



# PED Form – Technical Analysis Summary

Form. : SSC-005  
Correlative : 131  
REV. : 00  
Date : 29/JUN/2023  
Sheet N° : 1 of 2

## “ivTrackEvo” - TECHNICAL ANALYSIS SUMMARY

### I. GENERAL INFORMATION

<b>TITLE</b>	PED's TECHNICAL ANALYSIS - “ivTrackEvo”
<b>ORIGINATOR</b>	TECHNICAL ANALYSIS PERFORMED BY CABIN ENGINEERING DEPARTMENT (SCL)

### II. DEVICE INFORMATION

<b>FLEET APLICABILITY</b>	ALL HOLDING FLEET								
<b>DEVICE DESCRIPTION</b>	Tracking Device								
<b>MANUFACTURER</b>	InVirtus Technologies								
<b>COUNTRY OF ORIGIN</b>	France								
<b>MODEL</b>	ivTrackEvo								
<b>TYPE OF PED</b>	DATA LOGGER	X	M-PED		T-PED	X	RFID		OTHER

### III. TECHNICAL INFORMATION

<b>DIMENSIONS [mm] / [g]</b>	<b>Length</b>	95 mm	<b>Width</b>	52 mm	<b>Height</b>	33 mm	<b>Weight</b>	130 g
<b>POWER SOURCE</b>	<b>Model</b>	ER18505M	<b>Type</b>	Lithium methal (LiSOCl <sub>2</sub> )	<b>Nominal Voltage [V]</b>	3.66 V	<b>Electrical Charge [mAh]</b>	3500 mAh
<b>TRANSMITTING CAPABILITY</b>	YES	<b>TRANSMITTING PROTOCOLS</b>		EGPRS, Nb-IoT (LTE-Cat NB2), LTE-Cat M1				
<b>SUBSTANTIATION DOCUMENTATION</b>	ivTrackEvo Datasheet / RTCA DO-160G Test Report No. RAM-EMIESS22L260INV-01Av0 / Battery Specifications / UN38.3 Test Report No. WHFAT20210904U16 / Declaration of Robust Design and Production Controls Version 1.0 / ivTrack EVO Airworthiness Test Report No. TR_20230404							

### IV. OPERATIONAL DESCRIPTION

<b>OPERATION DESCRIPTION</b>	<p>The ivTrack EVO is a versatile tracker device designed to operate all over the world. It embeds a multi-network modem to ensure reliable connection even in places when most devices lose signal.</p> <p>Geolocation is performed by a new generation dual-band GNSS module, which allows reception of more signals from satellites as well as greater multipath rejection. This results in strong and constant performances, even in blocked areas like urban canyons. Embedded GNSS Antenna achieves very good performance in any direction. Location is therefore ensured even when the device is upside down.</p> <p>The ivTrack EVO embeds accelerometer, temperature and magnetic sensors, bringing all the features that you can expect from a new generation tracker, as well as two additional unique features detailed in this document.</p>
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### V. OPERATIONAL RESTRICTIONS

<b>OPERATIONAL RESTRICTIONS</b>	The device has been tested in accordance with RTCA DO-160G, Environmental Conditions and Test Procedures for Airborne Equipment, Section 21, and compared to values in Category H. Testing results indicate that the device does not emit RF radiated emissions above reference values. The operation of the device will not interfere with aircraft systems.
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## VI REGULATORY FRAME

### DEVICE

<b>AERONAUTICAL AUTHORITY / INSTITUTION</b>	<b>DGAC CHILE</b>		
<b>NORM</b>	DAN 121.143		
<b>REQUIREMENT TO FULFILL</b>	Aircraft systems immunity must be proved under test/institution, that DGAC founds acceptable and recognized.		
<b>SUBSTANTIATION DOCUMENTATION</b>	<b>PRESENTED</b>	<b>DOCUMENTS NAME</b>	RTCA DO-160G Test Report No. RAM-EMIESS22L260INV-01Av0
	YES	<b>DOCUMENTS DESCRIPTION</b>	RTCA DO-160G Environmental Conditions and Test Procedures for Airborne Equipment, Section 21 "Radiated RF Emissions – Category H, 100 MHz – 6 GHz".
<b>DEVICE'S POWER SOURCE</b>			
<b>AERONAUTICAL AUTHORITY / INSTITUTION</b>	<b>IATA</b>		
<b>POWER SOURCE NORM / RECOMENDATION</b>	IATA D.G.R. 3.9.2.6		
<b>REQUIREMENT TO FULFILL</b>	As a Lithium Metal Cell contained in equipment, with a lithium content (cells) less than 1g, it must be tested and pass in accordance with the UN Manual of Tests and Criteria Part III Subsection 38.3 (DGR 3.9.2.6), also it is classified as UN3091 and Package Instruction 970 Section II.		
<b>SUBSTANTIATION DOCUMENTATION</b>	<b>PRESENTED</b>	<b>DOCUMENT NAME</b>	UN38.3 Test Report No. WHFAT20210904U16
	YES	<b>DOCUMENT DESCRIPTION</b>	UN38.3 Test results: Altitude simulation, thermal test, vibration, shock, external short circuit, crush, forced discharge.

## VII. DEVICE APPROVAL

<b>DEVICE APPROVAL</b>	"ivTrackEvo" device is considered to be safe and approved for use, as long as, all operational restrictions are fully respected.
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## VIII. FORM APPROVAL

<b>Prepared by</b>	<b>Revised by</b>	<b>Approved by</b>
Melody C. Carrera <i>Cabin Engineer</i>	Pedro A. Figueroa P. <i>Cabin Engineering Chief</i>	P.P.  Cristian A. Ramírez C. <i>Cabin Engineering Department Manager</i>
<b>DATE: 29-JUN-2023</b>	<b>DATE: 29-JUN-2023</b>	<b>DATE: 29-JUN-2023</b>