

Issue 25 – July 2024



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1. Introduction

Virgin Australia recognises the requirement for Cargo Consignments to be monitored during all phases of shipment, including temperature monitoring, geolocation tracking, etc.

Cargo Electronic Devices (CEDs), sub-categorised as either Cargo Tracking Devices (CTDs) or Cargo Dataloggers (CDLs) are used by airlines and passengers to track baggage or cargo being transported.

Typically, CTDs contain a cellular radio which communicates with the existing cellular infrastructure to provide updates on the cargo location and other optional data such as temperature, humidity, shock, vibration, etc. On the other hand, CDLs typically records the data mentioned above. The data is saved to the internal memory. The interface to the data would be via USB, or Bluetooth in later versions. CDLs that are Wireless Technology enabled, will be addressed in the same manner as the CTDs as they contain a radio as well.

CEDs are not installed on the aircraft. These devices are placed with cargo or baggage, which effectively categorise them as Portable Electronic Devices (PED) or Transmitting Portable Electronic Devices (TPED) in the case where it communicates via radio. Guidance as to the suitability of CEDs on-board aircraft to ensure no interference with aircraft systems is provided in FAA Advisory Circular AC 91.21-1D (Latest Revision).

2. Scope

The Cargo Electronic Devices Approval List (CEDAL) has been prepared through collaboration of Virgin Australia Engineering and approved third party Subject Matter Experts (SMEs) to provide guidance and approval for Cargo Electronic Devices to be utilised by Cargo Companies on-board Virgin Australia aircraft.

The CEDAL lists those devices currently approved for uplift on Virgin Australia aircraft along with;

- Virgin Australia Regional Airlines (VARA) Airbus A320 and;
- Alliance (QQ) Fokker 70/100 & Embraer E190.

3. Guidance

It is important to review the Cargo Electronic Devices Approval List (CEDAL) before providing authority for Cargo Electronic Devices (CEDs) to be attached to Cargo carried on-board Virgin Australia aircraft.



4. Queries and Approval

This CEDAL is to be used for reference only – if the CED is not listed on the below list, a formal Request for Approval is required before use of unlisted device.

When reviewing approved devices, it is imperative that the aircraft type (i.e. B737-8, E190) booked for carriage is considered to ensure appropriate approvals are in place. Approvals do vary from aircraft type to aircraft type.

Initial contact for Queries and Approvals for Virgin Australia Boeing 737 and VARA Airbus A320, contact:

Cargo Control Centre: cargocontrolcentre@virginaustralia.com

Please submit an e-mail request for CED with <u>ALL</u> of the following information and substantiation data. Any gaps in required information will delay assessment and response.

This request form will facilitate assessment for suitability on **Virgin Australia and Virgin Australia Regional Airlines (VARA)** aircraft types only. For approvals on Alliance aircraft please make contact directly with Alliance.

Information required for assessment:

i. Design Information

- 1. Pictures of Device and associated Peripherals
- 2. Product Label
- 3. Operational Description of Device and Peripherals
- 4. Manufacturer Statement of Strict Design and Production Controls
- 5. Battery design standard and relevant qualification documentation for devices using a lithium battery

ii. Emissions Limits and Peripheral Devices

Device is to meet RF radiated emissions limits as described in RTCA DO-160G (or later revision), Section 21, **Category H*** (Environmental Conditions and Test Procedures for Airborne Equipment) * **Category H at minimum**

iii. Means to Shut Off PED

If no report is available for Item (ii) above, then the device must be designed with a minimum of two independent means to:

- 1) Turn off completely; or
- 2) Turn off cellular or mobile functions; or
- 3) A combination of both when airborne.

NOTE 1: The independent means must identify different sources, i.e. two similar, yet separate, sources of the same type are not considered independent.

