TMO-100 Approvals and IOP Documents



April 2013



Funk-Electronic Piciorgros GmbH Claudiastrasse 5 51149 Cologne, Germany

Approvals



Certificate

This certificate is issued to

Funk-Electronic Piciorgros GmbH

of

Claudiastr. 5 Cologne 51**1**49 Germany

to certify that the Equipment known as

T-one

as described in the Annex to this certificate conforms to the essential requirements of Directive 1999/5/EC of the European Parliament and European Council on the basis of Technical Construction File number T-one in relation to the essential requirements of Articles 3.1(a), 3.1(b) & 3.2 of the Directive.

Signed:

On Behalf of BABT

Issue Date:

03 August 2010

Number:

NC/14841

Issue: 01

This certificate is issued by BABT and represents a formal Notified Body opinion under Annex IV of Directive 1999/5/EC permitting the use of the BABT C60168 mark on the equipment described above subject to the equipment meeting the compliance requirements of all applicable EU directives.

This certificate is not transferable and remains the property of BABT.

This Certificate constitutes page 1 of the combined Certificate and Annex.

British Approvals Board for Telecommunications • TÜV SÜD Group

Forsyth House • Churchfield Road • Walton-on-Thames • Surrey • KT12 2TD • United Kingdom





CERTIFICATE of Conformity

Registration No.: HK0041000099

Report No.: 14023954 001

Holder:

HONOH Limited

Manufacturer:

Funk-Electronic Piciorgros GmbH

Equipment:

Handheld Portable Transceiver (TETRA)

Category:

Land Mobile Trunked Radio Equipment (TETRA)

- Portable Transceiver

Identification (Model):

T-one

Trade Name:

HONOH Piciorgros

Brand Name:

Piciorgros

Type of Modulation:

π/4 DQPSK

R. F. Output Power:

30 dBm (max.)

R.F. Channel Separation:

25 kHz

Operating Frequency Range: TMO Tx: 806-825MHz

Rx: 851-869MHz

DMO TX: 851-869MHz RX: 851-869MHz

Specification:

HKTA 1047 (Issue 2)

This Certificate of Conformity is to certify that the product is in compliance with the listed specification. This certificate does not imply assessment of the production. Use of the equipment shall be subject to the issue of a license by the Telecommunications Authority or in accordance with the requirements under a class license. The Certificate is subject to the conditions stated overleaf.

> Local Certification Body accredited under section 32E(g) of the Telecommunications Ordinance

(Cap. 106) Hong Kong

Hong Kong, 11.08.2010

TÜV Rheinland Hong Kong Ltd.

9/F., Emperor International Square, 7 Wang Tai Road, Kowloon Bay, Kowloon, Hong Kong



CERTIFICATE of Conformity

Registration No.: HK0041000102

Report No.: 14024621 001

Holder:

HONOH Limited

Manufacturer:

Funk-Electronic Piciorgros GmbH

Equipment:

Universal Modem with Voice Interface (TETRA)

Category:

Land Mobile Trunked Radio Equipment (TETRA)

- Mobile Station

Identification (Model):

TMO-100

Trade Name:

HONOH Piciorgros

Brand Name:

Piciorgros

Type of Modulation:

π/4 DQPSK

R. F. Output Power:

30 dBm (max.)

R.F. Channel Separation:

25 kHz

Operating Frequency Range: TMO Tx: 806-825MHz

Rx: 851-869MHz DMO TX: 851-869MHz

RX: 851-869MHz

Specification:

HKTA 1047 (Issue 2)

This Certificate of Conformity is to certify that the product is in compliance with the listed specification. This certificate does not imply assessment of the production. Use of the equipment shall be subject to the issue of a license by the Telecommunications Authority or in accordance with the requirements under a class license.

The Certificate is subject to the conditions stated overleaf.

Local Certification Body accredited under section 32E(g) of the Telecommunications Ordinance (Cap. 106) Hong Kong

Hong Kong, 12.08.2010

TÜV Rheinland Hong Kong Ltd.

