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=== ROUTING INDICATOR GUIDE - version 6.0 ===

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Text: Ary Boender (e-mail: ary@luna.nl)  
Database management: Paolo Romani (e-mail: via ary@luna.nl)

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Research:

ACPs (Allied Communication Plans) 117, 121, 124, 127 & 176  
Federal Standard document FS-1037C  
Radio Navigational Aids and National Regulations  
Worldwide Utility News Club  
Popular Communications  
Frequency Manager (Ing. buro fuer Satellitentechnik)  
Spezial Frequenzliste (Siebel)  
Confidential Frequency List (PWP)  
Monitoring Times  
RTTY Listener  
Grove's SW Directory  
Various US Navy MARS web sites  
NATO SFOR Home Page

Note:

We tried to make this list as complete as possible. Comments, additions or corrections are most welcome. Please send us new routing indicators whenever you log them so that we can maintain the database properly. The database is maintained in dBaseIII and is compatible with Access. The current edition of the database includes over 12,000 Routing Indicators. WUN members who want a copy of the database may download it from the WUN website [www.wunclub.com](http://www.wunclub.com). It is updated regularly.

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INTRODUCTION.

This document handles the basic NATO-message-format, a standardised form for all traffic between NATO-units, commands, stations and services.

Also covered are other formats and lots of related items, such as routing indicators, MARS routers, and broadcast designators.

Because automation became more and more important it was necessary to standardize the form of the messages and the addresses of all parties so that the traffic could be processed by using self-correcting computer-telex-nets.

Please note that the general 'rules' mentioned here do not always apply to all NATO nations. The codes used for the delivery times of messages appear to differ in the various countries. Another difference is the meaning of the 3rd and 4th letter in the routing indicator. Many countries are using the 3rd letter to indicate where the action is. The French are using the 4th letter to indicate the 'owner' of the link, i.e. navy, air force, etc.; other countries do not. Remember this when you copy this kinda traffic.

Because of the automation, the routing indicators (RIs) will eventually disappear. They are being replaced by IP-like addresses. Luckily there are still countries who are using the 'old' RI system on short wave. The French military are well known for this.

Besides the NATO countries (North Atlantic Treaty Organization) also the SEATO countries (South East Asian Treaty Organization) are using the same RIs and message codes as do Australia and New Zealand.

NATO members: Belgium, Canada, Czech Republic, Denmark, France, Germany, Greece, Hungary, Iceland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Spain, Turkey, United Kingdom and United States.

SEATO members: Brunei, Indonesia, Malaysia, Philippines, Singapore, Thailand, Vietnam.

ANZUS members: Australia, New Zealand, USA.

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ROUTING INDICATORS

Extract from document FS-1037C:  
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ROUTING INDICATOR (RI):

1. A group of letters assigned to indicate:
    - (a) the geographic location of a station;
    - (b) a fixed headquarters of a command, activity, or unit at a geographic location; and
    - (c) the general location of a tape relay or tributary station to facilitate the routing of traffic over the tape relay networks.
  2. In a message header, an address, i.e., group of characters, that specify routing instructions for the transmission of the message to its final destination. Note: Routing indicators may also include addresses of intermediate points.
- 

A very important part of a message is the ROUTING INDICATOR (RI). There are RIs in each message. A RI shows the destination of a message in a telex-network. They contain information about the sender and receiver like the country of origin and operational area. A typical RI consists of 4 to 9 characters. They are used to speed up the routing of a message. Example: The HMS VINCINITY has a message for a state side station. The radio operator puts the message in a standard format and uses a RI for the correct address. He then transmits it to the nearest land station, say Faslane. The radio-managing-system at Faslane "reads" the message-RI and sends it automatically to the right station; via a computerized telex-network.

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Another example: we have a message that originates from RFFDEA and has destination RFTJABC. The message is sent by telex to the next main net-point, being RFFD (origin = RFFDEA). The computer at this net point reads the recipient's RI (RFTJABC) and sends it to their main net point RFTJ. Then the computer reads the next letter of the RI RFTJ\_A\_ and delivers the message to regional net point RFTJA. The message will automatically be forwarded to the next nodes till it finally reaches its destination. This example is the most ideal situation. The system works with a terrestrial computerized telex network which is slightly different from the situation on HF. On HF the RIs act more as a selcall. The RI triggers the computer of the recipient or the computer of the communications center that is responsible for the delivery of the message.

Note that there is a difference between a RI and the ADDRESSEE. Example: 'TO RUCOCGA/COMCOGARDON 44', where RUCOCGA is the RI and 'COMCOGARDON 44' is the ADDRESSEE.

It is not unusual for one Routing Indicator to have multiple addressees. For example, RFLIC is MARINE FORT DE FRANCE. Some other addressees that have used RFLIC are:

- COMAR FORT DE FRANCE
- COMSUP FORT DE FRANCE
- MAIN FORT DE FRANCE
- MARINE SERTIM FORT DE FRANCE
- SERNAV FORT DE FRANCE
- BATIMENT "JULES VERNE"
- UNIMAR FORT DE FRANCE

It is only logical that the main communications center at the naval base also handles traffic for other units stationed there as well.

ROUTING INDICATORS EXPLAINED  
=====

A routing indicator consists of 4 to 7 characters.

- a. FIRST LETTER - The letter "R" is designated as the common first letter to distinguish world-wide routing indicators from call signs, address groups and theater routing indicators.  
  
First letter codes used are:  
P = Reserve tactical station  
Q = Reserve strategic station  
R = Strategic station  
U = Tactical station
- b. SECOND LETTER - The second letter identifies the nation, service, or international alliance to which allotted, as reflected in the Routing Indicator Delineation Table, ACP 121.
- c. THIRD LETTER - The third letter normally indicates the geographical area in which a station is located or from which it is served. Within U.S. communications networks the third letter does not necessarily reflect the geographical area. Due to the shortage of routing indicators in some areas and abundance in other areas, assignments are made irrespective of geographical area, particularly for dedicated network major relay stations and dual access tributary stations.
- d. FOURTH LETTER - This letter position serves a dual purpose as follows:  
1. Indicates major relay stations, as generated by assignment requirements.  
2. Identifies the service or other national /

international entity, as shown in the table.

Example: RFTLJFA (French Navy, Praia, Cape Verde)  
 Type of station : R = Strategic  
 Country of origin : F = France  
 Operation area : T = Northwest Africa  
 Service : L = Navy  
 Unit : JFA

e. FIFTH AND FOLLOWING LETTERS

These letters and positions, when added to the four letters of a major relay routing indicator, designate the minor relay or tributary stations of that major relay station. The letter "C" and all two-letter combinations "CA" through "CZ" are reserved for suffixes to relay station routing indicators. A meaning is prescribed for each authorized suffix. Suffixes are intended to aid the routing of messages for processing purposes or localized action by the relay station or any of its supplementary sections and facilities. The use of these suffixes for intra-network messages is optional but they are not authorized for use on joint or combined messages unless shown in the routing columns of the encode sections of the ACP 117 Series, Allied Routing Indicator Book. The meanings of authorized suffixes are as follows:

- C - Local delivery or refile in page form is required. (Used to designate the entire terminal section or the principal tributary station of a relay station.)
- CA - National use, optional.
- CF - Section which accomplishes delivery of traffic by broadcast methods.
- CI - Section which coordinates routing information.
- CM - Section which prepares tape copies for retransmission.
- CN - Electrical conference facility or section.
- CP - Circuit/facility control point
- CR - Crypto center.
- CS - Section dealing with service messages.
- CT - Section which accomplishes delivery of traffic by telephone.
- CU - Section which accomplishes delivery of traffic to commercial carriers.
- CW - Section which relays traffic by radio telegraph (CW).
- CX - Section which uses tape relay methods for delivery of traffic to activities served by a military or commercial teletypewriter exchange system.
- CY - National use, optional.

ROUTING INDICATOR TABLE

First position:	Second position: Nation or Intl Alliance if "R" in 1st position	Third position: Geographical Area	Fourth position: Service
A	Australia	Eastern Asia	Army
B	United Kingdom		Army
C	Canada	Central North America	Army
D	Denmark	United Kingdom, Iceland	Army
E		Eastern North America	Army
F	France	Continental Europe	Army
G	Germany	Continental Europe	Army
H	USA	Central South Pacific	Army
I	Italy		Navy
J	Reserved for National Reallocation		
K	Greece	Alaska, Aleutian Islands	Navy
L	Luxembourg	Caribbean, South America	Navy

		WUN-str08	
M	SEATO	Philippines, Thailand	Navy
N	Netherlands		Navy
O			Navy
P	Portugal		Air Force
Q	Reserve Belgium	Middle East	Air Force
	World-wide Routing Indicator		
R	World-wide Routing Indicator		Air Force
S	South Africa	Western Asia	Air Force
T	Turkey	Northwestern Africa	Air Force
U	Theater Routing Indicator	United States	Air Force
V		South Africa	Air Force
W	NATO	Western North America	Others
X	NATO		Others
Y	Norway	New Zealand, Australia	Others
Z	New Zealand		Others

Additional info:

- o France: the French naval bases are located in
  - Cherbourg (Channel command base) = RFFJ
  - Brest (main Atlantic base) = RFFK
  - Lorient (Atlantic submarine base) = RFFN
  - Toulon (Mediterranean command base) = RFFL
  - Papeete, Tahiti (refitting base) = RFHJ
  - Fort-de-France, Martinique = RFLI
  - Noumea, New Caledonia = RFHI
  - Cayenne, French Guiana = RFLIG
  - Saint Denis, Reunion = RFVI

note: France has permanent naval contingents in Djibouti (RFQP) and other countries using the local facilities. The same applies for army and air force contingents and the UN detachments.

- o French naval vessels:
  - There are a few rules, who are -again- not always followed. Officially, a RI for a vessel on the high seas consists of 3 parts;
  - 1) RI of the nearest base
  - 2) the letter 'M' for 'Mer' (= French for 'sea')
  - 3) a suffix of 3 letters (see appendix 3)

Example: RFVIMJVN Jules Verne; RFVI = Reunion, the base that has to relay the message to the ship. M = mer/sea. JVN = the suffix of FS Jules Verne. When a vessel anchored in a port, it has to be addressed without the 'M'; i.e. RFVIJVN Jules Verne. As I said, this rule is not always followed and 2-letter suffixes have been noted as well as group-suffixes. Another common practice when sending traffic to more than one vessel, is to specify the address indicator for the first ship only. For example: RFLIGJVN JULES VERNE FRANCIS GARNIER MARNE ORAGE. (RFLIG is Cayenne).

