

## INDEX

- A
- Access, 2-1, 2-4--2-7, 2-10, 2-11  
 Mobile, 2-4, 2-10  
 Network, 2-4--2-7, 2-11  
 Static, 2-7  
 Wire subscriber, 2-4, 2-7
- ACSO, 2-3, 4-19, 5-3, 5-4
- ADSO, 4-19, 5-3, 5-4, 5-23, 5-26--5-28
- Airborne corps signal brigade, 4-1--4-4, C-1, C-2
- ALB, 1-1--1-4, 2-2, 2-3  
 Doctrine, 1-1  
 Supporting, 1-1--1-4  
 Tenets of, 1-1, 2-2, 2-3  
 Agility, 1-1, 2-3  
 Depth, 1-1, 2-3  
 Initiative, 1-1, 2-2, 2-3  
 Synchronization, 1-1, 2-3
- AirLand battlefield, 1-1, 1-2, 2-21, 3-1
- AN/GRC-224, 2-10
- AN/MS-25, 5-6
- AN/TRC-170(V), 2-7
- AN/TRC-190(V1--V4), 2-5--2-7, 4-7, 4-8, 4-11
- AN/TRC-191, 2-6, 4-7
- AN/TSC-85A, 2-6
- AN/TSC-93A, 2-6
- AN/TSM-182, 3-8
- AN/TSM-183, 3-8
- AN/TSQ-154, 2-14
- AN/TTC-46, 2-7, 4-8
- AN/TTC-47, 2-5
- AN/TTC-48(V1--V2), 2-7, 4-8
- AN/TYQ-35(V1--V2), 2-11, 2-14
- AN/VRC-97, 2-10, 4-21
- Antenna height, 4-19
- Area,  
 Common-user voice network, 2-4--2-14  
 Communications System Access, 3-3  
 Coverage, 2-4, 2-5, 2-11  
 Support concept, 3-5  
 System use, 3-1
- Army Data Distribution System (ADDS), 2-4, 2-20, 2-21
- B
- Battlefield, 1-1, 1-2, 2-1, 2-16, 2-21--2-23  
 Considerations, 2-21--2-23  
 Dimensions, 1-2, 1-3  
 Electronic CEOI System (BECS), 2-16  
 Functional areas, 2-1  
 Brigade main CP site, A-9
- C
- Cable adjustment settings, F-3--F-8  
 NS to EAC via AN/TRC-151, F-3  
 NS to EAC via AN/TRC-170, F-4  
 NS to EAC via AN/TRC-173/174, F-5  
 NS to EAC via AN/TSC-85A/93A, F-6, F-7  
 NS to NS via AN/TSC-85A/93A, F-8
- Combat Net Radio (CNR), 2-4, 2-15--2-19, 2-21, 3-4, 4-21, 4-22, 4-26, B-3  
 Architecture, 2-15  
 Interface with MSE, 4-22  
 Symbol, B-3  
 System, 2-15  
 Use, 3-4
- Combat service (CS), 3-1--3-9
- Combat service support (CSS), 3-1--3-9
- Communications, 2-1--2-23, 3-1--3-9  
 Architecture, 2-1--2-23  
 CS, 3-1--3-9  
 CSS, 3-1--3-9  
 Terminal (CT), 2-10, 2-11
- Corps, 2-2--2-8, 2-11, 2-12, 2-14--2-18, 2-21, 2-23, 3-1, 3-5, 3-6, 4-1, 4-2, 5-1--5-30, A-6, A-8  
 And division information flow, 5-5  
 Communications assets, 4-1--4-26  
 Communications systems, 2-23  
 Corps main CP using LEN, A-8  
 Messenger service, 2-4  
 MSE battalion engineering net, 2-18

