a-I code No 7	E5a-Q code No 7	E5b-I code No 7	E5b-Q code No 7
8	E5a-I code No 8	E5a-Q code No 8	E5b-I code No 8	E5b-Q code No 8
9	E5a-I code No 9	E5a-Q code No 9	E5b-I code No 9	E5b-Q code No 9
10	E5a-I code No 10	E5a-Q code No 10	E5b-I code No 10	E5b-Q code No 10
11	E5a-I code No 11	E5a-Q code No 11	E5b-I code No 11	E5b-Q code No 11
12	E5a-I code No 12	E5a-Q code No 12	E5b-I code No 12	E5b-Q code No 12
13	E5a-I code No 13	E5a-Q code No 13	E5b-I code No 13	E5b-Q code No 13
14	E5a-I code No 14	E5a-Q code No 14	E5b-I code No 14	E5b-Q code No 14
15	E5a-I code No 15	E5a-Q code No 15	E5b-I code No 15	E5b-Q code No 15
16	E5a-I code No 16	E5a-Q code No 16	E5b-I code No 16	E5b-Q code No 16
17	E5a-I code No 17	E5a-Q code No 17	E5b-I code No 17	E5b-Q code No 17
18	E5a-I code No 18	E5a-Q code No 18	E5b-I code No 18	E5b-Q code No 18
19	E5a-I code No 19	E5a-Q code No 19	E5b-I code No 19	E5b-Q code No 19
20	E5a-I code No 20	E5a-Q code No 20	E5b-I code No 20	E5b-Q code No 20
21	E5a-I code No 21	E5a-Q code No 21	E5b-I code No 21	E5b-Q code No 21
22	E5a-I code No 22	E5a-Q code No 22	E5b-I code No 22	E5b-Q code No 22
23	E5a-I code No 23	E5a-Q code No 23	E5b-I code No 23	E5b-Q code No 23
24	E5a-I code No 24	E5a-Q code No 24	E5b-I code No 24	E5b-Q code No 24
25	E5a-I code No 25	E5a-Q code No 25	E5b-I code No 25	E5b-Q code No 25
26	E5a-I code No 26	E5a-Q code No 26	E5b-I code No 26	E5b-Q code No 26

SVID	E5a-I	E5a-Q	E5b-I	E5b-Q
27	E5a-I code No 27	E5a-Q code No 27	E5b-I code No 27	E5b-Q code No 27
28	E5a-I code No 28	E5a-Q code No 28	E5b-I code No 28	E5b-Q code No 28
29	E5a-I code No 29	E5a-Q code No 29	E5b-I code No 29	E5b-Q code No 29
30	E5a-I code No 30	E5a-Q code No 30	E5b-I code No 30	E5b-Q code No 30
31	E5a-I code No 31	E5a-Q code No 31	E5b-I code No 31	E5b-Q code No 31
32	E5a-I code No 32	E5a-Q code No 32	E5b-I code No 32	E5b-Q code No 32
33	E5a-I code No 33	E5a-Q code No 33	E5b-I code No 33	E5b-Q code No 33
34	E5a-I code No 34	E5a-Q code No 34	E5b-I code No 34	E5b-Q code No 34
35	E5a-I code No 35	E5a-Q code No 35	E5b-I code No 35	E5b-Q code No 35
36	E5a-I code No 36	E5a-Q code No 36	E5b-I code No 36	E5b-Q code No 36

Table 22.   Allocation of E5a-I, E5a-Q, E5b-I and E5b-Q primary codes to SVIDs

SVID	L1-B	L1-C
1	L1-B code No 1	L1-C code No 1
2	L1-B code No 2	L1-C code No 2
3	L1-B code No 3	L1-C code No 3
4	L1-B code No 4	L1-C code No 4
5	L1-B code No 5	L1-C code No 5
6	L1-B code No 6	L1-C code No 6
7	L1-B code No 7	L1-C code No 7
8	L1-B code No 8	L1-C code No 8
9	L1-B code No 9	L1-C code No 9
10	L1-B code No 10	L1-C code No 10
11	L1-B code No 11	L1-C code No 11
12	L1-B code No 12	L1-C code No 12
13	L1-B code No 13	L1-C code No 13
14	L1-B code No 14	L1-C code No 14
15	L1-B code No 15	L1-C code No 15
16	L1-B code No 16	L1-C code No 16
17	L1-B code No 17	L1-C code No 17
18	L1-B code No 18	L1-C code No 18
19	L1-B code No 19	L1-C code No 19
20	L1-B code No 20	L1-C code No 20
21	L1-B code No 21	L1-C code No 21
22	L1-B code No 22	L1-C code No 22
23	L1-B code No 23	L1-C code No 23
24	L1-B code No 24	L1-C code No 24
25	L1-B code No 25	L1-C code No 25

SVID	L1-B	L1-C
26	L1-B code No 26	L1-C code No 26
27	L1-B code No 27	L1-C code No 27
28	L1-B code No 28	L1-C code No 28
29	L1-B code No 29	L1-C code No 29
30	L1-B code No 30	L1-C code No 30
31	L1-B code No 31	L1-C code No 31
32	L1-B code No 32	L1-C code No 32
33	L1-B code No 33	L1-C code No 33
34	L1-B code No 34	L1-C code No 34
35	L1-B code No 35	L1-C code No 35
36	L1-B code No 36	L1-C code No 36

Table 23.   Allocation of L1-B and L1-C primary codes to SVIDs

3.6.2. Secondary code assignment to satellites

The code families as well as their assignment to satellites as given below are provisional.

The E5a-I, E5a-Q, E5b-I, E5b-Q, and L1-C secondary codes (defined in Annex C) shall be allocated to the space vehicle IDs (SVID) as given in the tables below.

SVID	E5a-I	E5a-Q	E5b-I	E5b-Q
1	$CS20_1$	$CSI00_1$	$CS4_1$	$CSI00_{51}$
2	$CS20_1$	$CS100_2$	$CS4_1$	$CSI00_{52}$
3	$CS20_1$	$CS100_3$	$CS4_1$	$CSI00_{53}$
4	$CS20_1$	$CS100_4$	$CS4_1$	$CSI00_{54}$
5	$CS20_1$	$CS100_5$	$CS4_1$	$CSI00_{55}$
6	$CS20_1$	$CSI00_6$	$CS4_1$	$CSI00_{56}$
7	$CS20_1$	$CSI00_7$	$CS4_1$	$CSI00_{57}$
8	$CS20_1$	$CS100_8$	$CS4_1$	$CSI00_{58}$
9	$CS20_1$	$CSI00_9$	$CS4_1$	$CSI00_{59}$
10	$CS20_1$	$CS100_{10}$	$CS4_1$	$CSI00_{60}$
11	$CS20_1$	$CS100_{11}$	$CS4_1$	$CS100_{61}$
12	$CS20_1$	$CSI00_{12}$	$CS4_1$	$CS100_{62}$
13	$CS20_1$	$CSI00_{13}$	$CS4_1$	$CS100_{63}$
14	$CS20_1$	$CSI00_{14}$	$CS4_1$	$CS100_{64}$
15	$CS20_1$	$CSI00_{15}$	$CS4_1$	$CS100_{65}$
16	$CS20_1$	$CS100_{16}$	$CS4_1$	$CS100_{66}$
17	$CS20_1$	$CS100_{17}$	$CS4_1$	$CS100_{67}$
18	$CS20_1$	$CS100_{18}$	$CS4_1$	$CS100_{68}$
19	$CS20_1$	$CSI00_{19}$	$CS4_1$	$CSI00_{69}$
20	$CS20_1$	$CS100_{20}$	$CS4_1$	$CSI00_{70}$

SVID	E5a-I	E5a-Q	E5b-I	E5b-Q
21	$CS20_1$	$CS100_{21}$	$CS4_1$	$CS100_{71}$
22	$CS20_1$	$CS100_{22}$	$CS4_1$	$CS100_{72}$
23	$CS20_1$	$CS100_{23}$	$CS4_1$	$CS100_{73}$
24	$CS20_1$	$CS100_{24}$	$CS4_1$	$CSI00_{74}$
25	$CS20_1$	$CS100_{25}$	$CS4_1$	$CSI00_{75}$
26	$CS20_1$	$CS100_{26}$	$CS4_1$	$CS100_{76}$
27	$CS20_1$	$CS100_{27}$	$CS4_1$	$CS100_{77}$
28	$CS20_1$	$CS100_{28}$	$CS4_1$	$CS100_{78}$
29	$CS20_1$	$CS100_{29}$	$CS4_1$	$CSI00_{79}$
30	$CS20_1$	$CS100_{30}$	$CS4_1$	$CSI00_{80}$
31	$CS20_1$	$CS100_{31}$	$CS4_1$	$CS100_{81}$
32	$CS20_1$	$CS100_{32}$	$CS4_1$	$CS100_{82}$
33	$CS20_1$	$CS100_{33}$	$CS4_1$	$CS100_{83}$
34	$CS20_1$	$CS100_{34}$	$CS4_1$	$CSI00_{84}$
35	$CS20_1$	$CS100_{35}$	$CS4_1$	$CSI00_{85}$
36	$CS20_1$	$CS100_{36}$	$CS4_1$	$CSI00_{86}$

Table 24.   Allocation of E5a-I, E5a-Q, E5b-I and E5b-Q secondary codes to SVIDs

SVID	L1-C	SVID	L1-C
1	$CS25_1$	19	$CS25_1$
2	$CS25_1$	20	$CS25_1$
3	$CS25_1$	21	$CS25_1$
4	$CS25_1$	22	$CS25_1$
5	$CS25_1$	23	$CS25_1$
6	$CS25_1$	24	$CS25_1$
7	$CS25_1$	25	$CS25_1$
8	$CS25_1$	26	$CS25_1$
9	$CS25_1$	27	$CS25_1$
10	$CS25_1$	28	$CS25_1$
11	$CS25_1$	29	$CS25_1$
12	$CS25_1$	30	$CS25_1$
13	$CS25_1$	31	$CS25_1$
14	$CS25_1$	32	$CS25_1$
15	$CS25_1$	33	$CS25_1$
16	$CS25_1$	34	$CS25_1$
17	$CS25_1$	35	$CS25_1$
18	$CS25_1$	36	$CS25_1$

Table 25.   Allocation of L1-C secondary codes to SVIDs

4.1. General Message Format Specification

4.1.1. General Navigation Message Content

The Galileo signal-in-space data channels transmit different message types according to the general contents identified in Table 26 below. The F/NAV types of message correspond to the OS and the I/NAV types of message correspond to the SoL. Note that the C/NAV message format is not subject of this SIS ICD.

Message Type	Services	Component
F/NAV	OS	E5a-I
I/NAV	OS/CS/SoL	E5b-I and E1-B
C/NAV	CS	E6-B

Table 26.   Message Allocation and General Data Content

4.1.2. General Navigation Message Structure

The complete navigation message data are transmitted on each data component as a sequence of frames. A frame is composed of several sub-frames, and a sub-frame in turn is composed of several pages. The page is the basic structure for building the navigation message. This arrangement allows accomplishing the three different main categories of data to be transmitted, which are repeated at fast (for urgent data, such as integrity), medium (like data required for warm start TTF) and slow rates (like data required for cold start TTF).

For all message types, only the message pages as the smallest unit of data are equipped with a 'type' marker to identify the content of each page received by the user. There is no management data transmitted within the navigation message to indicate subframe and frame structures, and indeed these higher level structures are to be considered as typical flow of pages reflecting an instantaneous Galileo navigation message design, and may evolve together with future evolutions of Galileo. This evolution may involve also the inclusion of additional new page types beyond the types defined in this version of the Galileo OS SISICD. A user receiver is expected to be able to recognize page types and to react properly and well controlled to page types unknown to its software as well as to variations in the flow of the received pages.

4.1.3. Bit and Byte Ordering Criteria

All data values are encoded using the following bit and byte ordering criteria:

- For numbering, the most significant bit/byte is numbered as bit/byte 0

- For bit/byte ordering, the most significant bit/byte is transmitted first

4.1.4. FEC Coding and Interleaving Parameters

4.1.4.1. FEC Encoding

The convolutional encoding for all data pages on all signal components is performed according to the parameters given in Table 27.

Code Parameter	Value
Coding Rate	½
Coding Scheme	Convolutional
Constraint Length	7
Generator Polynomials	$G1$=171o $G2$=133o
Encoding Sequence	$G1$ then $G2$

Table 27.   Data Coding Parameters

Figure 13 depicts this convolutional coding scheme. Decoding can be implemented using a standard Viterbi decoder.
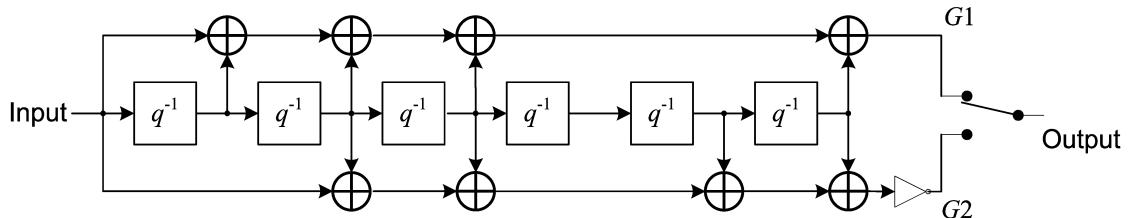
Figure 13.   Convolutional Coding Scheme

4.1.4.2. Interleaving

For each message type, the FEC encoded page is interleaved using a block interleaver with n columns (where data is written) and k rows (where data is read), as shown in Table 28.

Parameters	Message Type	
	F/NAV	I/NAV
Block interleaver size (Symbols)	488	240
Block interleaver dimensions (n columns x k rows)	61 x 8	30 x 8

Table 28.   Interleaving Parameters

4.1.5. Frame and Page Timing

Time stamps are inserted in the navigation message at regular intervals by the broadcasting satellite to identify absolute Galileo System Time (GST) in multiples of the shortest page period of 1 second. The exact timing of the page frame boundaries is used to identify fractional GST timing (less than one frame period). This is measured relative to the leading edge of the first chip of the first code sequence of the first page symbol of the page containing the TOW. The transmission timing of the navigation message provided through the TOW is synchronised to each satellite's version of GST.

4.2. F/NAV Message Description

4.2.1. General Description of the F/NAV Message

The F/NAV message structure is presented in Figure 14, where the duration of each entity is indicated.

```
F/NAV MESSAGE
        │
        ▼
   Frame (600 sec)
   =12 sub-frames
        │
        ▼
   Sub-frame (50 sec)
   =5 pages
        │
        ▼
   Page (10 sec)
```
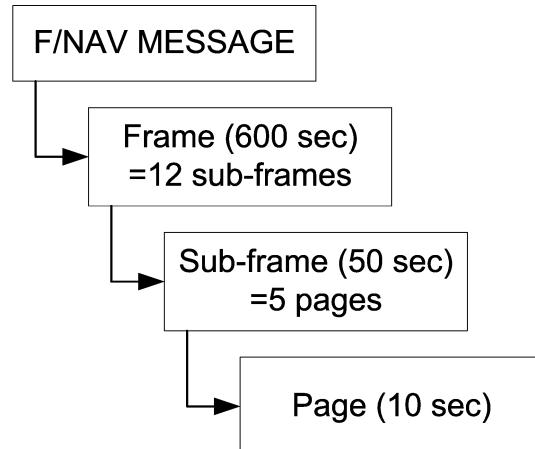
Figure 14.   F/NAV Message Structure

4.2.2. F/NAV Page Layout

The page layout for the F/NAV message type is according to Table 29 where the symbols allocation and bits allocation are shown separately. The different fields composing this layout are defined in the sections below.