NOTE 2: The device may use low-powered wireless communications during flight without the requirement to comply with NOTE 1 above, i.e. Bluetooth (IEEE 802.15.1) and ZigBee (IEEE 802.15.4). The low-power limit is 100mW EIRP (Effective Isotropic Radiated Power). WLAN (IEEE 802.11) may exceed 100mW and these devices should be reviewed.

iv. Signals

The device must not emit any audible or visually disturbing signals during transport.

v. PED Batteries

Battery Design Standard and Relevant Battery Qualification Documentation if the device contains a Lithium battery. **Including battery type (cell or battery). Lithium content and watt hours or voltage.** Examples of design standards and documentation are:

TSO-C142a, Non-Rechargeable Lithium Cells and Batteries, dated August 7, 2006 IEEE Std 1625 / 1725, IEEE Standard for Rechargeable Batteries for Portable Computing ST/SG/AC.10/11, Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, Section 38.3



5. Important Information

It should be noted that Virgin Australia aircraft are typically PED/TPED approved to industry standards listed below:

- RTCA/DO-160G, Environmental Conditions and Test Procedures for Airborne Equipment
- RTCA/DO-294C, Guidance on Allowing Transmitting Portable Electronic Devices (T-PEDs) on Aircraft
- RTCA/DO-307, Aircraft Design and Certification of Portable Electronic Devices (PEDs) Tolerance

Further substantiation data can be found in the latest revision of the following reports (available on request): - B737: Boeing Drawing 222A4006

It should be noted that Virgin Australia Regional Airlines (VARA) aircraft are typically PED/TPED approved to industry standards listed below:

- RTCA/DO-160G, Environmental Conditions and Test Procedures for Airborne Equipment
- RTCA/DO-294C, Guidance on Allowing Transmitting Portable Electronic Devices (T-PEDs) on Aircraft
- RTCA/DO-307, Aircraft Design and Certification of Portable Electronic Devices (PEDs) Tolerance

Further substantiation data can be found in the latest revision of the following reports (available on request): - B737: Boeing Drawing 222A4006

For Alliance aircraft types covered under this CEDAL (Fokker 70/100 and Embraer 190) assessment and criteria is managed internally by Alliance Airlines and reviewed regularly for accuracy.

Approval processes will be prioritised by Virgin Australia Cargo at their discretion in conjunction with GSAero and VA Engineering. Prioritisation review time frames are as listed below, however are subject to change, the availability of GSAero and Virgin Australia Engineering and other operational demands. The level of prioritisation will be allocated via Virgin Australia Cargo in concert with technical experts.

- 1. Urgent: 15 Business Days*
- 2. High: 30 Business Days*
- 3. General: 90 Business Days*

* from receipt of a complete application including all data and certifications.

6. Limitations

The following limitations exist pertaining to the use of CEDs:

- CED placement is limited to the Cargo Bay or Compartment
- CED is not permanently installed to the aircraft
- CED uses its own internal power source (cell or battery)
- CED is not connected to the Aircraft
- Packages are to be labelled in accordance with IATA DGR accounting for Lithium battery types as per IATA 2021 Guidance Document Battery Powered Cargo Tracking Devices / Data Loggers: Revised for the 2021 Regulations Revision 1.



7. Instructions for Shippers using Approved Data Loggers

To ship cargo containing approved data loggers or similar cargo electronic devices, the shipper/consignor must ensure the following steps are completed and required information provided on the accompanying AWB.

- Ensure that the device is approved by Virgin Australia Cargo (see section 8.) see the list of approved Data Loggers over page.
- Inform the cargo booking that you are going to transport the device through comments on AWB.
- The device must be well packed by the shipper.
- Include the following information in the Handling Information field in the Air Waybill:
 - Type of device. E.g. Tracker
 - Model. E.g. Fairdinkum Tracker
 - Type of battery or cells. E.g. Lithium Ion Cell
- 8. Approval List Approved for Use on VA Fleet and Partner Aircraft (over page)



