

# Summary of Sepura plc IOP Certification (July 2013)

**Trunked Mode** This table shows where Sepura radios have been certified with TETRA infrastructures

TIP REFERENCE	CAPABILITY	INFRASTRUCTURE											
		Sepura Systems	Cassidian	Motorola	Selex	Teltronic	Hytera	Rohill	Thales	Etelm	Artevea	Damm	Harris
TTR001-01 §6	Registration	P	P	P	P	P	P	P	P	P	P	P	P
TTR001-01 §7	Individual call (with queuing)	P	P	P	P	P	P	P	P	P	P	P	P
TTR001-01 §8	MS initiated Group Management	P	P	P	P	P	P	P	P	P	P	P	P
TTR001-01 §8.7	SwMI initiated Group Management	-	P	-	-	-	P	-	-	P <sub>1</sub>	-	P	-
TTR001-01 §9	Group call (with late entry)	P	P	P	P	P	P	P	P	P	P	P	P
TTR001-01 §7.5	Emergency call - individual call	P	P	P	P	P	P	P	P	P	P <sub>1</sub>	P	P
TTR001-01 §9.6	- group call	P	P	P	P	P	P	P	P	P	P <sub>1</sub>	P	P
TTR001-01 §7.3.2	Call setup modifications (individual./group)	-	P	-	-	-	P	-	-	-	-	P	-
TTR001-01 §10	Cell re-selection - with call handover	P	P	P	P	P	P	P	P	P <sub>1</sub>	P	P	P
TTR001-01 §10	- Seamless	-	P	-	-	-	-	-	-	-	-	P	-
TTR001-01 §10.2.1	- Expedited	-	P	-	-	-	-	-	-	-	-	-	-
TTR001-01 §12	Telephone call	P	P	P	P	P	P	P	P	P	P <sub>1</sub>	P	-
TTR001-01 §13	BS Fallback operation	P	P	P	P	P	P	P	P	-	-	P	P
TTR001-01 §6.7	Subscriber Class	-	P	P	P	-	P	P	-	P	-	P	-
TTR001-01 §14.1.10	Common Secondary Control Channels	P	P	P	P	P	P	P	P	P	-	P	P
TTR001-01 §16	Transmit Inhibit	P	P	P	P	P	P	P	-	P	-	P	P
TTR001-01 §14.1.7	Mixed Band Operation	-	P	P	-	-	-	-	-	-	-	P	-
TTR001-01 §11	SDS Status	P	P	P	P	P	P	P	P	P	P	P	P
TTR001-02	SDS Type 4 (with TL)	P	P	P	P	P	P	P	P	P	P	P	P
TTR001-02	- with Store and Forward	P	P	P	-	-	-	-	-	-	-	-	-
TTR001-02 §6.3.3	- with Unicode text coding scheme	-	P	P	P	P	P	P	-	P	P <sub>1</sub>	P	-
TTR001-03	SS-DGNA	P	P	P	P	P	P	P	P	P	-	P	P
TTR001-04	Authentication (& made mutual)	P*	P	P	P	P	P	P	P	P	-	P	-
TTR001-04 §6.4	TEI Query	-	P	-	-	-	-	-	-	-	-	-	-
TTR001-05	Packet Data	P	P	P	P	P	P	P	P	-	-	P	-
TTR001-05	- Multi Slot	-	-	P	P	P	P	P	-	-	-	P	-
TTR001-07	FSSN (Fleet Specific Short Number)	-	P	-	-	-	-	-	-	-	-	-	-
TTR001-09	Ambience Listening	P	P	P	P	P	P	P	P	P	-	P	-
TTR001-09 §6.1	- interaction with Transmit Inhibit	P	P	P	P	-	-	-	-	-	-	P	-
TTR001-10	End to End Encryption	P	P	P	P	P	P	P	P	P	-	P	-
TTR001-11 §2.3.6	Air Interface Encryption - class 2	P	-	P	P	-	P	P	P	-	-	-	-
TTR001-11 §2.3.7	- class 3	-	P	P	P	P	P	P	P	-	-	P	-
TTR001-11 §6.1.4	- class 3G	-	-	P	-	-	-	-	-	-	-	-	-
TTR001-12	Service interaction	P	P	P	P	P	P	P	-	-	-	P	-
TTR001-13	Enable-Disable	P	P	P	P	P	P	P	P	-	-	P	-
TTR001-14	TETRA Key Distribution	P	P	P	-	-	-	P	-	-	-	-	-
TTR001-16	Air to Ground	-	P	-	-	-	-	-	-	-	-	-	-
TTR001-17	RUA (Aliasing)	-	P	P	-	-	-	-	-	-	-	-	-
TTR001-19	LIP	P	P	-	-	-	P	-	-	-	-	P	-
TTR001-20	Call Forwarding	P	-	-	P	-	P	-	-	-	-	P	-

## Declaration of Commonality

Sepura declares that Certification applies to all its current products, in all available frequency bands.

