

How to Locate Additional Information About a Beacon from the Type Approval Certificate (TAC) Number

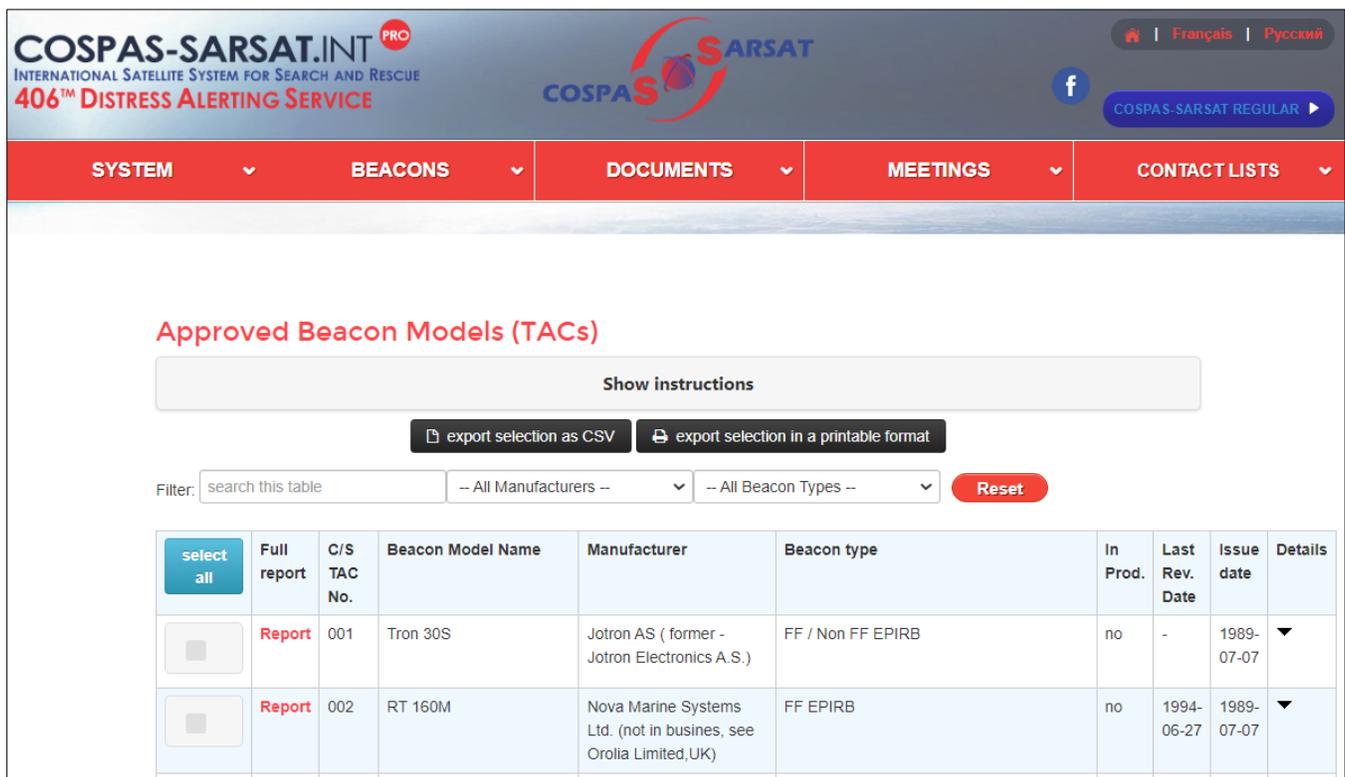
Locate the TAC number on the USMCC message. It appears next to MANUFACTURER in the section entitled BEACON ID CONTAINS THE FOLLOWING ENCODED INFORMATION, as shown in this example from a SIT 171 message:

```
**** BEACON ID CONTAINS THE FOLLOWING ENCODED INFORMATION ****
COUNTRY      : SINGAPORE          BEACON TYPE: ELT SERIAL (STANDARD)
COUNTRY CODE : 563                CRAFT ID   :                SPECIFIC BEACON:
MANUFACTURER : TAC 112           MODEL      :
SERIAL NUM   : 4916              HOMING     : 121.5
POSITION DEVICE: EXTERNAL        POSITION RESOLUTION: NONE
```

To see the complete SIT 171 message, scroll to the end of this document.