9/F., Emperor International Square, 7 Wang Tai Road, Kowloon Bay, Kowloon, Hong Kong



สำนักงานคณะกรรมการกิจการกระจายเสียง กิจการโทรทัศน์ และกิจการโทรคมนาคมแห่งชาติ

The Office of National Broadcasting and Telecommunications Commission

	ที่ (No.):	B37004 - 11
ใบรับรองนี้แสดงว่า เครื่องโทรคมนาคมและอุป		งสอบและรับรองมาครฐานแ
โดยมีเงื่อนใจปรากฏตามเอกสารแนบจำนวน 2		
This is to certify that the telecommunication	equipment appeared hereunder has been a	approved
with condition(s) specified in 2 Annex(es	an man un	
ตราอักษร (Brand Name)	: Piciorgros	
รุ่น/แบบ (Model)	: TMO-100	3
ชนิด (Type of equipment)	: ประจำที่	121
ประเภทเครื่องโทรคมนาคมและอุปกร	ai : Digital Trunked Radio	12
(Product Description)		100
ย่านความถี่วิทยุ (Frequency Range)	: Tx : See Annex 2	NO NO
	Rx : See Annex 2	181
กำลังส่ง (Output Power)	: See Annex 2	181
ผู้ผลิต(Manufacturer)	: Funk - Electronic Piciorgros (GmbH,Germany
และบริษัทในเครือประเทศอื่นๆ		
ผู้ขึ้นขอดรวจสอบและรับรอง	: บริษัท มอสแคด (ไทยแลนด์) จำ	กัด
(Applicant)	STING AND 1	
งวันที่ ² ๆ เมษายน 2554	ลงชื่อ (Signature)	
(Date of Issue)		***************************************
	(นายฐากร ตัณจ	
	ปฏิบัติหน้าที่ เลขาธิเ พนักงานเจ้าหน้าที่ ปฏิบัติการ	การ กสทาง.

TCB

GRANT OF EQUIPMENT AUTHORIZATION

TCB

Certification
Issued Under the Authority of the
Federal Communications Commission

British Approvals Board for
Telecommunications (BA Date of Grant: 01/16/2013
Balfour House Churchfield Road
Walton-on-Thames, Surrey, KT12 2TD Application Dated: 01/16/2013
United Kingdom

Funk-Electronic Piciorgros GmbH Claudiastr. 5 Cologne, 51145 Germany

Attention: Michael Piciorgros, Dipl.-Ing.

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

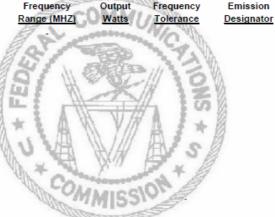
FCC IDENTIFIER: TO9TMO100

Name of Grantee: Funk-Electronic Piciorgros GmbH
Equipment Class: Part 15 Class B Computing Device Peripheral
Notes: TMO-100 SCADA and Telemetry Modem for

TETRA Infrastructures

Grant Notes

FCC Rule Parts 15B



尺台

•

PTNONKAT

Ш



FCB Technical Acceptance Certificate

CB Number: UK0004

ISSUED TO Funk-Electronic Plciorgros GmbH

Claudiastr, Köln, 51149, Germany

CERTIFICATION No. 10682A-TMO100

DESCRIPTION SCADA and Telemetry Modern for TETRA Infrastructures TYPE OF EQUIPMENT Land-Mobile Transmitter and Receiver (27.41-960MHz)

IMODEL(S) TMO-100/DAN, TMO-100/DVI, TMO-100/DA1, TMO-100/DA2, TMO-

100/DA3, TMO-100/DA4, TMO-100/DA5

TYPE OF LISTING Family Certification

ANTENNA INFORMATION Integral

RF EVALUATION TYPE RF Evaluation SPECIFICATION(S) RSS-119 Issue 11

IMANUFACTURING No. 10682A REPRESENTATIVE No. 4632A IC OATS FACILITY No. 2932B-1

IC OATS FACILITY TUV Product Service Limited

Octagon House, Concorde Way, Segensworth North,

Fareham, Hampshire, United Kingdom Telephone: +44 (0)1489 558274 Fax: +44 (0)1489 558101