On many occasions, French traffic actually contains the word BATIMENT (ship in French) before the name of the vessel. If several vessels are cited in the message, the plural BATIMENTS may be used. Transmissions originating from Fort de France or Cayenne often use the following phrase: TOUS BATIMENTS EN ZONE PETITES ANTILLES (All vessels in the the Lesser Antilles zone). A common misconception among many monitors is that "ALINDIEN" is the name of a French naval vessel. Actually, it is a contraction used to identify French Forces in the Indian Ocean. Hence the phrase "BATIMENTS ALINDIEN" is intended as a general routing message to all French naval vessels operating in the Indian Ocean.

- o SYRACUSE:
  - Like 'ALINDIEN', also 'SYRACUSE' is often mentioned as the name of a

vessel. It is however a satellite system. A typical address may look like this 'TOUS BATIMENTS CECMED SYRACUSE'.

As we already know, 'TOUS BATIMENTS' means 'all ships', while 'CECMED' means 'Commande Et Controle, MEDiteranee' and 'SYRACUSE' is 'Systeme de Radio Communication Utilisant un Satellite' (Radio Communication System utilizing a Satellite).

It is the name of the French Ministry of Defence satellite system. The space segment of the system employs transponders carried on French Telecom satellites. The ground segment comprises fixed stations within France, together with mobile, transportable and shipborne stations. Data is encrypted for link security and the satellite is accessed using the code-division multiple access technique.

o USA / Canada:

The Americans and Canadians compose the RIs in a slightly different way. The first two character are used in the same way as other countries do.

The 3rd and 4th characters are unique routers assigned by the master station; they are more or less permanent. The US forces are using an automatic routing system called NAVCOMPARS (NAVAL COMPUTER AUTODIN ROUTING SYSTEM) or NOVA which does all of the necessary switching. If you see a message route that ends in "SUU" that is the routing indicator for NAVCOMPARS. It says in effect 'I don't know the distant end's routing indicator, you look it up.' Messages to navy vessels are usually sent to RULYSUU. Group-RIs have been noted, they are probably used when the messages are destined to all vessels in a squadron.

o US naval vessels:

The US Navy also adds a suffix to the RI for naval vessels. Here too collective RI-groups are quite common, either a 'special' suffix is being used, or the suffix of one vessel is used for all the vessels in a squadron. I must add, that the use of 'special' suffixes seems to be more popular than the 'recognizable' ones.

Examples:

RHCF\_MCC USNS ALBERT J. MYER / PATRIOT / CHAMPION  
RHPB\_SWG USS STEPHEN W. GROVES

MESSAGES FORMATS AND CODES:

Each standard message consists of so-called 'format lines' (FL). There are 16 of those format lines possible. There is a difference between the format lines in a CW and a RTTY message. An example:

```
VZCZCEAD035
PP RGFDEA RGFBJ
DE RGFDEACF 4711 0051245
ZNR UUUUU
PR 051231Z JAN
FM FGS ROMMEL
TO RGFDEA/NAVCOMMCEN WILHELMSHAVEN
INFO RGFBJ/2(GE)DESSQN
BT
UNCLASS
SIC SVC
MSGNR 4711
INT ZDK X21E 421/429/447/449/450
BT
(8 empty lines)
NNNN
```

This message simulates traffic from FGS Rommel to NavCommCen wilhelmshaven via RTTY. So, how can we translate this stuff ???

FL-1 This line contains the start up-procedure for telex-networks. If a message is sent via HF it contains information of the message's classification.

- FL-2 PP RGFDEA RGFBJ: These are the RIS of the addressees. PP means that this is a PRIORITY-message.
- FL-3 DE RGFDEACF 4711 0051245: RGFDEACF means that the originator is copying DHJ59 HF-frequencies. 4711 is the originator's message number, 0051245 is the julian date and time-group (DTG), the so called filing time.
- FL-4 ZNR UUUUU: Security-advice. There are five classifications:  
 ZNR UUUUU is used for unclassified messages  
 ZNY RRRRR for restricted messages  
 ZNY CCCCC for confidential messages  
 ZNY SSSSS for secret messages  
 ZNY TTTTT for top secret messages
- FL-5 PR 051231Z JAN: Here are the priority codes again. Four priority codes can be used to indicate the time of delivery: R,P,O,Z. (R=routine, 24 hours of delivery, P=priority, 1-6 hours, O=immediate, 30-60 minutes, Z=flash, not longer than 10 minutes). 'To' and 'Info' addresses often have different priority codes. Following is the DTG in ZULU-time (Z). The DTG consists of DDHMMZ MONTH. Zulu means time at time zone ZULU (equals GMT/UTC).
- FL-6 FM FGS ROMMEL: From-line, indicates the originator of the following message.
- FL-7 TO RGFDEA/NAVCOMMCEN WILHELMSHAVEN: Action addressee.
- FL-8 INFO RGFBJ/2(GE)DESSQN: Information-addressee (2nd German destroyer-squadron)
- FL-11 BT, separates the address-part (FL 1 - 10) from the message-index (FLs 12 a - g).
- FL-12 a) UNCLASS: Unclassified message (often clear text)  
 b) SIC SVC: SIC-code, SVC = Service, for radio operators.  
 c) MSGNR 4711: originator's message number  
 g) INT ZDK X21E 421/429/447/449/450: Message-text. FGS ROMMEL requests DHJ59 to repeat transmission of X21E-messages 421, 429, 447, 449 and 450.
- FL-13 BT, end-separation
- FL-15 EOM (end of message) procedure (8 line-feeds) and NNNN (end sign)

In FL-7 you may find AIGs (Address Indicating Groups) of max. 4 figures (eg AIG3485). An AIG contains at least 10 fixed addresses. They are used to direct messages to multiple receivers without mentioning them all separately. At the moment there are about 8500 AIGs effective. Germany's naval forces are using AIGs 3300-3499.

The above given message is a so called plain dress. Sometimes PLAIN DRESS messages are shortened, skipping FL-5. All classified stuff is however encrypted. NATO uses the AROFLEX encryption system (5-letter groups) for their 'codress' messages. FLs 6, 7, 8, 9 are then left out; they are included in the encrypted message.

The most used message formats are ACP-127 (NATO format and also used by the French) and ACP-126, the latter is used by the USA. It is extremely unlikely that you will ever see a modified ACP-126 message. All of the US traffic is encrypted before transmission. Therefore I give you here an example of a message in this format, so that you know how it looks like:

```
RTTUZYUW RUBDOPU0001 1220841-UUUU--RHMCSUU.
ZNR UUUUU
R 120842Z MAY 97
FM USS BRISCOE
TO USS NEVERSAIL
```

WUN-str08

INFO COMNAVSURFLANT NORFOLK VA//00//  
BT  
UNCLAS //N03000//  
MSGID/GENADMIN/BRISCOE//  
REF/A/RMG/USS NEVERSAIL/101200ZMAY97//  
AMPN/REF A IS A TEST MESSAGE//  
SUBJ/TEST//  
RMKS/1. THIS IS A TEST//  
BT  
#0001

'ZEN' is often wrongly mentioned as a designator. It is no designator but a 'Z'-code. A ZEN address followed by a RI means that the addressee will receive its message in another way, NOT during the transmission that you copied. This normally occurs when the addressee has the same address as the originator. The message can be handed over and don't have to be sent. Here is an example:

FROM HQ SSG MAXWELL AFB GUNTER ANNEX AL//SSFA//  
TO AIG 8403  
HQ AFMPC RANDOLPH AFB TX//DPMDSAR//  
INFO ZEN/DISA MAXWELL AFB GUNTER ANNEX AL//LGSPS//  
ZEN/DISA MAXWELL AFB GUNTER ANNEX AL//UFGI/UFGO/UFGS/SSRI//  
UNCLASS

Another interesting code is 'T'. When 'T' precedes an addressee, this means that the station who's designator is used is assigned to deliver the message to the unit following the 'T-code'. The 'T' stands for "TARE" often referred to as "TARE INSTRUCTIONS".

Example: HMS Invincible is operating in the Adriatic and monitors the 'X11I' NATO broadcast from Italy. Navy whitehall wants to pass a message to the Invincible. Whitehall will send the message via the NATO-telex-net to broadcast control 'X11I' (RIFMPCF -Navy Augusta-) in Italy, asking them to deliver the message to HMS Invincible. The message from whitehall to HMS Invincible via Augusta looks like this 'RIFMPCF T HMS INVINCIBLE'

An AIG is an Address Indicator Group who represents a fixed number of addresses and is used to send a message to more than 10 units. This looks like this: TO AIG 8403 (see above example). The system knows which units are pre-defined in group 8403 and will direct the message directly to the addressees. Sometimes the recipient of the message is mentioned with its SIC (Service Identification Code). In the following example SIC 'SVC' is used. SVC means 'service' and is the code of the ComCen (communications center) and is used for messages between two ComCens.

Finally the priority codes for the delivery of a message:

R = Routine, delivery within 12 hours  
P = Priority, delivery within 6 hours  
O = Immediate, delivery within 1 hour  
Z = Flash, direct delivery without any delay

Example:  
OO RFFVAY  
DE RFFBBYZ  
291010 Z FEB 1996  
SIC SVC

EI MESSAGE FORMAT.

This format is a.o. used by the Navy-Marine Corps MARS Telecommunications System for emergency communications.

EI MESSAGE FORMAT:

OO NOASA NOASI NOASC (precedence and region routing indicators)  
DE XXX 001 (originating station message serial number)  
O 171234Z MAY 96 (immediate precedence and date time group)  
FM NNN0XXX NNY (station of origin)  
TO NNN0ASA MD/DC  
NNN0GBJ NNY



NNNOASI CT  
 NNNOASI ONE NNE  
 NNNOASI TWO SNY  
 NNNOASZ GA  
 GRNC (group no count)  
 BT  
 UNCLAS  
 SUBJ: ACTUAL EVENT/ EEI (subj line is MARS exercise if this is a drill)

1.(EEI identifier)  
 A.(describe incident and location: include city and state)  
 B.(status of emergency medical facilities: unk if unknown)  
 C.(status of local transportation: unk if unknown)  
 D.(characteristics of damage: unk if unknown)  
 E.(area utility status: water, electricity, etc.: unk if unknown)  
 F.(status of communications: unk if unknown)  
 G.(information source/ time: your name, call, QTH, exact time)  
 H.(remarks and other pertinent info: if none, state none)  
 2.Actual event/ EEI (or MARS exercise/ EEI): same as subj line  
 BT  
 NNNN

#### EEI IDENTIFIERS

List of EEI identifiers for use in NAVMARCORMARS EEI messages, both exercises and actual events. These are used in the first and last phrases in the text of standard format EEI messages:

EVENT:	IDENTIFIER:
-----	-----
Air Crash	FALLEN STAR
Bombing Incident	LOUD BANG
Bridge Damage/Loss	LOST SUPPORT
Snow Storm (major)	WHITE BLANKET
Civil Unrest/Riot	BAD MAGIC
Water Dam Broke/Damaged	FAST WATER
Nuclear	NUCLEAR GRAYSTONE
Chemical spill	POISONED GROUND
Earthquake	ROLLING THUNDER
Hurricane	HOWLING WIND
Tornado	VIOLENT TWISTER
Volcano	BRAZEN BRIMSTONE
Forest Fire	SCORCHED EARTH
Flood	TALL WATER
Search/Rescue	SECURE HAVEN
Gas Leak/Explosion	HOT AIR
Interstate Blocked	BLOCKED LANE
Ship wreck/Incident	DEEP SEA
Train Wreck/Derailment	BROKEN TRACKS

#### BROADCAST DESIGNATORS.

Each (NATO) broadcast station uses a so called Broadcast designator (BCST-desig). Broadcasts are used by international armed forces to deliver messages especially to naval vessels, actually to all units who depend on HF! The broadcast system allows a unit on sea to receive a message without verifying the receipt of it. A QSL message could give the enemy a chance for a DF.