## FM 11-30

MSE battalion command, 2-17  
MSE network, 3-5  
MSE network support, 3-5  
Operations FM net, 2-17  
Redeploying NC, 3-6  
SCC, 2-11, 2-14, 2-21  
SCC site, A-6  
SEN deployment, 2-8  
Signal responsibilities,  
5-1--5-30  
Signal staffs, 5-1--5-30  
Corps area and support signal  
battalion, 5-17--5-20  
Clerk typist, 5-19  
Commander, 5-17--5-20  
Graphics document specialist,  
5-19  
Intelligence NCO, 5-19  
MSE network NCO, 5-19  
NBC NCO, 5-25  
Operations NCO, 5-19  
Radio officer, 5-18  
Signal officer, 5-17, 5-18  
Systems integration officer,  
5-18  
Corps area signal battalion,  
4-4--4-11  
Area signal company, 4-5, 4-6  
Cable/wire section, 4-8, 4-11  
Extension switch section, 4-7  
Extension switch support platoon,  
4-8, 4-10, 4-11  
HHC, 4-5  
Large extension switch section,  
4-8  
Management shelter, 4-8  
NC section, 4-6, 4-7  
NS team, 4-6  
RAU team, 4-7  
Signal support company, 4-8, 4-9  
Transmission system team, 4-8  
Transmission system teams, 4-6  
Wire system team, 4-7, 4-8  
Corps signal brigade, 2-17, 4-1--  
4-4, 5-5--5-17  
Brigade COMSEC office of record,  
5-6, 5-11, 5-12  
COMSEC material management  
supervisor, 5-12  
COMSEC material manager, 5-12  
COMSEC security technician,  
5-11, 5-12  
Technician, 5-12  
Command, 2-17  
Commander, 5-6  
Corps COMSEC office of record,  
5-16  
COMSEC security technician,  
5-17  
Tactical telecommunications  
center operator, 5-17  
Telecommunications senior  
operator, 5-17  
Telecommunications shift  
supervisor, 5-17  
Telecommunications supervisor,  
5-17  
Corps signal office, 5-12  
Assistant corps signal officer,  
5-12, 5-13  
Automation management officer,  
5-13  
CE officer, 5-15  
Chief signal NCO, 5-15  
Clerk typist, 5-16  
Data processing NCO, 5-15  
Data processing technician,  
5-15  
Frequency management NCO, 5-16  
Graphics document specialist,  
5-20  
Networking officer, 5-14  
Operations officer, 5-14  
Operations sergeant, 5-15, 5-16  
Programmer analyst, 5-16  
Radio officer, 5-14, 5-15  
Systems analyst, 5-16  
Systems integration officer,  
5-14, 5-15  
Engineering branch, 5-6, 5-7  
Clerk, 5-9  
Clerk typist, 5-9  
Data processing technician,  
5-7  
Frequency management NCO, 5-8  
Graphics document specialist,  
5-9  
Operations sergeant, 5-8  
Programmer analyst, 5-8  
Radio officer, 5-7

Signal officer, 5-7  
 Systems analyst, 5-8  
 Systems engineer, 5-7  
 TACSAT radio section chief,  
   5-9  
 Telecommunications officer,  
   5-7  
 Traffic engineer, 5-7  
 Traffic officer, 5-7  
 Headquarters, 4-2  
 Headquarters company, 4-4  
 HHC, 4-2, 4-3  
 Network control branch, 4-2, 5-9,  
   5-10  
   Clerk typist, 5-10  
   MSE network controller, 5-10  
   MSE SCC supervisor, 5-10  
   Network officer, 5-10  
   Operations officer, 5-9, 5-10  
   Operations sergeant, 5-10  
   SCC operator, 5-10  
   Telecommunications officer,  
     5-10  
 Operations FM net, 2-17  
 Operations HF net, 2-17  
 Plans/intelligence section, 5-10,  
   5-11  
   Chemical officer, 5-10  
   Chemical operations NCO, 5-11  
   Clerk typist, 5-11  
   Graphics document specialist,  
     5-11  
   Operations NCO, 5-11  
   Plans NCO, 5-11  
   Plans officer, 5-10  
   Senior intelligence analyst,  
     5-11  
 Staff, 5-6  
   Operations/intelligence section,  
     5-6  
 Corps support signal battalion,  
   4-12--4-16  
   Area signal battalion, 4-12  
   Cable/wire section, 4-16  
   EPLRS section, 4-16  
   Extension switch platoon, 4-12  
   Extension switch support platoon,  
     4-12, 4-15  
   HHC, 4-12, 4-13  
   Large extension switch platoon,  
     4-12, 4-14  
   Large extension switch section,  
     4-14  
   Signal support company,  
     4-12--4-16  
   CV-4002, 4-11  
  