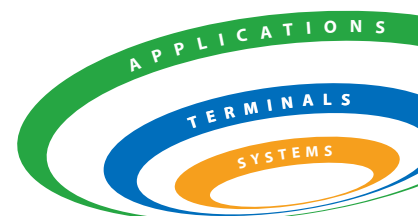
All formal IOP Certificates can be found on [www.tandcca.com](http://www.tandcca.com)

\* non-mutual authentication only



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**Direct Mode** This table shows where Sepura radios have been certified with TETRA terminals

TIP REFERENCE	CAPABILITY	DMO TERMINALS						
		Sepura	Cassidian	Motorola	Selex	Cleartone	Tetronic	Thales
TTR002-01 §9.1.2	Group call	P	P	P	P	P	P	P
TTR002-01 §9.2.4	- Changeover	P	P	P	P	P	P	P
TTR002-01 §9.4	- Late Entry	P	P	P	P	P	P	P
TTR002-01 §9.2.5	- Pre-emption	P	P	P	P	P	P	P
TTR002-01 §9.1.3	Individual call	P	P	P	-	P	P	-
TTR002-01 §9.2.5	- Pre-emption	P	P	P	-	P	P	-
TTR002-01 §10	Status	P	P	P	P	P	P	-
TTR002-01 §12	SDSL-TL - Group Addressed	P	-	P	-	P	P	-
TTR002-01 §12	- Individually Addressed	P	-	P	-	P	P	-
	Air Interface Encryption							
TTR002-05 §6.3.1	- Group call	P	P	P	-	P	-	-
TTR002-05 §6.3.1	- Individual call	P	P	P	-	P	-	-
TTR002-05 §6.3.7	- Status messages	P	P	P	-	P	-	-
TTR002-05 §6.3.4	- Pre-emption	P	P	P	-	P	-	-

**Gateway Inter-working** This table shows where Sepura radios have been certified with TETRA gateway products

TIP REFERENCE	CAPABILITY	DMO GATEWAY		
		Sepura	Selex	Cleartone
TTR002-02 §6.3.2	Usage Restriction Type Management	P	P	P
TTR002-02 §6.4.1/2	Call Group	P	P	P
TTR002-02 §6.6.1/2	- Changeover	P	P	P
TTR002-02 §6.7	- Pre-emption	P	P	P
TTR002-02 §6.9.1/2	Status	P	-	P
TTR002-02 §6.11	SDS with TL	P	-	-

**Repeater Inter-working** This table shows where Sepura radios have been certified with TETRA repeater products

TIP REFERENCE	CAPABILITY	DMO REPEATER					
		Sepura (1A)	Thales		Cleartone		Selex (1A)
			1A	1B	1A	1B	
TTR002-03 §6.7	Presence Signal handling (incl. URT)	P	-	-	P	-	-
TTR002-03 §6.8.1.5	Group call	P	P	P <sub>1</sub>	P	P <sub>1</sub>	P
TTR002-03 §6.8.2.4	- Changeover	P	P	P <sub>1</sub>	P	P <sub>1</sub>	P
TTR002-03 §6.8.1.3	Individual call	P	-	-	P	-	-
TTR002-03 §6.8.2.5	Pre-emption	P	P	-	P	-	P
TTR002-03 §6.10	Status messages	P	-	-	P	-	-
	Air Interface Encryption						
TTR002-05 §6.4.1	- Group call	P	-	-	P	P	-
TTR002-05 §6.4.1	- Individual call	P	-	-	P	-	-
TTR002-05 §6.4.4	- Pre-emption	P	-	-	P	P	-
TTR002-05 §6.4.5	- Status messages	P	-	-	P	-	-

**Sepura Gateway** This table shows where Sepura Gateway radios have been certified with TETRA terminals and TETRA infrastructures

TIP REFERENCE	CAPABILITY	DMO TERMINALS					
		Sepura	Cassidian	Motorola	Selex	Tetronic	Thales
TTR002-02 §6.3.2	Usage Restriction Type management	P	P	P	P	P	-
TTR002-02 §6.4.1/2	Group call	P	P	P	P	P	P <sub>1</sub>
TTR002-02 §6.6.1/2	- Changeover	P	P	P	P	P	P <sub>1</sub>
TTR002-02 §6.7	- Pre-emption	P	-	P	P	P	-
TTR002-02 §6.9.1/2	Status	P	-	P	P	P	-
TTR002-02 §6.11	SDS with TL	P	-	P	-	P	-
	Air Interface Encryption						
TTR002-05 §6.5.1	- Group call	P	-	-	-	-	-
TTR002-05 §6.5.4	- Pre-emption	P	-	-	-	-	-
TTR002-05 §6.5.5	- Status messages	P	-	-	-	-	-

**Sepura Repeater** This table shows where Sepura radios operating in Repeater mode have been certified with TETRA terminals

TIP REFERENCE	CAPABILITY	DMO TERMINALS						
		Sepura	Cassidian	Motorola	Selex	Clearstone	Tetronic	Thales
TTR002-03 §6.7	Presence Signal handling (inc. URT)	P	-	P	P	-	P	P
TTR002-03 §6.8.1.5	Group call	P	P	P	P	P	P	P
TTR002-03 §6.8.2.4	- Changeover	P	P	P	P	P	P	P
TTR002-03 §6.8.1.3	Individual call	P	-	-	-	P	P	-
TTR002-03 §6.8.2.5	Pre-emption	P	P	P	P	P	P	P
TTR002-03 §6.10	Status messages	P	P	P	-	P	-	-
	Air Interface Encryption							
TTR002-05 §6.4.1	- Group call	P	P	P	-	P	-	-
TTR002-05 §6.4.1	- Individual call	P	P	-	-	P	-	-
TTR002-05 §6.4.4	- Pre-emption	P	P	P	-	P	-	-
TTR002-05 §6.4.5	- Status messages	P	P	P	-	P	-	-

<b>Key to Symbols</b>	P	Passed
	P <sub>1</sub>	Evidenced by private testing
	-	Not Tested



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