Example: a Turkish navy broadcast (designator T12A) is transmitted to Turkish warships, even when the position of the ships is unknown. The only negative point is: the originator won't know if the message is received correctly. Normally it is!

All broadcasts have a specific designator, for example X11I, T12A, H34C, A21X etc. So what do they mean? It is quite simple really, they are only abbreviations, nothing more. It is shorter to say to a ship's captain 'Monitor BCST T12A during your mission' instead of 'Monitor the undecoded RTTY-broadcast of Turkish Navy in Ankara, TBA during your mission.'

It looks like this:

```
rr rxfndcf ryfzin
de rxfnda 5335 3341100
znr uuuuu
r 291024z nov 96
rxflya zon2 x21a
fm commcen comnorth
to ryfzin/norbat
rxfly/jradsta bodoe
rxflcf/bcs x31n
rxdbon/cinceastlant
rxdbhw/afnw
rxfndcf/bcs x31n
ryfnx/bcs y41n
ryfwyc/bcs y41s
rxflya/bcst x21a
bt
nato unclas
```

Each designator exists of a letter/figure/figure/letter combination. The last letter(s) are optional. Here is what they stand for:

o First letter (indicates Nation or controlling authority)

A = Australia	N = Netherlands
B = UK	O = not allocated
C = Canada	P = Portugal
D = Denmark	Q = Belgium
E = Spain	R = not allocated
F = France	S = South Africa
G = Germany	T = Turkey
H = USA	U = USA
I = Italy	V = not allocated
J = Argentina	W = NATO
K = Greece	X = NATO
L = Luxembourg	Y = Norway
M = SEATO	Z = New Zealand

o First figure

- 1 - Area-bcst (eg. Northern Atlantic, Indian Ocean etc.)
- 2 - Sub Area-bcst (eg. Baltic Sea, The Channel etc.)
- 3 - Submarine-bcst
- 4 - Special-bcst, activated on special request (exercises etc.)

o Second figure

- 1 - Encrypted RTTY-bcst, different encryption systems
- 2 - Clear RTTY-bcst
- 3 - Morse-bcst
- 4 - FAX (don't know this for sure)

o Second / third letter

When a nation uses more than one bcst-station the 2nd and 3rd letter are used to indicate the specific station. Sometimes, when a country has only one station, the last letter is omitted. In case of a NATO broadcast (1st letter = 'X'), the last letter(s) always indicates the location.

o Examples:

G23B: Germany, Sub area-morse-bcst, located at wilhelmshaven (DHJ59)  
D23A: Denmark, sub area-morse-bcst, located at Karup (OVG)  
I11C: Italy, Area-encrypted-RTTY-bcst, located at Roma (IDR)  
X21H: NATO-control, sub area-encrypted-RTTY-bcst, unid location

CIRCUIT ID CODES.

The French Forces network has many fixed links with (former) French dependent areas. The circuit id's can be found at the beginning of each transmission right after 'ZCZC' (see example).

vzczclfa253 <link LFA between Paris and Dakar>  
Pagina 10

oo provence  
de provence 9086 2600710  
znr uuuuu  
controle de voie

Although not always true, most of the times the circuit id (CID) and the return id (RID) consist of the same letters in reversed sequence (ie cid AFL, rid LFA). Sometimes only two of the three letters are reversed (ie cid EHP, rid EPH) and there are also a bunch of id's that do not follow any rule (ie cid VAR, rid REU). Can you still follow it? :-))) Fact is that the circuit often matches part of the sending routing indicator. In the next example the sender is RFTJ and the circuit id is TJF. This is the link with Port Bouet (RFTJF) and the return id is in this case JFJ.

vzczctjf016  
oo rftj  
de rftj 2031839  
znr uuuuu  
controle de voie  
nnnn

One more thing about these circuits. In order to test the circuits, test messages are being sent, at least once a hour. 'Controle de voie' means 'test of circuit'. A circuit can be tested between two stations or from one station to the next node and back again. The latter can be done by entering the same routing indicator as sender AND receiver. When the message reaches the first node in the network the computer recognizes the address of the sender and sends the message back.

## APPENDIXES

## \* Appendix A - circuit identifiers

CID	RID	LOCATION SENDER	FROM / TO
ABC	CBA	ZAGREB	RFFKHOOY/RFFMHOY/RFFXHOY (BIHAC)
AFL	LFA	DAKAR	RFTJ to Mod PARIS ('PROVENCE')
ALI		FORT DE FRANCE	RFLI to Mod PARIS
ARI	IRA	POINT-A-PITRE	RFLID to RFLI (FORT DE FRANCE)
ARQ		NOUMEA	RFHI to ?
ASL		DAKAR	RFTJ to RFFIC (PARIS)
AVA	DET	MOD PARIS	PARIS to RFFVAE (DHAHRAN)
BAI		BASTIA	to PARIS
BEM	MEB	TOULON AREA (FFRTN)	RFFBBWM to RFFBBWM
BFL	LFB	FORT DE FRANCE	RFLI to PARIS ('PROVENCE')
BSL		FORT DE FRANCE	RFLI to PARIS ('PROVENCE')
CBA	ABC	BIHAC	RFFKHOOY/RFFMHOY/RFFXHOY
CBF		LE PORT	RFLIA to RFFBBC (ST GERMAIN EN LAYE)
CHY	EYH	ZAGREB	RFFXHOY to RFFEDHY
CRI		FORT DE FRANCE	RFLI to ?
CUD		GERMANY	RFGXXCMA to RFGBBC
DAD	JDA	NDJAMENA	RFTJDA to RFTJD (LIBREVILLE)
DCO		BORDEAUX	to ?
DET	AVA	DHAHRAN	RFFVAE to PARIS
DIB		STRASBOURG-BESANCON AREA	RFFGBC, RFFYRC to (FFRTN) RFFDCB (MOURMELON)
DIM	DJM	RENNES AREA (FFRTN)	RFFDCCS to RFFDCM
DJI	RUN	DJIBOUTI	RFQP to RFVI (LE PORT)
DJK	DKJ	DJIBOUTI	RFQP to RFTJ (DAKAR)
DJM	DIM	RENNES AREA (FFRTN)	RFFDCM to RFFDCC
DJR		DJIBOUTI	RFQP to ?
DKJ	DJK	DAKAR	RFTJ to RFQP (DJIBOUTI)
DNI		LE PORT	RFVI to RFFIC (PARIS)
DRI		DAKAR	RFTJ to RFFI (PARIS)
EDU	EUD	PISA, ITALY	RFFEDV to RFFEDU (GROSSETO)
EDV	EVD	GROSSETO, ITALY	RFFEDU to RFFEDV (PISA)
EGZ		BORDEAUX	to PORT BOUET

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EHO	EOH	BORDEAUX	RFFE to RFFX (VERSAILLES)
EHP	EPH	BORDEAUX	RFFE to TOULOUSE
EHQ	EHR	AJACCIO	RFFHCA to RFFED (SOUGE)
EHR	EHQ	SOUGE	RFFED to RFFHCA
EHZ		BORDEAUX AREA (FFRTN?)	RFFECC to RFFECHZ
EIT	TGP	CAP VERT	RFTJI to RFTJ (DAKAR)
EOH	EHO	VERSAILLES	RFFX to RFFE (BORDEAUX)
EPH	EHP	TOULOUSE	TOULOUSE to RFFE (BORDEAUX)
ERT	ETR	MONTARGIS (FFRTN)	RFFZEVO to RFFZEVM, RFFZEVN, RFFZEVL
ETR	ERT	MONTARGIS (FFRTN)	RFFZEVM to RFFZEVO, RFFZEV, RFFZEVL
EUD	EDU	GROSSETO, ITALY	RFFEDU to RFFEDV (PISA)
EVD	EDV	PISA, ITALY	RFFEDV to RFFEDU (GROSSETO)
EYH	CHY	BIHAC	RFFEDHY to RFFXHOY (ZAGREB)
FBL		FORT DE FRANCE	to PARIS
FDA		MOD PARIS	RFFB to ? (various)
FDI	IDF	FORT DE FRANCE	RFLI to PARIS
FDJ		PORT BOUET	to LIBREVILLE
FDX		MOD PARIS	RFFVA to ? (various)
FDXA	FKWA	MOD PARIS	RFFP to RFFVAY (SARAJEVO)
FDXB	FKWB	MOD PARIS	RFFR to RFFVAY (SARAJEVO)
FDZ		N'DJAMENA	to PARIS
FDZ2		N'DJAMENA	to PARIS
FDZ2A	FDX	NDJAMENA	RFFVAD to RFFVA (PARIS)
FDZ2B	FDX	NDJAMENA	RFFVAD to RFFVA (PARIS)
FDZA		PARIS	to N'DJAMENA
FDZB		PARIS	to N'DJAMENA
FKN		LE PORT	RFVI to RFQP (DJIBOUTI)
FKO		DJIBOUTI	RFQP to RFTJ (DAKAR)
FKO		DJIBOUTI	RFQP to RFVI (LE PORT)
FKOA		DJIBOUTI	RFQP to RFFVA (PARIS)
FKOB		DJIBOUTI	RFQP to RFFVA (PARIS)
FKW4	FDX	INCIRLIK	RFFVAT to RFFP (PARIS)
FKWA	FDXA	SARAJEVO	RFFVAY to RFFVY
FKWB	FDXB	SARAJEVO	RFFVAY to RFFA (PARIS)
FRFDX		MOD PARIS	RFFTC to RFFVAE (ALYSSE)
FTI	ITF	LIBREVILLE	RFTJD to RFFA (PARIS)
FTK		LIBREVILLE	RFTJD to ?
GAG	IGA	KOUROU	RFLIGA to RFLIG (CAYENNE)
GDI	IDG	METZ AREA (FFRTN)	RFFGCD to RFFGCD
GEA		LIBREVILLE	to ?
GEG		SAINT JEAN DU MARONI	RFLIGE to RFLIG (CAYENNE)
GLI		FORT DE FRANCE	to ?
HII	VII	NOUMEA	RFHI to RFVI (LE PORT)
HIJ	HJI	NOUMEA	RFHI to RFHJ (PAPEETE)
HJI	HIJ	PAPEETE	RFHJ to RFHI (NOUMEA)
HJL	LIH	PAPEETE	RFHJ to RFLI (FORT DE FRANCE)
HZE		PORT BOUET	RFTJF to PARIS
HZS		PORT BOUET	RFTJF to BORDEAUX
IAA	IBA	LILLE	RFFC to RFFEC (BORDEAUX)
IAD	IDA	FORT DE FRANCE	RFLI to RFLID (POINT-A-PITRE)
IAG	IGA	FORT DE FRANCE	RFLI to RFLIG (CAYENNE)
IAH	HAI	MOD PARIS	RFFA to RFTJD (LIBREVILLE)
IBA	IAA	BORDEAUX	RFFEC to RFFC (LILLE)
IBO		PARIS	to DJIBOUTI
IDA	IAD	POINTE A PITRE	RFLID to RFLI (FORT DE FRANCE)
IDF	FDI	MOD PARIS	PARIS to RFLI (FORT DE FRANCE)
IDG	GDI	METZ AREA (FFRTN)	RFFGCD to RFFGCD
IDR	DRI	MOD PARIS	RFFI to RFTJ (DAKAR)
IFD		MFA PARIS	RFGW to ? (various)
IGA	GAG	CAYENNE	RFLIG to RFLIGA (KOUROU)
IGA	IAG	CAYENNE	RFLIG to RFLID (FORT DE FRANCE)
IGE	EGI	FORT DE FRANCE	RFLI to RFLIGE (ST JEAN DU MORONI)
IGU	UGI	MOD PARIS	PARIS to RFLIG (CAYENNE)
IHA	IGA	BADEN-BADEN	RFGXX to RFFH (MARSEILLE)
IIA	IJA	MARSEILLE	RFFHCCS to RFFHCA/RFFHCAB (AJACCIO)
IJA	IIA	AJACCIO	RFFHCA to RFFHCC (MARSEILLE)
IKB		BADEN-BADEN	RFGXX to MARSEILLE
IKD		MOD PARIS	RFFQ to RFFHCA (AJACCIO)