   D  
  
 Data terminal symbol, B-3  
 DISCOM, A-11  
 Division, 2-3--2-9, 2-11, 2-12,  
   2-14, 2-15, 2-17, 2-18, 2-20,  
   2-21, 2-23, 4-1, 4-16--4-19,  
   5-1--5-30, A-7, A-10  
   Communications assets, 4-1  
   COMSEC office of record, 5-28  
   COMSEC material management  
     sergeant, 5-29  
   COMSEC material management  
     supervisor, 5-29  
   COMSEC security technician,  
     5-11  
 Deployment, 2-6  
 Extension switch deployment,  
   2-9  
 Main CP site, A-10  
 Maneuver battalion, 2-4  
 Messenger service, 2-4  
 MSE battalion, 2-18  
   Command, 2-18  
   Engineering, 2-18  
 Operations FM net, 2-18  
 Responsibilities, 5-1--5-30  
 SCC, 2-14, A-7  
   Site, A-7  
 Signal battalion, 4-16--4-19  
   ADSO, 5-22, 5-23, 5-25--5-27  
   Division signal support company,  
     4-16, 4-18  
   FM radio retransmission section,  
     4-19  
   General support platoon, 4-16,  
     4-18  
   HHC, 4-16, 4-17  
   Wire section, 4-19  
 Signal office, 5-26--5-28  
   Automation management officer,  
     5-26

## FM 11-30

- Clerk typist, 5-28
  - Data processing NCO, 5-26
  - Data processing technician, 5-26
  - Frequency management NCO, 5-28
  - Operations sergeant, 5-27, 5-28
  - Programmer analyst, 5-26
  - Radio officer, 5-26
  - Signal officer, 5-26
  - Tactical automated network technician, 5-27
  - Telecommunications center operator, 5-28
  - Telecommunications officer, 5-27
  - Telecommunications senior operator, 5-28
  - Signal officer, 5-20--5-23
  - Signal staffs, 5-1--5-30
  - Stand-alone, 5-24, 5-29
  - Staff, 5-23
    - Assistant S3, 5-24
    - Clerk typist, 5-25
    - Intelligence NCO, 5-25
    - MSE network controller, 5-25
    - MSE supervisor, 5-25
    - MSE transmission systems operator, 5-25
    - NBC NCO, 5-25
    - Operations sergeant, 5-25
    - Radio team chief, 5-25
    - SCC operator, 5-25
    - Single-channel radio operators, 5-25
    - Systems integration officer, 5-24, 5-25
    - Tactical automated network technician, 5-25
  - DNVT, 2-10
  - DSVT, 2-10
- E
- EAC interface, 3-1, 3-4
  - Electronic, 3-5, 3-8, D-1
    - Maintenance, 3-5, 3-8
    - Warfare, D-1
  - Employment, 4-19--4-26
    - Characteristics, 4-19--4-26
    - LENS, 4-19
    - MSRT, 4-19
    - NC, 4-19
    - NS, 4-19
    - SCC, 4-19
    - SENS, 4-19
  - Enhanced Position Location Reporting System (EPLRS), 2-20
  - Equipment, 2-1, 2-3, 2-5, 2-7, 2-10, 2-11, 3-8, 4-7, 4-8, 4-11, 4-21, 5-6
    - AN/GRC-224, 2-10
    - AN/MSC-25, 5-6
    - AN/TRC-170(V), 2-7
    - AN/TRC-190(V1--V4), 2-5--2-7, 4-7, 4-8, 4-11
    - AN/TRC-191, 2-6, 4-7
    - AN/TSC-85A, 2-6
    - AN/TSC-93A, 2-6
    - AN/TSM-182, 3-8
    - AN/TSM-183, 3-8
    - AN/TSQ-154, 2-14
    - AN/TTC-46, 2-7, 4-8
    - AN/TTC-47, 2-5
    - AN/TTC-48(V1--V2), 2-7, 4-8
    - AN/TYQ-35(V1--V2), 2-11, 2-14
    - AN/VRC-97, 2-10, 4-21
    - Terminal, 2-6, 2-7
  - Equipment nomenclature, B-5, B-6
    - LEN, B-5
    - MSE support center, B-6
    - NAI, B-6
    - NC, B-5
    - RAU, B-6
    - SCC, B-6
    - SEN, B-5
    - Subscriber terminals, B-6
- F
- Facsimile terminal symbol, B-3
  - Flood search routing, 2-4
  - Fuel, 3-5, 3-7, 3-8
- G
- G1, 5-20
  - G2, 5-20, 5-21
  - G3, 5-21
  - G4, 5-21
  - Gateway switch symbol, B-2

