



DMRA INTEROPERABILITY TEST PROGRAM

DMR Tier II Interoperability Test Report

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Date(s) of test	Jan 9,10, 2012	
Date of Report's Issue	Jan 10 th , 2012	
Conducted by	Sanjay Karpoor – Motorola Solutions Inc	
Approved by	Nancy Koutropoulos – Motorola Solutions Inc	
Equipment manufacturer observer(s)	Yu Yang – Hytera Communications Corporation Ltd	

Test Laboratory Information	
Test Lab Name	Motorola Solutions Inc
DMRA Laboratory Code	DMRA:IOP:10.01.11
Test Location	1301 E Algonquin Rd, Schaumburg, IL 60196, USA

DMR Repeating System Tested	
Manufacturer	Hytera Communications Corporation Ltd
Model	RD982-00000000-000000-U1-0-F
Operating Freq. Range	400 – 470 MHz
Serial Number(s)	10831A1382

Mobile Stations Tested			
Manufacturer	Model	Operating Freq. Range	Serial Number
Motorola Solutions	MotoTRBO XPR6550	403 – 470 MHz	037TLGF219
Motorola Solutions	MotoTRBO XPR6550	403 – 470 MHz	037TLGF222
Motorola Solutions	MotoTRBO XPR6550	403 – 470 MHz	037TLGF223
Motorola Solutions	MotoTRBO XPR6550	403 – 470 MHz	037TLGD429
Hytera	PD782-000G0000-000000-U1-0-F	400 – 470 MHz	10630D0767
Hytera	PD782-000G0000-000000-U1-0-F	400 – 470 MHz	10630D0770
Hytera	PD782-000G0000-000000-U1-0-F	400 – 470 MHz	10729D0336

DMRA_TIER_II_Interop_Test_Report: 1301 E Algonquin Rd, Schaumburg, IL 60196, USA

Date(s) of Test – 9,10 Jan 2011

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Testers Initials: A. [Signature] Approver Initials: NK



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Test Sessions Verdicts

Test Session	Feature	Feature's Status	Verdict	Comments
[1] - 2.3 Group Call	Group Call in repeater mode and Direct Mode	M	P	Tested the following functionalities : Repeater mode : Channel Access, BS Activation, Voice Repeating, Call Hangtime, Late Entry. Direct mode : Channel Access, Voice transmission, Late Entry
[1] - 2.4 Individual Call - PATCS	Individual PATCS call in repeater mode and Direct Mode	M	P	Tested the following functionalities : Repeater mode : Channel Access, BS Activation, Voice Repeating, Call Hangtime, Late Entry Direct mode : Channel Access, Voice transmission, Late Entry
[1] - 2.5 Individual Call - OACSU	Individual OACSU call in repeater mode and Direct Mode	M	P	Tested the following functionalities : Repeater mode : Channel Access, BS Activation, Voice Repeating, Call Hangtime Direct mode : Channel Access, Voice transmission
[1] - 2.6 All Call	All Call in repeater mode and Direct Mode	M	P	Tested the following functionality : Repeater mode : Channel Access, BS Activation, Voice Repeating, Late Entry. Direct mode : Channel Access, Voice transmission, Late Entry

Testers Initials: JK Approver Initials: NK



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Equipment manufacturer observer(s)	Yu Yang – Hytera Communications Corporation Ltd	

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DMRA Laboratory Code	DMRA:IOP:10.01.11
Test Location	1301 E Algonquin Rd, Schaumburg, IL 60196, USA

DMR Repeating System Tested	
Manufacturer	Hytera Communications Corporation Ltd
Model	RD982-00000000-000000-U1-0-F
Operating Freq. Range	400 – 470 MHz
Serial Number(s)	10831A1382