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IKG	ILG	RENNES	RFFDC to RFFF (LYON)
ILD		MARSEILLES	RFFH to RFFX (VERSAILLES)
ILG	IKG	LYON	RFFF to RFFDC (RENNES)
IMA	MAI	LE PORT	RFVI to RFVIMA (PHNOMPENH)
IMK	INK	MARSEILLE	RFFH to RFFX (VERSAILLES)
INC		PARIS	to BERLIN
IND		PARIS	to LE PORT
INK	IMK	VERSAILLES	RFFX to RFFH (MARSEILLE)
IPA		DJIBOUTI	RFQP to RFVI (LE PORT)
IQJ		MOD PARIS	RFFA to ?
IRE	REI	MOD PARIS	PARIS to RFVI (LE PORT)
IRT	RTI	FORT DE FRANCE	RFLI to RFLIG (CAYENNE)
ISG	SGI	MOD PARIS	RFFA to RFTJ (DAKAR)
ITF	FTI	MOD PARIS	RFFVA to RFTJD (LIBREVILLE)
ITT	TTT	LE PORT	RFVI to RFVITT (MAYOTTE)
IUL	IVL	BADEN-BADEN	RFGXXC to RFGAAC (TREVES)
IUW	IWV	BORDEAUX	RFFECC to RFFGBE (STRASSBOURG)
IUX	IVX	BERLIN	RFGEE to RFFX (VERSAILLES)
IVL	IUL	TREVES	RFGAAC to RFGXXBLU (BADEN)
IWV		STRASSBOURG	RFFG to ?
IWV	IXV	RENNES	RFFDC to RFFG (NANCY)
IXV	IWV	NANCY	RFFG to RFFDC (RENNES)
JBI		VERSAILLES	to BANGUI
JBL		VERSAILLES	RFFX to RFFXL (BEIRUT)
JDA	DAD	LIBREVILLE	RFTJD to RFTJDA (NDJAMENA)
JDF	JFD	LIBREVILLE	RFTJD to RFTJF (PORT BOUET)
JDJ	TJD	LIBREVILLE	RFTJD to RFTJ (DAKAR)
JFD	JDF	PORT BOUET	RFTJF to RFTJD (DOUALA)
JFJ	TJF	PORT BOUET	RFTJF to RFTJ (DAKAR)
JTA	TJA	DJIBOUTI	RFQP to RFTJ (DAKAR)
KQI		BREST	RFFK to ?
LFA	AFL	MOD PARIS ('PROVENCE')	PARIS to RFTJ (DAKAR)
LFB	BFL	MOD PARIS ('PROVENCE')	PARIS to RFLI (FORT DE FRANCE)
LIH	HJL	FORT DE FRANCE	RFLI to RFHJ (PAPEETE)
LIJ	TJI	FORT DE FRANCE	RFLI to RFTJ (DAKAR)
LLZ		PARIS	to LILLE
LSA		PARIS	to DJIBOUTI
LSB	BSL	MOD PARIS	RFF? to RFLI (FORT DE FRANCE)
LXI	XLI	CAYENNE OR KOUROU	RFLIGCS to RFFXCC (PARIS)
MAI	IMA	PHNOMPENH	RFVIMA to RFVI (LE PORT)
MAY	MAZ	MARSEILLE	to PARIS
MEB	BEM	TOULON AREA (FFRTN)	RFFBBWM to RFFBBWM
ODS	OSD	MONTARGIS (FFRTN)	RFFZEV, RFFZEV, RFFZEV, RFFZEVO
PBA		DJIBOUTI	to PARIS
PIA		LE PORT	RFVI to RFQP (DJIBOUTI)
PMI		PAPEETE	RFHJ to RFHI (NOUMEA)
PQA	QPA	MOD PARIS	RFFP to RFQP (DJIBOUTI)
PQB	QPB	MOD PARIS	RFFP to RFQP (DJIBOUTI)
PQC	QPC	MOD PARIS	RFFP to RFQP (DJIBOUTI)
PVX		AF PARIS	RFFTA to RFFVAY (SARAJEVO)
QPA	PQA	DJIBOUTI	RFQP to RFFP (PARIS)
QPB	PQB	DJIBOUTI	RFQP to RFFR (PARIS)
QPC	PQC	DJIBOUTI	RFQP to RFFR (PARIS)
QPE	PQE	DJIBOUTI	RFQP to RFFR (PARIS)
QPF	PQF	DJIBOUTI	RFQP to RFFT (PARIS)
QPG	PQG	DJIBOUTI	RFQP to RFFT (PARIS)
QPS	SPQ	DJIBOUTI	RFQP to RFQPS (MOGADISCIO)
QRF	FRQ	DJIBOUTI	RFQP to PARIS
QRG	RQG	DJIBOUTI	RFQP to RFFA (PARIS)
QVA		MOD PARIS	RFFA to RFQP (DJIBOUTI)
QVX	DET	MOD PARIS	RFFA to RFFUAX and RFFVAEA (DHAHRAN)
REI	IRE	LE PORT	RFVI to RFFA (PARIS)
REU	VAR	LE PORT	RFVI to RFVINDI, RFVIVAR, RFFLLMP
REX		MFA PARIS	RFV to various embassies
RNY		RENNES	to PARIS
RQF	QPF	MOD PARIS	RFFP to RFQP (DJIBOUTI)
RQG	QRG	MOD PARIS	RFFA to RFQP (DJIBOUTI)
RQT	QRT	MOD PARIS	RFFA to RFQP (DJIBOUTI)

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RTC	CTR	BORDEAUX	RFFE to RFFZ
RTF		FORT DE FRANCE	RFLI to CAYENNE
RTI	IRT	CAYENNE	RFLIG to RFLI (FORT DE FRANCE)
RUN	DJI	LE PORT	RFVI to RFQP (DJIBOUTI)
RUP		LE PORT	RFVI to RFQP (DJIBOUTI)
RVA	AVR	MOD PARIS	RFFP to RFFVAY (SARAJEVO)
RVI		LE PORT	RFVI to RFQP (DJIBOUTI)
SGI	ISG	DAKAR	RFTJ to PARIS
SPQ	QPS	MOGADISCIO	RFFMHMM to PARIS RIS via DJIBOUTI
TCR	RCT	MONTARGIS (FFRTN)	RFFZEVL, RFFZEVM, RFFZEVN, RFFZEVO
TFJ		PORT BOUET	to DAKAR
TGP	EIT	DAKAR	RFTJ to RFTJI
TIJ		DAKAR	RFTJ to PAPEETE
TJA	JTA	DAKAR	RFTJ to RFQP (DJIBOUTI)
TJD	JDJ	DAKAR	RFTJ to RFTJD (LIBREVILLE)
TJF	JFJ	DAKAR	RFTJ to RFTJF (PORT BOUET)
TJI	LIJ	DAKAR	RFTJ to RFLI (FORT DE FRANCE)
TTT	ITT	DZAOUDZI, MAYOTTE	RFVITT to RFVITZ (LE PORT)
UAB	UBA	TOULON	RFFL to ?
UAC	UCA	METZ AREA (FFRTN)	RFFGCEME to RFFGCEMB
UAE	UEA	METZ AREA (FFRTN)	RFFGCEMD to RFFGCEM
UAF	UFA	METZ AREA (FFRTN)	RFFGCEME to RFFGCEMB
UAP	UPA	ORLEANS AREA (FFRTN)	RFFBBWN to RFFZEC
UAQ	UQA	MOD PARIS	RFFXC/RFFXCCS to RFFXQA (SARAJEVO)
UBD	UDB	TOULOUSE AREA (FFRTN)	RFFWERM to RFFWER (TOULOUSE)
UBF		?	RFFEDBF to ?
UBL	ULB	METZ AREA (FFRTN)	RFFGC to RFFGCCS
UBM	UMB	TOULON	RFFBBWM to RFFG RFFHAD, RFFWER
UBO	UOB	METZ OR NANTES (FFRTN)	RFFDBCM to RFFDBC
UBZ	UZB	MARSEILLES	RFFH to RFFXL (BEIRUT)
UCA	UAC	METZ AREA (FFRTN)	RFFGCEMH to RFFGCEME
UDB	UDB	METZ OR TOULOUSE AREA	RFFWERM DE METZ (FFRTN)
UDE	UED	BERLIN AREA (FFRTN)	RFGEECT to RFGEECM
UDF		BADEN-BADEN	RFGXXCM to RFGBBCM
UEA	UAE	METZ AREA (FFRTN)	RFFGCEMB to RFFGCEMH
UED	UDE	BERLIN AREA (FFRTN)	RFGEECM to RFGEES
UFA	UAF	METZ AREA (FFRTN)	RFFGCEM, RFFGCEMD to RFFGCEMF
UFG	UGF	LILLE AREA (FFRTN)	RFFCCMA to RFFCCCM
UFH	UHF	LILLE AREA (FFRTN)	RFFCCQ to RFFCCMA
UFM		?	RFFEDFM to SOUGE
UGF	UHF	LILLE AREA (FFRTN)	RFFE to RFFCC (LILLE)
UGI	IGU	CAYENNE	RFLIG to RFFA (PARIS)
UHF	UGF	LILLE AREA (FFRTN)	RFFCC to RFFCCMA
UIF		?	RFFEDFE to ?
UMB	UBM	LYON AREA (FFRTN)	RFFFCC to RFFBBWM
UOB	UBO	NANTES AREA (FFRTN)	RFFDBCM to RFFDBC
UPA	UAP	ORLEANS REGION (FFRTN)	RFFLP, RFFCCS, RFFZEC to RFFBBWN
UQA	UAQ	SARAJEVO	RFFXQA to RFFX (VERSAILLES)
UYZ		BORDEAUX	RFFCC to RFGY
VAR	REU	OMAN, GULF OF	RFVINDI to RFVI (LE PORT)
VAR	REU	OMAN, GULF OF	RFVINDI to RFVI (LE PORT)
VII	HII	LE PORT	RFVI to RFHI (NOUMEA)
VIP		LE PORT	RFVI to RFQP (DJIBOUTI)
XLI	LXI	MOD PARIS	RFFXCC to RFLIGCS (CAYENNE or KOUROU)
XPV	PVX	MOD PARIS	RFFP to RFFVAY (SARAJEVO)
XXI	XZI	VERSAILLES	RFFX to RFFXI (BANGUI)
XXL	XZL	VERSAILLES	RFFX to RFFXL (LEBANON)
XXS	XZS	VERSAILLES	RFFX to RFFXS (MOGADISCIO)
XXX		FORT DE FRANCE	RFLI to RFLIG (CAYENNE)
XZI	XXI	BANGUI	RFFXI to RFFX (VERSAILLES)
XZL	XXL	LEBANON (UNIFIL)	RFFXL to RFFX (VERSAILLES)
XZS	XXS	MOGADISCIO	RFFXS to RFFX (VERSAILLES)