E-mail address: sjones@tuvps.co.uk

Frequency Range (MHz) 450 - 470

Power Output (W) 4.25

Occupied Bandwidth (KHz) 20.512

Emission Designator

Issue: 01

22K0D7W

Authorised by:

Issue Date: 01 February 2013

Number: CD/000214

iTitle of Signatory: Certification Supervisor

I hereby attest that the subject equipment was tested and found

in compliance with the above-noted specification

Certification of equipment means only that the equipment has met the requirements of the above noted specification. Licence applications, where applicable to use certified equipment, are acted on accordingly by the issuing office and will depend on the existing radio environment, service and location of operation. This certificate is issued on condition that the holder complies and will continue to comply with requirements and procedures issued by Industry Canada;

J'atteste, par la présente, que le matériel a fait l'objet d'essai et a été jugé conforme à la spécification ci-dessus.

La certification du matériel signifie seulement que le matériel a satisfait aux exigences de la norme indiquée ci-dessus. Les demandes de licences nécessaires pour l'utilisation du matériel certifié sont traitées en conséquence par le bureau de délivrance et dépendent des conditions radio ambiantes, du service et de l'emplacement d'exploitation. Le présent certificat est délivré à la condition que le titulaire satisfasse et continue de satisfaire aux exigences et aux procédures d'Industrie Canada;

Certified Equipment shall not be distributed, leased, sold or offered for sale in Canada before the details of the certification have been added to the REL. This certificate has been issued in accordance with the Certification Regulations of TÜV SÜD BABT. This certificate is not transferable and remains the property of TÜV SÜD BABT.

TÜV SÜD BABT . TÜV SÜD Group

Octagon House . Concorde Way . Fareham . Hampshire . PO15 5RL . United Kingdom

IOP Certificates



TETRA Interoperability Certificate

Cassidian, Tetra System Rel 6.0, SwMI -Piciorgros, TMO-100, Terminal

Helsinki, February 2011

Latest Certified SwMI SW Release:	6.0	Latest Certified Terminal SW Release:	V01.7x
Latest Certified SwMI HW Release:	M98F (DXTip)	Latest Certified Terminal HW Release:	V02.00

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Cassidian, Tetra System Rel 6.0, SwMI and the Piciorgros, TMO-100, terminal have been subject to interoperability testing for the "certified" features listed on second page of this certificate, in accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and related TETRA interoperability requirement tables.

The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is "Certified" when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001).

A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

Detailed test results and explanation about the procedure used to provide verdicts are listed in the Test Report associated to this Certificate.

IOP test engineer

Massimo Lucenti

Radio Office Manager

Radio Office Manager

Giuseppe Pierri

ISCTI - V.le America 201, 00144 Rome, Italy Ph.: +39 06 5444 2663, Fax: +39 06 5410904 e-mail: tetra_ctc.iscom@sviluppoeconomico.gov.it.

Web: www.sviluppoeconomico.gov.it

Date of issue: 3 August 2011

V 01

Test Session: Cassidian, Helsinki, February 2011

Cassidian, Tetra System Rel 6.0, SwMI - Piciorgros, TMO-100, Terminal

v 01

ISCTI - tetra ctc.iscom@isviluppoeconomico.gov.it

V0.1 page 10 of 17

1/13



TETRA Interoperability Certificate

3T Communications, eXTRAS, SwMI — Piciorgros, TMO-100, Terminal

Vienna, May 2012

Latest Certified SwMI SW Release:	eXTRAS 3.4.2	Latest Certified Terminal SW Release:	V02.2x
Latest Certified SwMI HW Release:	eXTRAS R3	Latest Certified Terminal HW Release:	2

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the 3T Communications, eXTRAS, SwMI and the Piciorgros, TMO-100, terminal have been subject to interoperability testing for the "certified" features listed on second page of this certificate, in accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and related TETRA interoperability requirement tables.