Sync.	F/NAV Symbols	Total (symb)
12	488	500

F/NAV Word			Tail	Total (bits)
Page type	Navigation Data	CRC		
6	208	24	6	244

Table 29.   F/NAV Page Layout

4.2.2.1. Synchronisation Pattern

The synchronization pattern allows the receiver to achieve synchronisation to the page boundary. Note the synchronisation pattern is not encoded. The F/NAV synchronisation pattern is 101101110000

4.2.2.2. Tail Bits

The tail bits field consists of 6 zero-value bits enabling completion of the FEC decoding of each page's information content in the user receiver.

4.2.2.3. F/NAV Word

The useful data are contained in the F/NAV word composed of

● A page type field (6 bits) enabling to identify the page content as defined in paragraph 4.2.4

● A navigation data field (208 bits) whose structure is presented in paragraph 4.2.4

● A CRC (24 bits) to detect potential bit errors, according to paragraph 5.1.9.4. The CRC is computed on the Page Type and Navigation Data fields.

4.2.3. F/NAV Frame Layout

The F/NAV E5a-I message data packet transmission sequence is according to Table 30 where a whole frame is shown. Note that the odd numbered sub-frames contain the page type 5 and the even numbered sub-frames contain the page type 6. This allows the transmission of the almanacs for three satellites within two successive sub-frames (100 seconds). Thus the almanacs of the entire Galileo constellation (nominal 30 satellites, almanac transmission capacity within the standard message structure of 36 satellites) are transmitted within 20 minutes (two frames with appropriate k). The parameter k is transparent for the user. It is set by the Galileo system for each of the active satellites, such as to improve almanac transport time by exploiting source diversity.

	Page Type	Page Content
Subframe 1	1	SVID, clock correction, SISA, Ionospheric correction, BGD, Signal health status, GST and Data validity status
	2	Ephemeris (1/3) and GST
	3	Ephemeris (2/3) and GST
	4	Ephemeris (3/3), GST-UTC conversion, GST-GPS Conversion and TOW
	5	Almanac for satellite k and almanac for satellite (k+1) part 1
Subframe 2	1	SVID, clock correction, SISA, Ionospheric correction, BGD, Signal health status, GST and Data validity status
	2	Ephemeris (1/3) and GST
	3	Ephemeris (2/3) and GST
	4	Ephemeris (3/3), GST-UTC conversion, GST-GPS Conversion and TOW
	6	Almanac for satellite (k+1) part 2 and almanac for satellite (k+2)
Subframe 3	1	SVID, clock correction, SISA, Ionospheric correction, BGD, Signal health status, GST and Data validity status
	2	Ephemeris (1/3) and GST
	3	Ephemeris (2/3) and GST
	4	Ephemeris (3/3), GST-UTC conversion, GST-GPS Conversion and TOW
	5	Almanac for satellite (k+3) and almanac for satellite (k+4) part 1
Subframe 4	1	SVID, clock correction, SISA, Ionospheric correction, BGD, Signal health status, GST and Data validity status
	2	Ephemeris (1/3) and GST
	3	Ephemeris (2/3) and GST
	4	Ephemeris (3/3), GST-UTC conversion, GST-GPS Conversion and TOW
	6	Almanac for satellite (k+4) part 2 and almanac for satellite (k+5)
Subframe 5	1	SVID, clock correction, SISA, Ionospheric correction, BGD, Signal health status, GST and Data validity status
	2	Ephemeris (1/3) and GST
	3	Ephemeris (2/3) and GST
	4	Ephemeris (3/3), GST-UTC conversion, GST-GPS Conversion and TOW
	5	Almanac for satellite (k+6) and almanac for satellite (k+7) part 1

	Page Type	Page Content
Subframe 6	1	SVID, clock correction, SISA, Ionospheric correction, BGD, Signal health status, GST and Data validity status
	2	Ephemeris (1/3) and GST
	3	Ephemeris (2/3) and GST
	4	Ephemeris (3/3), GST-UTC conversion, GST-GPS Conversion and TOW
	6	Almanac for satellite (k+7) part 2 and almanac for satellite (k+8)
Subframe 7	1	SVID, clock correction, SISA, Ionospheric correction, BGD, Signal health status, GST and Data validity status
	2	Ephemeris (1/3) and GST
	3	Ephemeris (2/3) and GST
	4	Ephemeris (3/3), GST-UTC conversion, GST-GPS Conversion and TOW
	5	Almanac for satellite (k+9) and almanac for satellite (k+10) part 1
Subframe 8	1	SVID, clock correction, SISA, Ionospheric correction, BGD, Signal health status, GST and Data validity status
	2	Ephemeris (1/3) and GST
	3	Ephemeris (2/3) and GST
	4	Ephemeris (3/3), GST-UTC conversion, GST-GPS Conversion and TOW
	6	Almanac for satellite (k+10) part 2 and almanac for satellite (k+11)
Subframe 9	1	SVID, clock correction, SISA, Ionospheric correction, BGD, Signal health status, GST and Data validity status
	2	Ephemeris (1/3) and GST
	3	Ephemeris (2/3) and GST
	4	Ephemeris (3/3), GST-UTC conversion, GST-GPS Conversion and TOW
	5	Almanac for satellite (k+12) and almanac for satellite (k+13) part 1
Subframe 10	1	SVID, clock correction, SISA, Ionospheric correction, BGD, Signal health status, GST and Data validity status
	2	Ephemeris (1/3) and GST
	3	Ephemeris (2/3) and GST
	4	Ephemeris (3/3), GST-UTC conversion, GST-GPS Conversion and TOW
	6	Almanac for satellite (k+13) part 2 and almanac for satellite (k+14)
Subframe 11	1	SVID, clock correction, SISA, Ionospheric correction, BGD, Signal health status, GST and Data validity status
	2	Ephemeris (1/3) and GST
	3	Ephemeris (2/3) and GST
	4	Ephemeris (3/3), GST-UTC conversion, GST-GPS Conversion and TOW
	5	Almanac for satellite (k+15) and almanac for satellite (k+16) part 1

	Page Type	Page Content
Subframe 12	1	SVID, clock correction, SISA, Ionospheric correction, BGD, Signal health status, GST and Data validity status
	2	Ephemeris (1/3) and GST
	3	Ephemeris (2/3) and GST
	4	Ephemeris (3/3), GST-UTC conversion, GST-GPS Conversion and TOW
	6	Almanac for satellite (k+16) part 2 and almanac for satellite (k+17)

Table 30.   F/NAV Frame Layout

4.2.4. F/NAV Page Contents

The following tables specify the contents of the F/NAV pages above allocated (see Chapter 5 for a description of the F/NAV pages contents).

Page Type 1: SVID, Clock correction, SISA, Ionospheric correction, BGD, GST, Signal health and Data validity status

Type=1	SV_{ID}	IODnav	Clock correction				SISA	Ionospheric correction								$BGD(E1,E5a)$	$E5a_{HS}$	GST		$E5a_{DVS}$	Spare	CRC	Tail	Total (bits)
								Az			Ionospheric disturbance flag													
			t_{0c}	a_{f0}	a_{f1}	a_{f2}		a_{i0}	a_{i1}	a_{i2}	Region 1	Region 2	Region 3	Region 4	Region 5			WN	TOW					
6	6	10	14	31	21	6	8	11	11	14	1	1	1	1	1	10	2	12	20	1	26	24	6	244

Table 31.   Bits Allocation for F/NAV Page Type 1

Page Type 2: Ephemeris (1/3) and GST

Type=2	IODnav	Ephemeris (1/3)						GST		CRC	Tail	Total (bits)
		M_0	$\bullet\Omega$	e	$a^{1/2}$	Ω_0	$\bullet i$	WN	TOW			
6	10	32	24	32	32	32	14	12	20	24	6	244

Table 32.   Bits Allocation for F/NAV Page Type 2

Page Type 3: Ephemeris (2/3) and GST

Type=3	IODnav	Ephemeris (2/3)								GST		Spare	CRC	Tail	Total (bits)
		i_0	ω	Δn	C_{uc}	C_{us}	C_{rc}	C_{rs}	t_{0e}	WN	TOW				
6	10	32	32	16	16	16	16	16	14	12	20	8	24	6	244

Table 33.   Bits Allocation for F/NAV Page Type 3

Page Type 4: Ephemeris (3/3), GST-UTC conversion, GST-GPS conversion and TOW. Note that the clock is repeated in this page type

Type=4	IODnav	Ephemeris (3/3)		GST-UTC Conversion								GST-GPS Conversion				TOW	Spare	CRC	Tail	Total (bits)
		C_{ic}	C_{is}	A_0	A_1	Δt_{Ls}	t_{ot}	WN_{ot}	WN_{LSF}	DN	Δt_{LSF}	t_{0G}	A_{0G}	A_{1G}	WN_{0G}					
6	10	16	16	32	24	8	8	8	8	3	8	8	16	12	6	20	5	24	6	244

Table 34.   Bits Allocation for F/NAV Page Type 4

Page Type 5: Almanac (SVID1 and SVID2(1/2)), Week Number and almanac reference time

Type=5	IOD_a	WN_a	t_a	SV_{SVID1}											$SV_{SVID2}(1/2)$						CRC	Tail	Total (bits)
				$SVID1$	$\Delta(a^{1/2})$	e	ω	δi	Ω_0	$\dot{\Omega}$	M_0	a_{f0}	a_{f1}	$E5a_{HS}$	$SVID2$	$\Delta(A^{1/2})$	e	ω	δi	$\Omega_{0(1/2)}$			
6	4	2	10	6	13	11	16	11	16	11	16	16	13	2	6	13	11	16	11	4	24	6	244

Table 35.   Bits Allocation for F/NAV Page Type 5

Page Type 6: Almanac (SVID2(2/2) and SVID3)

Type=6	IOD_a	$SV_{SVID2}(2/2)$						SV_{SVID3}											Spare	CRC	Tail	Total (bits)
		$\Omega_{0(2/2)}$	$\dot{\Omega}$	M_0	a_{f0}	a_{f1}	$E5a_{HS}$	$SVID3$	$\Delta(A^{1/2})$	e	ω	δ_i	Ω_0	$\dot{\Omega}$	M_0	a_{f0}	a_{f1}	$E5a_{HS}$				
6	4	12	11	16	16	13	2	6	13	11	16	11	16	11	16	16	13	2	3	24	6	244

Table 36.   Bits Allocation for F/NAV Page Type 6

4.2.5. F/NAV Dummy Page Definition

In case no valid F/NAV data is to be transmitted, the satellite generates and downlinks the dummy pages (Page Type 63) replacing the pages in the nominal sequencing, according to the format in Table 37. CRC is computed on the Page Type and Dummy sequence fields.

Type=63	Dummy sequence	CRC	Tail	Total (bits)
6	208	24	6	244

Table 37.   Bits Allocation for F/NAV Dummy Page

4.3. I/NAV Message Description

4.3.1. General Description of the I/NAV Message

The I/NAV message structure is presented in Figure 15, where the duration of each entity is indicated.
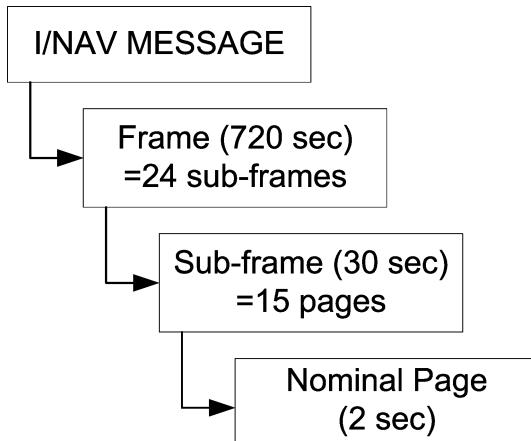
Figure 15. I/NAV Message Structure in the Nominal Mode

The I/NAV message structures for the E5b-I and E1-B signals use the same page layout since the service provided on these frequencies is a dual frequency service, using frequency diversity. Only page sequencing is different, with page swapping between both components in order to allow a fast reception of data by a dual frequency receiver. Nevertheless, the frame is designed to allow receivers to work also with a single frequency.

4.3.2. I/NAV Page Layout

Two types of I/NAV pages are defined

- Nominal pages having a duration of 2 seconds transmitted sequentially in time in two parts of duration 1 second each on each of the E5b-I and E1-B components according to Table 39. The first part of a page is denoted 'even' and the second one is denoted 'odd'.

- Alert pages having a duration of 1 second transmitted in two parts of duration 1 second each at the same epoch over the E5b-I and E1-B components according to Table 40. Again, the first part of a page is denoted 'even' and the second one is denoted 'odd'. This transmission is repeated at the next epoch but switching the two parts between the components.

The I/NAV page part (even or odd) layout is defined in Table 38 for both nominal and alert page types. This table shows the symbols allocation and bits allocation separately. The different fields composing this layout are defined in the sections below.

Sync.	I/NAV Page Part (even or odd) Symbols	Total (symb)
10	240	250

I/NAV Page Part (even or odd) Bits	Tail	Total (bits)
114	6	120

Table 38.   I/NAV Page Part Layout

4.3.2.1. Synchronisation Pattern

The synchronization pattern allows the receiver to achieve synchronisation to the page boundary. Note the synchronisation pattern is not encoded. The I/NAV synchronisation pattern is 0101100000

The tail bits field consists of 6 zero-value bits enabling completion of the FEC decoding of each page's information content in the user receiver.

4.3.2.3. I/NAV Page Part

The structure of the nominal I/NAV even and odd page parts on E5b-I and E1-B are defined in Table 39. A nominal page is composed by the two page parts (even and odd) transmitted sequentially over the same frequency ("vertical page").

E5b-I (top)

Even/odd=0	Page Type	Data i (1/2)	Tail	Total (bits)
1	1	112	6	120

E1-B (top)

Even/odd=1	Page Type	Data j (2/2)	Reserved 1	SAR	Spare	CRC$_j$	Reserved 2	Tail	Total (bits)
1	1	16	40	22	2	24	8	6	120

E5b-I (bottom)

Even/odd=1	Page Type	Data i (2/2)	Reserved 1	CRC$_i$	Reserved 2	Tail	Total (bits)
1	1	16	64	24	8	6	120

E1-B (bottom)

Even/odd=0	Page Type	Data k (1/2)	Tail	Total (bits)
1	1	112	6	120

Table 39.   I/NAV Nominal Page with Bits Allocation

The parameters for the nominal page have the following meaning and related values:

- Even/Odd field (1 bit) to indicate the part of the page (0=even/1=odd) that is broadcast

- Page Type (1 bit) equal to 0 to indicate the nominal page type

- Data field composed of a nominal word (described in 4.3.5) of 128 bits (112 bits + 16 bits)

- The reserved fields will be published in a future update of this ICD

- SAR data (22 bits) composed of SAR RLM data on E1-B only as defined in 4.3.7

- CRC (24 bits) computed on the Even/Odd fields, Page Type fields, Data fields (1/2 and 2/2), Spare field, SAR (on E1-B only) and reserved fields (Reserved 1 for E5b-I and Reserved 1 for E1-B). In nominal mode the CRC is computed for the Even and Odd parts of a page of the same frequency ("vertical CRC") and is always broadcast on the second part of the "vertical page". Note the Reserved 2 field on E5b-I and the Reserved 2 field on E1-B are not protected by the CRC.

- Tail bits (2*6 bits) as defined in 4.3.2.2. These fields are not protected by the CRC

The structure of the alert I/NAV even and odd page parts on E5b-I and E1-B are defined in Table 40. An alert page is composed by the two page parts (even and odd) transmitted at the same epoch over E5b-I and E1-B ("horizontal page").