\* Appendix B - naval broadcast designators  
 The list shows examples of combinations that were copied by monitors.  
 Whenever possible the location is mentioned.

A13B	CANBERRA	AUS
B11A	NORTHWOOD	G
B13A	NORTHWOOD	G
C11A	VANCOUVER	CAN
C11E	VANCOUVER	CAN
C13A	TORONTO	CAN
C13B	HALIFAX	CAN
C13E	ESQUIMALT	CAN
C13L	HALIFAX	CAN
C13LR	VANCOUVER	CAN
C21A	HALIFAX	CAN
C23A	HALIFAX	CAN
D21	ARHUS	DNK
D23	ARHUS	DNK
D23A	STEVNS	DNK
E13A	MADRID	E
G21A	GLUECKSBURG	D
G21B	WILHELMSHAVEN	D
G23A	GLUECKSBURG	D
G23B	WILHELMSHAVEN	D
G23G	RAMSLOH	D
G33D	GLUECKSBURG (EX ANTHORN)	D
G33DG	GLUECKSBURG (EX ANTHORN)	D
I11C	ROME	I
I13A	ROME	I
K13A	PIRAEUS	GRC
K13G	SPATA ATTIKIS	GRC
K13Y	SPATA ATTIKIS	GRC
N13A	GOEREE	HOL
N21A	GOEREE	HOL
N23A	GOEREE	HOL
P13A	MONSANTO	POR
P13C	HORTA	AZR
P13D	FUNCHAL	MDR
P13G	MONSANTO	POR
T11B	ANKARA	TUR
T13A	IZMIR	TUR
X11I	ROME	I
X13A	NORTHWOOD	G
X21A	NORWAY	NOR
X21D	GLUECKSBURG	D
X21E	WILHELMSHAVEN	D
X21Y	STAVANGER	NOR
X23C	HALIFAX	CAN
X31A	NORWAY	NOR
Y23	STAVANGER	NOR
Y21	STAVANGER	NOR
Y41A	NORWAY	NOR
Y41S	NORWAY	NOR

## \* Appendix C - general callsigns

GC = GENERAL CALL FOR ALL / ANY ....

9GTA	NAVY	GC GHANIAN WAR SHIPS	GHA
CGMP	RCMP	GC ROYAL CANADIAN MOUNTED POLICE	CAN
CGNS	NAVY	GC CANADIAN WAR SHIPS	CAN
CTAA	NAVY	GC PORTUGUESE WAR SHIPS	POR
DAAA	NAVY	GC GERMAN WAR SHIPS	G
EBBB	NAVY	GC SPANISH WAR SHIPS	E
FAAA	NAVY	GC FRENCH WAR SHIPS	F
FAAG	NAVY	GC FRENCH WAR SHIPS IN THE PACIFIC	NCL
FAAZ	NAVY	GC FRENCH WAR SHIPS	F
FCMP	NAVY	GC U.S. WAR SHIPS IN THE E.PACIFIC	HWA
GCMP	NAVY	GC U.S. WAR SHIPS IN THE W.PACIFIC	GUM
GCMP2	NAVY	GC U.S. WAR SHIPS IN THE W.PACIFIC	GUM
IAAD	NAVY	GC ITALIAN WAR SHIPS	I
IAAM	NAVY	ALL COAST STATIONS OF THE ITALIAN NAVY	I

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IAAX	NAVY	GC ITALIAN WAR & MERCHANT SHIPS	I
LBBA	NAVY	GC NORWEGIAN WAR SHIPS	NOR
LCMP2	NAVY	GC U.S. WAR SHIPS IN THE ATLANTIC	USA
LCMP3	NAVY	GC U.S. WAR SHIPS IN THE ATLANTIC	USA
NCG	NAVY / USCG	ALL COAST STATIONS OF THE US COAST GUARD	USA
NCU	NAVY / USCG	GC CUTTERS OF THE U.S. COAST GUARD	USA
NERK	NAVY	GC U.S. WAR SHIPS	USA
NIDK	NAVY / USCG	GC SHIPS OF THE U.S.C.G. ICE PATROL	USA
OVA	NAVY	ALL COAST STATIONS OF THE DANISH NAVY	DNK
OVAA	NAVY	GC DANISH WAR SHIPS	DNK
PASM	NAVY	GC DUTCH SUBMARINES	HOL
PCAA	NAVY / CIVIL	GC DUTCH WAR & MERCHANT SHIPS	HOL
PCAB	NAVY	GC DUTCH WAR SHIPS	HOL
SNWA	NAVY	GC POLISH WAR SHIPS	POL
TBDJ	NAVY	GC TURKISH WAR SHIPS	TUR

\* Appendix D - US Navy MARS precedence and region routing indicators

o Call Sign Blocks

NNN0ASA - NNN0ASZ	Chief, MARS, Staff, Region Directors and Assistants
NNN0CAA - NNN0CZZ	US Navy and Coast Guard Ships
NNN0GAA - NNN0GEZ	Area Coordinators
NNN0GFA - NNN0GJZ	Senior Chief NAVMARCORMARS Operators
NNN0GKA - NNN0GOZ	Master Chief NAVMARCORMARS Operators
NNN0MAA - NNN0MZZ	Marine Corps Military Auspices Stations
NNN0NAA - NNN0NZZ	Navy Military Auspices Stations, US Navy and Coast Guard Stations
NNN0PPA - NNN0PPZ	Speciality Network Coordinators

o Region Directors

NNN0ASA	- Chief, Navy-Marine Corps MARS
NNN0ASB	- Deputy Chief, Navy-Marine Corps MARS
NNN0ASC	- Director, Region Two
NNN0ASD	- Chief, Assistant, Administration
NNN0ASE	- Director, Region Five
NNN0ASF	- Director, Region Three
NNN0ASG	- Director, Region Four
NNN0ASI	- Director, Region One
NNN0ASK	- Director, Region Seven
NNN0ASL	- Director, Region Eight
NNN0ASM	- HQ Marine Corps Liaison Officer
NNN0ASO	- Chief, Assistant, Training
NNN0ASP	- Chief, Assistant, Special Projects
NNN0ASQ	- Chief, Assistant, Technical Library
NNN0ASR	- Chief, Assistant, VHF Repeaters
NNN0AST	- Chief, Assistant, MARS Data System
NNN0ASW	- Officer-in-charge, HQ MARS Radio Station
NNN0ASX	- Chief, Assistant, Coast Guard Auxillary
NNN0ASY	- Chief, Assistant, Public Affairs
NNN0ASZ	- Chief, Assistant, Emergency Communications Planning

o Suffixes

The Region Director's call sign + a number suffix will be assigned to assistants when necessary.