Go directly to the link for TACs on the C/S website at:

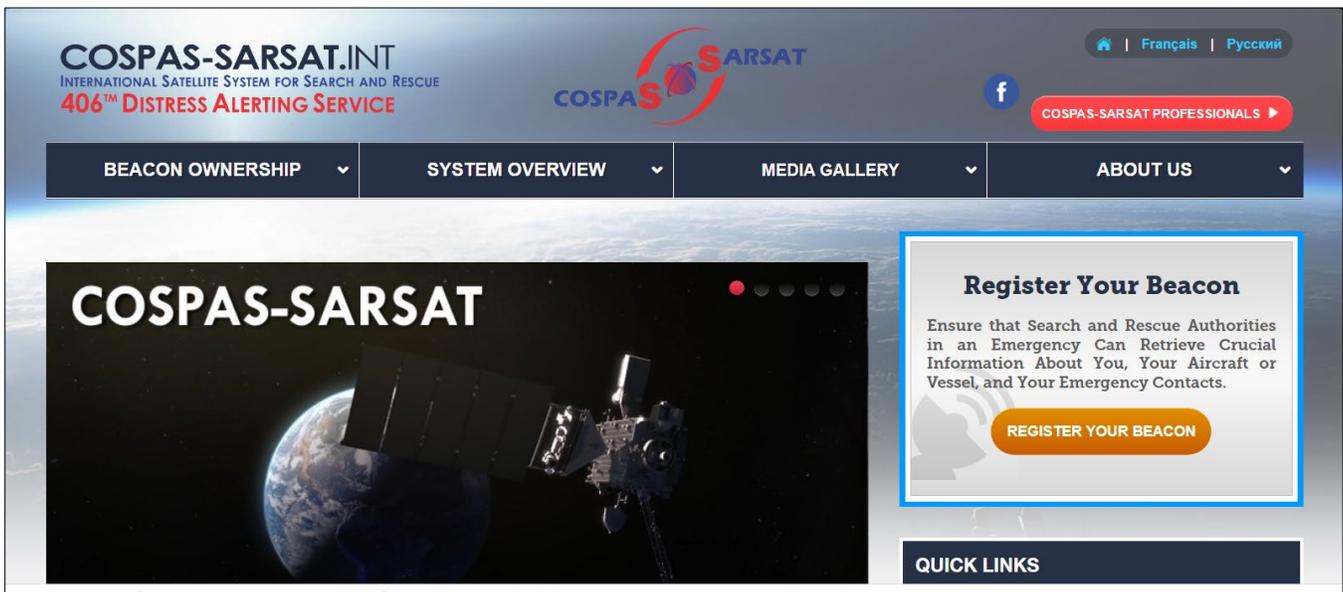
<https://cospas-sarsat.int/en/beacons-pro/experts-beacon-information/approved-beacon-models-tacs>



The screenshot shows the COSPAS-SARSAT website interface. At the top, there is a navigation bar with the COSPAS-SARSAT logo and the text 'INTERNATIONAL SATELLITE SYSTEM FOR SEARCH AND RESCUE 406™ DISTRESS ALERTING SERVICE'. Below the navigation bar, there is a red menu bar with the following items: SYSTEM, BEACONS, DOCUMENTS, MEETINGS, and CONTACT LISTS. The main content area is titled 'Approved Beacon Models (TACs)'. Below the title, there is a 'Show instructions' button and two buttons for exporting the selection: 'export selection as CSV' and 'export selection in a printable format'. A filter section includes a search box labeled 'Filter: search this table', two dropdown menus for 'All Manufacturers' and 'All Beacon Types', and a 'Reset' button. Below the filter section is a table with the following columns: select all, Full report, C/S TAC No., Beacon Model Name, Manufacturer, Beacon type, In Prod., Last Rev. Date, Issue date, and Details. The table contains two rows of data:

select all	Full report	C/S TAC No.	Beacon Model Name	Manufacturer	Beacon type	In Prod.	Last Rev. Date	Issue date	Details
<input type="checkbox"/>	Report	001	Tron 30S	Jotron AS (former - Jotron Electronics A.S.)	FF / Non FF EPIRB	no	-	1989-07-07	▼
<input type="checkbox"/>	Report	002	RT 160M	Nova Marine Systems Ltd. (not in busines, see Orolia Limited,UK)	FF EPIRB	no	1994-06-27	1989-07-07	▼

