

APPENDIX B

MSE Symbology and Equipment Nomenclature

B-1. MSE Symbology

The following represents common NATO (STANAG 5042) symbology used to standardize MSE system architectural drawings.



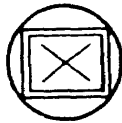
NODE CENTER

Trunk NC (triangle with an X for digital) and multichannel LOS connectivity (circle). Used on multichannel diagrams. Site designator is placed within



NODE SWITCH

The NS alone in a switching diagram would be represented by a triangle with an X for digital. Used on switching diagrams. Site designator is placed within symbol.



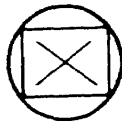
LARGE EXTENSION NODE

Trunk LEN (two concentric rectangles with an X for digital) and LOS connectivity (circle). Used on multichannel diagrams. Site designator is placed within symbol.



LARGE EXTENSION NODE SWITCH

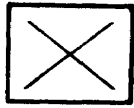
Trunk LENS (two concentric rectangles with an X for digital). Used on switching diagrams. Site designator is placed within symbol.



SMALL EXTENSION NODE

Trunk SEN (rectangle with an X for digital) and LOS node connectivity (circle). Used on multichannel diagrams. Site designator is placed within

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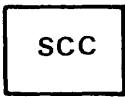
SMALL
EXTENSION
NODE
SWITCH

Trunk SENS (rectangle with an X for digital). Used on switching diagrams. Site designator is placed within symbol.



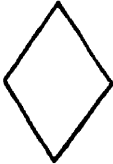
SYSTEM
CONTROL
CENTER
(PRIMARY)

The primary SCC deploys at corps/division. Used to control MSE network and connects directly into the NS or LENS. Site designator is placed within symbol.



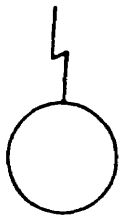
SYSTEM
CONTROL
CENTER
(ALTERNATE)

The alternate SCC deploys at corps/division. Used to assist primary SCC. Site designator is placed within symbol.



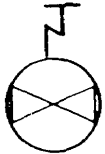
GATEWAY
SWITCH

MESSAGE or CIRCUIT switch represented by a diamond. The GATEWAY switch provides connectivity between the following: network to network, corps to corps, theater to corps, DSN, AUTODIN, DCO, NATO, or commercial. The switch type and PRSL or RI are placed in the diamond.



RADIO
ACCESS UNIT

Multichannel/single-channel transmitter/receiver telephony (discrete address) operation.