							Virgin Australia (VA) 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required [∞]	DG Approval*	Approved	Approved	Approved	Approved
Apple Inc.	AirTag	AirTag (Series 1)	N/A	ER-1015-001 Issue 8	No≎	Yes ¹	YES	YES	NO	NO
Berlinger	Q-tag®	CLm doc	1262508	VAER-4420-001	No≎	Yes ¹	YES	NO	YES	YES
Berlinger	Q-tag®	CLm doc D	1262508	VAER-4420-001	No≎	Yes ¹	YES	NO	YES	YES
Berlinger	Q-tag®	CLm doc L	1262508	VAER-4420-001	No≎	Yes ¹	YES	NO	YES	YES
Berlinger	Q-tag®	CLm doc LR	1262508	VAER-4420-001	No≎	Yes ¹	YES	NO	YES	YES
Controlant	Saga	Saga	N/A	ER-10105-001 Issue 4	No≎	Yes ¹	YES	YES	YES	YES
Controlant	Saga	Saga-P	N/A	ER-10105-001 Issue 4	No≎	Yes ¹	YES	YES	YES	YES
Controlant	Saga	Saga-H	N/A	ER-10105-001 Issue 4	No¢	Yes ¹	YES	YES	YES	YES
Emerson	GO	Real-Time	1262509	VAER-4420-004	No∻	Yes ¹	YES	NO	NO	NO
Emerson	GO	Real-Time XL	1262509	VAER-4420-004	No¢	Yes ¹	YES	NO	NO	NO



							Virgin Australia (VA) 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required [∘]	DG Approval*	Approved	Approved	Approved	Approved
Emerson	GO	Real-Time LUX	1262509	VAER-4420-004	No≎	Yes ¹	YES	NO	NO	NO
Emerson	GO	Wireless	1262509	VAER-4420-005 ²	No≎	Yes ¹	YES	NO	YES	YES
Escavox	Blue Box	gSense30g-02	1294423	VAER-4420-012	Yes*	Yes ¹	YES	NO	NO	NO
Frigga	Frigga	T7	N/A	ER-10105-001 Issue 7	No≎	Yes ¹	YES	YES	NO	NO
Frigga	Frigga	V5	N/A	ER-10105-001 Issue 7	No¢	Yes ¹	YES	YES	NO	NO



							<u>Virgin Australia (VA)</u> 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required [∞]	DG Approval*	Approved	Approved	Approved	Approved
7PSolutions	GL521MG	Tracker	N/A	ER-1015-001 Issue 9	No∻ (if 2 or less trackers per consignment)	Yes ¹	YES	YES	NO	NO



							<u>Virgin Australia (VA)</u> 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required [∘]	DG Approval*	Approved	Approved	Approved	Approved
Kirsen Technologies	A-Type Device Also known as "DB Schenker Smartbox" (under commercial agreements).		1262506	VAER-4420-003	Yes°	Yes ¹	YES	NO	NO	NO
Logmore	QR Tag	Model One	1302468	VAER-4420-024	No*	Yes ¹	YES	NO	YES	YES
Logmore	QR Tag	Model Two	1302468	VAER-4420-024	No*	Yes ¹	YES	NO	YES	YES



							Virgin Australia (VA) 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required°	DG Approval*	Approved	Approved	Approved	Approved
Logmore	QR Tag	Model Three	1302468	VAER-4420-024	No≎	Yes ¹	YES	NO	YES	YES
OnAsset	Sentry	400	531615	GS Aero ER- 10105-001	No¢	Yes ¹	YES	NO	YES	YES
OnAsset	Sentry	500	531615	GS Aero ER- 10105-001	No¢	Yes ¹	YES	NO	YES	YES
OnAsset	Sentry	600	1382863	VAER-4420-029	No≎	Yes ¹	YES	NO	YES	YES
RoamBee	BeeSense	Flex	1382865	VAER-4420-030	Yes°	Yes ¹	YES	NO	NO	NO



							<u>Virgin Australia (VA)</u> 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required [∞]	DG Approval*	Approved	Approved	Approved	Approved
RoamBee	BeeSense	RMBU_3GTR Also known as Bee Sense, Bee, 3G Bee and Sensor Bee.	1252507	VAER-4420-002	Yes≎	Yes ¹	YES	NO	NO	NO
RoamBee	BeeBeacon Sense	BB-TPH-1	1290448	VAER-4420-006	Yes*	Yes ¹	YES	NO	NO	NO
RoamBee	BeeBeacon Aware	BB-SEC-1	1291155	VAER-4420-007	Yes≎	Yes ¹	YES	NO	NO	NO
Sensitech	Tag Alert	Tag Alert	N/A	ER-1015-001 Issue 9	No¢	Yes1	YES	YES	NO	NO