## I

IHFR, 2-15  
 Information, 2-1--2-3  
   Force level, 2-1  
   Management, 2-1, 2-2  
   Mission Area (IMA), 2-3  
     Automation, 2-3  
     Communications, 2-3  
     Printing and publications, 2-3  
     Records management, 2-3  
     Visual information, 2-3  
   Strategic, 2-1  
   Sustaining base, 2-2  
   Theater/tactical, 2-2  
 Interface point or facility symbol, B-4  
 Internodal connectivity, 4-20  
 Interoperability, F-1--F-8

## J

Joint Tactical Information  
   Distribution System (JTIDS), 2-20  
 Junction box symbol, B-3

## L

LDF, 2-10  
 LEN, 2-7, 2-14, 2-17--2-21, 3-1, 3-5, 4-8, 4-21, 5-4, 5-5, A-2, B-1, B-5  
   Nomenclature, B-5  
   Site, A-2  
   Symbol, B-1  
 LENS, 2-7, 2-16, 2-21, 3-1, 3-5, 4-7, 4-8, 4-10, 4-11, 4-14, 4-16, 4-19, 4-20, 4-21, 5-4, 5-17, B-1  
   Symbol, B-1  
 Local switching, 2-7  
 LOS, 4-21  
 LOS multichannel radio link symbol, B-3

## M

Meeting the Challenge for Victory, 1-4  
 Messenger service, 2-4

Mobile Subscriber Equipment (MSE), 2-3--2-7, 2-10, 2-11, 2-14--2-23, 3-5, B-1--B-6  
   Company command, 2-18  
   Corps, 2-18, 2-19, 3-5  
     Battalion command, 2-18  
     Battalion engineering net, 2-18  
     Network support, 3-5  
   Division, 2-18  
     Battalion command, 2-18  
     Battalion engineering net, 2-18  
   Engineering net, 2-18  
   Equipment nomenclature, B-1--B-6  
   Extended C<sup>2</sup>, 2-22  
   Functional areas, 2-1, 2-2, 2-4, 2-5  
   Interoperability with EAC, F-1--F-8  
   Packet Network (MPN), 2-21  
   Signal support engineering net, 2-19  
   Site deployment, A-1--A-11  
   Support equipment nomenclature, B-6  
   Support of a rear CP, 3-5  
   Symbology, B-1--B-6  
 Mobile subscriber interface, 4-25  
 MOSs, 5-7--5-20, 5-23--5-30  
   25B, 5-7, 5-10, 5-14, 5-24, 5-26, 5-27  
   25C, 5-8, 5-10, 5-14, 5-15, 5-17--5-20, 5-24, 5-25  
   25D, 5-7  
   25E, 5-7, 5-9, 5-10, 5-12, 5-14, 5-23, 5-26  
   25Q, 5-9, 5-11, 5-16, 5-20  
   250A, 5-11, 5-17, 5-29  
   250B, 5-25, 5-27  
   251A, 5-7, 5-27  
   251A0, 5-15, 5-26  
   31C, 5-25  
   31D, 5-25  
   31F, 5-10, 5-25  
   31W, 5-8, 5-10, 5-11, 5-15, 5-16, 5-19, 5-25, 5-27, 5-28  
   31Y, 5-9  
   53C, 5-13, 5-14  
   54B, 5-11, 5-19, 5-25  
   71L, 5-9, 5-10, 5-11, 5-16, 5-19, 5-25, 5-28  
   72E, 5-12, 5-17, 5-28  
   74B, 5-10, 5-11  
   74F, 5-8, 5-16, 5-26, 5-28  
   74Z, 5-15, 5-26, 5-28  
   96B, 5-11, 5-19, 5-25