Mobile Stations Tested			
Manufacturer	Model	Operating Freq. Range	Serial Number
Motorola Solutions	MotoTRBO XPR6550	400 – 470 MHz	037TLGF219
Motorola Solutions	MotoTRBO XPR6550	400 – 470 MHz	037TLGF222
Motorola Solutions	MotoTRBO XPR6550	400 – 470 MHz	037TLGF223
Motorola Solutions	MotoTRBO XPR6550	400 – 470 MHz	037TLGD429
Hytera	PD782-000G0000-000000-U1-0-F	400 – 470 MHz	10630D0767
Hytera	PD782-000G0000-000000-U1-0-F	400 – 470 MHz	10630D0770
Hytera	PD782-000G0000-000000-U1-0-F	400 – 470 MHz	10729D0336

DMRA_TIER_II_Interop_Test_Report: 1301 E Algonquin Rd, Schaumburg, IL 60196, USA

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Testers Initials: AK JK Approver Initials: NK



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Test Sessions Verdicts

Test Session	Feature	Feature's Status	Verdict	Comments
[1] - 2.3 Radio Check	Radio Check in repeater mode and Direct Mode	O	P	Tested the following functionalities : Channel Access, Radio Check initiation and response, BS Activation (Repeater Mode only)
[1] - 2.4 Call Alert	Call Alert in repeater mode and Direct Mode	O	P	Tested the following functionalities : Channel Access, Call Alert initiation and response, BS Activation (Repeater Mode only)
[1] - 2.5 Radio Disable/Enable	Radio Disable/Enable in repeater mode and Direct Mode	O	P	Tested the following functionalities : Channel Access, Radio Disabling, Re enabling the disabled radio, BS Activation (Repeater Mode only)
[1] - 2.6 Remote Monitor	Remote Monitor in repeater mode and Direct Mode	O	P	Tested the following functionalities : Channel Access, Initiating Remote Monitor, Voice transmission from a radio being monitored, BS Activation (Repeater Mode only)
[1] - 2.7 Emergency Alarm	Emergency Alarm in repeater mode and Direct Mode	O	P	Tested the following functionalities : Channel Access, Emergency Alarm initiation and response, BS Activation (Repeater Mode only)
[1] - 2.8 Emergency Call	Emergency Call in repeater mode and Direct Mode	O	P	Tested the following functionalities : Channel Access, Emergency voice transmission, Group voice transmission, Late Entry, BS Activation (Repeater Mode only)

Testers Initials: JK Approver Initials: WK



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Approved by	Nancy Koutropoulos – Motorola Solutions Inc	
Equipment manufacturer observer(s)	Yu Yang – Hytera Communications Corporation Ltd	

Test Laboratory Information	
Test Lab Name	Motorola Solutions Inc
DMRA Laboratory Code	DMRA:IOP:10.01.11
Test Location	1301 E Algonquin Rd, Schaumburg, IL 60196, USA

DMR Repeating System Tested	
Manufacturer	Motorola Solutions Inc
Model	AAM27QNR9JA7AN
Operating Freq. Range	403 – 470 MHz
Serial Number(s)	484TLQ4843

Mobile Stations Tested			
Manufacturer	Model	Operating Freq. Range	Serial Number
Hytera	PD782-000G0000-000000-U1-0-F	400 – 470 MHz	10630D0766
Hytera	PD782-000G0000-000000-U1-0-F	400 – 470 MHz	10630D0767
Hytera	PD782-000G0000-000000-U1-0-F	400 – 470 MHz	10630D0770
Hytera	PD782-000G0000-000000-U1-0-F	400 – 470 MHz	10729D0336
Motorola Solutions	MotoTRBO XPR6550	403 – 470 MHz	037TLGF222
Motorola Solutions	MotoTRBO XPR6550	403 – 470 MHz	037TLGF223
Motorola Solutions	MotoTRBO XPR6550	403 – 470 MHz	037TLGD429