E5b-I

Even/odd=0	Page Type	Reserved 1 (1/2)	Tail	Total (bits)
1	1	112	6	120

Even/odd=1	Page Type	Reserved 1 (2/2)	CRC	Reserved 2	Tail	Total (bits)
1	1	80	24	8	6	120

E1-B

Even/odd=1	Page Type	Reserved 1 (2/2)	CRC	Reserved 2	Tail	Total (bits)
1	1	80	24	8	6	120

Even/odd=0	Page Type	Reserved 1 (1/2)	Tail	Total (bits)
1	1	112	6	120

Table 40. I/NAV Alert Page with Bits Allocation

The parameters for the alert page have the following meaning and related values:

- Even/Odd field to indicate the part of the page (0=even/1=odd) that is broadcast

- Page Type (1 bit) equal to 1 to indicate the alert page type

- CRC (24 bits) computed on the Page Type, Even/Odd field and on Reserved 1 (1/2 and 2/2). In alert mode the CRC is computed for the Even/ Odd pages of both frequencies E5b and E1-B ("horizontal CRC").

- The Reserved 1 and Reserved 2 fields will be published in a future update of this ICD. Note that the reserved 2 fields are not protected by CRC.

- Tail bits (2*6 bits) as defined in 4.3.2.2.

4.3.3. I/NAV Nominal Sub-Frame Layout

In the nominal mode, the page sequence for I/NAV E5b-I and I/NAV E1-B components in every sub-frame is according to Table 41 where T_0 is synchronized with GST origin modulo 30 seconds.

T_0 (GST$_0$ sync.) (s)	E5b Sub frame ID	E5b-I Page	E5b-I Content				E1-B Content						E1-B Page	E1B Sub frame ID
0	N	Even	Word 1 (1/2)				Spare Word (2/2)	Res	SAR	Spare	CRC	Res	Odd	N-1
1	N	Odd	Word 1 (2/2)	Res	CRC	Res	Word 2 (1/2)						Even	N
2	N	Even	Word 3 (1/2)				Word 2 (2/2)	Res	SAR	Spare	CRC	Res	Odd	N
3	N	Odd	Word 3 (2/2)	Res	CRC	Res	Word 4 (1/2)						Even	N
4	N	Even	Word 5 (1/2)				Word 4 (2/2)	Res	SAR	Spare	CRC	Res	Odd	N
5	N	Odd	Word 5 (2/2)	Res	CRC	Res	Word 6 (1/2)						Even	N

T0 (GST0 sync.) (s)	E5b Sub frame ID	E5b-I Page	E5b-I Content				E1-B Content						E1-B Page	E1B Sub frame ID
6	N	Even	Word 7 or 9 (1/2)				Word 6 (2/2)	Res	SAR	Spare	CRC	Res	Odd	N
7	N	Odd	Word 7 or 9 (2/2)	Res	CRC	Res	Word 7 or 9 (1/2)						Even	N
8	N	Even	Word 8 or 10 (1/2)				Word 7 or 9 (2/2)	Res	SAR	Spare	CRC	Res	Odd	N
9	N	Odd	Word 8 or 10 (2/2)	Res	CRC	Res	Word 8 or 10 (1/2)						Even	N
10	N	Even	Reserved (1/2)				Word 8 or 10 (2/2)	Res	SAR	Spare	CRC	Res	Odd	N
11	N	Odd	Reserved (2/2)		CRC	Res	Reserved (1/2)						Even	N
12	N	Even	Reserved (1/2)				Reserved (2/2)		SAR	Spare	CRC	Res	Odd	N
13	N	Odd	Reserved (2/2)		CRC	Res	Reserved (1/2)						Even	N
14	N	Even	Reserved (1/2)				Reserved (2/2)		SAR	Spare	CRC	Res	Odd	N
15	N	Odd	Reserved (2/2)		CRC	Res	Reserved (1/2)						Even	N
16	N	Even	Reserved (1/2)				Reserved (2/2)		SAR	Spare	CRC	Res	Odd	N
17	N	Odd	Reserved (2/2)		CRC	Res	Reserved (1/2)						Even	N
18	N	Even	Reserved (1/2)				Reserved (2/2)		SAR	Spare	CRC	Res	Odd	N
19	N	Odd	Reserved (2/2)		CRC	Res	Reserved (1/2)						Even	N
20	N	Even	Word 2 (1/2)				Reserved (2/2)		SAR	Spare	CRC	Res	Odd	N
21	N	Odd	Word 2 (2/2)	Res	CRC	Res	Word 1 (1/2)						Even	N
22	N	Even	Word 4 (1/2)				Word 1 (2/2)	Res	SAR	Spare	CRC	Res	Odd	N
23	N	Odd	Word 4 (2/2)	Res	CRC	Res	Word 3 (1/2)						Even	N
24	N	Even	Word 6 (1/2)				Word 3 (2/2)	Res	SAR	Spare	CRC	Res	Odd	N
25	N	Odd	Word 6 (2/2)	Res	CRC	Res	Word 5 (1/2)						Even	N
26	N	Even	Spare Word (1/2)				Word 5 (2/2)	Res	SAR	Spare	CRC	Res	Odd	N
27	N	Odd	Word (2/2)	Res	CRC	Res	Spare Word (1/2)						Even	N
28	N	Even	Spare Word (1/2)				Spare Word (2/2)	Res	SAR	Spare	CRC	Res	Odd	N
29	N	Odd	Spare Word (2/2)	Res	CRC	Res	Spare Word (1/2)						Even	N
30	N+1	Even	Word (1/2)				Spare Word (2/2)	Res	SAR	Spare	CRC	Res	Odd	N

Table 41.   I/Nav Nominal Sub-Frame Structure

4.3.4. I/NAV Nominal Frame Layout

The I/NAV sub-frames containing almanac data are sequenced in a nominal frame according to Table 42.

T_0 (s)	Sub-frame ID	E5b	E1B
0	1	Word 7: Almanac SV 1 (1/2)	Word 7: Almanac SV 19 (1/2)
		Word 8: Almanac SV 1 (2/2) + almanac SV 2 (1/2)	Word 8: Almanac SV 19 (2/2) + almanac SV 20 (1/2)
30	2	Word 9: Almanac SV 2 (2/2) + almanac SV 3 (1/2)	Word 9: Almanac SV 20 (2/2) + almanac SV 21 (1/2)
		Word 10: Almanac SV 3 (2/2)	Word 10: Almanac SV 21 (2/2)
60	3	Word 7: Almanac SV 4 (1/2)	Word 7: Almanac SV 22 (1/2)
		Word 8: Almanac SV 4 (2/2) + almanac SV 5 (1/2)	Word 8: Almanac SV 22 (2/2) + almanac SV 23 (1/2)
90	4	Word 9: Almanac SV 5 (2/2) + almanac SV 6 (1/2)	Word 9: Almanac SV 23 (2/2) + almanac SV 24 (1/2)
		Word 10: Almanac SV 6 (2/2)	Word 10: Almanac SV 24 (2/2)
120	5	Word 7: Almanac SV 7 (1/2)	Word 7: Almanac SV 25 (1/2)
		Word 8: Almanac SV 7 (2/2) + almanac SV 8 (1/2)	Word 8: Almanac SV 25 (2/2) + almanac SV 26 (1/2)
150	6	Word 9: Almanac SV 8 (2/2) + almanac SV 9 (1/2)	Word 9: Almanac SV 26 (2/2) + almanac SV 27 (1/2)
		Word 10: Almanac SV 9 (2/2)	Word 10: Almanac SV 27 (2/2)
180	7	Word 7: Almanac SV 10 (1/2)	Word 7: Almanac SV 28 (1/2)
		Word 8: Almanac SV 10 (2/2) + almanac SV 11 (1/2)	Word 8: Almanac SV 28 (2/2) + almanac SV 29 (1/2)
210	8	Word 9: Almanac SV 11 (2/2) + almanac SV 12 (1/2)	Word 9: Almanac SV 29 (2/2) + almanac SV 30 (1/2)
		Word 10: Almanac SV 12 (2/2)	Word 10: Almanac SV 30 (2/2)
240	9	Word 7: Almanac SV 13 (1/2)	Word 7: Almanac SV 31 (1/2)
		Word 8: Almanac SV 13 (2/2) + almanac SV 14 (1/2)	Word 8: Almanac SV 31 (2/2) + almanac SV 32 (1/2)
270	10	Word 9: Almanac SV 14 (2/2) + almanac SV 15 (1/2)	Word 9: Almanac SV 32 (2/2) + almanac SV 33 (1/2)
		Word 10: Almanac SV 15 (2/2)	Word 10: Almanac SV 33 (2/2)
300	11	Word 7: Almanac SV 16 (1/2)	Word 7: Almanac SV 34 (1/2)
		Word 8: Almanac SV 16 (2/2) + almanac SV 17 (1/2)	Word 8: Almanac SV 34 (2/2) + almanac SV 35 (1/2)
330	12	Word 9: Almanac SV 17 (2/2) + almanac SV 18 (1/2)	Word 9: Almanac SV 35 (2/2) + almanac SV 36 (1/2)
		Word 10: Almanac SV 18 (2/2)	Word 10: Almanac SV 36 (2/2)
360	13	Word 7: Almanac SV 19 (1/2)	Word 7: Almanac SV 1 (1/2)
		Word 8: Almanac SV 19 (2/2) + almanac SV 20 (1/2)	Word 8: Almanac SV 1 (2/2) + almanac SV 2 (1/2)
390	14	Word 9: Almanac SV 20 (2/2) + almanac SV 21 (1/2)	Word 9: Almanac SV 2 (2/2) + almanac SV 3 (1/2)
		Word 10: Almanac SV 21 (2/2)	Word 10: Almanac SV 3 (2/2)
420	15	Word 7: Almanac SV 22 (1/2)	Word 7: Almanac SV 4 (1/2)
		Word 8: Almanac SV 22 (2/2) + almanac SV 23 (1/2)	Word 8: Almanac SV 4 (2/2) + almanac SV 5 (1/2)
450	16	Word 9: Almanac SV 23 (2/2) + almanac SV 24 (1/2)	Word 9: Almanac SV 5 (2/2) + almanac SV 6 (1/2)
		Word 10: Almanac SV 24 (2/2)	Word 10: Almanac SV 6 (2/2)

T_0 (s)	Sub-frame ID	E5b	E1B
480	17	Word 7: Almanac SV 25 (1/2)	Word 7: Almanac SV 7 (1/2)
		Word 8: Almanac SV 25 (2/2) + almanac SV 26 (1/2)	Word 8: Almanac SV 7 (2/2) + almanac SV 8 (1/2)
510	18	Word 9: Almanac SV 26 (2/2) + almanac SV 27 (1/2)	Word 9: Almanac SV 8 (2/2) + almanac SV 9 (1/2)
		Word 10: Almanac SV 27 (2/2)	Word 10: Almanac SV 9 (2/2)
540	19	Word 7: Almanac SV 28 (1/2)	Word 7: Almanac SV 10 (1/2)
		Word 8: Almanac SV 28 (2/2) + almanac SV 29 (1/2)	Word 8: Almanac SV 10 (2/2) + almanac SV 11 (1/2)
570	20	Word 9: Almanac SV 29 (2/2) + almanac SV 30 (1/2)	Word 9: Almanac SV 11 (2/2) + almanac SV 12 (1/2)
		Word 10: Almanac SV 30 (2/2)	Word 10: Almanac SV 12 (2/2)
600	21	Word 7: Almanac SV 31 (1/2)	Word 7: Almanac SV 13 (1/2)
		Word 8: Almanac SV 31 (2/2) + almanac SV 32 (1/2)	Word 8: Almanac SV 13 (2/2) + almanac SV 14 (1/2)
630	22	Word 9: Almanac SV 32 (2/2) + almanac SV 33 (1/2)	Word 9: Almanac SV 14 (2/2) + almanac SV 15 (1/2)
		Word 10: Almanac SV 33 (2/2)	Word 10: Almanac SV 15 (2/2)
660	23	Word 7: Almanac SV 34 (1/2)	Word 7: Almanac SV 16 (1/2)
		Word 8: Almanac SV 34 (2/2) + almanac SV 35 (1/2)	Word 8: Almanac SV 16 (2/2) + almanac SV 17 (1/2)
690	24	Word 9: Almanac SV 35 (2/2) + almanac SV 36 (1/2)	Word 9: Almanac SV 17 (2/2) + almanac SV 18 (1/2)
		Word 10: Almanac SV 36 (2/2)	Word 10: Almanac SV 18 (2/2)

Table 42.   I/NAV Sub-Frame Sequencing

4.3.5. I/NAV Word Types

The content of the I/NAV word types is stated in the following tables (see Chapter 5 for a description of the I/NAV word types contents).

Word Type 1: Ephemeris (1/4)

Type=1	IOD_{nav}	Ephemeris (1/4)				Reserved	Total (bits)
		t_{0e}	M_0	e	$A^{1/2}$		
6	10	14	32	32	32	2	128

Table 43.   Bits Allocation for I/NAV Word Type 1

Word Type 2: Ephemeris (2/4)

Type=2	IOD_{nav}	Ephemeris (2/4)				Reserved	Total (bits)
		Ω_0	i_0	ω	$\dot{i}$		
6	10	32	32	32	14	2	128

Table 44.   Bits Allocation for I/NAV Word Type 2

Word Type 3: Ephemeris (3/4) and SISA

Type=3	IOD_{nav}	Ephemeris (3/4)						SISA	Total (bits)
		$\bullet\Omega$	Δn	C_{UC}	C_{US}	C_{RC}	C_{RS}		
6	10	24	16	16	16	16	16	8	128

Table 45.   Bits Allocation for I/NAV Word Type 3

Word Type 4: SVID, Ephemeris (4/4), and Clock correction parameters

Type=4	IOD_{nav}	SV_{ID}	Ephemeris (4/4)		Clock correction				Spare	Total (bits)
			C_{ic}	C_{is}	t_{0c}	a_{f0}	a_{f1}	a_{f2}		
6	10	6	16	16	14	31	21	6	2	128

Table 46.   Bits Allocation for I/NAV Word Type 4

Word Type 5: Ionospheric correction, BGD, signal health and data validity status and GST

Type=5	Ionospheric correction								$BGD(E1,E5a)$	$BGD(E1,E5b)$	E5b_HS	E1B_HS	E5b_DVS	E1B_DVS	GST		Spare	Total (bits)
	Az			Ionospheric disturbance flag														
	a_{i0}	a_{i1}	a_{i2}	Region 1	Region 2	Region 3	Region 4	Region 5							WN	TOW		
6	11	11	14	1	1	1	1	1	10	10	2	2	1	1	12	20	23	128

Table 47.   Bits Allocation for I/NAV Word Type 5

Word Type 6: GST-UTC conversion parameters

Type=6	GST-UTC conversion parameters								TOW	Spare	Total (bits)
	A_0	A_1	Δt_{LS}	t_{0t}	WN_{ot}	WN_{LSF}	DN	Δt_{LSF}			
6	32	24	8	8	8	8	3	8	20	3	128

Table 48.   Bits Allocation for I/NAV Word Type 6

Word Type 7: Almanac for SVID1 (1/2), almanac reference time and almanac reference week number

Type=7	IOD_a	WN_a	t_{0a}	SVSVID1 (1/2)								Reserved	Total (bits)
				SVID1	$(\Delta a)^{1/2}$	e	ω	δ_i	Ω_0	$\bullet\Omega$	M_0		
6	4	2	10	6	13	11	16	11	16	11	16	6	128

Table 49.   Bits Allocation for I/NAV Word Type 7

Word Type 8: Almanac for SVID1 (2/2) and SVID2 (1/2))

Type=8	IOD_a	SV_{SVID1}(2/2)				SV_{SVID2}(1/2)							Spare	Total (bits)
		a_{f0}	a_{f1}	E5b$_{HS}$	E1B$_{HS}$	SVID2	$\Delta(A^{1/2})$	e	ω	δ_i	Ω_0	$\bullet\Omega$		
6	4	16	13	2	2	6	13	11	16	11	16	11	1	128

Table 50.   Bits Allocation for I/NAV Word Type 8

Word Type 9: Almanac for SVID2 (2/2) and SVID3 (1/2))

Type=9	IOD_a	WN_a	t_{0a}	SV_{SVID2}(2/2)					SV_{SVID3}(1/2)					Total (bits)
				M_0	a_{f0}	a_{f1}	E5b$_{HS}$	E1B$_{HS}$	SVID3	$\Delta(A^{1/2})$	e	ω	δ_i	
6	4	2	10	16	16	13	2	2	6	13	11	16	11	128

Table 51.   Bits Allocation for I/NAV Word Type 9

Word type 10: Almanac for SVID3 (2/2) and GST-GPS conversion parameters

Type=10	IOD_a	SV_{SVID3}(2/2)							GST-GPS conversion parameters				Total (bits)
		Ω_0	$\bullet\Omega$	M_0	a_{f0}	a_{f1}	E5b$_{HS}$	E1B$_{HS}$	A_{0G}	A_{1G}	t_{0G}	WN_{0G}	
6	4	16	11	16	16	13	2	2	16	12	8	6	128

Table 52.   Bits Allocation for I/NAV Word Type 10

Word Type 0: I/NAV Spare Word

Type=0	Time	Spare	GST		Total (bits)
			WN	TOW	
6	2	88	12	20	128

Table 53.   Bits Allocation for Spare Word

When the field 'Time' is not set to '10', the fields WN and TOW do not contain valid data.