## FM 11-30

Movement to support a subordinate division, 3-7  
MSRT, 2-10, 2-13, 3-1, 4-19, 4-21  
Affiliation, 2-11, 2-13  
Symbol B-3  
Multichannel LOS radio relay symbol, B-2  
Multichannel LOS radio symbol, B-2  
Multipair circuit or cable symbol, B-4

### N

Nato Analog Interface (NAI), 3-8, 4-11, 4-15, 4-19, 4-21, 4-24, B-6  
Converters, 4-11, 4-15  
Deployment at an NS, 4-24  
Nomenclature, B-6  
/MSE interface using LOS(V2), 4-24  
Net radio interface (NRI), 2-16, 4-21, B-3  
Facility symbol, B-3  
Network, 2-1, 2-2, 2-4--2-7, 2-10, 2-11, 2-14, 2-15, 2-17, 2-21  
Access, 2-4--2-7, 2-11  
Control, 2-11, 2-14  
Defense switching, F-1  
Node Center (NC), 2-5, 2-6, 2-13, 2-14, 2-20, 2-21, 3-1, 3-5--3-8, 4-5--4-8, 4-19, 4-21, 4-26, 5-5, 5-17, 5-19, A-1, B-1, B-5  
Nomenclature, B-5  
Site, A-1  
Symbol, B-1  
Node Center Switch (NS), 2-5--2-7, 2-14, 4-4, 4-6, 4-7, 4-19, 4-21, 4-24, 5-3  
Node Management Facility (NMF), 2-5, 2-14, 5-1  
Non-MSE communications interfaces, F-1

### O

Operations, 1-2, 1-3, 2-1, 2-2, 2-4--2-7, 2-11, 2-14, 2-17, 2-18, 2-20, 2-21, 2-23  
ALB, 1-2, 1-3  
Close, 1-2, 1-3, 2-21, 2-23  
Deep, 1-2, 1-3, 2-16, 2-21, 2-23  
Rear, 1-2, 1-3, 2-21, 2-23

### R

Radio link symbol, B-3  
Radio Access Unit (RAU), 2-5, 2-6, 2-10--2-12, 2-17, 3-5, 3-8, 4-6--4-11, 4-14, 4-16, 4-19, 4-21, 5-4, 5-5, 5-17, A-5, B-2, B-6  
Deployment, 2-12  
Nomenclature, B-6  
Rations, 3-7  
Rear CP, 2-4, 2-21  
Remote site, A-5  
Symbol, B-2  
RMC, 4-20, 4-21  
RT-1539(P)/G, 2-10

### S

Signal security, 4-21  
Signal support companies command, 2-19  
SINGGARS, 2-15, 2-16  
Replacement plan, 2-16  
Small Extension Node (SEN), 2-7, 2-8, 2-17, 2-21, 3-1, 3-5, 5-4, 5-5, A-3, A-4, B-1, B-5  
Nomenclature, B-5  
Symbol, B-1  
(V1) site, A-3  
(V2) site, A-4  
Small Extension Node Switch (SENS), 2-7, 2-16, 2-21, 3-1, 3-5, 4-7, 4-8, 4-10, 4-11, 4-14, 4-15, 4-19, 4-21, 5-4, 5-5, 5-17, B-2  
Symbol, B-2  
Stand-alone division, 5-28  
Standardized MSE CP configurations, E-1--E-7,  
Corps signal brigade level 1, E-2