The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is "Certified" when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001-01).

A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

This certificate has been issued following a single test session between 3T Communications and Piciorgros on May 2012. Detailed test results are listed in the Test Report associated to this Certificate. Details and explanation about the procedure used to provide verdicts are in the TIC process TPD001-01.

IOP test engineer

Radio Office Manager

Date of issue June 2012

v 1

ISCTI - V.le America 201, 00144 Rome, Italy
Ph.: +39 06 5444 2663, Fax: +39 06 5410904
e-mail: tetra ctc.iscom@sviluppoeconomico.gov.it,

Web: www.sviluppoeconomico.gov.it

Test Session: 3T Communications, Vienna, May 2012

1/14

v 1

3T Communications, eXTRAS, SwMI - Piciorgros, TMO-100, Terminal



TETRA Interoperability Certificate

Damm, TetraFlex, SwMI — Piciorgros, DVI-100, Terminal

Sonderborg, June 2012

Latest Certified SwMI SW Release:	Rel. 7.54	Latest Certified Terminal SW Release:	V02.30
Latest Certified SwMI HW Release:	TetraFlex	Latest Certified Terminal HW Release:	2

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Damm, TetraFlex SwMI and the Piciorgros DVI-100, terminal have been subject to interoperability testing for the "certified" features listed on second page of this certificate, in accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and related TETRA interoperability requirement tables.

The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is "Certified" when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001-01).

A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

This certificate has been issued following a single test session between Damm and Piciorgros on June 2012. Detailed test results are listed in the Test Report associated to this Certificate. Details and explanation about the procedure used to provide verdicts are in the TIC process TPD001-01.

IOP test engineer

Radio Office Manager

ISCTI - V.le America 201, 00144 Rome, Italy Ph.: +39 06 5444 2663, Fax: +39 06 5410904

e-mail: tetra ctc.iscom@sviluppoeconomico.gov.it,

Web: www.sviluppoeconomico.gov.it

Date of issue 21 June 2012

v 1

Test Session: Damm, Sonderberg, June 2012

Damm, TetraFlex, SwMI - Piciorgros, DVI-100, Terminal

1/14



TETRA Interoperability Certificate

Damm, TetraFlex, SwMI — Piciorgros, TMO-100, Terminal

Sonderborg, June 2012

Latest Certified SwMI	Rel. 7.54	Latest Certified Terminal	VU2.3U
SW Release:		SW Release:	
Latest Certified SwMI	TetraFlex	Latest Certified Terminal	2
HW Release:		HW Release:	

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Damm, TetraFlex, SwMI and the Piciorgros, TMO-100, terminal have been subject to interoperability testing for the "certified" features listed on second page of this certificate, in accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and related TETRA interoperability requirement tables.

The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is "Certified" when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001-01).

A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

This certificate has been issued following a single test session between Damm and Piciorgros on June 2012. Detailed test results are listed in the Test Report associated to this Certificate. Details and explanation about the procedure used to provide verdicts are in the TIC process TPD001-01.

IOP test engineer

Radio Office Manager

ISCTI - V.le America 201, 00144 Rome, Italy

Ph.: +39 06 5444 2663, Fax: +39 06 5410904

e-mail: tetra_ctc.iscom@sviluppoeconomico.gov.it,

Web: www.sviluppoeconomico.gov.it

Date of issue 21 June2012

v 1

Test Session: Damm, Sonderborg, June 2012

Damm. TetraFlex. SwMI - Piciorgros. TMO-100. Terminal

1/15



TETRA ASSOCIATION

ISCTI

TETRA Interoperability Certificate

Rohill, TetraNode, SwMI Piciorgros, TMO-100, Terminal

Hoogeveen, May 2010

Latest Certified SwMI SW Release:	R 3.0	Latest Certified Terminal SW Release:	1.50
Latest Certified SwMI HW Release:	R 2.2	Latest Certified Terminal HW Release:	2

ISCOM (Istituto Superiore della Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Rohill, TetraNode, SwMI and the Piciorgros, TMO-100, Terminal have been subject to interoperability testing for the "certified" features listed on the second page of this certificate. In accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and the related TETRA interoperability requirement tables.