- 1 - Assistant Director
- 2 - Emergency Communications Planning
- 3 - Net Operations
- 4 - Training
- 5 - Technical Matters
- 6 - Special Projects
- 7 - VHF-FM Repeaters
- 8 - Public Affairs
- 9 - Library
- 10 - Region MDS Operation
- 11 - Logistics
- 12 - Equipment Administration



- 13 - Personnel Administration
- 14 - Computers/Data Processing
- 15 - Army/Air Force MARS Liaison
- 16 - Frequency Monitoring
- 17/29 - All other assistants
- 30/35 - Only used during emergencies

o Area Coordinators

- NNN0GAA - AL (Region Two)
- NNN0GAB - AK (Region Seven)
- NNN0GAC - AZ/UT (Region Five)
- NNN0GAD - AR (Region Three)
- NNN0GAE - NCA (Region Five)
- NNN0GAF - SCA (Region Five)
- NNN0GAG - CO/WY (Region Four)
- NNN0GAH - CT (Region One)
- NNN0GAL - FL (Region Two)
- NNN0GAM - GA (Region Two)
- NNN0GAN - HI (Region Eight)
- NNN0GAO - ID/MT (Region Seven)
- NNN0GAP - IL (Region Four)
- NNN0GAQ - IN (Region Four)
- NNN0GAR - IA (Region Four)
- NNN0GAS - KS (Region Four)
- NNN0GAT - KY (Region Two)
- NNN0GAU - LA (Region Three)
- NNN0GAV - NNE (Region One)
- NNN0GAX - MA/RI (Region One)
- NNN0GAY - MI (Region Four)
- NNN0GAZ - MN (Region Four)
- NNN0GBA - MS (Region Two)
- NNN0GBB - MO (Region Four)
- NNN0GBD - NE (Region Four)
- NNN0GBE - NV (Region Five)
- NNN0GBG - NJ/DE (Region One)
- NNN0GBI - NM (Region Three)
- NNN0GBJ - NNY (Region One)
- NNN0GBK - SNY (Region One)
- NNN0GBL - NC (Region Two)
- NNN0GBM - ND (Region Four)
- NNN0GBN - OH (Region One)
- NNN0GBW - MD/DC (Region Two)
- NNN0GCP - PA (Region One)

o Collective Call Signs

- NNN0ALA - All Assistants to NAVMARCORMARS Directors
- NNN0ALC - All Area Coordinators
- NNN0ALD - All Directors
- NNN0ALL - All NAVMARCORMARS Radio Stations
- NNN0ALM - All Marine Corps Military Unit MARS Radio Stations
- NNN0ALN - All Navy Military Unit MARS Radio Stations
- NNN0ALS - All Stations This Net

\* Appendix E - acronyms and abbreviations

o Acronyms and abbreviations

- AAAV = ADVANCED AMPHIBIOUS ASSAULT VEHICLE
- AACS = AIRBORNE AIR CONTROL SQUADRON
- AACTS = AIRBORNE AIR CONTROL & TRAINING SQUADRON
- ABCCC = AIRBORNE BATTLEFIELD COMMAND AND CONTROL CENTRE
- ACTU = ACTING COMMANDER, TASK UNIT
- ACW = AIRBORNE CONTROL WING
- ADFR = AUSTRALIAN DEFENSE FORCES RADIO
- ADMIRALNLFLEET = Admiralty of the Netherlands Fleet (HQ)
- ADN = AIR DEFENSE NET
- AER RIANTA = MRCC SHANNON
- AF = Affaires Maritimes

## WUN-str08

AFAN = AMERICAN FORCES ANTARCTIC NETWORK  
 AFB = AIR FORCE BASE  
 AFRES = AIR FORCE RESERVE (WEATHER RECONNAISSANCE SQUADRON)  
 AFS = AIR FORCE STATION  
 AFSOC = AIR FORCE SPECIAL OPERATIONS COMMAND  
 ALCE = AIRLIFT CONTROL ELEMENT  
 ALE = AUTOMATIC LINK ESTABLISHMENT  
 ALINDIEN = All French forces in the Indian Ocean  
 ALMDS = AIRBORNE LASER MINE DETECTION SYSTEM  
 ALO = AUTOMATIC LINK OPTIMIZATION  
 ALS = AIRLIFT SQUADRON  
 AMC = AIR MOBILITY COMMAND  
 AMS = AERONAUTICAL MOBILE SERVICE  
 AMSS = AERONAUTICAL MOBILE SATELLITE SERVICE  
 ANZUS = Australia, New Zealand & USA  
 AOCC = AIR OPERATIONS COORDINATION CENTRE  
 APO = ARMY/AIR FORCE POST OFFICE  
 ARIA = ADVANCED RANGE INSTRUMENTATION AIRCRAFT  
 ARRC = NATO'S ALLIED COMMAND EUROPE RAPID REACTION CORPS  
 ART = AIRBORNE RADAR TECHNICIAN -AWACS  
 ARW = AIR REFUELING WING  
 ASEAN = Association of South East Asian Nations  
 ASO = AIR SURVEILLANCE OFFICER -AWACS  
 ASW = ANTI SUBMARINE WARFARE  
 ATN = AERONAUTICAL TELECOMMUNICATION NETWORK  
 AWACS = AIRBORNE WARNING AND CONTROL SYSTEM  
 BAMO = Batiment Anti-Mines Oceanique Navy  
 BATIMENT = 'Ship' followed by the name of a navy vessel  
 BATINF = Infantry Battalion  
 BATRAL = Batiments d'Assaut et de Transport Legers  
 BBPD = Batiments Bases pour Plongeurs Demineurs  
 BEGM = Batiment Experimental Guerre de Mines  
 BELNAV = BELGIAN NAVY  
 BEM = Batiment d'Essais de Mesures  
 BFBS = BRITISH FORCES BROADCASTING SERVICE  
 BFCO = BRITISH FOREIGN AND COMMUNICATIONS OFFICE  
 BINRS = Batiments d'Instruction a la Navigation  
     Remorqueurs de Sonars  
 BO = Batiment Oceanographique Bougainville  
 BRIGA = Brigade  
 BSL = Batiment de Soutien Logistique  
 BTS = Batiment de Transport et de Soutien  
 CAP = CAPITAN  
 CAS = CLOSE AIR SUPPORT  
 CBU = CONSTRUCTION BATTALION UNIT  
 CCDSEVEN = Chief of Coastguard Group 7  
 CCF = COMBINED CADET FORCE  
 CCG = CANADIAN COAST GUARD  
 CDIC = Chaland de Debarquement d'Infanterie et de Chards  
 CEC = Commande Et Controle  
 CECLANT = Commande et Controle Atlantique  
 CECMED = Commande et Controle Mediterannee  
 CEDLANT = Commande Et Controle, atLANTique  
 CEL = Centre de les Landes (Missle Trials Centre)  
 CELGENDJUEMED = CELLULE GENDARMERIE JEUX MEDITERRANEENS  
 CEM = Centre d'Essais de la Mediterranee  
     (Levant Island Missle Range)  
 CENTCINARMEES = CENTRE DISTRIBUTION CINE ARMEES  
 CENTHERTZ = Centre Hertz area  
 CENTTRANS = Centre Transmissions  
 CEP = Centre d'Experimentation du Pacifique  
     (Nuclear Test Range, Mururoa)  
 CETIEGM = Centre d'ETudes, d'Instruction et d'Entrainment  
     de la Guerre Maritimes  
 CF = CANADIAN FORCES  
 CFARS = CANADIAN FORCES AFFILIATED RADIO SYSTEM  
 CFM = CONFORME (ACKNOWLEDGE)  
 CHMS = COMMANDER HYDRO METEOROLOGICAL

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CHOD = Commander Headquarter of Defense  
 CIA = COMPANIA (COMPANY)  
 CIC = Combat Information Centre  
 CIEH = Centre d'Instruction des Equipages d'Helicopeteres  
 CIFAS = Centre d'Instruction de Force Aerienne Stragique  
 CIGEND = COMPAGNIE DES GENDARMERIE  
 CIGEND = Compagnie de Gendarmerie  
 CIMAT = COMPAGNIE REGIMENT MATERIAL  
 CIMAT = Compagnie Material  
 CIN = COMMONWEALTH OF INDIPENDENT STATES (NAVY)  
 CINC = Commander-in-Chief  
 CINCAIR = Commander-in-Chief Air Base  
 CINCAIRBASE = Commander-in-Chief Air Base  
 CINCEASTLANT = Commander-in-Chief Eastern Atlantic  
 CINCFLEET = Commander-in-Chief of Fleet  
 CINCLANT = Commander-in-Chief atLANTic forces  
 CINCLANTFLT = Commander in Chief Atlantic Fleet  
 CINCNABASE = Commander-in-Chief NAVAL BASE  
 CINCNASURFLANT = Commander-in-Chief NAVAL SURFace fleet, atLANTic  
 CINCNOORNAVEUR = Commander-in-Chief NORthern Naval forces EUROpe  
 CINCPAC = Commander-in-Chief Pacific  
 CINCPACAF = Commander-in-Chief Pacific Air Force  
 CINCPACFLT = Commander-in-Chief Pacific Fleet  
 CINCSEURCOM = Commander-in-Chief Southern EUROpe COMmand  
 CINC SOUTH = Commander-in-Chief Southern Task Forces  
 CINCUKAIR = Commander in Chief UK Air  
 CINCUKAIRALT = COMMANDER IN CHIEF UK ALTERNATE  
 CINCUSNAVEUR = Commander-in-Chief US-Naval Forces Europe  
 CIPREVOT = Compagnie Prevotale  
 CIRAT = CENTRE INFORMATION ET RECRUTEMENT AT  
 CJTF = Chasseurs de Mines Tripartites  
 CMT = Chasseurs de Mines Tripartites  
 CNLTICC = Commander Netherlands Tactical Info and Conduction Center  
 CNS = Commander Naval Subarea  
 COL CKD = COMMANDING OFFICIAL CHECKED  
 COM = Commander  
 COM = Compagnie (French forces)  
 COMAIRBASE = Commander of Air Base  
 COMAIRPAC = Commander Air Forces Pacific Fleet  
 COMAO = Combined Air Operations  
 COMBENCHAN = Commander Benelux-Channel Area  
 COMCANLANT = Commander Canadian Forces Atlantic Area  
 COMCARGRU = Commander Carrier Group  
 COMCECLANT = Commander Central Atlantic  
 COMCEN CTC = COMMUNICATIONS CENTER CTC  
 COMCEN CURRAGH = COMMUNICATIONS CENTER, CURRAGH  
 COMCEN EAST = COMMUNICATIONS CENTER EAST, SHANNON  
 COMCEN SOUTH = COMMUNICATIONS CENTER SOUTH, HAULBOWLINE  
 COMCEN WEST = COMMUNICATIONS CENTER WEST  
 COMCRUDESGRU = Commander of Cruising Destroyer Groups  
 COMEDCENT = Commander Central Mediterranean  
 COMEDEAST = Commander Eastern Mediterranean  
 COMEDNOREAST = Commander North Eastern Mediterranean, Ankara  
 COMFAIRMED = Commander Fleet Air Mediterranean  
 COMGEND = Compagnie Gendarmerie  
 COMGENDAR = Compagnie Gendarmerie  
 COMGIBMED = Commander Gibraltar-Mediterranean Area  
 COMHELDES = Commander Hellenic Destroyers  
 COMHEL FLEET = Commander Hellenic Fleet  
 COMHEL SUB = Commander Hellenic Submarines  
 COMIDEASTFOR = Commander Middle East Forces  
 COMLANTAREA = Commander Atlantic Area  
 COMMCEN = Communications Center  
 COMMERMARLANT = Commander Merchant Marine Atlantic  
 COMNASOUTH = Commander in Chief Naval Area South  
 COMNATONAVFORBALT = Commander NATO NAVAL BALTic FORces  
 COMNATONAVFORLANT = Commander NATO Naval Baltic Forces  
 COMNAVAIRSTA = Commander Naval Air Station