4.3.6. I/NAV Dummy Message Layout

In case no valid I/NAV data is to be transmitted, the satellite generates and downlinks the dummy message on E5b-I and E1-B components replacing the pages in the nominal sequencing, according to the Dummy pages layout defined in Table 54.

E5b-I				
Even/odd=0	Page Type	Dummy data (1/2)	Tail	Total (bits)
1	1	112	6	120

Even/odd=1	Page Type	Dummy data (2/2)	CRC	Spare	Tail	Total (bits)
1	1	112	24	8	6	120

E1-B						
Even/odd=1	Page Type	Dummy data (2/2)	CRC	Spare	Tail	Total (bits)
1	1	80	24	8	6	120

Even/odd=0	Page Type	Dummy data (1/2)	Tail	Total (bits)
1	1	112	6	120

Table 54.   I/NAV Dummy Page with Bits Allocation

The parameters for the dummy page have the following meaning and related values:

- Even/Odd (1 bit) to indicate the part of the page (0=even/1=odd) that is broadcast

- Page Type (1 bit) equal to 0 to indicate the nominal page type

- Dummy Data (192 bits = 80 bits + 112 bits)

- CRC (24 bits): computed on the Even/odd fields, Type fields and Dummy data fields (1/2 and 2/2) for the Even/Odd page of the same frequency ("vertical CRC"), and the CRC is always broadcast on the second part of the "vertical page"

- Spare (8 bits). This field is not protected by the CRC

- Tail bits (2*6 bits) as defined in 4.3.2.2. These fields are not protected by the CRC

The dummy data word is formatted according to Table 55, with

Type = 63	Dummy Sequence	Total (bits)
6	186	192
	Dummy Data (1/2) (112 bits) / Dummy Data (2/2) (80 bits)	

Table 55.   Dummy Word with Bits Allocation

- Word Type (6 bits) to indicate the word type dummy message, which is defined as type 63

- The dummy sequence (186 bits) is an arbitrary sequence

4.3.7. SAR Field Structure

In the nominal mode the SAR RLM is transmitted only in the E1-B component. The SAR field structure for the E1-B component in nominal mode is formatted according to the values stated in Table 56. When an alert is present, the SAR data will not be transmitted

SAR Data			Total (bits)
Start Bit	Short/Long RLM Identifier	SAR RLM Data	
1	1	20	22

Table 56.   SAR Field Bit Structure

The RLM identifier bit is described in the following table.

RLM Identifier Value	Description
0	Short RLM
1	Long RLM

Table 57.   RLM Identifier Description

SAR data in Nominal Mode

In nominal mode, 22 bits are allocated to SAR data in one E1-B I/NAV page. The SAR messages are formatted according to the values and structure stated in Table 58 and Table 59 respectively for the short RLM and the long RLM. This structure allows the downlink of a short RLM within 8 seconds and of a long RLM within 16 seconds. The content of the SAR data is provided in paragraph 5.2.

● Short RLM

Part (1/4)		SAR RLM data	Part (2/4)		SAR RLM data	Part (3/4)		SAR RLM data	Part (4/4)		SAR RLM data	
Start bit = 1	Short RLM	Beacon ID (1/3)	Start bit = 0	Short RLM	Beacon ID (2/3)	Start bit = 0	Short RLM	Beacon ID (3/3)	Start bit = 0	Short RLM	Message code	Parameters
1	1	20	1	1	20	1	1	20	1	1	4	16
22			22			22			22			

Table 58.   SAR Short RLM

● Long RLM

Part (1/8)		SAR RLM data	Part (2/8)		SAR RLM data	Part (3/8)		SAR RLM data	Part (4/8)		SAR RLM data	
Start bit = 1	Long RLM	Beacon ID (1/3)	Start bit = 0	Long RLM	Beacon ID (2/3)	Start bit = 0	Long RLM	Beacon ID (3/3)	Start bit = 0	Long RLM	Message code	Parameters (1/5)
1	1	20	1	1	20	1	1	20	1	1	4	16
22			22			22			22			

Part (5/8)			Part (6/8)			Part (7/8)			Part (8/8)		
Start bit = 1	Long RLM	SAR RLM data — Parameters (2/5)	Start bit = 0	Long RLM	SAR RLM data — Parameters (3/5)	Start bit = 0	Long RLM	SAR RLM data — Parameters (4/5)	Start bit = 0	Long RLM	SAR RLM data — Parameters (5/5)
1	1	20	1	1	20	1	1	20	1	1	20
22			22			22			22		

Table 59.   SAR Long RLM

Spare SAR Data

In case no valid SAR data is to be transmitted, the satellite generates the spare SAR data field according to Table 60.

SAR Data		Total
Start Bit	Spare	(bits)
1	21	22

Table 60.   Spare SAR Data

A SAR receiver will use the sequence of start bits (and only these) to identify SAR data parts belonging to SAR RLMs. Every time if both the currently received start bit and the start bit of the previous SAR data part are equal to one, the previous data part does not contain SAR relevant data.

5. Message Data Contents

This section describes the data items above mentioned. Semantics, formats and other characteristics are provided for all items to be transmitted inside frames.

5.1. Navigation Data

The navigation data contain all the parameters that enable the user to perform positioning service. They are stored on board each satellite with a validity duration and broadcast world-wide by all the satellites of the Galileo constellation. The 4 types of data needed to perform positioning:

- Ephemeris which are needed to indicate the position of the satellite to the user receiver

- Time and clock correction parameters which are needed to compute pseudo-range

- Service parameters which are needed to identify the set of navigation data, satellites, and indicators of the signal health

- Almanac which are needed to indicate the position of all the satellites in the constellation with a reduced accuracy

5.1.1. Ephemeris

The ephemeris for each Galileo satellite is composed of 16 parameters, which are:

- 6 keplerian parameters

- 6 harmonic coefficients

- 1 orbit inclination rate correction parameter

- 1 LAN rate correction parameter

- 1 mean motion correction parameter, and

- 1 reference time parameter t_{0e} for the ephemeris data set

The ephemeris for each Galileo satellite is according to the characteristics stated in Table 61.

Parameter	Definition	Bits	Scale factor	Unit
M_0	Mean anomaly at reference time	32*	2^{-31}	semi-circles**
Δn	Mean motion difference from computed value	16*	2^{-43}	semi-circles/s**
e	Eccentricity	32	2^{-33}	N/A
$A^{1/2}$	Square root of the semi-major axis	32	2^{-19}	meters1/2
Ω_0	Longitude of ascending node of orbital plane at weekly epoch	32*	2^{-31}	semi-circles**
i_0	Inclination angle at reference time	32*	2^{-31}	semi-circles**
ω	Argument of perigee	32*	2^{-31}	semi-circles**

Parameter	Definition	Bits	Scale factor	Unit
$\dot{\Omega}$	Rate of right ascension	24*	2^{-43}	semi-circles/s**
$\dot{i}$	Rate of inclination angle	14*	2^{-43}	semi-circles/s**
C_{uc}	Amplitude of the cosine harmonic correction term to the argument of latitude	16*	2^{-29}	radians
C_{us}	Amplitude of the sine harmonic correction term to the argument of latitude	16*	2^{-29}	radians
C_{rc}	Amplitude of the cosine harmonic correction term to the orbit radius	16*	2^{-5}	meters
C_{rs}	Amplitude of the sine harmonic correction term to the orbit radius	16*	2^{-5}	meters
C_{ic}	Amplitude of the cosine harmonic correction term to the angle of inclination	16*	2^{-29}	radians
C_{is}	Amplitude of the sine harmonic correction term to the angle of inclination	16*	2^{-29}	radians
t_{0e}	Ephemeris reference time	14	60	seconds
Total Ephemeris Size		**356**		

Table 61.   Ephemeris Parameters

*   Parameters so indicated are two's complement, with the sign bit (+ or -) occupying the MSB.
**   Note that the 'semi-circle' is not a SI unit but can be converted as: 1 semi-circle = π rad

A single ephemeris is applicable to all signals of a specific satellite. The ephemeris is computed with respect to the apparent CoP common to every frequency.

The user can compute the ECEF coordinates of the SV's antenna phase centre position at GST time t utilizing the equations shown in Table 62.

Constant	Description
π = 3.1415926535898	Ratio of a circle's circumference to its diameter
μ = 3.986004418 × 1014 m3/s2	Geocentric gravitational constant
ωE = 7.2921151467 × 10-5 rad/s	Mean angular velocity of the Earth
c=299792458 m/s	Speed of light

Computation	Description
$A=(A^{1/2})2$	Semi-major axis
$n_0 = \sqrt{\dfrac{\mu}{A^3}}$	Computed mean motion (rad/s)
$t_k = t-t_{0e}$*	Time from ephemeris reference epoch
$n = n_0 + \Delta n$	Corrected mean motion
$M = M_0 + nt_k$	Mean anomaly
$M = E - e\,sin(E)$	Kepler's Equation for Eccentric Anomaly E (may be solved by iteration)

Computation	Description
$v = \tan^{-1}\left\{\dfrac{\sin v}{\cos v}\right\}$ $= \tan^{-1}\left\{\dfrac{\sqrt{1-e^2}\,\sin E/(1-e\cos E)}{(\cos E - e)/(1-e\cos E)}\right\}$	True Anomaly
$\Phi = v + \Omega$	Argument of Latitude
$\delta u = C_{us}\sin 2\Phi + C_{uc}\cos 2\Phi$	Argument of Latitude Correction
$\delta r = C_{rs}\sin 2\Phi + C_{rc}\cos 2\Phi$	Radius Correction
$\delta i = C_{is}\sin 2\Phi + C_{ic}\cos 2\Phi$	Inclination Correction
$u = \Phi + \delta u$	Corrected Argument of Latitude
$r = A(1-e\cos E) + \delta r$	Corrected Radius
$i = i_0 + \delta i + \left[\dot{i}\right]t_k$	Corrected Inclination
$x' = r\cos u$ $y' = r\sin u$	Position in orbital plane
$\Omega = \Omega_0 + \left[\dot{\Omega} - \omega_E\right]t_k - \omega_E t_{0e}$	Corrected longitude of ascending node
$x = x'\cos(\Omega) - y'\cos(i)\sin(\Omega)$ $y = x'\sin(\Omega) - y'\cos(i)\cos(\Omega)$ $z = y'\sin(i)$	GTRF coordinates of the SV antenna phase center position at time t

Table 62.   User Algorithm for Ephemeris Determination

* t is Galileo System Time (see e.g. paragraph 5.1.2). Furthermore, t_k is the actual total time difference between the time t and the epoch time t_{0e} (t_{0a} for the almanacs) and it accounts for beginning or end of week crossovers.

5.1.2. Galileo System Time (GST)

The GST is given as 32-bit binary number composed of two parameters as follows:

● The Week Number is an integer counter that gives the sequential week number from the origin of the Galileo time. This parameter is coded on 12 bits, which covers 4096 weeks (about 78 years). Then the counter is reset to zero to cover additional period modulo 4096.

● The Time of Week is defined as the number of seconds that have occurred since the transition from the previous week. The *TOW* covers an entire week from 0 to 604799 seconds and is reset to zero at the end of each week.

The GST parameters are transmitted according to the characteristics stated in Table 63.

Parameter	Definition	Bits	Scale factor	Unit
WN	Week Number	12	1	week
TOW	Time of Week	20	1	s
Total Galileo System Time Size		**32**		

Table 63.   GST Parameters

The GST start epoch shall be 00:00 UT on Sunday 22nd August 1999 (midnight between 21st and 22nd August). At the start epoch, GST shall be ahead of UTC by thirteen (13)

leap seconds. Since the next leap second was inserted at 01.01.2006, this implies that as of 01.01.2006 GST is ahead of UTC by fourteen (14) leap seconds.

The epoch denoted in the navigation messages by TOW and WN will be measured relative to the leading edge of the first chip of the first code sequence of the first page symbol. The transmission timing of the navigation message provided through the TOW is synchronised to each satellite's version of Galileo System Time (GST).

5.1.3. Clock Correction Parameters

The clock correction parameters are transmitted according to the values stated in Table 64.

Parameter	Definition	Bits	Scale factor	Unit
t_{0c}	Clock correction data reference Time of Week	14	60	s
a_{f0}	SV clock bias correction coefficient	31*	2^{-34}	s
a_{f1}	SV clock drift correction coefficient	21*	2^{-46}	s/s
a_{f2}	SV clock drift rate correction coefficient	6*	2^{-59}	s/s^2
Total Clock Correction Size		**72**		

Table 64.   Galileo Clock Correction Parameters

*   Parameters so indicated are two's complement, with the sign bit (+ or -) occupying the MSB.

Each Galileo satellite broadcasts its own clock correction data for all signals through the relevant signal, according to Table 65.

Message Type	Clock Model X=(f1,f2)	Satellite Time Correction Model Parameters	Services
F/Nav	(E1,E5a)	a_{f0} (E1,E5a) a_{f1} (E1,E5a) a_{f2} (E1,E5a) t_{0C} (E1,E5a)	Dual-Frequency (E1,E5a) Single-frequency E5a
I/NAV	(E1,E5b)	a_{f0} (E1,E5b) a_{f1} (E1,E5b) a_{f2} (E1,E5b) t_{0C} (E1,E5b)	Dual-Frequency (E1,E5b) Single-frequency E5b Single-frequency E1

Table 65.   Galileo Clock Correction Data

5.1.4. Satellite Time Correction Algorithm

Each satellite transmits time correction data. The predicted offset of the physical satellite signal TOT relative to the satellite signal TOT in GST can be computed for the dual frequency signal combination using the following formula:

$$TOT_c(X) = TOT_m(X) - \Delta t_{SV}(X) \qquad \text{Eq. 12}$$

where

- $(X)=(f_1,f_2)$ is the dual frequency combination f_1 and f_2 used for the clock model

- $TOT_C(X)$ is the corrected satellite TOT in GST for the signal combination X

- $TOT_m(X)$ is the physical satellite TOT for the signal combination X retrieved through pseudo-range measurements

- $\Delta t_{SV}(X)$ is the satellite time correction for the signal combination X computed by means of the time correction data retrieved from the navigation message

This satellite time correction is modelled through the following second order polynomial:

$$\Delta t_{SV}(X) = a_{f0}(X) + a_{f1}(X)[t - t_{0C}(X)] + a_{f2}(X)[t - t_{0C}(X)]^2 + \Delta t_r \text{ (s)}$$ Eq. 13

where

- $a_{f0}(X)$, $a_{f1}(X)$, and $a_{f2}(X)$ are defined in 5.1.3

- $t_{0c}(X)$ is the reference time for the clock correction as defined in 5.1.3

- t is the GST time in seconds

- Δt_r (s) is a relativistic correction term, given by $\Delta t_r = F\ e\ A^{1/2}\ sin(E)$ with the orbital parameters (e, $A^{1/2}$, E) as described in paragraph 5.1.1 and $F = -2\mu^{1/2}/c^2 = -4.442807309 \times 10^{-10}$ s/m$^{1/2}$

5.1.5. Broadcast Group Delay

The Broadcast Group Delay $BGD(f_1,f_2)$ broadcast through the Galileo navigation message is defined as follows:

$$BGD(f_1, f_2) = \frac{TR_1 - TR_2}{1 - \left(\dfrac{f_1}{f_2}\right)^2}$$ Eq. 14

where

- f_1 and f_2 denote the carrier frequencies of two Galileo signals

- TR_1 and TR_2 are the group delays of the signals whose carrier frequencies are respectively f_1 and f_2.