The table lists all the available TETRA interoperability profiles, and summarises the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is "Certified" when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001).

A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate. Detailed test results and explanation about the procedure used to provide verdicts are listed in the Test Report associated to the Certificate.

IOP test engineer

Roberto Feroci

Radio Office Manager

Giuseppe Pierri

ISCTI - V.le America 201, 00144 Rome, Italy Ph.: +39 06 5444 2663, Fax: +39 06 5410904 e-mail: tetra_ctc.iscom@sviluppoeconomico.gov.it

Web: www.sviluppoeconomico.gov.it

Date of issue:

6 October 2010

Test Session: Rohill, Hoogeveen, May 2010

Rohill, TetraNode, SwMI - Piciorgros, TMO-100, Terminal

1/16



TETRA Interoperability Certificate

Selex, BSNode, SwMI — Piciorgros, TMO-100, Terminal

Florence, November 2010

Latest Certified SwMI	v6.0	Latest Certified Terminal	V01.7x
SW Release:		SW Release:	
Latest Certified SwMI	775-0867/01.01-BSN- 400L/4 Eth	Latest Certified Terminal	V02.00
HW Release:	400L/4 Eth	HW Release:	

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Selex, BSNode, SwMI and the Piciorgros, TMO-100, terminal have been subject to interoperability testing for the "certified" features listed on second page of this certificate, in accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and related TETRA interoperability requirement tables.

The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is "Certified" when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001).

A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

Detailed test results and explanation about the procedure used to provide verdicts are listed in the Test Report associated to this Certificate.

IOP test engineer

IOP test engineer

Massimo Projetti

Radio Office Manager

Radio Office Manager

Giuseppe Pierri

ISCTI - V.le America 201, 00144 Rome, Italy
Ph.: +39 06 5444 2663, Fax: +39 06 5410904
e-mail: tetra_ctc.iscom@sviluppoeconomico.gov.i

Web: www.sviluppoeconomico.gov.it

16 March 2011

Date of issue:

v 01

Test Session: Selex, Florence, November 2010

Selex, BSNode, SwMI - Piciorgros, TMO-100, Terminal

4



TETRA Interoperability Certificate

Teltronic, NEBULA, SwMI — Piciorgros, DVI-100, Terminal

Zaragoza, September 2012

Latest Certified SwMI	12.20.50	Latest Certified Terminal	V02.4x
SW Release:		SW Release:	
Latest Certified SwMI	12.20.18.23	Latest Certified Terminal	2
HW Release:		HW Release:	

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Teltronic, NEBULA, SwMI and the Piciorgros, DVI-100, terminal have been subject to interoperability testing for the "certified" features listed on second page of this certificate, in accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and related TETRA interoperability requirement tables.

The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is "Certified" when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001-01).

A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

This certificate has been issued following a multiple test session between Teltronic and Piciorgros on September 2012. Detailed test results are listed in the Test Report associated to this Certificate. Details and explanation about the procedure used to provide verdicts are in the TIC process TPD001-01.

IOP test engineer

Radio Office Manager

Giuseppe Pierri

Stefano Fransesini

ISCTI - V.le America 201, 00144 Rome, Italy
Ph.: +39 06 5444 2663, Fax: +39 06 5410904
e-mail: tetra_ctc.iscom@mise.gov.it,

Web: www.mise.gov.it

Date of issue

4 March 2013

v 1

Test Session: Teltronic, Zaragoza, September 2012

Teltronic, NEBULA, SwMI - Piciorgros, DVI-100, Terminal

1/15

ISCTI - tetra_ctc.iscom@mise.gov.it



TETRA Interoperability Certificate

Teltronic, NEBULA, SwMI — Piciorgros, TMO-100, Terminal

Zaragoza, September 2012

Latest Certified SwMI	12.20.50	Latest Certified Terminal	V02.4x
SW Release:		SW Release:	
Latest Certified SwMI	12.20.18.23	Latest Certified Terminal	2
HW Release:		HW Release:	

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Teltronic, NEBULA, SwMI and the Piciorgros, TMO-100, terminal have been subject to interoperability testing for the "certified" features listed on second page of this certificate, in accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and related TETRA interoperability requirement tables.

The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is "Certified" when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001-01).

A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

This certificate has been issued following a multiple test session between Teltronic and Piciorgros on September 2012. Detailed test results are listed in the Test Report associated to this Certificate. Details and explanation about the procedure used to provide verdicts are in the TIC process TPD001-01.

IOP test engineer

Radio Office Manager

Giuseppe Pierri

Stefano Fransesini

ISCTI - V.le America 201, 00144 Rome, Italy Ph.: +39 06 5444 2663, Fax: +39 06 5410904

e-mail: tetra_ctc.iscom@mise.gov.it, Web: www.mise.gov.it Date of issue

4 March 2013

v 1

Test Session: Teltronic, Zaragoza, September 2012

Teltronic, NEBULA, SwMI - Piciorgros, TMO-100, Terminal

1/16

ISCTI - tetra_ctc.iscom@mise.gov.it



TETRA Interoperability Certificate

Motorola, Dimetra IP R7.1, SwMI -Piciorgros, TMO-100, Terminal

Krakow, November 2013

Latest Certified SwMI	/,1	Latest Certified Terminal SW Release:	V02.8x
Latest Certified SwMI		Latest Certified Terminal	2
HW Release:		HW Release:	

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Motorola, Dimetra IP R7.1, SwMI and the Piciorgros, TMO-100, terminal have been subject to interoperability testing for the "certified" features listed on second page of this certificate, in accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and related TETRA interoperability requirement tables.

The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is "Certified" when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001-01).

A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

This certificate has been issued following a fully witnessed single test session between Motorola and Piciorgros on November 2013. Detailed test results are listed in the Test Report associated to this Certificate. Details and explanation about the procedure used to provide verdicts are in the TIC process TPD001-01.

IOP test engineer

Radio Office Manager

ISCTI - V.le America 201, 00144 Rome, Italy Ph.: +39 06 5444 2663, Fax: +39 06

5410904

e-mail: tetra ctc.iscom@mise.gov.it,

Web: www.mise.gov.it

Date of issue

5 December 2013

v 1

v 1

Test Session: Motorola, Krakow, November 2013

1/16

ISCTI - tetra ctc.iscom@mise.gov.it



TETRA Interoperability Certificate

Motorola, Dimetra IP R7.1, SwMI -Piciorgros, DVI-100, Terminal

Krakow, November 2013

Latest Certified SwMI SW Release:	7.1	Latest Certified Terminal SW Release:	V02.8x
Latest Certified SwMI HW Release:	Dimetra IP R7.1	Latest Certified Terminal HW Release:	2

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Motorola, Dimetra IP R7.1, SwMI and the Piciorgros, DVI-100, terminal have been subject to interoperability testing for the "certified" features listed on second page of this certificate, in accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and related TETRA interoperability requirement tables.

The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is "Certified" when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001-01).

A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

This certificate has been issued following a fully witnessed single test session between Motorola and Piciorgros on November 2013. Detailed test results are listed in the Test Report associated to this Certificate. Details and explanation about the procedure used to provide verdicts are in the TIC process TPD001-01.

IOP test engineer

Radio Office Manager

ISCTI - V.le America 201, 00144 Rome, Italy Ph.: +39 06 5444 2663, Fax: +39 06

Motorola, Dimetra IP R7.1, SwMI - Piciorgros, DVI-100, Terminal

5410904

e-mail: tetra ctc.iscom@mise.gov.it, Web: www.mise.gov.it

Date of issue

5 December 2013

v 1