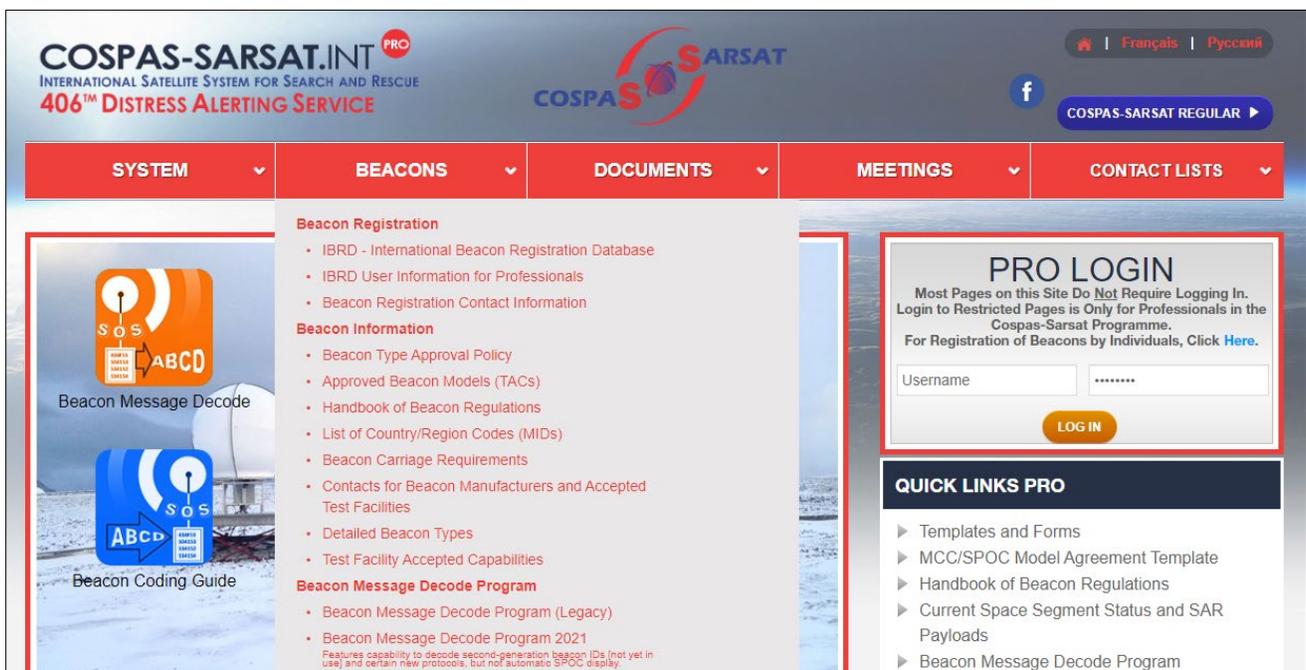
Or you can navigate to the Cospas-Sarsat Website starting at: <https://www.cospas-sarsat.int/en/>:



Click on **Cospas-Sarsat Professionals** in the upper right hand corner:



Click on the **Beacons** header, then scroll down to **Approved Beacon Models**:



COSPAS-SARSAT.INT PRO
INTERNATIONAL SATELLITE SYSTEM FOR SEARCH AND RESCUE
406™ DISTRESS ALERTING SERVICE

COSPAS-SARSAT

Home | Français | Русский

f COSPAS-SARSAT REGULAR ▶

SYSTEM ▼ BEACONS ▼ DOCUMENTS ▼ MEETINGS ▼ CONTACT LISTS ▼

Approved Beacon Models (TACs)

Show instructions

export selection as CSV export selection in a printable format

Filter: search this table -- All Manufacturers -- -- All Beacon Types -- Reset

select all	Full report	C/S TAC No.	Beacon Model Name	Manufacturer	Beacon type	In Prod.	Last Rev. Date	Issue date	Details
<input type="checkbox"/>	Report	001	Tron 30S	Jotron AS (former - Jotron Electronics A.S.)	FF / Non FF EPIRB	no	-	1989-07-07	▼
<input type="checkbox"/>	Report	002	RT 160M	Nova Marine Systems Ltd. (not in busines, see Orolia Limited,UK)	FF EPIRB	no	1994-06-27	1989-07-07	▼

The **Approved Beacon Models** table default is in order by TAC Number (third column from the left). Click on the “Show instructions” bar at the top of the page for more information about navigating the table. Generally, once on the **Approved Beacon Models** page, you can search the table by entering keywords in the Filter field, or searching (if known) for a specific manufacturer or beacon type using the pull-down menus next to the Filter field. The entire table or portions of it can be exported using the tabs underneath “Show instructions” at the top of the page.