A single frequency user receiver processing pseudo-ranges from the frequency f_1 applies the following correction to the SV clock correction Δt_{SV} which is defined in paragraph 5.1.4

$$\Delta t_{SV}(f_1) = \Delta t_{SV}(f_1, f_2) - BGD(f_1, f_2)$$ Eq. 15

A single frequency user receiver processing pseudo-ranges from the frequency $f2$ applies the following correction to the SV clock correction ΔtSV which is defined in paragraph 5.1.4

$$\Delta t_{SV}(f_2) = \Delta t_{SV}(f_1, f_2) - \left(\frac{f_1}{f_2}\right)^2 BGD(f_1, f_2)$$ Eq. 16

A dual frequency user receiver processing pseudo-ranges from the two frequencies f_1 and f_2 does not apply any additional correction for group delay. The Broadcast Group Delay is coded according to the values stated in Table 66.

Parameter	Definition	Bits	Scale factor	Unit
$BGD(E1,E5a)$	E1-E5a Broadcast Group Delay	10*	2^{-32}	s
$BGD(E1,E5b)$	E1-E5b Broadcast Group Delay	10*	2^{-32}	s
Total Group Delay Size		**32**		

<div align="center">Table 66.   BGD Parameters</div>

*   Parameters so indicated are two's complement, with the sign bit (+ or -) occupying the MSB.

Each Galileo satellite broadcasts its own BGD data for all signals, through the relevant signal according to Table 67.

Message Type	Type of Satellite Clocks	$BGD(f_1,f_2)$	Services
F/NAV	(E1,E5a)	$BGD(E1,E5a)$	Single-frequency E5a
I/NAV	(E1,E5b)	$BGD(E1,E5b)$	Single-frequency E1 Single-frequency E5b

<div align="center">Table 67.   BGD Values Mapping on Messages and Services</div>

5.1.6. Ionospheric Correction

The ionospheric model parameters include:

- the broadcast coefficients a_{i0}, a_{i1} and a_{i2} used to compute the Effective Ionisation Level Az

- the "Ionospheric Disturbance Flag" (also referred as "storm flag"), given for five different regions

These parameters are transmitted according to the characteristics stated in Table 68.

Parameter	Definition	Bits	Scale factor	Unit
a_{i0}	Effective Ionisation Level 1st order parameter	11	2^{-2}	sfu**
a_{i1}	Effective Ionisation Level 2nd order parameter	11*	2^{-8}	sfu**/degree
a_{i2}	Effective Ionisation Level 3rd order parameter	14*	2^{-15}	sfu**/degree^2
SF$_1$	Ionospheric Disturbance Flag for region 1	1	N/A	dimensionless
SF$_2$	Ionospheric Disturbance Flag for region 2	1	N/A	dimensionless
SF$_3$	Ionospheric Disturbance Flag for region 3	1	N/A	dimensionless
SF$_4$	Ionospheric Disturbance Flag for region 4	1	N/A	dimensionless
SF$_5$	Ionospheric Disturbance Flag for region 5	1	N/A	dimensionless
Total Ionosphere Correction Size		**41**		

<div align="center">Table 68.   Ionospheric Correction Parameters</div>

*   Parameters so indicated are two's complement, with the sign bit (+ or -) occupying the MSB.
**   Note that 'sfu' (solar flux unit) is not a SI unit but can be converted as: 1 sfu = 10^{-22} W/(m^2*Hz)

It is assumed that the ionospheric model corrects 70% of the ionosphere when operating on E5a, E5b, E6 and E1 frequencies. The effective ionisation level is computed according to the equation below where μ is the modified dip latitude MODIP.

$$Az = a_{i0} + a_{i1}\,\mu + a_{i2}\,\mu^2$$

<div align="right">Eq. 17</div>

The Ionospheric Disturbance Flag has the following values: [0:No disturbance,1:Disturbance] in the region, where the regions are defined as:

- region 1: for the northern region (60°<MODIP<90°)

- region 2: for the northern middle region (30°<MODIP<60°)

- region 3: for the equatorial region (-30°<MODIP<30°)

- region 4: for the southern middle region (-60°<MODIP<-30°)

- region 5: for the southern region (-90°<MODIP<-60°)

5.1.7. GST-UTC Conversion Algorithm and Parameters

The UTC time t_{UTC} is computed through 3 different cases depending on the epoch of a possible leap second adjustment (scheduled future or recent past) given by DN, the day at the end of which the leap second becomes effective, and week number WN_{LSF} to which DN is referenced. "Day one" of DN is the first day relative to the end/start of week and WN_{LSF} is the Galileo week number modulo 256.

In addition to the parameters listed in Table 69, the following parameters are used in GST-UTC conversion algorithm:

- t_E is the GST as estimated by the user through its GST determination algorithm

- WN is the week number to which t_E is referenced, modulo 256

Case a

Whenever the leap second adjustment time indicated by WN_{LSF} and DN is not in the past (relative to the user's present time) and the user's present time does not fall in the time span which starts six hours prior to the effective time (= DN+3/4) and ends six hours after the effective time at (= DN+5/4), t_{UTC} is computed according to the following equations:

$$t_{UTC} = (t_E - \Delta t_{UTC}) \; \mathrm{mod}ulo\, 86400$$

$$\Delta t_{UTC} = \Delta t_{LS} + A_0 + A_1 (t_E - t_{ot} + 604800(WN - WN_{ot}))$$

Eq. 18

Case b

Whenever the user's current time falls within the time span of six hours prior to the leap second adjustment time to six hours after the adjustment time, t_{UTC} is computed according to the following equations (Δt_{UTC} as defined in case a):

$$t_{UTC} = W \, \mathrm{mod}ulo(86400 + \Delta t_{LSF} - \Delta t_{LS})$$

$$W = (t_E - \Delta t_{UTC} - 43200) \, \mathrm{mod}ulo\, 86400 + 43200$$

Eq. 19

Case c

Whenever the leap second adjustment time, as indicated by the WN_{LSF} and DN values, is in the "past" (relative to the user's current time) and the user's present time does not fall in the time span which starts six hours prior to the leap second adjustment time and ends six hours after the adjustment time, t_{UTC} is computed according to the following equation:

$$t_{UTC} = (t_E - \Delta t_{UTC}) \, \mathrm{mod}ulo(86400)$$

$$\Delta t_{UTC} = \Delta t_{LSF} + A_0 + A_1(t_E - t_{ot} + 604800(WN - WN_{ot}))$$

Eq. 20

The parameters for GST to UTC conversion are defined in Table 69.

Parameter	Definition	Bits	Scale factor	Unit
A_0	Constant term of polynomial	32*	2^{-30}	s
A_1	1st order term of polynomial	24*	2^{-50}	s/s
Δt_{LS}	Leap Second count before leap second adjustment	8*	1	s
t_{ot}	UTC data reference Time of Week	8	3600	s
WN_{ot}	UTC data reference Week Number	8	1	week
WN_{LSF}	Week Number of leap second adjustment	8	1	week
DN	Day Number at the end of which a leap second adjustment becomes effective	3	1	day
Δt_{LSF}	Leap Second count after leap second adjustment	8*	1	s
Total GST-UTC Conversion Size		**99**		

Table 69.   Parameters for the GST-UTC Conversion

*   Parameters so indicated are two's complement, with the sign bit (+ or -) occupying the MSB.

5.1.8. GPS to Galileo System Time Conversion and Parameters

The difference between the Galileo and the GPS time scales is given by the equation below.

$$\Delta t_{Systems} = t_{Galileo} - t_{GPS} = A_{0G} + A_{1G}\left[TOW - t_{0G} + 604800 \cdot \left(\left(WN - WN_{0G} \right) \bmod 64 \right) \right] \text{ (s)}$$

Eq. 21

with

- A_{0G} constant term of the offset $\Delta t_{systems}$

- A_{1G} rate of change of the offset $\Delta t_{systems}$

- t_{0G} reference time for GGTO data

- $t_{Galileo}$ GST time (s)

- t_{GPS} GPS time(s)

- WN GST Week Number

- $WN0G$ Week Number of the GPS/Galileo Time Offset reference

The GGTO parameters are formatted according to the values in Table 70.

Parameter	Definition	Bits	Scale factor	Unit
A_{0G}	Constant term of the polynomial describing the offset $\Delta t_{systems}$	16*	2^{-35}	s
A_{1G}	Rate of change of the offset $\Delta t_{systems}$	12*	2^{-51}	s/s
t_{0G}	Reference time for GGTO data	8	3600	s
WN_{0G}	Week Number of GGTO reference	6	1	week
Total GST-GPS Conversion Size		**42**		

Table 70.   Parameters for the GPS Time to GST Offset Computation

When the GGTO is not available the GGTO parameters disseminated are: A_{0G} (all ones -16 bits), A_{1G} (all ones - 12 bits), t_{0G} (all ones - 8 bits), WN_{0G} (all ones - 6 bits). When a user receives all four parameters set to all ones the GGTO is considered as not valid.

5.1.9. Service Parameters

5.1.9.1. Satellite ID

The satellite Identification is coded with 6 bits and has the characteristics given in Table 71.

Parameter	Definition	Bits	Scale Factor	Unit	Values
SV$_{ID}$	Satellite Identification	6	N/A	dimensionless	0…63

Table 71. Satellite ID

5.1.9.2. Issue Of Data

The navigation data is disseminated in data batches each one identified by an Issue of Data. In nominal operation the navigation data (ephemeris, satellite clock correction and SISA) have limited validity duration depending on the data type. The identification of each batch by an Issue of Data (IOD) value enables:

- the users to distinguish the data in different batches received from each satellite

- to indicate to the user receiver the validity of the data (which have to be updated using new issue of navigation data)

- the user receiver to compute the full batch of data even if it misses some pages or start receiving the data somewhere during the transmission

Two IODs are defined for (Table 72):

- the ephemeris, satellite clock correction parameters and SISA

- the almanacs

Data Type	Bits	Unit
Ephemeris and Clock correction IODnav	10	dimensionless
Almanacs IODa	4	dimensionless

Table 72. IOD Values Mapping on Data Type

Each IOD has an associated reference time parameter disseminated within the batch.

Note, the broadcast group delay, ionospheric corrections, GST-UTC and GST-GPS conversion parameters, navigation data validity status and signal health status are not identified by any issue of data value.

5.1.9.3. Navigation Data Validity and Signal Health Status

The signal health status and data validity status refer to the transmitting satellite. These status flags are used as service performance level notification (e.g. notification of satellite non availability). The navigation data validity status transmitted on E5a, E5b and E1, is coded on 1 bit, according to Table 73 and Table 74.

Parameter	Definition	Bits	Scale factor	Unit
E5a$_{DVS}$	E5a Data Validity Status	1	N/A	dimensionless

Table 73. Data Validity Satellite Status (transmitted on E5a)

Parameter	Definition	Bits	Scale factor	Unit
E5b$_{DVS}$	E5b Data Validity Status	1	N/A	dimensionless
E1-B$_{DVS}$	E1-B Data Validity Status	1	N/A	dimensionless

Table 74.   Data Validity Satellite Status (transmitted on E5b and E1-B)

The data validity status bit has the values shown in Table 75:

Data Validity Status	Definition
0	Navigation data valid (tbc)
1	Working without guarantee

Table 75.   Data validity Status Bit Values

The E5a signal health status transmitted on E5a-I is coded on 2 bits according to Table 76.

Parameter	Definition	Bits	Scale factor	Unit
E5a$_{HS}$	E5a Signal Health Status	2	N/A	dimensionless

Table 76.   Signal Health Status for E5a (transmitted on E5a)

The E5b and E1-B signal health status transmitted on E5b and E1-B are coded on 2 bits according to the following table.

Parameter	Definition	Bits	Scale factor	Unit
E5b$_{HS}$	E5b Signal Health Status	2	N/A	dimensionless
E1-B$_{HS}$	E1-B Signal Health Status	2	N/A	dimensionless

Table 77.   Signal Health Status for E5b and E1 (transmitted on E5b and E1-B)

The signal status bits have the values shown in Table 78.

Signal Health Status	Definition (tbc)
0	Signal OK
1	Signal out of service
2	Signal will be out of service
3	Signal Component currently in Test

Table 78.   Signal Health Status Bit Values (definitions are tbc)

5.1.9.4. Checksum

The checksum, which employs a CRC technique, is used to detect the reception of corrupted data. The checksum does not include the frame synchronisation pattern or the tail bit fields since these do not form part of the required message information. For the F/NAV and I/NAV data, a CRC of 24 bits is generated from the generator polynomial G(X) described below.

$$G(X) = (1 + X) \, P(X) \qquad\qquad \text{Eq. 22}$$

P(X) is a primitive and irreducible polynomial given by the following equation.

$$P(X) = X^{23} + X^{17} + X^{13} + X^{12} + X^{11} + X^9 + X^8 + X^7 + X^5 + X^3 + 1 \qquad \text{Eq. 23}$$

The CRC is composed of a sequence of 24 parity bits p_i; for any i from 1 to 24, p_i is the coefficient of X^{24-i} in $R(X)$ where:

- $R(X)$ is the remainder of the binary polynomial algebra division of the polynomial $m(X) \, X^{24}$ by $G(X)$ and

- $m(X) = m_1 X^{k-1} + ... + m_{k-2} X^2 + m_{k-1} X + m_k$ with $m_1, m_2, ..., m_k$ the sequence of k-bits information to be protected by the CRC, and m_1 as the MSB.

5.1.10. Almanac

The almanac data is a reduced-precision subset of the clock and ephemeris parameters of the active satellites in orbit. The user receiver utilises the algorithm described in paragraph 5.1.1 to compute the positions of the Galileo satellites. All other parameters appearing in the equations of Table 62, but not included in the content of the almanac, are set to zero for satellite position determination.

The Galileo almanac orbital parameters consist of

- Mean of semi-major axis

- Eccentricity

- Inclination

- Right ascension of the ascending node

- Argument of perigee

- Mean anomaly

A reduced set of clock correction parameters is provided as well in the almanac for each satellite including the time of applicability t_{oa} of the almanac data. This almanac reference time t_{0a} is referenced to the almanac reference week (WN_a). The WN_a term consists of two bits which is a Modulo 4 binary representation of the GST week number.

Additionally, a predicted satellite health status is provided for each of these satellites, giving indications on the satellite's signal components health and navigation data health. Finally, the IOD_a allows identifying without ambiguity an almanac batch. The almanac parameters are transmitted according to the characteristics stated in Table 79.