Corps signal brigade level 2,  
   E-3  
 Heavy division signal battalion  
   level 1, E-4  
 Heavy division signal battalion  
   level 2, E-5  
 Light airborne, air-assault,  
   division signal battalion  
   level 1, E-6  
 Light airborne, air-assault,  
   division signal battalion  
   level 2, E-7  
 Static access, 2-7, 2-10  
 Subscriber terminal nomenclature,  
   B-6  
 Super High Frequency (SHF), 2-10,  
   3-3, 4-23  
   Radio link, 4-23  
   Radio link symbol, 3-3  
 Switched Communications System,  
   2-4  
 Symbols, B-1--B-6  
   CNR, B-3  
   Data terminal, B-3  
   Facsimile terminal, B-3  
   Gateway switch, B-2  
   Interface point or facility, B-4  
   Junction box, B-3  
   LEN, B-1  
   LENS, B-1  
   Multichannel LOS radio, B-2  
   Multichannel LOS radio relay, B-2  
   Multipair cable, B-4  
   Multipair circuit, B-4  
   MSRT, B-3  
   NC, B-1  
   NRI facility, B-3  
   Radio link, B-3  
   RAU, B-6  
   SENS, B-2  
   Telephone terminal, B-3  
   Teletype terminal, B-3  
   Thirty 4-wire, B-4  
   Wire line/cable link, B-3  
   2-wire circuit, B-4  
   4-wire circuit, B-4  
 Synchronization, 1-1, 3-1  
 System Control Center (SCC), 2-11,  
   2-14, 2-21, 3-8, 4-2, 4-4, 4-16,  
   4-19, 4-21, 4-26, 5-1--5-5, 5-7,  
   5-9, 5-10, 5-17, 5-25, 5-30, A-6,  
   A-7, B-2, B-6  
   Control, 5-1  
   Corps, 2-11, 2-14, A-6  
     Site, A-6  
   Division, 2-14, A-7  
     Site, A-7  
   Information flow, 5-3--5-5  
   Key battle information, 5-3  
   Management responsibilities, 5-2  
   Nomenclature, B-6  
   Responsibilities, 5-1, 5-2  
   Symbols, B-2  
     Alternate, B-2  
     Primary, B-2  
 Systems, 2-1--2-15, 2-18, 2-19--  
   2-21, 2-23  
   Area common-user voice network,  
     2-4--2-14  
   Army Data Distribution (ADDS),  
     2-14, 2-20, 2-21  
   Army Tactical Command and Control  
     (ATCCS), 2-1, 2-2  
   Army Tactical Communications  
     (ATACS), F-1  
   Automated C<sup>2</sup>, 2-1  
   Battlefield Automated C<sup>2</sup> (BAS),  
     2-21  
   Battlefield Electronic CEOI  
     (BECS), 2-16  
   Combat Net Radio (CNR), 2-4,  
     2-15--2-19  
   Control, 2-1  
   Electromagnetic, 2-3  
   Enhanced Position Location  
     Reporting (EPLRS), 2-20  
   Information, 2-1, 2-2  
   Joint Tactical Information  
     Distribution (JTIDS), 2-20  
   SINGARS, 2-15, 2-16  
   Switched Communications, 2-4

## FM 11-30

### T

TACFIRE, 2-20  
TD-1234, 2-7, 4-8, 4-20, 4-21  
Telephone terminal symbol, B-3  
Teletype terminal symbol, B-3  
Thirty 4-wire symbol, B-4  
TSEC/KY-68, 2-10, 4-21  
TSEC/KY-90, 4-21  
Typical MSE Site Deployment, A-1--  
A-11  
Brigade main CP site, A-9  
Corps SCC site, A-6  
Corps main CP using LEN, A-8  
DISCOM site, A-11  
Division SCC site, A-7  
Division main CP site, A-10  
LEN site, A-2  
NC site, A-1  
Remote RAU site, A-5  
SEN(V1) site, A-3  
SEN(V2) site, A-4

### V

VHF, 2-10, 2-15, 2-16, B-3, E-1  
Victory, 1-4

### W

Wire line/cable link symbol, B-3  
2-wire circuit symbol, B-4  
4-wire circuit symbol, B-4