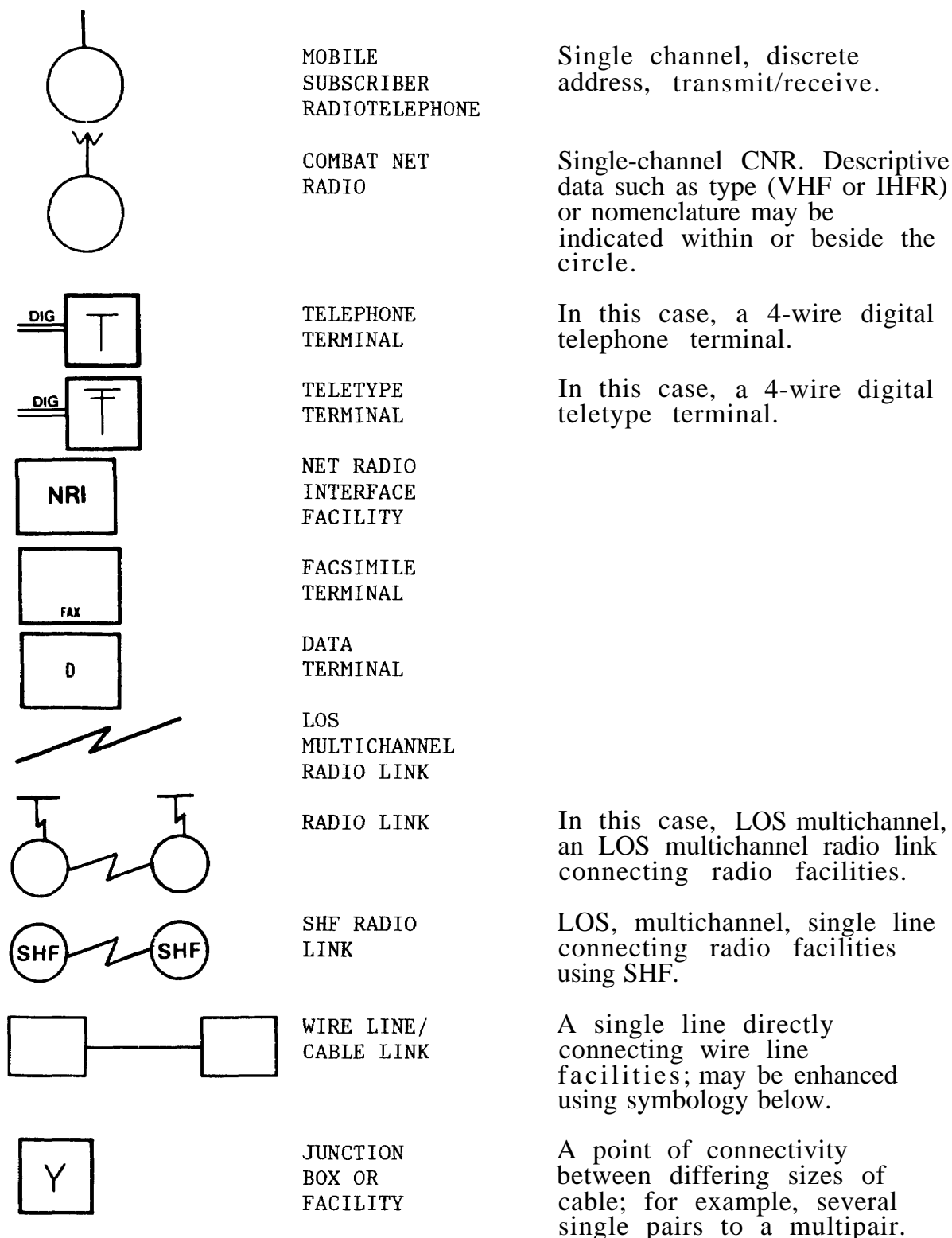
MULTICHANNEL
LOS RADIO
RELAY

Descriptive data may be indicated within the circle; for example, number of radio stacks in the assemblage or frequency band.