Parameter	Definition	Bits	Scale factor	Unit
SVID	Satellite ID (1 constellation of 36 satellites)	6	1	dimensionless
$\Delta(a^{1/2})$	Difference with respect to the square root of the nominal semi-major axis (see Table 61)	13*	2^{-9}	meters1/2
e	Eccentricity	11	2^{-16}	dimensionless
δ_i	Inclination at reference time relative to $i_0 = 56°$	11*	2^{-14}	semi-circles***
Ω_0	Right ascension	16*	2^{-15}	semi-circles***
$\dot{\Omega}$	Rate of right ascension	11*	2^{-33}	semi-circles/s***
ω	Argument of perigee	16*	2^{-15}	semi-circles***
M_0	Satellite mean anomaly at reference time	16*	2^{-15}	semi-circles***

Parameter	Definition	Bits	Scale factor	Unit
a_{f0}	Satellite clock correction bias "truncated"	16*	2^{-19}	s
a_{f1}	Satellite clock correction linear "truncated"	13*	2^{-38}	s/s
SV_{status}**	Satellite signal health status	2 (F/NAV) 4(I/NAV)	NA	dimensionless
Total Satellite Almanac Size		**131(F/NAV) 133(I/NAV)**		
IOD_a	Almanac Issue Of Data	4	NA	dimensionless
t_{0a}	Almanac reference time	10	600	s
WN_a	Almanac reference Week Number	2	1	week
Total Almanac References Size		**16**		

Table 79.   Almanac Parameters

* Parameters so indicated are two's complement, with the sign bit (+or-) occupying the MSB

** The F/NAV almanac transmitted by the E5a-I componenet contains the signal health status $SVB_{status}(E5aB_{HS})$ coded on 2 bits. The I/NAV almanac transmitted by the E5b-I and E1-B components contains both signal health status $SVB_{status}(E5b_{HS})$ and $SVB_{status}(E1B_{HS})$ coded on 2 bits each.

*** Note that the 'semi-circle' is not a SI unit but can be converted as: 1 semi-circle = π radian

5.1.11. Signal In Space Accuracy

The signal In Space Accuracy (SISA) definition will be published in a future update of this SIS ICD.

5.2. SAR Data

Each Return Link Message encapsulated in a SAR data page contains the following data

- Beacon ID (60 bits). This field is used by the beacon to discern whether the RLM received is addressed to itself or to some other beacon

- Message code (4 bits) defining the message type

- Parameters field (16 bits for the short RLM, 96 bits for the long RLM). This field provides the information that SAR operators wish to send to the Galileo-equipped beacon.

Short RLMs are used to provide the activated Galileo-equipped beacon with a short acknowledgement or various kinds of commands (e.g. to reduce its transmission rate). Long RLMs are intended for more complex commands in which several parameters may be required (e.g. to contain operational information or the coordinates of a location).

6. Annex A - List of Acronyms

AltBOC	Constant envelope modulation scheme for combining two sidebands each consisting itself of two binary signals (in I- and Q-component).
BGD	Broadcast Group Delay
CDMA	Code Division Multiple Access
COSPAS-SARSAT	Cosmicheskaya Systyema Poiska Avariynich Sudov - Search and Rescue Satellite Aided Tracking
CRC	Cyclic Redundancy Check
CS	Commercial Service
ECEF	Earth-Centered, Earth-Fixed
FEC	Forward Error Correction
GGTO	Galileo/GPS Time Offset
GPS	Global Positioning System
GST	Galileo System Time
ICD	Interface Control Document
ID	Identification
IOD	Issue Of Data
JTIDS	Joint Tactical Information Distribution System
LAN	Longitude of the Ascending Node
LSB	Least Significant Bit
CBOC	Composite Binary Offset Carrier modulation
Mcps	Mega chips per second
MHz	Megahertz
MIDS	Multifunctional Information Distribution System
MSB	Most Significant Bit
MUX	Multiplexer
N/A	Not Applicable
OS	Open Service
Q	Quadrature Component
QPSK	Quadrature Phase-Shift Keying
RF	Radio Frequency
RHCP	Right-Hand Circular Polarization
RLM	Return Link Message
SAR	Search-and-Rescue Service/Signal
SIS	Signal-In-Space
SISA	Signal In Space Accuracy
SNF	Satellite Navigation Frame
SoL	Safety-of-Life Service
SV	Space Vehicle
SVID	Space Vehicle IDentificator
TACAN	TACtical Air Navigation (system) equipment
TOT	Time Of Transmission
TOW	Time Of Week
TTF	Time To Fix
UTC	Universal Time Coordinated
WN	Week Number

7. Annex B - Definitions and Nomenclature

E5-Signal	The Galileo E5-signal consists of the signals E5a, E5b (and modulation product signals) and is transmitted in the frequency band 1164 - 1215 MHz allocated to RNSS with a worldwide co-primary status. The E5-signal shares the band with the co-primary Aeronautical Radionavigation Service (ARNS) (ITU-R Radio Regulations). Moreover, it shares the band with other RNSS-signals provided by EGNOS, GPS-L5, GLONASS etc. as well as signals of the ARNS (DME, TACAN). Also found in the band is the JTIDS-MIDS signal which is permitted on an NIB.
E5a-Signal	The Galileo E5a-signal is an inherent element of the E5-signal and consists of a data-component transmitted in the in-phase component and a pilot-component transmitted in the quadrature component. The E5a-signal provides the F/NAV message supporting Galileo Open Service and overlaps (in the spectrum) with the GPS-L5-signal.
E5b-Signal	The Galileo E5b-signal is an inherent element of the E5-signal and consists of a data-component transmitted in the in-phase component and a pilot-component transmitted in the quadrature component. The E5b-signal provides the I/NAV message and supports Safety of Life service, Galileo system integrity and Open Service.
E6-Signal	The Galileo E6-signal consists of the signal components E6-B and E6-C and is transmitted in the frequency band 1215 - 300 MHz allocated on a worldwide co-primary basis (ITU-R Radio Regulations), sharing with radar systems of the radio navigation and radiolocation service. The signal components E6-B and E6-C are data-component and pilot-component respectively. The E6-signal provides the C-NAV message and supports Commercial Service.
E1- Signal	The Galileo E1-signal comprises the signal components E1-B and E1-C and is transmitted in the frequency band 1559 - 1610 MHz allocated to RNSS and ARNS on a worldwide co-primary basis (ITU-R Radio Regulations). The signal components E1-B and E1-C are data-component and pilot-component respectively. The E1-signal provides the I/NAV message and supports Safety of Life service, Galileo system integrity and Open Service.
Navigation Data Stream	Sequence of bits carrying the navigation data information by using a frame structured transmission protocol.
F/NAV Message	Freely accessible navigation message provided by the E5a signal for Open Service.
I/NAV Message	Integrity navigation message type provided by E5b and E1-B signals, supporting Safety of Life Service and providing extended system integrity information.
C/NAV Message	Commercial navigation message type provided by the E6-B signal supporting Commercial Service.
Data component	A data component is the result of modulating ranging code, sub-carrier (if present) and secondary code with a navigation data stream.
Pilot component	A pilot component (or dataless component) is made of ranging code, sub-carrier (if present) and secondary code only, not modulated by a navigation data stream.
Receiver reference bandwidth	The bandwidth of a hypothetical receiver with ideal (rectangular frequency response) input filters

8. Annex C - Galileo E1 and E5 Memory Codes

C.1. Introduction

This annex provides the optional memory based primary codes (expressed in hexadecimal format) for the Galileo Open Signal components E5a-I, E5a-Q, E5b-I, E5b-Q, E1-B, E1-C.

C.2. Hexadecimal Coding Convention

Generally, one hexadecimal symbol (0,..,9, A,..,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-chip etc.

For primary codes whose length is not dividable by four, 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. The translation from the chip-stream to hexadecimal symbol stream is illustrated with an example code of length 10 in the next table.

| Time (in Chip)	1	2	3	4	5	6	7	8	9	10	11	12
Logic Representation of Chip-Values	1	1	1	0	1	1	0	0	0	1	-	-
Logic Representation Filled up with Zeros at the End	1	1	1	0	1	1	0	0	0	1	0	0
Logic to Decimal Translation	x8 x4 x2 x1 ⊕				x8 x4 x2 x1 ⊕				x8 x4 x2 x1 ⊕			
Decimal Representation	14				12				4			
Hexadecimal Representation	E				C				4			
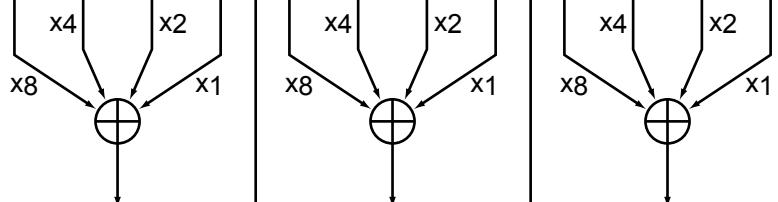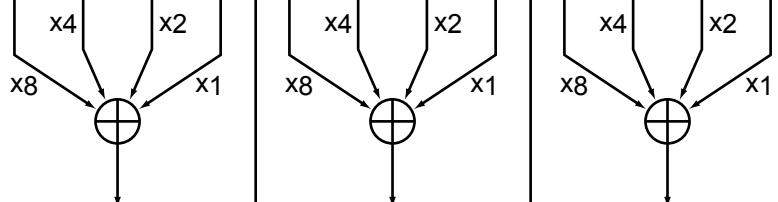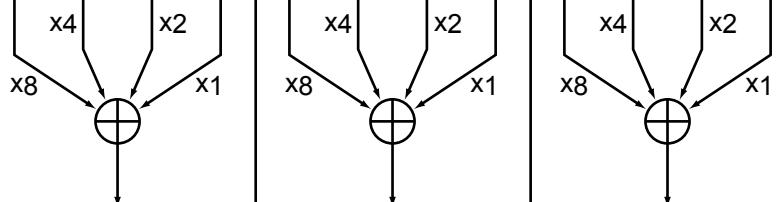
Table 80.   Example for the Translation of Logical (binary) Spreading Code into Hexadecimal Representation

The following table summarizes these code properties.

Component	Primary Code Length (chips)	Number of Hexadecimal Symbols	Number of Filled up Zeros	Number of Defined Codes
E5a-I	10230	2558	2	50
E5a-Q	10230	2558	2	50
E5b-I	10230	2558	2	50
E5b-Q	10230	2558	2	50
E1-B	4092	1023	0	50
E1-C	4092	1023	0	50

Table 81. Primary Code-Length and Hexadecimal Representation Characteristics for the Galileo Signal Components.

C.3. Primary Codes for the E5a-I Component

```
E5aI Code No 1
3CEA9DA7B07B13A6CC0AE53DAD1EE2A0FCC70009338C08AC0EE457F76A1690815C3C940AB7224
87CC8F3D1F4C428828E7FD2A21230E42A3BBDF1E792165F644D0E0335F95EBDC93D6005CC0C68
0DB7B0E1B8C4946B7974319F9816141DB9E01011E4F20DA8F1B8E15A6F618CF599C3F5C1A1B27
6D51318ED4119BCE0ACD0332F3DD8F88EC5215AB311C51FF4987DA93B09A43BA84CF08032F6CB
28F43043C54586811D870AD6FA27AA63785345C8BCDD3DA26A0134738BC7E08461D5409FF0B79
1D8574CE797FC5EF7821055028CB4AF92AE1088F8806CD55F0E5FDFCD8D74ED801B2B44AD5D79
D1924D41DDC6AB2070B5360CB64CCF487FE517420348CC39BF50BDF78BE7DA91542FEAB689457
B3EE69E43C75FADC303F31032FD96B7DC70A88C3B7BAC7322B285D9CFB3A93AC8B890165F2384
8FAD8477DBDD3D0AA4CB3CD73A48000B6D134DA2DA70B56E590A101AEE78864DA0C64A7BCC6B3
7CD6F31E9AFF10CA4D47630752D253944632DF6EC60AECDCD223F29399CDA3B74D1DFA5471277
EE6C814464A8C55D3C0B83B36B6AC9FA90CE876ACDF65E3EA3FD61D309EB71ED29A3D510B2F4C
0B6D6C5B57EC9060CFBE48389DCB17CBB2284E7F578565B91503B06F49CF3E8534870AEB6AD97
07265A9A1E6E2E5E6DF6DAA367239A96EF5B02C19A4543D537EB4D9D73966C09E9B52B4706F57
B3E0987885EB84DEA26F7823D895F62015188ED38C04CC6714F797FDB0BC713E3D0208462F9A6
8E3872A167BF1BF9791AEE8BB73CF527C50975B55C4E5C2F2E95B677F833ECC878D1764839608
CC1108A75EE9E58FFCFE4CB52884E7AF15EE0632E0729DA1CF5B7A227028CFE1E08F8B881E1A7
43D52DD27BED33DE0EE75DC031B4864CF192DFEAF64F726D73321363A233F81C57232432D2B0A
5A4C44F4320847A9C143F378F204185D2B571482FE45D6BCA152E6EA7223BFC6DCE06CEF90CE9
114623EAB9B1EC789B2051B4AB711DABF5B16FCD970F437B8860313B4F1F14D384EE3976B7E55
D2FDCB7E1BD9BE18B722E37C853ADC7E1CC2870A02881F95B78487780E1D1C296415109CF07AB
63D0782A9F451CBEB3E8B919917AEDBCA8A8E563AD3784639793E0F25CC9CC62240FA04B2F141
E71BF5C84EAC564311595569B8BCE077A51469A87737D3D6F06D97DD479FCC35129F4499C19EF9
8BDCEA9D4941B3756CDE1997C3AFCAE62B6D9E23341E11CD05A7FFF52F5814011A84D737E1264
109006BEF5F19E3C6A9C7521B44741A8282755A8F0DC2FA0E1F6CA4FB34D8CD5FAA27E1880886
8725B9634376137C1BBC46934F83958112D03082DDD6148F353BD1DD24B9F8FD7AD89C40DA0A9
2A8DBE3608038CD56FFC4ACA35241D76FAC4CAE1211AAD9D73D51C81C59BCE05F71C345730D3A
2C670F8F533A950EF24B00EFE6A3F1354694ABCC6FD9EC4E74DDE1F287AD4F847A297ECCCC39A
F029EFCDDDB19932D906B9CEDFCBE0D422CEE305DD05E407340F28EEEA866664D60AF293A45D5
D6D5C0000B05F79463DB513ED488DE7BD4EC9EACFEF973B23CE4E9539EFCB797456CF5FD1EC54
FDCEE80B39063C48B91A5C2D2BEBC81B9B46D0AD6503BE5AACED2BA5EBE81F630B4E07510356E
8229F7FC5EA532B8729CDB819E066A15379AC6942CD4BC5E97C6791E098105C323A3A3DA3880D
5EE5562ABBA2BDC9906F4486B51ACF8AA4405E9D7A63DB9E3058782DD9AF3995FFB3D34AEF982
34A0B3DC62C339325B60706C068F0198BD8FA658396D06931B069155217690C7F88FD230CDB38
E3E48530BD47722FC
```

```
E5aI Code No 2
9D8CF144C4B667345D44F765622A956CAC4E097AB1CAB05CFBCC6BB68C709503AD9DB09C09C98
3D46A04A05B6F7EB26DB4D46F868C10E112828B1AEDB3C0074BE0DE3C9B7821BABB4F8B8E24F6
9869CCD981B09A783BF6A95F39ECFAF25DED6B16F89EA09D3A8413CCEBB545651B363DD385D12
BB72420440C40E804FA27DE029A1E08629BAAB598C035DC58FDD309844F3BEBDE40FCC231F386
05DED06572ADD85DC51D3D8B89B4480143D0B75283522354330E5CCF4DE1A6E68047D5B8D45D8
35A891F2D40C9DB8A76CEB1D18FE2BC38D080A8D97064CC87D692DF21184ABFDDA7642D0BD6F3
209D06B4AE7600F7DDDB71DA751120599117ECCE645FD109CCA2EC7DB98F4177F14DB854FEB31
4B5D7CDC3385AD203464EADEAFF4AD08DFEF3D21240BFB8EFCAAC1356C72A0F5C61BE03CD2A21
A7D756FA9003D562FC4A49A6BE788EC8D80054ACA881DFFF72C2966EECD09F185EDD11218C669
```

