

<b>Purpose</b>	<input type="checkbox"/> First Installation	<input type="checkbox"/> Re-coding
----------------	---	------------------------------------

### Aircraft identification

Type of aircraft	<input type="text"/>	MSN	<input type="text"/>
			<i>if forwardfit</i>
Country	<input type="text"/>	24-bit address	<input type="text"/>
	<i>Country of registration of the aircraft</i>		<i>hexadecimal format</i>
Tail Number	<input type="text"/>	<input type="text"/>	
	<i>Aircraft registration marking</i>	<i>Tail Number Repeated in Radio Alphabet (ex: Foxtrot Bravo Romeo Zulu Echo)</i>	

### Aircraft operator

Airline / Name (if private)	<input type="text"/>	Three letter airline designator (AOD)	<input type="text"/>
Address	<input type="text"/>	Phone	+ <input type="text"/>
	<input type="text"/>	E-mail	<input type="text"/>
	<input type="text"/>	Country	<input type="text"/>

### ELT system configuration

Model of ELT to program	<input type="text"/>	Will it be the only ELT onboard this aircraft?	<input type="checkbox"/> No <input type="checkbox"/> Yes
Other ELT(s)	<input type="text"/>		
	<i>If there are other ELTs onboard this aircraft, please indicate type, coding, rank, etc, see reverse for more information</i>		
Is there a programming dongle in this installation?	<input type="checkbox"/> No (ELT programming) <input type="checkbox"/> Yes (DONGLE programming)	← <b>This information is crucial. In case of doubt, ask your programmer for help.</b>	

### Coding preferences

Note: If you leave this part blank (recommended), the programmer will select the most appropriate protocol for you. However, if you require a specific protocol, or if your local authority has already delivered a Serial Number or a 15 HEX ID, you can indicate it below. **If you indicate a preferred coding, the programmer will not be held responsible** for any refusal of registration of your ELT by your country authorities.

**Preferred coding:** (leave this blank unless you are sure to know which coding protocol is accepted in your country)

<input type="checkbox"/> T/N (tail number)	<input type="checkbox"/> S/N (issued by manufacturer)	<input type="checkbox"/> 24 bit address (ICAO)	<input type="checkbox"/> AOD	<input type="text"/>
<i>T/N coding restrictions : see note on reverse</i>			<i>Please indicate Op. Designator and serial number</i>	
<input type="checkbox"/> National S/N	<input type="text"/>	<input type="checkbox"/> National 15HEX	<input type="text"/>	
<i>S/N issued by country authorities</i>		<i>15 HEX ID issued by country authorities</i>		

Date:	<input type="text"/>	Signature (the operator)	<input type="text"/>
-------	----------------------	--------------------------	----------------------

Part to be completed by authorized programmer after programming

### ELT or DONGLE information

CSN (ex: 284147)	<input type="text"/>	S/N (ex: LX1100001234)	<input type="text"/>
------------------	----------------------	------------------------	----------------------

### Coding information

Protocol	<input type="checkbox"/> T/N (tail number)	<input type="checkbox"/> S/N (serialized number)	<input type="checkbox"/> ICAO (24 bit address)	<input type="checkbox"/> AOD (Op. Designator)
----------	--	--	--	---

Identification number	<input type="text"/>	ELT number	<input type="text"/>	Country Code (MID)	<input type="text"/>
-----------------------	----------------------	------------	----------------------	--------------------	----------------------

Identification (15 HEX ID)	<input type="text"/>	Checksum	<input type="text"/>
		<i>Checksum : see note on reverse</i>	

### Programmer details

Company name	<input type="text"/>	Date	<input type="text"/>
Programmer name	<input type="text"/>	Signature (the programmer)	<input type="text"/>

# INSTRUCTIONS

Please respect the following instructions.  
Incomplete or incorrect form may result in a delay of the programming of your ELT/Dongle

## Purpose

- **First Installation:** for ELT or DONGLE installation on board A/C. Typically for installation of a new Dongle / New ELT in the aircraft.
- **Re-coding:** in case of change of country of registration or in case of re-affectation of an ELT.

