
Mobility for Emergency and Safety Application Project Related with Emergency Telecommunications

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9.11
(PPDR) 가
가
가
MESA
MESA
(PPDR)
MESA

I.

MESA
가

II. MESA

1. MESA

9.11
(public safety)
European Telecom-
munications Standards Institute(ETSI)
Telecommunications Industry Association(TIA)
(Mobility for Emer-
gency and Safety Applications: MESA)
9.11
(Public Protection and Disaster Relief:
PPDR) 가
(PPDR)
가

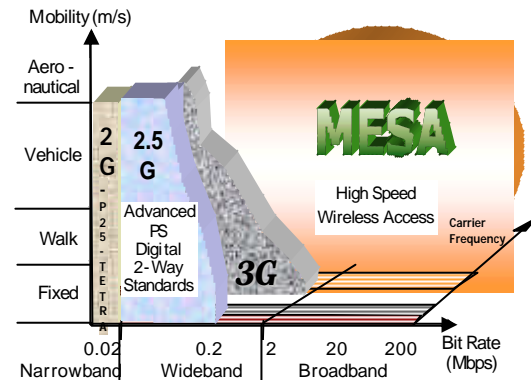
가
MESA (PPDR)
ETSI TIA
(Public Safety Partnership Project)
PPA(Public Safety Partnership Agreement)

5GHz [1].

MESA

[1].
MESA ETSI TIA
MESA
(DC, 2000.5)
MESA
(, 2001.1).

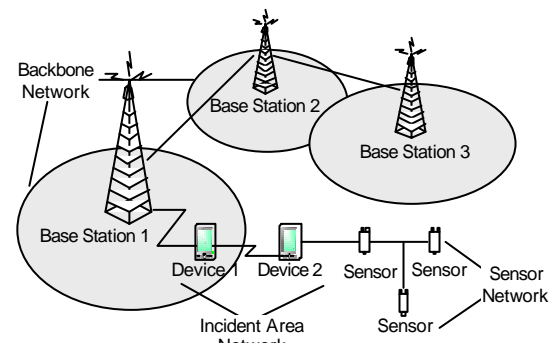
가 TETRA
(Terrestrial Trunked Radio)
DMO(Direct Mode Operation)
가 [4].



< >: TIA APEC TEL 28 Broadband Workshop, 2003. 10.

(1) MESA

가
[2],[3].
(1) TIA MESA
MESA 2Mbps
(PPDR)
400MHz,
800MHz, 4.9GHz가
2.4GHz,



(2) MESA

2. MESA

(Technical Specification Group System)

MESA
ETSI TIA
(DC, 2000.5.)
(PSPP) MESA

((3))[10].

MESA

100

, ETSI TIA

8가

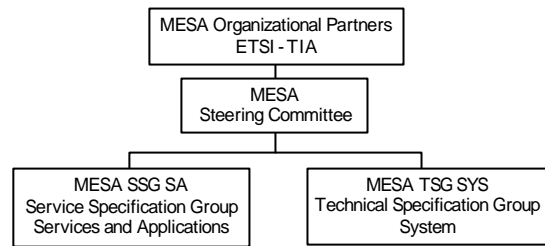
1>

(, 2001.1).

MESA ESTI TIA
MESA Steering 가

MESA SSG SA(Service Specification Group Services and Applications)

MESA TSG SYS



(3) MESA

< 1> Public Safety Members

| Organization | Country | Designated OP |
|--|---------|---------------|
| American Red Cross NHQ | US | TIA |
| APCO | US | TIA |
| APCO Project 25 Steering Committee | US | TIA |
| Beredskab Stork øbenhave | DK | ETSI |
| C.N.E.H. | FR | ETSI |
| Department of Maryland State Police | US | TIA |
| Federal Bureau of Investigation | US | TIA |
| Gloucestershire Fire and Rescue Service | UK | ETSI |
| High Point Fire Department | US | TIA |
| Industry Canada | CA | TIA |
| Lancashire Ambulance Service NHS Trust | UK | ETSI |
| Latvian State Fire and Rescue Service | LV | ETSI |
| National Institute of Justice | US | TIA |
| National Telecommunications and Information Administration(NTIA) | US | TIA |
| Norwegian National Police Directorate | NO | ETSI |
| Office of the Chief Technology Officer of the District of Columbia | US | TIA |
| Phoenix Fire Department | US | TIA |
| Royal Canadian Mounted Police | CA | TIA |
| SAIC | US | TIA |
| S.A.M.U. | FR | ETSI |
| US Dept of Commerce NTIA/ITS | US | TIA |

[10].

- Organizational partners
- Individual members
- Public safety members
- Candidate members
- Observers/Officials
- Contacts/Secretariat

MESA

Homeland Security NCS
(National Communication System)
PSWN, APCO

[5],[6].

- Department of Homeland Security, National Communications System
- Department of Justice and the National Institute of Justice, AGILE Program
- Federal Law Enforcement Wireless Users Group(FLEWUG)
- Public Safety Wireless Network(PSWN)
- Federal Bureau of Investigation
- Association of Public-Safety Communications Officials(APCO)
- State and Local Governments and Public Safety Officials
- Manufacturers and Academic Researchers
- American Red Cross
- United Nations Humanitarian Relief Section
- Agencies of the North Atlantic Treaty Organization
- The International Telecommunication Union
- Industry Canada and the Royal Canadian Mounted Police(RCMP)
- Project 25- Project 34 and ETSI TETRA

3. MESA

MESA

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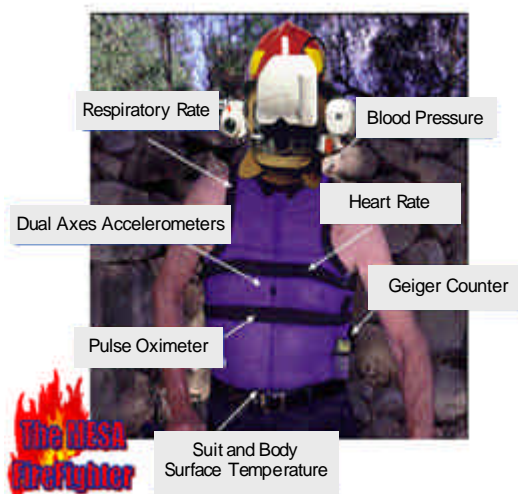
[5].

- Police/Law Enforcement/Anti- Terrorism, National and International Activities
- Advanced Surveillance and Security(Airports, Nuclear Power Plants)
- Emergency and Medical Services(Telemedicine)
- Advanced Firefighting
- Civil Defense and Disaster Response
- Emergency Management
- National and International Crime and Terror Investigations
- Sensing and Robotics

(4) MESA

가 가
3C(Command, Control, Communications)

가 [6].



(4) MESA

MESA

가 . (5)

[7].

ad-hoc
MESA

4. MESA SoR

(PPDR)

가 가

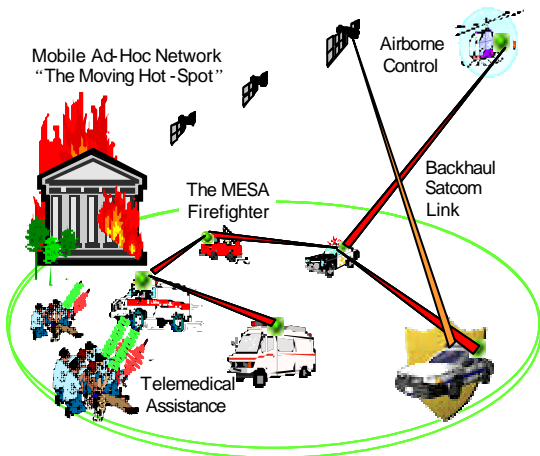
(Statement of Requirements: SoR)

가
(mobile robotics) MESA

Mo-
bile Layer 1(PHY) 2Mbps
MESA IPv4, IPv6 ATM

((6)).

Mobile Link Entity(MLE) ad-hoc
[7]. (SoR)
[7],[9].



• PPDR

• MESA

• MESA

• 가

• PPDR

III. MESA

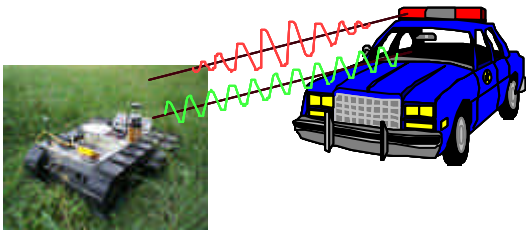
< >: TIA APEC TEL 28 Broadband Workshop, 2003. 10.

(5) ad-hoc

MESA

ETSI

TIA



(6)

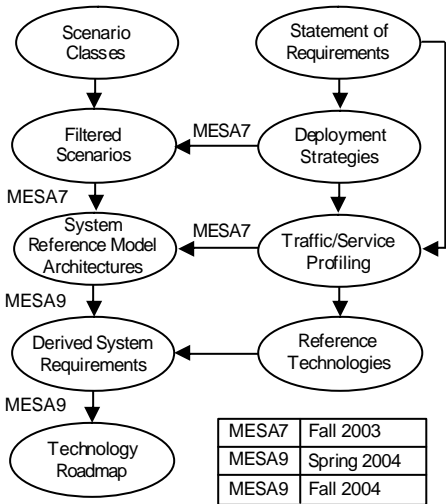
가
가
100
MESA
, GSC(Global Standard
Collaborations)

가 PPDR (SoR) 가 MESA PPDR 가 5th MESA , 8th MESA 가 , [8],[9]. 5th MESA (, 2002.9.) MESA , 3가 PPDR , 6th MESA (, 2003.4.) 가 PPDR (SoR) MESA 12 가 , 7th MESA (, 2003.9.) 12가 MESA 가 MESA 3가 [8],[9]. 8th MESA 가 , 9th MESA 가 ((7)).

IV.

MESA PPDR 가 , 5th MESA 가 (SoR) 가 , TSG SYS , 가 , MESA 가 , 가 .

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- [3] MESA TR 70.002, "Project MESA; Service Specification Group Services and Applications; Definitions, Symbols and Abbreviations," 2002. 11. 14.
- [4] MESA DTR 70.0012, "Project MESA; Technical Specification Group; System Reference Model," 2004. 4.
- [5] ETSI TS 1700 v3.1.1, "Services and Applications; Basic Requirements," 2002. 12.
- [6] Ashley Heienman, TIA APEC TEC 28 Broadband Workshop "Advanced Mobile Broadband Communications for Public Safety Applications," 2003. 10.
- [7] MESA TS 70.001, "Project MESA; Service Specification Group Services and Applications; Statement of Requirements," 2002. 10.
- [8] MESA TR 70.009, "Project MESA; Technical Specification Group; Deployment Strategies," 2003. 7.
- [9] MESA DTR 70.0012, "Project MESA; Technical Specification Group; System Reference Model," 2004. 4.
- [10] Project MESA, "Project MESA: An Update," 2003. 9., www.projectmesa.org



(7) MESA