6DB14E05FFF3644D11E508F4F1E9C5AB3074FB1C3FB21092A1C8D5AE05688FA4A9226C3C30D0B
C3981933DC8648240F8CB67085F53AC5295428DC8447A1E5A46C2BA86796982C4C6CC647FD807
9BC4024BB69E2B226E6F3D0F8A90B4D36DA2AED4C6BB60D318AA7479FDC2031143C67CB4381C2
7072E12935001524C7BECEDAA9954BCC2AA218E9EC2C95498FD8DF655C015896D9ED42CE7F91C
BBA2CC4A7920038EBB5F5CE638F969F8B179E72AE252BE7E826E5CB53C2E85AAF1E1F1AD8D534
F78A681928818AC3154651FFC583DEB0A6A1F40B98771ACC528AAF80D210ADAF83597869968D4
99ADE9A19BAF341E8CBA20F0E1473BDD898C24C7A5466F9924EC7EE992A2086AF295BEE1F6D0F
8843D91180BF2C981C11FD978B23B6BAF7786BD526B458B76A87C31D7C52DFA43F3D362C8EEFF
FB3FE5FB3F6E5F34B1FEC7EF1031146F3F609B32677F148F7DEBCF3526BB45582436A30924081
93D6312626E46ECFA96FEAD12A234CACE10FAF9DE75EE2D238088146328E10E9ECDBB0B018ECD
F2725415CF5A06AAB857403BBF6CBFC350903A982864827988BC805A3484A31FECF7A40D4FE25
1BC7E487613B9D3A48D3C7DAEFDC49C4B7E625F868DB53A798515A61050978552699EF2A5BF2F
13BDD444EADC9B60B479FDD4633EB4C1062AA78BEF06692DED203819D3160310FD7F234373215
6A9CBCB0B50BA9A8F93E339B702670E54BFA6DB2E2E773202C690FB71EB03671AB0B1B02B2F18
9BD99061ADD23F75F4914067AE638C9A29DD3661C28AE272CE692CBDE6AE880FBCF272E548342
372CBAF6370C7E3AE9648341CE7310BE1C534B5702B0611AF65868F840B6B7613FDAEA21DEFB4
F2024487023B02B8B58C9E9F27AA787EE775249EFC40913CBBD69C38538F239B203815F00F7B9
CB30DC79E6A0C3E069D109E4A1BAEEE36D354C3D0121F1342F1F4AC504A68D69DEC158D54B04B
E8164B48F31BC0827A0379C5237070B6F963741AD9ED4F3865698FB8233D7F49ED4E0EEF3AD92
7CBAF4FAE183252BC56AE4CDE3E329B1D9C87C6C11429B15B8EE589213CFAC208A12AA01B4F1F
7CC35CD0AEAE217471B3DAC1C279F353DC61994FC45FEDBBE0005D8EC729385645864EF98A3A4
17E62F1EACA7E60D4E773BB2E4024D62830F103A7988733DD7BBCF3AB0CD0049006FE2F7EB382
1724BEC37EAE44681A9699A025D212724CD98CA3415FE2BD09FADC02F1501FA38A6083427B662
DDCBD0460E12A09072698EC8966C47B8A640AC79C1B7722E78A6C28680F4BB77BBA477BE0A6FA
B959B9753217C5708

E5aI Code No 3

45D1C8FF162EE106CC87C3EBF6A837930F8CC797EC7A446E8A213ABD239582350636B19B5BE42
8A9C13F980B7AF5CD7F32630AFE8693CDF0EC0BC2C84F2472F5B86576E8C43136C14717A24705
953D392BAC96C1055B782C7941D82FEA357E5FDEFF772FB9F3DF248455CADEAC4CBA2EBA9C911
84006D1680E000D59E4BC8FBE2C2F7CC2E78BFA5B60EB292F244E6CF497D5A287432F2520B31B
9D9FEC1210923299EDFF043CE077195509E92372F5959AAB4666AE486DEFA400D81463C388CD0
5C677BFD4953D2627105B0A776960FEE916C75D53981D30DC689581B7E8E0723D65949662ECFA
A6FCC9F0CE8892E367721718F906207663F9AD450AE98D75DF004080FC15DC2CD7A1DCE013A0E
547ADDC29A397ECB9E7FA02035327AC40240E2091098708D424563AB7C5867F3F2D78EE3EF5B6
58FDDBD49435060CA2EA3D559CDE957B7E48B98DB41CF875F7B3D9EBDF6547B4EDD98DF4B747B
0793152FA8CC07C6D9EE5A2002464566D86466C2EDE54A2BF4BBE823049E57364C127A14BFE1B
88ECF70EFB81EB831BBF50F6AE124E5F6A775F3F2620E91D489CCF24811C0890EF905E9E2ACD3
99E13DC81333A54BDD295B872EB74E412E2FB654A9874854FBC3A68C73434C5FC5CED27534B2B
13C316205FF4E432FAFC13A7B5B7A7FFA9FEEDB5AE69036F8F2955DA124CE5856E8C53F24E609
F7D3386DC5212B2E78B5AA23B59D45FE98AA08E9CFAA9D52ED260A36AF07522C047ED43808A39
D7019E444EDF84D885A9AC84092A0F6BFED562F3E0D79FB5CF62F98E67EF219FA3F5AEB7D4E34
4642D3D4B1A7EEA18464F6CE8D4CB3181D9EBF6F4122751B54D0D7F3FC470A91B547148AAB1CA
0DF59872120190640555A7561B0F2C11280768F74B1A56674FD5480B0F510491431810D99CECB
C6DB85888BACBE2B020FB8B3D780397732297141566494EAEC3A2D0A59E718F72205747D69C05D
DF1C678E2E154A1F84EF0CA2E24DC4A6A996F0850A396D2432596EAE84AEC0935B8C25D5C65B5
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E5aI Code No 49

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E5aI Code No 50
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C.4. Primary Codes for the E5a-Q Component

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E5aQ Code No 2

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E5aQ Code No 3

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## E5aQ Code No 16

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## E5aQ Code No 17

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## E5aQ Code No 18

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## E5aQ Code No 19

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## E5aQ Code No 20

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## E5aQ Code No 21

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## E5aQ Code No 22

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## E5aQ Code No 23

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E5aQ Code No 24

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E5aQ Code No 25

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## E5aQ Code No 31

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## E5aQ Code No 32

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## E5aQ Code No 33

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## E5aQ Code No 34

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## E5aQ Code No 35

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## E5aQ Code No 36

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## E5aQ Code No 37

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E5aQ Code No 39

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## E5aQ Code No 40

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## E5aQ Code No 41

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### E5aQ Code No 42

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### E5aQ Code No 43

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## E5aQ Code No 44

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## E5aQ Code No 45

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## C.5. Primary Codes for the E5b-I Component

--------------------------------------------------------------------------------

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E5bI Code No 2

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E5bI Code No 3

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## E5bI Code No 4

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## E5bI Code No 5

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E5bI Code No 10

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E5bI Code No 11

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C.6. Primary Codes for the E5b-Q Component

E5bQ Code No 1

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E5bQ Code No 47

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C.7. Primary Codes for the E1-B Component

E1B Code No 1

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E1B Code No 15

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E1B Code No 16

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E1B Code No 17

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E1B Code No 18

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E1B Code No 19

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E1B Code No 22
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E1B Code No 24
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E1B Code No 25

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E1B Code No 26

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E1B Code No 27

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E1B Code No 35
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E1B Code No 37
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E1B Code No 38

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E1B Code No 47

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E1B Code No 49

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C.8. Primary Codes for the E1-C Component

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E1C Code No 15

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E1C Code No 17

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E1C Code No 18

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E1C Code No 19

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E1C Code No 20

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E1C Code No 21

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E1C Code No 22

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E1C Code No 25

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E1C Code No 26

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E1C Code No 27

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E1C Code No 28

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E1C Code No 29

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E1C Code No 30

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E1C Code No 31

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E1C Code No 32

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E1C Code No 33

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E1C Code No 34

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E1C Code No 35

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E1C Code No 36

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E1C Code No 37

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E1C Code No 38

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E1C Code No 39

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9. Annex D - Licence Agreement

> The content of the present DRAFT contract is not binding and the European Commission reserves the right to revise it. Any information, questions or observations, of whatever kind, contained in this document can in no way be regarded as a commitment on the part of the European Commission to enter into any agreement. No binding commitment will be entered into until the negotiations are completed and the relevant agreement signed.

Licence Contract

between

The European Union

and

....

N° (to be added before signature by DG ENTR)...............................

The European Union (hereinafter referred to as "the EU"), represented by the European Commission (hereinafter referred to as "the Commission"), represented for the purpose of signing this Agreement by Mr Heinz Zourek, Director-General of Enterprise and Industry (hereinafter referred to as "DG ENTR"),

on the one part,

..........................., whose registered offices are in ....,registered under the number .... at ...., represented for the purpose of signing this Agreement by .... (name and position) in his official capacity (hereinafter referred to as "..................." or "the Licensee"), acting for itself and for and on behalf of its Affiliates

on the other part,

European Union and .... individually referred to as the "Party" and collectively as the "Parties"

WHEREAS

Pursuant to European Commission Decision of 12th September 2001 SEC (2001)1397 Article 13 the European Union has the mandate to exploit technologies and related Intellectual Property Rights (IPRs) resulting from the programmes and activities under its responsibility, grant licences thereto and promote technology transfer.

According to article 8 of Regulation (EC) No 683/2008 of the European Parliament and the Council of 9th July 2008 on the further implementation of the European satellite navigation programmes (GNSS Regulation), the "Community shall be the owner of all tangible and intangible assets created or developed under the programmes, to which

effect agreements shall be concluded with third parties, wherever appropriate, with regard to existing ownership rights".

According to article 12 of the GNSS Regulation the Commission shall be responsible for the management of the European GNSS programmes.

As part of its management tasks, the European Commission is entrusted with the definition of the terms and conditions upon which third parties shall have access to the Open Service Signal In Space Interface Control Document (OS SIS ICD) IPRs.

The European Space Agency (ESA) has granted to the EU a licence under its respective OS SIS ICD IPRs, including OS SIS ICD Copyright, with the right for the EU to grant sublicenses hereunder pursuant to the terms and conditions of this Licence Contract.

The aim of the EU is to promote the uptake and the widespread diffusion of the GNSS technologies and related applications, as well as to foster their use for commercial purposes.

On such basis, the European Union is interested in granting a license for the use of OS SIS ICD IPRs, which it owns or has the right to sublicense for the purposes of:

- research and development;

- manufacturing and commercialisation of GNSS related devices;

- provision of added value services,

according to the terms and conditions specified here below.

The Licensee is interested in obtaining a license for the use of OS SIS ICD for the purposes and according to the terms and conditions of the present license agreement and the terms of use and disclaimer of the OS SIS ICD document which the Licensee declares to have understood and accepted in full.

Now therefore, the Parties agrees as follows

ARTICLE 1 - Definitions

1.1 **Affiliates** – means any legal entity that is under the direct or indirect control of the Licensee, or under the same direct or indirect control as the Licensee. Such control may take any of the following forms:

a) the direct or indirect holding of 50% or more of the nominal value of the issued share capital in the legal entity concerned, or of a majority of the voting rights of the shareholders or associates of that entity;

b) the direct or indirect holding, in fact or in law, of decision-making powers in the legal entity concerned.

The list of Affiliates is given in Annex D2.

1.2 **Developments and Derivative Works** – shall mean the results originating from research and development activities based on (or related to) the licensed OS SIS ICD IPRs, concerning the Infrastructure Developed Under the European GNSS Programme.

1.3 **Effective date** – date of signature of the Licence Agreement by the last Party.

1.4 **ESA** – shall mean the European Space Agency.

1.5 **Export Controls** – shall mean any international or national Export Control law or regulation applicable to the Licensee's activities under the OS SIS ICD IPRs,

that regulates, embargoes or sanctions the export of products, information and/ or technology in any way.

1.6 **The Field of Use** – shall mean research and development on, manufacturing, commercialisation, distribution, sale, supply and maintenance of Licensee Products, which are making use of the OS Signal, by the Licensee and its Affiliates.

1.7 **GNSS Systems** – shall mean Global Navigation Satellite Systems.

1.8 **Improvements** – means all improvements, enhancements, alterations, modifications or adaptations to any part of the OS SIS ICD IPRs, related to the Infrastructure Developed Under the European GNSS Programme.

1.9 **The Information** – the information exchanged between the Commission and the Licensee during the execution of this Agreement, including but not limited to the Improvements, Developments and Derivative Works and related IPRs.

1.10 **Infrastructure Developed Under the European GNSS Programme** – shall mean the system of satellite and ground segments, comprised of hardware and software, designed and operated to provide the open service, the public regulated service, the safety of life service, the commercial service and the search and rescue service. This system consists of the:

   i)   GNSS Programme Core Infrastructure, which is composed of the following three segments: Ground Control Segment, Ground Mission Segment and Space Segment;

   ii) GNSS Support Facilities, which are fundamental for the deployment/ validation/maintenance of the GNSS systems and

   iii) GNSS Service Facilities, which are supporting the provision of services to the GNSS systems and users.

1.11 **Licensee Background** – shall mean all the Licensee information and knowledge identified by the Licensee, whether or not they can be protected as IPRs, and obtained by the Licensee prior to, or independently of, this Agreement.

1.12 **Licensee Products** – shall mean software, electronic devices (e.g. chipsets and receivers) and Value Added Services developed – directly or indirectly – by the Licensee by using the OS SIS ICD IPRs granted through the present Agreement, which are making use of the OS Signal.

1.13 **OS Signal** – the Open Signal broadcasted by the infrastructure developed under the European GNSS Programme.

1.14 **OS SIS ICD** – the Open Service Signal in Space Interface Control Document in its latest version (available at http://ec.europa.eu/enterprise/policies/satnav/ galileo/open-service/index_en.htm).

1.15 **OS SIS ICD Copyright** – shall mean the copyright of the OS SIS ICD document.

1.16 **OS SIS ICD IPRs** – shall mean any and all intellectual property rights contained in the OS SIS ICD and listed in Annex D1, including but not limited to Patents and OS SIS ICD Copyright.

1.17 **Patents** – shall mean any and all patents and/or patent applications mentioned in Annex D1, including the inventions described and claimed therein as well as

any divisions, continuations, continuations-in-part, re-examinations and reissues thereof.

1.18 **Technical Data of the OS SIS ICD** – shall mean the data related to:- Galileo Signal characteristics, the Galileo Spreading Codes characteristics, Galileo Message Structure, Message Data Contents and E1 and E5 Memory Codes.

1.19 **The Territory** – shall mean the territories covered by each intellectual property right specified in Annex D1, subject to relevant Export Control regulations.

1.20 **Value Added Services** – any service developed on the basis or by using the OS SIS ICD IPRs and delivering different or additional capabilities with respect to the OS Signal.

ARTICLE 2 - Subject of the Agreement

2.1 The EU hereby grants the Licensee and its Affiliates a non-exclusive royalty-free licence, in accordance with the terms of Article 3 below, limited to the Territory and Field of Use on the OS SIS ICD IPRs. The Licensee shall not be entitled to grant sublicenses of its rights under this Agreement.

2.2 Notwithstanding Article 2.1, the commercial exploitation of the Licensee Product in the Field of Use in countries outside the Territory will be under the sole responsibility of the Licensee and its Affiliates.

ARTICLE 3 – Licensee's Rights and Obligations

3.1 The Licensee shall exploit the OS SIS ICD IPRs in the Field of Use in a manner so as not to harm the security of the EU or its Member States as set forth in article 13.4 of Regulation (EC) No 683/2008 of the European Parliament and of the Council of 9th July 2008 on the further implementation of the European satellite navigation programmes.