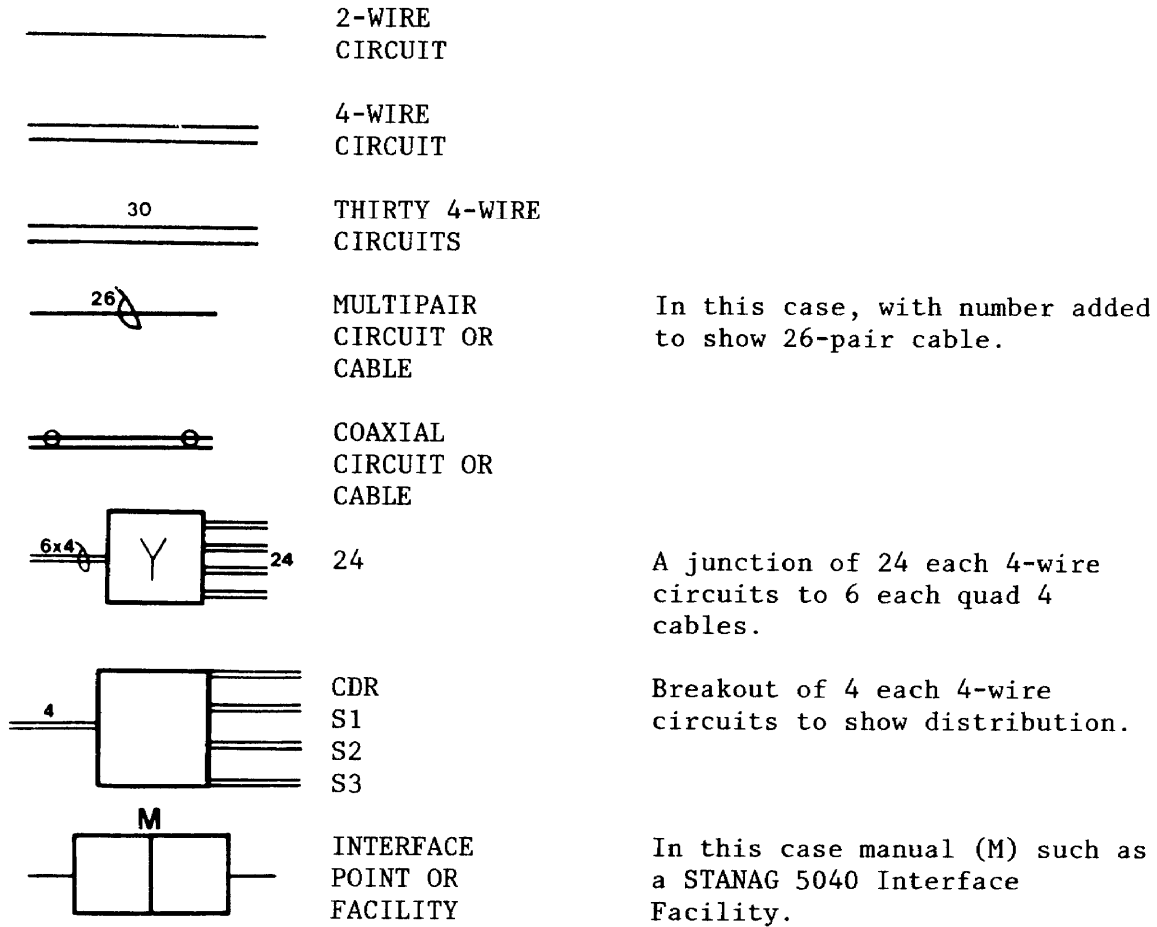


MULTICHANNEL
LOS RADIO

Descriptive data may be indicated within the circle; for example, number of radio stacks in the assemblage or frequency band.



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B-2. Equipment Nomenclature

Table B-1 shows MSE system equipment nomenclature.

Table B-1. Equipment nomenclature.

	<p>NODE CENTER (NC)</p> <p>Node Switch (NS)</p> <ul style="list-style-type: none"> ●Operations Group ●Switching Group ●Distribution Box ●Antenna, 30 Meter** <p>LOS Multichannel Radio Terminal, (LOS (V3))</p> <ul style="list-style-type: none"> ●Radio Set, LOS (UHF) ●●Antenna, 15 Meter ●Radio Set, SHF* (Optional) ●●Antenna, 9 Meter* (Optional) <p>Radio Access Unit (RAU) (Local)</p> <ul style="list-style-type: none"> ●Radio Set, VHF ●●Antenna, Omnidirectional, 15 Meter <p>Node Support Vehicle (NSV)</p> <p>Node Management Facility (NMF)</p> <p>*May be Located in NS Operations Shelter (Optional)</p> <p>**Available for Use at LOS Sites</p>	<p>AN/TTC-47 OL-413/TTC-47 ON-306/TTC-47 J-1077 AB-1340/G AN/TRC-190(V3) AN/GRC-226 AB-1339/G AN/GRC-224(P) AB-1342/G AN/TRC-191 RT-1539(P)/G AS-3886</p> <p>AN/TSQ-154</p>
	<p>LARGE EXTENSION NODE (LEN)</p> <p>Large Extension Node Switch (LENS)</p> <ul style="list-style-type: none"> ●Operations Group ●Switching Group <p>LOS Multichannel Radio Terminal (LOS (V4))</p> <ul style="list-style-type: none"> ●Radio Set, LOS (UHF) ●●Antenna, 15 Meter ●Radio Set, SHF* (Optional) ●●Antenna, 9 Meter* (Optional) ●●1-TSEC/KY-90 (SDNRI)* (not provided for all assemblages) <p>LEN Cable, Vehicle</p> <ul style="list-style-type: none"> ●Remote Multiplexer Combiner (RMC) ●Distribution Box <p>Node Management Facility (NMF)</p> <p>*May be Located in LENS Operations Shelter (Optional)</p>	<p>AN/TTC-46 OL-412/TTC-46 ON-305/TTC-46 AN/TRC-190(V4) AN/GRC-226 AB-1339/G AN/GRC-224(P) AB-1342/G</p> <p>TD-1234 J-1077 AN/TSQ-154</p>
	<p>SMALL EXTENSION NODE (SEN)</p> <ul style="list-style-type: none"> ●Small Extension Node Switch (SENS) ●Switchboard ●Distribution Box <p>LOS Multichannel Radio Terminal (LOS (V1))</p> <ul style="list-style-type: none"> ●Radio Set, LOS (UHF) ●●Antenna, 15 Meter ●Radio Set, SHF* (Optional) ●●Antenna, 9 Meter* (Optional) ●●1-TSEC/KY-90 (SDNRI)* (not provided for all assemblages) <p>SEN Support Vehicle</p> <p>*May be Located in SENS (Optional)</p>	<p>AN/TTC-48 (V1 & V2) SB-4303 J-1077 AN/TRC-190 (V1) AN/GRC-226 AB-1339/G AN/GRC-224(P) AB-1342/G</p>

Table B-1. Equipment nomenclature (continued).



RADIO ACCESS UNIT (RAU) - REMOTE		
Radio Access Unit (RAU) <ul style="list-style-type: none"> ● Radio Set (VHF) <ul style="list-style-type: none"> ●● Antenna, Omnidirectional, 15 Meter LOS Multichannel Radio Terminal (LOS (V1)) <ul style="list-style-type: none"> ● Radio Set, LOS (UHF) <ul style="list-style-type: none"> ●● Antenna, 15 Meter RAU Support Vehicle	AN/TRC-191 RT-1539(P)/G AS-3886 AN/TRC-190(V1) AN/GRC-226 AB-1339/G	
SUBSCRIBER TERMINALS		
Mobile Subscriber Radiotelephone Terminal (MSRT) <ul style="list-style-type: none"> ● Radio Set, (VHF) ● Digital Subscriber Voice Terminal (DSVT) Digital Nonsecure Voice Telephone (DNVT) Lightweight Digital Facsimile (LDF)	AN/VRC-97 RT-1539(P)/G TSEC/KY-68 TA-1035/U AN/UXC-7	
SCC	SYSTEM CONTROL CENTER (SCC)	
	System Control Center, Corps and Division <ul style="list-style-type: none"> ● Planning Shelter (Corps Only) ● Technical Shelter ● Management Shelter 	AN/TYQ-35 OL-414/TYQ-35 OL-415/TYQ-35 OL-416/TYQ-35
NATO ANALOG INTERFACE (NAI)		
Converter, NATO Analog Interface (NAI) LOS Multichannel Radio Terminal (LOS (V2)) <ul style="list-style-type: none"> ● Radio Set, LOS (UHF) <ul style="list-style-type: none"> ●● Antenna, 15 Meter 	CV-4002 AN/TRC-190(V2) AN/GRC-226 AB-1339/G	
MSE SUPPORT EQUIPMENT		
Maintenance Facility Spares Facility Shelters, S-250/G and S-250/E High Mobility Multipurpose Wheeled Vehicle (HMMWV) Diesel Generator, 5 kW Diesel Generator, 10 kW Trailer, Cargo	AN/TSM-182 AN/TSM-183 PU-751 PU-753	