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COMNAVBALTAP = Commander Naval Forces Baltic Approaches  
 COMNAVBASE = Commander Naval Base  
 COMNAVFORCARIB = Commander Naval Forces Caribbean  
 COMNAVNON = Commander Naval Forces Northern Norway  
 COMNAVSONOR = Commander Naval Forces Southern Norway  
 COMNAVSURFGRUMED = Commander Naval Surface Group Mediterranean Area  
 COMNAVSURFLANT = Commander of the Naval Surface Force Atlantic fleet  
 COMNORECHAN = Commander Northwood-Channel Area  
 COMNORLANT = Commander Northern Atlantic  
 COMPATWINGSLANT = Commander Patrol Wings Atlantic  
 COMPATWINGTEN = COMMAND-PATROL WING TEN  
 COMPG = Composite Group  
 COMPHMRON = COMMANDER AMPHIBIOUS (NAVY)  
 COMPLYMCHAN = Commander Plymouth-Channel Area  
 COMRATS = Commuted Rations  
 COMSEC = Communications Security  
 COMSECONDFLT = Commander of the Second Fleet  
 COMSTRKFLTANT = Commander Striking Fleet Atlantic  
 COMSTRKFORLANT = Commander Strike Force Atlantic  
 COMSUBGRP = Commander Submarine Group  
 COMSUBGRU = Commander Submarine group  
 COMSUBLANT = Commander Submarine Forces Atlantic Fleet  
 COMSUBPAC = Commander Submarine Forces Pacific Fleet  
 COMSUBRON = Commander Submarine Squadron  
 COMSUBSERVICENL = Commander Submarine Service Netherlands  
 COMSURFPAC = Commander Surface Forces Pacific Fleet  
 CONCUKAIR = COMMANDER IN CHIEF UK AIR  
 CONUS = Continental United States  
 CoS = Chief-of-StaffCOSSAC  
 COSSAC = Chief of Staff Allied Supreme Headquarters  
 COTAM = COMMANDEMENT DU TRANSPORT AEERIEN MILITAIRE  
 CRO = COASTAL RADAR ORGANISATION (NAVY)  
 CROSS = CENTRE REGIONAL OPERATIONNEL DE SURVEILLANCE  
 ET DE SAUVETAGE  
 CRP = CONTROL AND REPORTING POST  
 CTF/G/U = Commander Task Force / Group / Unit  
 CTM = Chaldans de Transport de Materiel  
 CTU = COMMANDER TASK UNIT  
 D... = DIRECCION DE ... (HQ, ADMINISTRATION OF...)  
 DEFNAV = DEFENSE NAVAL  
 DELEMIL = Delegation Militaire  
 DEPMUNI = Depot de Munitions  
 DETECHSOUT = DETACHEMENT TECNIUE DE SOUTIEN  
 DETGENI = Detachment Maintenance Genie  
 DF = Douanes Francaises  
 DFHQ = DUTY OFFICE OF THE DEFENSE HQ IN DUBLIN  
 DIG = DELIVERY INDICATOR GROUP  
 DIGEGUCI = DIRECCION GENERAL GUARDIA CIVIL (HQ, GC)  
 DIRCEN = Direction du Centre d'Experimentations Nucleaires  
 DIVRHIN = Division du Rhin  
 ECOMM = Emergency Communications  
 EEI = Emergency Event Identifier  
 ESRONGENDMOBIL = Escadron Gendarmerie Mobile  
 ESRONGENDROUT = Escadron Gendarmerie Autoroute  
 ETABHYDROC = Etablissement Hydroc, Brest  
 ETAREGMOB = Etablissement Regio Material Mobile  
 FAN = Force d'Action (Toulon)  
 FAO = Flotte Auxiliaire Occasionnelle  
 FAR = Force d'Assistance Rapide  
 FGM = Force de Guerre des Mines (Brest)  
 FLO = ADMINISTRATION MATTERS  
 FLTCINC = US Navy Fleet Commander in chief  
 FMC = FRENCH MISSILE CENTRE  
 FOD = FLAG OFFICER DENMARK (NAVY)  
 FOST = Force Oceanique Strategique  
 FPO = FLEET POST OFFICE  
 GANTSEC = USCG GREATER ANTILLES SECTION, SAN JUAN  
 GASM = Groupe d'Action Sous-Marine (Brest)

GD = Gendarmerie Departmentale  
 GECONUNPF = GERMAN CONTINGENT OF THE UNITED NATIONS PEACE FORCES  
 GM = Gendarmerie Maritime  
 GNF = GENDARMERIE NATIONALE FRANCAIS  
 GOBCIV = CIVIL GOVERNOR  
 GOBMIL = MILITARY GOVERNOR  
 GPO = GENERAL POST OFFICE  
 GROUPEGEND = Groupe Gendarmerie  
 GROUPEGENDEP = GROUPMENT GENDARMERIE DEPARTMENT  
 GROUPEGENDMOBILE = Groupe Gendarmerie Mobile  
 GROUPEHELICO = Groupe Helicoptere  
 GROUPEVOT = GROUPMENT PREVOTAL  
 GUERRE = Mod, Dept of war  
 HGS = INMARSAT REFERENCE  
 HOPIARM = Hopital Instruction des armees  
 IRECHCRIMGEND = Institution Recherche Criminelle de Gendarmerie  
 IRECHCRIMGENDNAT = INSTITUT RECHERCHE CRIMINELLE GENDARMERIE  
 ISCOMGREENLAND = ISLAND COMMANDER GREENLAND  
 JASSM = JOINT AIR-TO-SURFACE STANDOFF MISSILE  
 JECECOM = CHIEF COMMUNICATIONS CENTER  
 JECOR = JEFE CORONEL (CORONEL IN CHARGE)  
 JEMOVIL = JEFATURA MOVIL (MOBILE HQ)  
 JETER = JEFE TERRITORIO (CHIEF OF AREA)  
 JEZO = JEFE ZONA (CHIEF OF REGION)  
 JPATS = JOIN PRIMARY AIRCRAFT TRAINING SYSTEM  
 JPO = JOINT PROGRAM OFFICE  
 JRB = JOINT RESERVE BASE  
 KS-## = CUSTOMS BOAT  
 LEG = Gendarmerie Fort de France  
 LEGF = LEGEND FORT DE FRANCE  
 MACS = MILITARY AERONAUTICAL COMMUNICATIONS SYSTEM  
 MANUARM = ATELIER CONSTRUCTION ARMEMENT  
 MAR = MARITIMO  
 MARAD = MARITIME ADMINISTRATION  
 MARS = MILITARY AFFILIATED RADIO SYSTEM  
 MHQAUST = Military Headquarter of Australia  
 MRCC = MARITIME RESCUE COORDINATION CENTER  
 MRSC = MARITIME RESCUE SUB-CENTER  
 MSCO = MILITAR SEALIFT COMMAND OFFICE  
 NATO = North Atlantic Treaty Organisation  
 NAVCAMS = Naval Communications Area Master Station  
 NAVCOMCEN = Naval Communiaction Center  
 NAVCOMEX = NATO NAVAL COMMUNICATIONS EXERCISES  
 NAVCOMNZ = NAVAL COMMAND NEW ZEALAND  
 NAVCOMSTA = Naval Communications Station  
 NAVMARCORMARS = Naval Marine Corps MARS  
 NAWS = NOTICE TO ALLIED WARSHIPS  
 NCS = NETWORK COORDINATION STATIONS  
 NCSORG = National Center for Shipping Organisation  
 NECOS/NCS = NET CONTROL STATION  
 NLDIRGENSHIPPING = DUTCH DIRECTOR GENERAL SHIPPING  
 NLMOC = NAVAL ATLANTIC METEOROLOGY AND OCEANOGRAPHY CENTER  
 NOGAPS = NAVY OPERATIONAL GLOBAL ATMOSPHERICS PREDICTION SYSTEM  
 NORAD = NORTH AMERICAN AEROSPACE DEFENSE COMMAND  
 NORAPS = NAVY OPERATIONAL REGIONAL ATMOSPHERICS PREDICTION SYSTEM  
 NOSC = NAVAL OCEAN SYSTEMS CENTER  
 NRL = NAVAL RESEARCH LABORATORY  
 NSA = National Shipping Authority  
 NSHQ = NAVAL SUPREEM HEADQUARTER  
 NTDS = NAVY TACTICAL DATA SYSTEM  
 NZCD = NEW ZEALAND CIVIL DEFENSE  
 NZCG = NEW ZEALAND COAST GUARD  
 OCS = OPERATIONAL CONTROL SYSTEM  
 ONI = OFFICE OF NAVAL INTELLIGENCE  
 OPCONC = Operations Control Center  
 OPSCEN = US Coast Guard Area Operations Center  
 PAO-3 = PUBLIC AFFAIRS OFFICER, DETACHMENT 3  
 PICO = SELCAL INDICATOR LIGHT