3.2 The EU, as co-owner of the OS SIS ICD Copyright, grants the Licensee and its Affiliates the following user rights pursuant to this Agreement:

i) the right to make any use of, including the right to integrate and incorporate into any Licensee Products, the Technical Data of the OS SIS ICD and the right to store the Technical Data of the OS SIS ICD, provided the source is acknowledged;

ii) the right to reproduce the OS SIS ICD, in whole or in part, distribute it and publish it on a non-commercial scale without amending the document or adding any element, the right to place links in the Licensee and Affiliates website to the EU website where the document is published, provided the source is acknowledged, in accordance with the copyright notice in the OS SIS ICD.

3.3 Subject to the foregoing, Licensee shall have the right to select distributors and otherwise determine the commercial strategy, including all channels of distribution, regarding the distribution and sale of the Licensee Product in the Territory.

3.4 The Licensee shall be solely responsible for:

i) exercising his rights hereunder strictly in compliance with all laws and regulations of each of the countries in which such exercise takes place;

ii) compliance with all Export Controls regulations.

3.5   In order to monitor how the technology is being developed and better predict the evolution of the market at an aggregate level, the EU will submit to the Licensee on a yearly basis a questionnaire requesting general data and information. The Licensee agrees to promptly fill up and return the questionnaire. Should the Licensee estimate that one or more of the requested data or information is commercially sensitive, the Licensee shall have the right to withhold the reply to the associated questions by providing clear justification.

3.6   The Licensee shall mark all the Licensee Products as follows:

with a clearly visible reference "*developed under a License of the European Union and the European Space Agency*" in a manner which is common practice in the sector of the Licensee, for example in product manuals.

3.7   The Licensee shall swiftly and without delay inform the EU in writing of any possible Developments and Derivative Works and Improvements made to the OS SIS ICD IPRs in relation to the Infrastructure Developed under the European GNSS Programme.

Once informed, the EU shall assess whether such Developments and Derivative Works or Improvements are essential for the deployment and operation of the Infrastructure Developed under the European GNSS Programme and for the provision of the OS Signal and, in such case, enter into negotiations with the Licensee in order to obtain ownership of such Developments and Derivative Works or Improvements in the name and on behalf of the EU on fair and reasonable commercial terms. Any dispute around the terms and conditions for the above mentioned transfer of ownership shall be settled in accordance with Article14.

The Licensee shall assist and provide the EU with all necessary documentation and technical information for ensuring the protection of the above mentioned Developments and Derivative Works and/or Improvements. No disclosure to the public of such Developments and Derivative Works and/or Improvements shall take place before appropriate actions are taken securing effective protection.

3.8   The Licensee shall furthermore grant to the EU access to the Licensee Background, on fair and reasonable commercial terms, when such access is needed for deployment and operation of the Infrastructure Developed under the European GNSS Programme and for the provision of the OS Signal.

3.9   Terms and conditions of the present Agreement shall extend without limitations to the Affiliates of the Licensee. In particular, the Licensee shall ensure that all the obligations set forth in this Agreement are honoured by its Affiliates.

3.10   The Licensee shall provide at the signature of the Agreement the list of its Affiliates to whom the Agreement will apply. Such list shall be included in Annex D2. Annex D2 shall constitute integral part of the Agreement.

3.11   The Licensee shall inform the EU of any changes in the list of Affiliates as provided in Annex D2. In such case, the Licensee shall deliver to the EU the corresponding updated list to supplement the one provided in Annex D2. The updated list shall be signed by the Licensee and notified to the EU by registered mail and, upon receipt, shall constitute integral part of the Agreement, without the need to amend the Agreement.

3.12   For the sake of clarity, the inclusion of a new Affiliate within the list provided in Annex D2 - occurred after the Effective date - shall not have retroactive effect

towards the new Affiliate. The exclusion of an Affiliate from the list provided in Annex D2 shall not exclude the responsibility of the Licensee for any infringement of the obligations set forth in the present Agreement by the excluded Affiliate.

ARTICLE 4 – European Commission Obligations

4.1 If in the course of the Agreement, the EU assumes ownership of other OS related intellectual property rights (included but not limited to Developments and Derivative Works and Improvements) than those listed in Annex D1 the EU is entitled – but not obliged – to update Annex D1 accordingly.

4.2 In case the above mentioned intellectual property rights are included in Annex D1, they shall be considered as licensed under the present Agreement, without the need to amend the Agreement.

4.3 The EU shall promptly inform the Licensee by sending formal notice in writing at the address mentioned in Article 16 about any changes occurring in Annex D1 and about any new version of the OS SIS ICD.

4.4 The EU will forward to ESA a copy of the signed Agreement within thirty (30) days from the Effective date.

ARTICLE 5 - Maintaining the Patent in force

The EU shall not be obliged to maintain the OS SIS ICD related Patents in force. If the EU decides not to maintain the OS SIS ICD related Patents (or part of it) in force, it shall promptly inform the Licensee in writing.

ARTICLE 6 - Duration, Renewal and Termination

6.1 The duration of the present Agreement shall be 20 years from the date of signature by the last Party. It may be renewed for the same duration and under the same conditions upon written request by registered letter by the Licensee six months before the expiry date of the Agreement.

6.2 The Licensee may terminate this Agreement by serving six months' written notice by registered letter to the other Party. This Agreement may also be terminated at any time by written mutual agreement between the Parties.

6.3 In the event of termination of this Agreement in accordance with Article 6.2 and without prejudice to any other measures provided for in the Agreement, the Licensee shall:

a) discontinue the use of the Licensee Products or any other activity covered under Article 2,

b) take all appropriate measures to minimize costs, prevent damage, and cancel his commitments and

c) have the right, within 6 months after the declaration of the termination of the present Agreement, to sell all remaining Licensee Products at that date in stock, or to finish and fulfil all agreements which have been entered into prior to the declaration of the termination.

6.4 In the event of non-performance by the Licensee or its Affiliates of any of his obligations arising out of this Agreement (and in particular, but not exclusively, Article 3 and 7) and irrespective of the consequences provided under the law applicable to this Agreement, the EU may request to terminate the Agreement by sending the Licensee formal notice in writing at the address mentioned in

Article 16, specifying the nature of the alleged failure. If the Licensee or its Affiliates do not commence efforts to remedy the failure within 30 (thirty) days following receipt of the formal notice, the Agreement will be deemed as terminated. The consequences of such termination shall be those specified in Article 6.3(a) and 6.3(b).

ARTICLE 7 - Confidentiality Obligation

The access of the EU and the Licensee to the Information shall be limited to the scope of the present Agreement.

All the information that shall consist of, but is not limited to, the technical details, all business and manufacturing secrets and in particular research, development, production and market data as well as other business information and any other information, including the data and information to be provided under Article 3.5, is communicated under strict confidence. Neither the EU nor the Licensee shall disclose to any third parties any confidential Information related to the Infrastructure Developed Under the European GNSS Programme received by them.

ARTICLE 8 - Liability

8.1 The EU and ESA make no representation as to the patentability and/or breadth of the OS SIS ICD IPRs licensed under the present Agreement (except for the material existence of the Patent). The EU and ESA assume no liabilities concerning:

i) any third party's prior rights to use the OS SIS ICD IPRs,

ii) the dependency of the OS SIS ICD IPRs on third parties' intellectual property rights.

The Licensee and its Affiliates shall keep the EU and ESA harmless in respect to any infringement of any patent or other right of third parties due to the Licensee's activities under this Agreement.

The EU and ESA also make no express or implied warranties of merchantability or fitness for a particular purpose of the OS SIS ICD IPRs.

8.2 The EU and ESA disclaim all warranties, expressed or implied, for any claim related to the use of OS SIS ICD IPRs by the Licensee, its contractors or Affiliates, or related to the Licensee Product, including on product liability.

ARTICLE 9 - Infringements by third parties

The Parties hereto shall inform each other promptly of any act of infringement, passing-off, unfair competition or the like, or suspected or threatened such act, any challenge or any allegation or complaint by a third party in relation to use or intended use of the OS SIS ICD IPRs in the Territory which are subject to this Agreement.

The EU and ESA shall decide whether or not to bring an action for infringement against the infringer. In the event the EU decides not to bring an action for infringement against the infringer, it shall, within one month of becoming aware of the infringement, notify the Licensee.

ARTICLE 10 - Action for infringement brought by third parties

10.1 If actions for infringement are brought against the Licensee as a result of the exploitation of the OS SIS ICD IPRs, the costs incurred for its defence and payment of damages shall be borne by the Licensee. If an action for infringement is brought against the Licensee, he shall notify the European Commission and enable it to intervene in the action. The EU, at its discretion, may undertake to provide the Licensee with any assistance considered to be appropriate for its defence.

10.2 This Agreement and its validity shall not be influenced by the fact that one or more of the licensed OS SIS ICD IPRs should finally be declared not granted or invalid.

ARTICLE 11 - Intellectual property rights

11.1 OS SIS ICD IPRs are the exclusive property of the EU and/or ESA respectively, as indicated in Annex D1.

11.2 The Licensee acknowledges the OS SIS ICD IPRs as described in Annex D1 to remain with the EU and/or ESA and shall not acquire any intellectual property right on the OS SIS ICD IPRs under the present Agreement. During the time of the present Agreement, the Licensee shall not challenge the validity of OS SIS ICD IPRs, or support third parties in such a challenge.

ARTICLE 12 - Indemnification

12.1 Subject to Article 12.2, the Licensee shall defend at its own expense any claim, suit or proceeding brought against the Licensee, insofar as it arises from the Licensee's use of the OS SIS ICD IPRs

12.2 In the event any claim, suit or proceeding is brought against the Licensee based on a claim that any portion of the OS SIS ICD IPRs constitutes an infringement of patent or copyright, or other intellectual property rights of any third party arising under the applicable law, the EU (and/or ESA, in relation to the OS SIS ICD IPRs it owns) shall have the right at its option to assume the defence of such action. In such event, the EU shall pay all damages, costs and expenses finally awarded to the third parties against the Licensee but shall not be responsible for any compromise made without its consent.

ARTICLE 13 - Permits

The necessary steps for obtaining all permits and licences required for the implementation of this Agreement, under the laws and regulations in force at the place where the commercial activities of the Licensee are to be provided, shall be the exclusive responsibility of the Licensee.

ARTICLE 14 – Applicable Law and Arbitration

14.1 This Agreement shall be governed by European Union law, and by the law of Belgium where necessary.

14.2 Any dispute, controversy or claim arising under, out of or relating to this contract and any subsequent amendments of this contract, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims, 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.

14.3   If, and to the extent that, any such dispute, controversy or claim has not been settled amicably and one of the Parties so notifies the other in writing, such effort shall be deemed to have failed. In that case, each Party may initiate proceedings before the General Court in Luxembourg, subject to an appeal to the Court of Justice of the European Union.

ARTICLE 15 – Miscellaneous

15.1   This Agreement, including the Annexes attached hereto, is the entire Agreement among the Parties relating to the subject matter hereof and may only be modified by a written amendment signed by the authorised representatives of each Party.

15.2   The invalidity of a provision of this Agreement is not fundamental to its performance, the validity and enforceability of the remaining provisions hereof shall not in any way be affected thereby, it shall not relieve any of the Parties of its obligations and shall not deprive any of the Parties of benefits under the remaining provisions under this Agreement.

ARTICLE 16 - Administrative provisions

16.1   Any communication with reference to the performance of this Agreement, all notifications and any relevant correspondence shall be made in writing and addressed to the following addresses:

For the LICENSOR:

European Commission
Directorate-General for Enterprise and Industry
Unit GP1 - EU satellite navigation programmes: Programme Coordination; Infrastructure and Exploitation
Rue de Mot 28, 4/107
B-1049 Brussels – Belgium

To the attention of the Head of Unit

For the LICENSEE:

Name of the Company:
Address:
Contact person:
E-mail:

16.2   The Agreement reference is N° (to be added before signature)..........................
It shall be quoted in all correspondence with the European Union.

ARTICLE 17 - Annexes

The following are appended to and are an integral part of this Agreement:

Annex D1:   List of OS SIS ICD–related Intellectual Property Rights

Annex D2:   List of Licensee's Affiliates

Done in Brussels,
In two originals in the
English language

For the LICENSEE

For the LICENSOR

Mr. Heinz Zourek
Director-General
Enterprise and Industry

Annex D1 to the Agreement N° (to be added) - List of OS SIS ICD related Intellectual Property Rights

	IPR	Name of IPR	Patent/ Trademark number	Date of filing	Date of publication	Applicant	Owner	Application number	Type of applicant	File reference	Territorial coverage
1	Patent	Multi-band antenna for satellite positioning system	WO2007006773	10/07/2006	18/01/2007	GSA	EU	PCT/EP2006/ 064067	International / European	P-2744	Australia Canada Norway USA S.Korea China India Japan Russia
2	Patent	Method for providing assistance data to a mobile station of a satellite positioning system	WO2007054493	07/11/2006	18/05/2007	GSA	EU	PCT/EP2006/ 068177	International / European	P-2745	Australia Canada Europe designated countries: (AT,BE ,CH,CZ,DE,DK,E S,FI,FR,GB,GR, HU,IE,IT,LU,NL,P L,PT,RO,SE,TR) USA S.Korea China India Japan Russia
3	Patent	Method and generator for generating a spread-spectrum signal (initially referred to as Use of antiphase CBOC (6.1) modulation to improve ranging accuracy in satellite navigation signals)	Not yet granted	20/04/2007	09/05/2007	GSA	EU	11738006	USA	P-2764/US	USA

#	IPR	Name of IPR	Patent/ Trademark number	Date of filing	Date of publication	Applicant	Owner	Application number	Type of applicant	File reference	Territorial coverage
4	Patent	Method and generator for generating a spread-spectrum signal	Not yet granted	15/09/2009	25/03/2010	GSA	EU	12559874	USA	P-2764/ US–DIV	USA
5	Patent	Chaotic spreading codes and their generation	91 292	01/12/2006	–	GSA	EU	91 292	Luxembourg	P-2784/LU	Luxembourg
5	Patent	Chaotic spreading codes and their generation	WO2008065191	30/11/2007	05/06/2008	GSA	EU	PCT/EP2007/ 063080	International / European	P-2784	Australia 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) India Japan S.Korea Russia USA
6	Copyright co-ownership with ESA	OS SIS ICD	NA	NA	NA	NA	EU and ESA	NA	NA	NA	Worldwide
7	Patent	Spreading codes for a satellite navigation system (concerning memory codes)	WO2006063613 EP not yet granted	17/12/2004	22/06/2006	ESA	ESA	PCT/EP2004/ 014488	International	ESA/GAL/ PAT/003	Canada 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) USA Brazil China Japan

	IPR	Name of IPR	Patent/ Trademark number	Date of filing	Date of publication	Applicant	Owner	Application number	Type of applicant	File reference	Territorial coverage
8	Patent	Spreading codes for a satellite navigation system (concerning secondary Codes)	WO2007003213 EP granted 26/08/2009	01/07/2005	11/01/2007	ESA	ESA	PCT/EP2005/007235	International	ESA/GAL/PAT/004	Canada Europe designated countries: (BE,CH,CZ,DE,ES,FI,FR,GB,GR,HU,IE,IT,LU,MC,NL,PT,SE,TR) USA Brazil China Japan

Annex D2 to the Agreement N° (to be added) - List of Licensee's Affiliates

1.

Name of the Company:
Address:
Contact person:
Telephone:
Fax:
E-mail:

2.

Name of the Company:
Address:
Contact person:
Telephone:
Fax:
E-mail:

3.

Name of the Company:
Address:
Contact person:
Telephone:
Fax:
E-mail:

Confidentiality: *none of the information provided will be made public and will only be used by the European Commission for internal purposes.*