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Test Sessions Verdicts

Test Session	Feature	Feature's Status	Verdict	Comments
[1] - 2.3 Group Call	Group Call in repeater mode and Direct Mode	M	P	Tested the following functionalities : Repeater mode : Channel Access, BS Activation, Voice Repeating, Call Hangtime, Late Entry. Direct mode : Channel Access, Voice transmission, Late Entry
[1] - 2.4 Individual Call - PATCS	Individual PATCS call in repeater mode and Direct Mode	M	P	Tested the following functionalities : Repeater mode : Channel Access, BS Activation, Voice Repeating, Call Hangtime, Late Entry Direct mode : Channel Access, Voice transmission, Late Entry
[1] - 2.5 Individual Call - OACSU	Individual OACSU call in repeater mode and Direct Mode	M	P	Tested the following functionalities : Repeater mode : Channel Access, BS Activation, Voice Repeating, Call Hangtime Direct mode : Channel Access, Voice transmission
[1] - 2.6 All Call	All Call in repeater mode and Direct Mode	M	P	Tested the following functionality : Repeater mode : Channel Access, BS Activation, Voice Repeating, Late Entry. Direct mode : Channel Access, Voice transmission, Late Entry

DMRA_TIER_II_Interop_Test_Report: 1301 E Algonquin Rd, Schaumburg, IL 60196, USA
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Test Laboratory Information	
Test Lab Name	Motorola Solutions Inc
DMRA Laboratory Code	DMRA:IOP:10.01.11
Test Location	1301 E Algonquin Rd, Schaumburg, IL 60196, USA

DMR Repeating System Tested	
Manufacturer	Motorola Solutions Inc
Model	AAM27QNR9JA7AN
Operating Freq. Range	403 – 470 MHz
Serial Number(s)	484TLQ4843

Mobile Stations Tested			
Manufacturer	Model	Operating Freq. Range	Serial Number
Hytera	PD782-000G0000-000000-U1-0-F	400 – 470 MHz	10630D0766
Hytera	PD782-000G0000-000000-U1-0-F	400 – 470 MHz	10630D0767
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Test Sessions Verdicts

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[1] - 2.3	Radio Check in repeater mode and Direct Mode	O	P	Tested the following functionalities : Channel Access, Radio Check initiation and response, BS Activation (Repeater Mode only)
[1] - 2.4	Call Alert in repeater mode and Direct Mode	O	P	Tested the following functionalities : Channel Access, Call Alert initiation and response, BS Activation (Repeater Mode only)
[1] - 2.5	Radio Disable/Enable in repeater mode and Direct Mode	O	P	Tested the following functionalities : Channel Access, Radio Disabling, Re enabling the disabled radio, BS Activation (Repeater Mode only)
[1] - 2.6	Remote Monitor in repeater mode and Direct Mode	O	P	Tested the following functionalities : Channel Access, Initiating Remote Monitor, Voice transmission from a radio being monitored, BS Activation (Repeater Mode only)
[1] - 2.7	Emergency Alarm in repeater mode and Direct Mode	O	P	Tested the following functionalities : Channel Access, Emergency Alarm initiation and response, BS Activation (Repeater Mode only)
[1] - 2.8	Emergency Call in repeater mode and Direct Mode	O	P	Tested the following functionalities : Channel Access, Emergency voice transmission, Group voice transmission, Late Entry, BS Activation (Repeater Mode only)

Testers Initials: AK Approver Initials: NK



DMRA INTEROPERABILITY SUMMARY TEST PROGRAM

DMR Tier II Interoperability Test Report

DMR ASSOCIATION

Document Name: Hytera-Motorola Solutions Test Summary Jan 2012
 Dates of Report : 10th Jan 2012
 DMR Association Test Laboratory Code: DMRA:IOP:10.01.11
 DMRAssociation_TIER_II_Interoperability_Test_Laboratory Location: 1301 E Algonquin Rd, Schaumburg, IL 60196, USA
 Date(s) of Test : 09,10 Jan 2012

Equipment Details:

Manufacturer A Equipment System Tested	
Manufacturer	Hytera Communication Corporation Ltd.
Model	Base Station : RD982-00000000-000000-U1-0-F. Mobile Station : PD782-000G0000-000000-U1-0-F
Firmware	Base Station : A.4.01.02.000 Mobile Station : A.4.00.10.001
Operating Freq. Range	400 – 470 MHz
Serial Number(s)	Base Station : 10831A1382. Mobile Station : 10630D0766, 10630D0767, 10630D0770, 10729D0336

Manufacturer B DMR Equipment System Tested	
Manufacturer	Motorola Solutions Inc
Model	Base Station : MOTOTRBO XPR8300. Mobile Station: MOTOTRBO XPR6550
Firmware	Base Station : R01.08.00. Mobile Station : R01.08.30
Operating Freq. Range	403 – 470 MHz
Serial Number(s)	Base Station : 484TLQ4843. Mobile Station : 037TLGF219, 037TLGF222, 037TLGF223, 037TLGD429

Testers Initials: JK Approver Initials: NK



DMR ASSOCIATION INTEROPERABILITY TEST SUMMARY

DMR Tier II Interoperability Test Report

DMR ASSOCIATION

Test Sessions Verdicts

Test Session	Feature	Feature's Status	Verdict	Comments
[1] - 2.3 Group Call	Group Call in repeater mode and Direct Mode	M	P	Tested the following functionalities : Repeater mode : Channel Access, BS Activation, Voice Repeating, Call Hangtime, Late Entry. Direct mode : Channel Access, Voice transmission, Late Entry
[1] - 2.4 Individual Call - PATCS	Individual PATCS call in repeater mode and Direct Mode	M	P	Tested the following functionalities : Repeater mode : Channel Access, BS Activation, Voice Repeating, Call Hangtime, Late Entry Direct mode : Channel Access, Voice transmission, Late Entry
[1] - 2.5 Individual Call - OACSU	Individual OACSU call in repeater mode and Direct Mode	M	P	Tested the following functionalities : Repeater mode : Channel Access, BS Activation, Voice Repeating, Call Hangtime Direct mode : Channel Access, Voice transmission, Call Hangtime
[1] - 2.6 All Call	All Call in repeater mode and Direct Mode	M	P	Tested the following functionality : Repeater mode : Channel Access, BS Activation, Voice Repeating, Late Entry. Direct mode : Channel Access, Voice transmission, Late Entry

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DMR ASSOCIATION INTEROPERABILITY TEST SUMMARY

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Test Session	Feature	Feature's Status	Verdict	Comments
[1] - 2.3 Radio Check	Radio Check in repeater mode and Direct mode	O	P	Tested the following functionalities : Channel Access, Radio Check initiation and response, BS Activation (repeater mode only)
[1] - 2.4 Call Alert	Call Alert in repeater mode and Direct mode	O	P	Tested the following functionalities : Channel Access, Call Alert initiation and response, BS Activation (repeater mode only)
[1] - 2.5 Radio Disable/Enable	Radio Disable/Enable in repeater mode and Direct mode	O	P	Tested the following functionalities : Channel Access, Radio Disabling, Re enabling the disabled radio, BS Activation (repeater mode only).
[1] - 2.6 Remote Monitor	Remote Monitor in repeater mode and Direct mode	O	P	Tested the following functionalities : Channel Access, Initiating Remote Monitor, Voice transmission from a radio being monitored, BS Activation (repeater mode only).
[1] - 2.7 Emergency Alarm	Emergency Alarm in repeater mode and Direct mode	O	P	Tested the following functionalities : Channel Access, Emergency Alarm initiation and response, BS Activation (repeater mode only).
[1] - 2.8 Emergency Call	Emergency Call in repeater mode and Direct mode	O	P	Tested the following functionalities : Channel Access, Emergency voice transmission, Group voice transmission, Late Entry, BS Activation (repeater mode only).

Date of report issue: 10th Jan 2012

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