							<u>Virgin Australia (VA)</u> 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required°	DG Approval*	Approved	Approved	Approved	Approved
Sensitech	Tag Alert	Tag Alert Enhanced	N/A	ER-1015-001 Issue 9	No¢	Yes1	YES	YES	NO	NO
Sensitech	TempTale	Geo Ultra	1302433	VAER-4420-023	No [‡] (Alkaline)	Yes ¹	YES	NO	NO	NO
Sensitech	TempTale	Geo Ultra with Probe	1306485	VAER-4420-025	No [☆] (Alkaline)	Yes ¹	YES	NO	NO	NO
Sensitech	TempTale 4	TempTale 4	1299199	VAER-4420-021	No [∞] (if 2 or less trackers per consignment)	Yes ¹	YES	NO	NO	NO



							Virgin Australia (VA) 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required [∞]	DG Approval*	Approved	Approved	Approved	Approved
Sensitech	TempTale 4	Bio	1299199	VAER-4420-021	No [∽] (if 2 or less trackers per consignment)	Yes ¹	YES	NO	NO	NO
Sensitech	TempTale 4	Humidity	1299201	VAER-4420-022	No [∽] (if 2 or less trackers per consignment)	Yes ¹	YES	NO	NO	NO
Sensitech	TempTale 4 (TT4)	USB	1294267	VAER-4420-008	No° (if 2 or less trackers per consignment)	Yes ¹	YES	NO	YES	YES



							Virgin Australia (VA) 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required°	DG Approval*	Approved	Approved	Approved	Approved
Sensitech	TempTale 4 (TT4)	USB Dry Ice	1294267	VAER-4420-009	No° (if 2 or less trackers per consignment)	Yes ¹	YES	NO	YES	YES
Sensitech	TempTale 4 (TT4)	Multi-Alarm	1294267	VAER-4420-010	No° (if 2 or less trackers per consignment)	Yes ¹	YES	NO	YES	YES
Sensitech	TempTale 4 (TT4)	USB Multi-Alarm	1294267	VAER-4420-010	No [☆] (if 2 or less trackers per consignment)	Yes ¹	YES	NO	YES	YES



							Virgin Australia (VA) 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required [∞]	DG Approval*	Approved	Approved	Approved	Approved
Sensitech	TempTale 4 (TT4)	Probeless Dry Ice	1294267	VAER-4420-011	No [∞] (if 2 or less trackers per consignment)	Yes ¹	YES	NO	YES	YES
Sensitech	TempTale Ultra	64K	1295078	VAER-4420-013	No¢	Yes ¹	YES	NO	YES	YES
Sensitech	TempTale Ultra	BIO	1295084	VAER-4420-015	No¢	Yes ¹	YES	NO	YES	YES
Sensitech	TempTale Ultra	Dry Ice Probe	1295086	VAER-4420-016	No° (if 2 or less trackers per consignment)	Yes ¹	YES	NO	YES	YES



							Virgin Australia (VA) 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required [∞]	DG Approval*	Approved	Approved	Approved	Approved
Sensitech	TempTale Ultra	Fit	1295091	VAER-4420-017	No [∞] (if 2 or less trackers per consignment)	Yes ¹	YES	NO	YES	YES
Sensitech	TempTale Ultra	Humidity	1295092	VAER-4420-018	No¢	Yes ¹	YES	NO	YES	YES
Sensitech	TempTale Ultra	Probe	1295093	VAER-4420-019	No° (if 2 or less trackers per consignment)	Yes ¹	YES	NO	YES	YES