PMS = PERSONNEL MATTERS  
 PNN = PREFECTURA NACIONAL NAVAL  
 PREFREG = Prefet de Region  
 PROV = PROVINCIA, PROVINCIAL  
 RACE = RESEARCH IN ADVANCED COMMUNICATIONS IN EUROPE  
 RAE = ROYAL AIRCRAFT ESTABLISHMENT  
 RAF = ROYAL AIR FORCE  
 RAFC = ROYAL AREA FORECAST CENTRE  
 RAN = ROYAL AUSTRALIAN NAVY  
 RCMP = ROYAL CANADIAN MOUNTED POLICE  
 REG = Regiment  
 REGARTIMA = Regiment Artillerie de Marine  
 REGCHAUS = REGIMENT CHASSEURS  
 REGHELICO = Regiment Helicoptere  
 REGTRANS = REGIMENT TRANSPORTS  
 RFA = ROYAL FLEET AUXILARY  
 RNZAF = ROYAL NEW ZEALAND AIR FORCE  
 RNZN = ROYAL NEW ZEALAND NAVY  
 RR = Remorqueurs Ravitailleurs  
 SAC = Supreme Allied Commander  
 SACEUR = Supreme Allied Commander Europe  
 SACLANT = Supreme Allied Commander atLANTic  
 SECAEROGEND = Section Aerienne de Gendarmerie  
 SERVHISTO = SERVICE HISTORIQUE ARMEE DE TERRE/MARINE  
 SHAEF = Supreme Headquarters Allied Expeditionary Forces  
 SHAPE = Supreme Headquarters of Allied Powers in Europe  
 SJH = FISH REPORTS AND STUDENT RELATED  
 SMG = SPECIAL MOBILE GROUP  
 SOG = SPECIAL OPERATIONS GROUP  
 SONSOUTRANS = SECTION INTERVENTION ET ENTRETIEN  
 SOO = IRISH NAVY OPERATIONS  
 SOS = SPECIAL OPERATIONS SQUADRON  
 SOW = SPECIAL OPERATIONS WING  
 SRPJ = Service Regional Police Ajaccio  
 STANAVFORLANT = Standing Naval Force North Atlantic  
 STANAVFORMED = Standing Naval Force Mediterranean  
 STRIKEFORSOUTH = STRIKE FORCE SOUTH (NATO)  
 SUNRAY = COMMANDING OFFICER  
 SVC = SERVICIO  
 SVC MAR = SERVICIO MARITIMO (CUSTOMS BOATS)  
 SYRACUSE = Systeme de Radio Communication Utilisant un Satellite  
 TARM = TACTICAL REQUEST NET  
 TCOL = TENIENTE CORONEL  
 TFE = PERSONNEL BUREAU  
 TRANS = Transport  
 UHEL... = HELICOPTER NUMBER XX  
 UNCRO = UN CONFIDENCE RESTORATION OPERATION IN CROATIA  
 UNDOF = UN DISENGAGEMENT AND OBSERVATION FORCES  
 UNDP = UN DEVELOPMENT PROGRAM'S  
 UNECA = UN ECONOMIC COMMISSION FOR AFRICA  
 UNESCAP = UN ECONOMIC AND SOCIAL COMMISSION FOR ASIA & PACIFIC  
 UNF = UN FORCES  
 UNFICYP = UN PEACE FORCE IN CYPRUS  
 UNHCR = UN HIGH COMMISSIONER FOR REFUGEES  
 UNIFIL = UN INTERIM FORCES IN NAQOURA -LEBANON  
 UNMOGIP = UN IN INDIA/PAKISTAN  
 UNO = UNITED NATIONS ORGANIZATION  
 UNOMIL = UN OBSERVER MISSION IN LIBERIA  
 UNOSAL = UN IN EL SALVADOR  
 UNOSOM = UN IN SOMALIA  
 UNPF = UN PEACE FORCES  
 UNPREDEP = UN PREVENTIVE DEPLOYMENT FORCE IN FORMER REP.MACEDONIA  
 UNPROFOR = UN PROTECTION FORCE IN BOSNIA  
 URQ = OPERATIONS RELATED  
 USACE = UNITED STATES ARMY CORPS OF ENGINEERS  
 USAF = UNITED STATES AIRFORCE  
 USAFE = U.S.AIR FORCES EUROPE  
 USARP = UNITED STATE ANTARCTIC RESEARCH PROGRAMM

USCOMEASTLANT	= US Commander East Atlantic
USMC	= UNITED STATE MARINE CORPS
USMILGP	= UNITED STATE MILITARY GROUP
USN	= UNITED STATE NAVY
USNG	= UNITED STATE NATIONAL GUARD
USNO	= UNITED STATE NAVAL OBSERVATORY
USNSFA	= UNITED STATE NAVAL SUPPORT FORCE ANTARCTICA
USSTRATCOM	= UNITED STATE STRATEGIC COMMAND
WESTPAC	= Western Pacific Area
WEU	= UNO MONITOR MISSION IN BOSNIA & TASK FORCE ZAGREB
WSA	= WEATHER SYSTEM ANALYST

Note: indicators including the phrase 'GEND' are GENDARMERIE units.

#### NATO / SFOR Acronyms

AAR	Air-to-Air Refuelling
ABCC	Airborne Battlefield Command and Control
ACFL	Agreed Cease Fire Line
AD	Air Defence
ADAMS	Allied Deployment and Movement System
AEW	Airborne Early Warning
AIE	Armed Islamic Extremists
AMCC	ACE Mobility Coordination Centre
AOCC	Air Operation Coordination Center
AOR	Area of Responsibility
AOT	Area of Transfer
APOD	Air Port of Departure
APOE	Air Port of Embarkation
APWB	Autonomous Province of western Bosnia
ARRC	ACE Rapid Reaction Corps
ARSK	Arjhan Serb Krajina
AW	All weather (RADAR)
B-H	Bosnia - Herzegovina
BDUS	Battle Dress Uniforms
BHC	Bosnia-Herzegovina Command
BIH	Bosnia Herzegovina Army (Muslims)
BKS	Barracks
BSA	Bosnian Serb Army
C-SPT	Commander for Support
C/S	Civilian Staff
CAM	Chemical Agent Monitor
CAS	Close Air Support
CAVOK	Ceiling and Visibility OK
CE	Combat Engineers
CFV	Cease Fire Violation
CIMIC	Civil Military Cooperation
CIVPOL	Civilian Police
CJCCC	Combined Joint Communication Coordination Centre
CL (CFL)	Confrontation Line
COMMZ	Communication Zone
COMSUBMED	Commander Submarines Mediterranean
COS	Chief of Staff
CP	Command Post
CPIC	Coalition Public Information Centre
CPSE	Corps Psyops Support Element
CRD	CINCSOUTH Required Date
CTG	Commander Task Group
CVRT	"Combat Vehicle, Reconnaissance Track"
CVTG	Aircraft Carrier Task Group
DDP	Detailed Deployment Plan
DME	Distant Measure Equipment
DMZ	Demilitarized Zone
DPA	Dayton Peace Agreement
DPS	Displaced Persons
ECMM	European Community Monitoring Mission
FAA	Forward Assembly Area
FI	Fire Incident

FOM	Freedom of Movement
FRY	Federal Republic of Yugoslavia (Serbia and Montenegro)
FWF	Former Warring Factions
GDS	Guards
GFAP	General Framework Agreement for Peace
HMV(HUMMV)	High Mobility Vehicle
HOP	Herald of Peace (Info Campaign)
HR	High Representative
HV	Croatian Army
HVO	Bosnian Croat Forces
ICC	IFOR Coordination Centre
ICRC	International Committee of the Red Cross
ICT	International Criminal Tribunal
ICTY	International Crime Tribunal for Yugoslavia
IEBL	Inter-Entity Boundary Line
IFOR	Peace Implementation Forces
IG	Islamic Group
IIC	IFOR Information Campaign
ILS	Instrument Landing System
IO	International Organization
IPTF	International Police Task Force (UN)
IRGC	Iranian Revolutionary Guard Corps
IVO	In the vicinity of
JAC	Joint Analysis Centre
JCC	Joint Civil Commission
JMC	Joint Military Commission
JMCC	Joint Movement Control Centre
JOC	Joint Operation Centre
JSTARS	Joint Surveillance and Tactical Attack Radar System
JVB	Joint Visitors' Bureau
LAN	Local Area Network
LEC	Locally Employed Civilian
LLMC	Low Level Military Commission
LP	Light Patrol
MC	Mine Countermeasures
MCC	Movement Control Centre
MCF	Muslim-Croat Federation
MCMV	Mine Counter Measure Vessel
MCR	Military-Civil Relations
MEU	Marine Expeditionary Unit
MND	Multinational Division
MSF	M,decins Sans Frontières
NABS	NATO Air Base Satellite
NAVAIDS	Navigational Aids
NFZ	No Fly Zone
NGO	Non Governmental Organisation
NOK	Next of Kin
NSE	National Support Element
OAS	Offensive Air Support
OHR	Office of the High Representative
OP	Observation Post
OP AREA	Operational Area
OPCON	Operational Control
OSA	Operational Support Aircraft
OSCE	Organization for Security and Cooperation in Europe
PAR	Precision Approach Radar
PDC	Product Development Center
PEC	Provisional Election Commission
PI	Public Information
PIO	Public Information Officer
POW	Prisoner of War
PSYOP	Psychological Operation
RAMCC	Regional Air Movement Co-ordination Centre
RAPCON	Radar Approach Control
RBH	Republic of Bosnia-Herzegovina
RECCE	Reconnaissance
RJC	Regional Joint Committee
RM	Restriction of Movement



RMP	Royal Military Police (UK)
ROE	Rule of Engagement
ROZ	Restricted Operating Zone
RSBE	Serbian Republic of Bosnia-Herzegovina
RSK	Republic of Serbian Krajina
RSN	Role Specialist Nation
SA	Small Arms
SCR	Security Council Resolution
SDAP	Serb Democratic Action Party
SFOR	Peace Stabilisation Forces
SFS	Striking and Support Forces Southern Europe
SGT	Satellite Ground Terminal
SIVB	SHAPE/IFOR Visitors' Bureau
SKF	Serb Krajina Forces
SOCIFOR	Special Operations Command IFOR
SOF	Special Operations Forces
SOR	Statement of Requirements
SRHCN	Southern Region High Command Net
SRSG	Special Representative of (UN) Secretary General
SVAS	San Vito Air Station (IT)
TACAN	Tactical Air Navigation (System)
TACP	Tactical Air Control Party
TAOO	Theatre Area of Operations
TCN	Troops Contributing Nation
TEZ	Total Exclusion Zone
TF	Task Force
TOA	Transfer of Authority
TSGT	Transportable Satellite Ground Terminal
TST	Tactical Support Team
UNHCR	UN High Commissary for Refugees
UNMO	UN Military Observer
UNPAS	UN Protected Zone
UNPF	UN Peace Force
UNSCR	UN Security Council Resolution
UNTAES	United Nations Transitional Admin. for Eastern Slavonia
VFR	Visual Flight Rules (Air Navigation System)
VOM	Vertical Omnidirectional Range (Air Navigation System)
VRS	Bosnian Serb Army
WCP	Weapons Collecting Point
WF	Warring Factions
WPN	Weapon

\* Appendix F - most used Z-codes

ZBO I have the following messages (precedence) for you  
i.e. NRVF DE NDIB ZBO 10 2P 3R INT QRV K  
ZEN Message has been delivered by separate transmission or other means  
ZFD Suspected duplicate  
ZFQ Two messages \_\_\_ and \_\_\_ received under channel # \_\_\_\_. Both received  
ZFX Channel #\_\_\_ is open  
ZIC Station serial number of last msg transmitted to you is \_\_\_  
ZID Station serial number of last msg received from you is \_\_\_  
ZKJ I am closing down / I am closing down until \_\_\_\_  
ZNB Authentication is \_\_\_  
ZNN All clear of traffic  
ZNR This message may be forwarded without chance by radio or non-  
approved circuits. (Unclassified messages)  
ZNY This code precedes the security code of a message.  
ZUI Your attention is invited to \_\_\_ (message no. etc)

\* Appendix G - sample messages

Example of a 'NATO UNCLASS' ACP 127 message:

```
-----
vzyczcx1038
rr rffx1
```



bt  
#0301  
nnnn

This is an example of a Modified ACP 126 message in USMTF (US Message Text Format). The message form has not been completely filled in.

-----  
1. Blood Report

LEGEND

RUC = Reporting Unit Code  
SPL = Ship Projected Location  
TBPERP = Total Blood Products End of Report Period  
TBPTFN = Total Blood Products and Time Frame Needed  
EBPEND = Estimate Blood Products to Expire Next 7 Days  
EBPRND = