









laration process)	(federal disaster dec-	6
<ul style="list-style-type: none"> <li>• 가</li> <li>• FEMA 가</li> <li>• FEMA PDA()</li> <li>• FEMA</li> <li>• FEMA</li> <li>• FEMA</li> <li>• FEMA</li> <li>• FEMA</li> </ul>		<ul style="list-style-type: none"> <li>• 1 (1992.1.~1994.): PSTN</li> <li>• 2 (1994.~1996.2.): Telecommuting</li> <li>• 3 (1996.4.~1997.7.): NRIC, 1996 Telecommunications Act256 FCC</li> <li>• 4 (1998.7.30.~1999.): Y2K</li> <li>• 5 (2000.3.~2002.1.6.):</li> <li>• 6 (2002.1.~2004.1.6.): 4</li> </ul>
144~148MHz MHz	, 420~450	Focus Group 1: Homeland Security Focus Group 2: Network Reliability Focus Group 3: Network Interoperability Focus Group 4: Broadband Deployment
4. (Network Reliability and Interoperability Council: NRIC) 1992	FCC(Federal Communications Commission) NRC(Network Reliability Council)	5. (Public Safety Wireless Network: PSWN) 가 PSWN [9].
[8]. NRIC		800MHz
FCC	FCC	• 1928:
FCC		• 1989: APCO Project 25

- 1990:
- 1993: 800MHz
- 1994: LMR TETRA  
( )
- 1996: PSWN
- 1997: Improved multiband excitation(IMBE)  
vocoder . APCO 25
- 1999:  
VoIP
- 2001:  
3

2001 6  
 Low Band VHF(25~50MHz), High Band VHF  
 (138~144/148~174/220~222MHz), UHF(406.1~  
 420/450~470/470~512MHz), 800MHz(806~824/  
 851~869MHz), 700MHz(764~776/794~806MHz)  
 가  
 821~824MHz 866~869MHz  
 800MHz . PSWN  
 ( 1 )



( 1 ) PSWN ( )

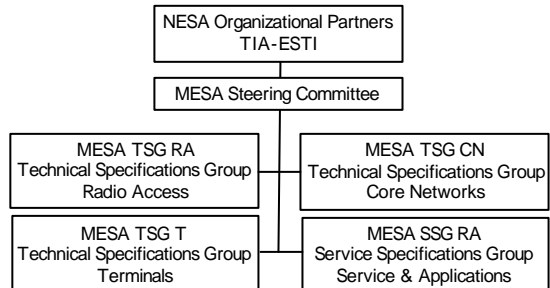
## 6. MESA

MESA(Mobility for Emergency and Safety Applications)

ETSI  
 TIA  
 PSPP(Public Safety Partnership Project)  
 PPA(Public Safety Partnership Agreement)

[10].  
 MESA 2000 5 DC ETSI  
 TIA MESA  
 (PSPP)  
 , 2001 1 MESA  
 MESA

가  
 가  
 가  
 MESA ( 2 ) MESA  
 MESA  
 4  
 MESA (Public Protection & Disaster Relief: PPDR)



( 2 ) MESA



. MESA . SAFECOM

- Law enforcement/Fire fighting
- Homeland security
- Emergency management
- National and international crime and terror investigations
- Emergency and medical services
- Peace-keeping forces
- Airport or facility security and special surveillance
- Sensing and robotics

가  
가  
[11].  
SAFECOM  
가  
가

MESA  
(Statement of Requirements: SoR) Mobile  
Layer 1(PHY) 2Mbps  
MESA IPv4, IPv6 ATM

SAFECOM  
가  
가  
DOJ, DOD, FEMA, USCG, USDA, DOI, Na-  
tional Guard, NTIA가 . SAFECOM

ad-hoc . MESA

, Department of Homeland Security, National  
Communications System, Public Safety Wire-  
less Network(PSWN), FBI, APCO(Association  
of Public-Safety Communications Officials),  
American Red Cross, United Nations Human-  
itarian Relief Section, Project 25-Project 34 and  
ETSI TETRA

가  
700MHz TV 24MHz FCC  
4.9GHz 50MHz

### 7. SAFECOM

1.

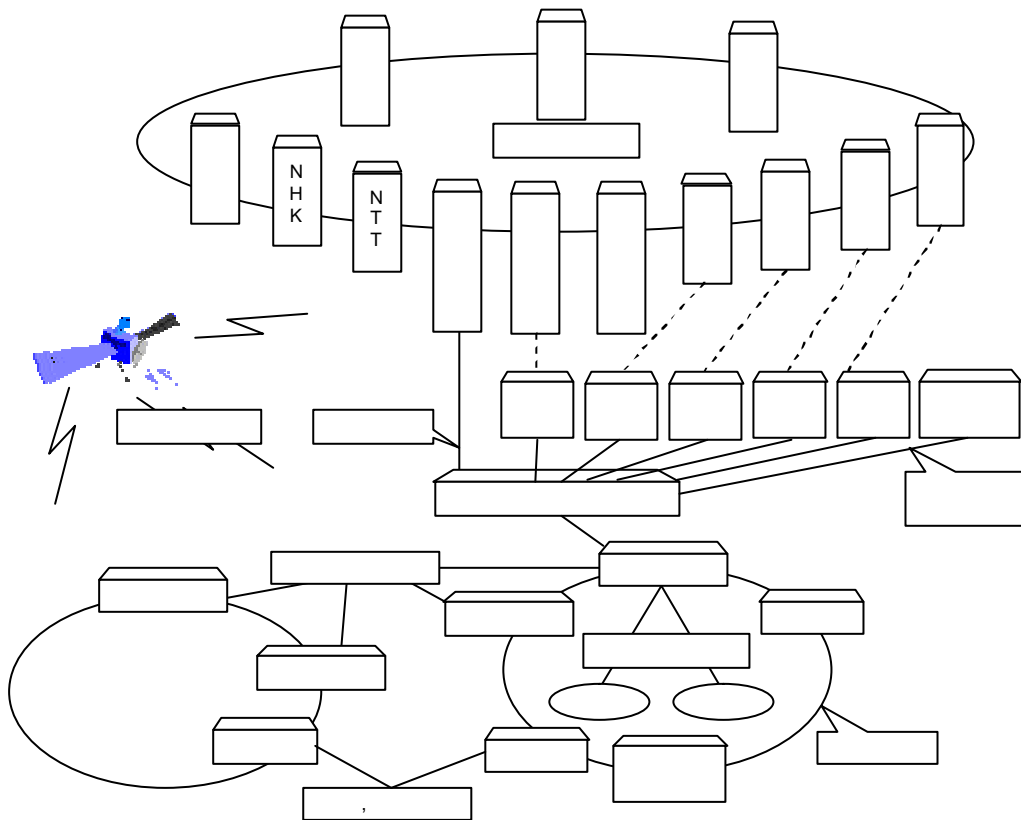
. SAFECOM(Public Safety Wireless Commu-  
nications)

ACA(Australian

Communications Authority) / , 3  
 EMA (Emergency  
 Management Australia)  
 , NSW(New South Wales) 2.  
 GRN(Government Radio Network)  
 가 [12]. , ,  
 EMA , APCO(Association of Public  
 Safety Communications Official)가  
 9.11  
 2  
 Geoscience Australia and the Bureau of Mete-  
 orology  
 [13]. Industry Canada ,  
 EMA , 가  
 , CCDTF(Com- MSAT(Mobile Satellite services)  
 monwealth Counter Disaster Task Force)  
 , , [14],[15].  
 , MSAT 가 Mit-  
 , 450~470MHz 64 subishi ST-A 151 MSAT  
 , net radio  
 가 , MSAT  
 , 2003 3 MSAT  
 420~430MHz 가 MSAT  
 . NSW 가 , (ST151)  
 , MSAT  
 가  
 E-Com(Emergency Communications)  
 British  
 403~470MHz APCOP25 ,  
 GRN (emergency call service) 911  
 000 ,  
 , 911 가  
 가 , ,  
 non-genuine emer- 가 [16].  
 gency service calls CNR  
 (Caller No Response) . (priority access dialing)  
 BT metropolitan police , 가



가 가 [17].  
1964 6 가 , 1968 5  
가 , 1974  
(Combinat)  
가 , 1988  
가 가  
가 가 (MCA 2) , 1990  
( 3)  
가,  
(



( 3)

26 ) (NTT, NHK, 49  
 ), ( 9 , E-911  
 ) ,  
 , (54 ),  
 (87 ), (94 ) ,  
 가 가

54

TV

(CS-3) 가 가 가

V.

. 9.11  
 가

가

NCS FEMA

(PSWN)

, 가 ETSI TIA

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[17] <http://www.tele.soumu.go.jp>