							<u>Virgin Australia (VA)</u> 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required°	DG Approval*	Approved	Approved	Approved	Approved
Sensitech	TempTale Ultra	Probeless Dry Ice	1295094	VAER-4420-020	No¢	Yes ¹	YES	NO	YES	YES
Sensitech	Vizcomm®	View Ultra	1302433	VAER-4420-023	No [‡] (Alkaline)	Yes ¹	YES	NO	NO	NO
Sensitech	Vizcomm®	View Ultra with Probe	1306485	VAER-4420-025	No [‡] (Alkaline)	Yes ¹	YES	NO	NO	NO
Sony	VT-G100	-	1349083	VAER-4420-028	Yes*	Yes ¹	YES	NO	NO	NO
Tec4med	Tec4med	TempBeacon	1400906	VAER-4420-031	No≎	Yes ¹	YES	NO	YES	YES
Tec4med	Tec4med	SmartBeacon	1400906	VAER-4420-031	No≎	Yes ¹	YES	NO	YES	YES
Tec4med	Tec4med	CryoBeacon	1400906	VAER-4420-031	No¢	Yes ¹	YES	NO	YES	YES



							<u>Virgin Australia (VA)</u> 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required°	DG Approval*	Approved	Approved	Approved	Approved
Tec4med	Tec4med	SmartHub - Alkaline	1405287	VAER-4420-032	No* (Alkaline)	Yes ¹	YES	NO	YES	YES
Tec4med	Tec4med	SmartHub - Li-Po	1405287	VAER-4420-032	No≎	Yes ¹	YES	NO	YES	YES
Tec4med	Tec4med	SmartLock	1405287	VAER-4420-032	No≎	Yes ¹	YES	NO	YES	YES
Tempmate	Tempmate	S1V2	N/A	ER-1015-001 Issue 8	No≎	Yes	YES	YES	NO	NO
TinyTag	View 2	TV-4204	-	ER-10105-001 / 6	No∻	Yes ¹	YES	YES	NO	NO
Tive	Temperature Beacon	TT-6000	1310319	VAER-4420-027	No¢	Yes ¹	YES	NO	YES	YES
Tive	tiveSolo5G	TT-7000	1308383	VAER-4420-026	No¢	Yes ¹	YES	NO	NO	NO



							<u>Virgin Australia (VA)</u> 737 Boeing 737-700/800 (NG) Boeing 737-8 (MAX)	<u>Virgin Australia</u> <u>Regional Airlines</u> <u>(VARA)</u> Airbus 320	Alliance Airlines (QQ) Fokker 70/100	Alliance Airlines (QQ) Embraer 190
Manufacturer	Make	Model	ESR Reference	Report Reference^^	Lithium Battery Marking Required°	DG Approval*	Approved	Approved	Approved	Approved
Tive	tiveSolo5G	TT-7100	1308383	VAER-4420-026	No°	Yes ¹	YES	NO	NO	NO
Tzone	TempU08	Temp Logger	-	ER-10105-001 / 5	No≎	Yes ¹	YES	YES	YES	YES
Zimgeneers	ZiSO PetTrakR	G013A	1423585	VAER-4420-033		Yes ¹	YES	NO	NO	NO



* DG (Dangerous Goods) Approval for Battery Carriage / Use

¹ Approved per current VAGP A6 DG Manual

²It is advised that the Bluetooth capability of this device is deactivated prior to flight in accordance with the user manual.

^MReport reference for those items assessed by VA IFE for VA Aircraft types

• Packages containing lithium batteries installed in equipment such as a data logger must bear the lithium battery mark as shown in Figure 7.1.C of the IATA DGR, see Figure 3. The border of the label must have red diagonal hatchings 5 mm in width with text and symbols in black on a white or contrasting background. The lithium battery mark may be printed directly on the outer packaging provided that there is sufficient contrast between the elements of the lithium battery mark and the colour of the packaging material. The mark must be in the form of a rectangle or a square with minimum dimensions are 100 mm x 100mm. Exceptions:

1. the lithium battery mark is not required on packages where the data loggers are powered by only button (coin) cells (regardless of the quantity of data loggers in a particular package or the number of packages in a consignment);

2. the lithium battery mark is not required on packages where there are no more than 4 cells or 2 batteries contained in equipment in each package and there are no more than two packages in the consignment;



9. Approval List – NOT Approved for Use

Manufacturer	Make	Model	ESR Reference		
Sendum		PT300	1267757		
Sendum		PT300D	1267757		

*** END ***