## Aircraft identification

- **Type of Aircraft:** use ICAO aircraft type designator or Manufacturer/Model
- **MSN:** The "Mainframe Serial Number" shall be completed if ELT/Dongle is delivered to an Aircraft Manufacturer for installation on board a new aircraft.
- **Country:** Country of registration of the aircraft
- **24 bit address:** This is the transponder code, available from Civil Aviation Authority, must be indicated in Hexadecimal format. Eg: "1101 1111 0010 1100 0011 0001" becomes "DF2C31"
- **Tail number:** indicate the Aircraft Registration Marking – Repeat the tail number in Radio Alphabet to avoid any mistake.

## Aircraft operator

Before programming the ELT/Dongle, the programmer may have to contact the operator if some information is erroneous or missing.

## ELT system configuration

- **Model of ELT to program:** Complete the exact type of ELT to be installed. Eg: KANNAD 406AF, 406AF-Compact, Integra AF... Even if a dongle is used, it is mandatory to indicate which type of ELT will be connected to it.
- **Will it be the only ELT onboard this aircraft? :** This information is mandatory to avoid duplicate coding in case of multiple ELTs.
- **Other ELT(s):** if more than one ELT will be carried by the same aircraft, it is mandatory to indicate as much information as possible including: Type of ELT, coding protocol, rank, 15Hex id etc... This will avoid eventual duplicate coding, which is not accepted by the Cospas-Sarsat system. This does not apply to an existing ELT which is going to be removed and replaced by this one.
- **IS THERE A PROGRAMMING DONGLE IN THIS INSTALLATION? :** If there is a programming dongle, the dongle must be programmed, not the ELT. In case of doubt, ask your programmer how to identify a dongle.

## Coding preferences

The choice of the coding protocol depends on technical and regulatory parameters. This part shall be filled in by the operator **only** if he knows which protocol is acceptable for them. In case of doubt, please leave the programmer to decide of the proper coding protocol. If you require a specific coding, it **MUST** be in accordance with Cospas-Sarsat C/S G.005 guidelines.

Note about T/N coding	- this protocol is limited to a maximum of 4 ELTs onboard the same aircraft. - T/N coding is not recommended with Integra ELTs due to limited accuracy of the transmitted position.
-----------------------	--

## Date, Signature:

Date and signature of the aircraft operator (initials as signature if electronic format).

**This form must be returned to your programmer duly completed with required data necessary to program your ELT or Dongle**

**This procedure does not exempt you (the operator) from registering the ELT with the local COSPAS-SARSAT authority (SPOC).**

**As programming is not a maintenance task and does not necessarily involve a PART or FAR145 maintenance station, a release document such as EASA Form 1 or FAA Form 8130 is not required after ELT or DONGLE programming.**

**The following instructions are for the distributor / dealer / airline that will program the ELT:**

## ELT or Dongle information

If the equipment to program is a dongle, provide the CSN and S/N of the dongle.

- **CSN / S/N:** This information is available on the equipment name plate.

## Coding information

This information is added when programming the ELT or Dongle.

- **Protocol:** must be in accordance with country regulations.
- **Identification number / ELT Number / Country code:** as described in the Kannad ELT commissioning training guide. This data will also be found in the coding sheet.
- **Identification (15 HEX ID):** computed by the KANNAD e-Prog software. It is a "key information" within the COSPAS-SARSAT system. This number will be used by the operator to register its ELT with local authorities.
- **Checksum:** if given by the programming software, may be required by some administrations.

## Programmer details

- **Name of the organization** that has performed the ELT or DONGLE programming.
- **Signature:** date and signature of the programmer (initials as signature if electronic format).

For assistance, please contact Kannad Aviation Customer Support: [support.sar@orolia.com](mailto:support.sar@orolia.com)