Selecting “All Manufacturers” results in this pulldown list:

Approved Beacon Models (TACs)

Show instructions

export selection as CSV export selection in a printable format

Filter: search this table -- All Manufacturers -- -- All Beacon Types -- Reset

select all	Full report	C/S TAC No.	Beacon
<input type="checkbox"/>	Report	001	Tron 30S
<input type="checkbox"/>	Report	002	RT 160M
<input type="checkbox"/>	Report	002	RT 160M
<input type="checkbox"/>	Report	003	BSU 85

- All Manufacturers --
- ACK Technologies, Inc.
- ACR Electronics Inc.
- ADI Limited (not in business)
- AMS Limited (not in business)
- Air Precision
- Ameri-King Corporation
- Artex Aircraft Supplies, Inc (not in business, see ACR Electronics)
- Astronics DME LLC (see Astronics Luminescent Systems Inc)
- Astronics Luminescent Systems Inc
- Aviation and Marine (not in business)
- BAE Systems Australia Ltd.(not in business)
- Becker Avionics GmbH
- Becker Electronics Taiwan Ltd.
- Bitova Electronic Co. (not in business)
- Branch of Joint Stock Company «United Rocket and Space Corporation» - «Institute of Space Device Engineering»
- Breitling SA
- BriarTek Inc.
- CETC Ningbo Maritime Electronics Research Institute Co., Ltd.
- Caledonian Airborne Systems Ltd.

Selecting "All Beacon Types" results in the pictured pulldown list:

Approved Beacon Models (TACs)

Show instructions

export selection as CSV export selection in a printable format

Filter: -- All Manufacturers -- -- All Beacon Types -- **Reset**

<input type="checkbox"/>	Full report	C/S TAC No.	Beacon Model Name	Manufacturer	In Proc
<input type="checkbox"/>	Report	001	Tron 30S	Jotron AS (formerly Jotron Electron	no
<input type="checkbox"/>	Report	002	RT 160M	Nova Marine Systems Ltd. (not in business) Orolia Limited, U	no
<input type="checkbox"/>	Report	002	RT 160M	Nova Marine Systems Ltd. (not in business) Orolia Limited, U	no
<input type="checkbox"/>	Report	003	BSU 85	ELTA SA (not in business) - see See ECA	no

- All Beacon Types --
- ELT
- ELT (Auto Portable)
- ELT (Auto)
- ELT (Auto) / PLB
- ELT (Automatic Deployable)
- ELT (Automatic Fixed)
- ELT (Man)
- ELT (Man) - Survival
- ELT (S)
- ELT(Auto)/ELT(Portable)
- ELT(Auto)/ELT(Portable)/ELT(Survival)/PLB
- ELT(Automatic Fixed) and ELT (Automatic Portable)
- ELT(DT) - Designed to Withstand a Crash
- ELT(Man)/PLB
- ELT(S) - manual
- ELT(S) / PLB
- EPIRB FF (S-VDR)
- EPIRB FF (VDR)
- FF / Non FF EPIRB

Selecting "Report" opens a PDF of the official TAC Report, as shown in the next two examples
TAC 112:

 TAC Report Nr. 112-1						
TAC Number	112	TAC Date	20-JUL-1999	TAC Rev. date	01-SEP-2003	
Beacon Model Name	C406-1					
Additional Names	C406-1HM					
Manufacturer	Artex Aircraft Supplies, Inc (see ACR Electronics)					
Tx Frequencies	406.025 MHz					
In Production	not in production	Class	2			
Type	ELT (Auto)	Tested Life (hours)	24			
Battery	Blue Star (LM-3455/LM-3355, 4D), Ultralife (U3360H, 4D)					
	Battery Legend: Battery cell manufacturer, Cell chemistry, Cell model, No. of cells, Cell size.					
Protocols tested	U - User, SL - Standard Location, NL - National Location.					
Self Test	yes	Self Test RF	yes	Self Test RF (Short/Long)	long	
Self Test Format Flag	long			Self Test Consistent with 15 Hex ID	yes	
Homer Freq	121.5/243 MHz			Homer Duty Cycle	Continuous	
Homer Power	100mW					
Strobe Light	no	Strobe Brightness	N/A		Strobe Duty Cycle	N/A
Nav Device	Ext	Nav Device Model	Unknown			
Separable Antenna	yes	Antenna Model	Artex 110-335 rod, Artex 110-338 rod, Artex 110-340 blade, Artex 110-341 blade, Artex 110-343 whip			
Additional functions	None					
General comments	Single (121/243/406) RF output. Homer 1 s pause at 406 burst. Osc. EWOS 0500-1 repl. by EWOS 0500-1/B, bcn S/N 01933 and higher (CNF 5 Feb 02, accept. 18 Feb 02). Osc. EWOS 0500-1/B repl. by EWOS 0500-1/B-1 (19 Aug 03); approved with upgraded software version 510-0134 - Rev. 'A' (14 June 07) NOTE FOR CUSTOMERS: For technical support, battery replacement and customer support matters please contact ACR Electronics, Inc - USA					
TAC rev history	(1) 20/07/99; (2) 27/06/00; (3) 20/08/01; (4) 9/09/01; (5) 10/12/01: add. of G406-4; (6) 31/12/01: add. of Ultralife U3360H; (7) 17/01/02: chg nomenclature of Blue Star cells - LM-3455 to LM-3355; (8) 18/02/02: osc. repl.; (9) 19/08/03: osc. repl., trmsm mod.;(10) 1/09/03: chg nomenclat. of ant; (11) 22-Jan-07: extension TAC 170 issued; (12) 14-Jun-07: software upgrade to version 510-0134 - Rev. 'A'.					



TAC Report Nr. 361-1.0

TAC Number	361	TAC Date	12-AUG-2022	TAC Rev. date	01-JAN-2023
Beacon Model Name	KANNAD ULTIMA-DT-05				
Additional Names	---				
Manufacturer	Orolia S.A.S.				
Tx Frequencies	406.031 MHz				
In Production	in production	Class	1		
Type	ELT(DT) - Designed to Withstand a Crash	Tested Life (hours)	24		
Battery	SAFT LM 17500, Lithium Manganese Dioxide, 8 x A size cells, 2 parallel of 4 in series				
	Battery Legend: Battery cell manufacturer, Cell chemistry, Cell model, No. of cells, Cell size.				
Protocols tested	DT - ELT(DT) Location				
Self Test	yes	Self Test RF	yes	Self Test RF (Short/Long)	long
Self Test Format Flag	Corresponds to nominal flag	Self Test Consistent with 15 Hex ID	yes		
Homer Freq	121.5 MHz	Homer Duty Cycle	37%		
Homer Power	80 mW				
Strobe Light	no	Strobe Brightness	n/a	Strobe Duty Cycle	n/a
Nav Device	Internal / External	Nav Device Model	UBLOX NEO-M8N		
Encoded Position Data Update Interval	Other – Continuous until 30 minutes after crash detection, then 15 minutes				
Separable Antenna	no	Antenna Model	DAYTON GRANGER ELT10-903		
Additional functions	Beacon activation: manual via switch on remote control panel or on the beacon, and automatic via external trigger received through ARINC bus (label 202), loss of aircraft power, loss of ARINC-bus data-stream labels, or internal crash sensor; Programming via Aircraft Information Module (AIM) required for operation; Automated status check (Equipment Built In Test, EBIT) executed on application of 28 volt aircraft power.				
General comments	Approved for encoding with variants of ELT(DT) Location Protocol for ELT: ELT with Serial Number, ELT with Aircraft Operator Designator and Serial Number, ELT with Aircraft 24-bit Address, ELT with Serial Number and rotating 3LD in PDF-2, ELT with Aircraft 24-bit Address and rotating 3LD in PDF-2. NOTE for CUSTOMERS: For technical support, battery replacement and other matters related to customer support - please contact Orolia S.A.S. (France).				
TAC rev history	1) 1 JAN 2023: Approved for use with operational ELT(DT) protocols commencing on 1 January 2023.				

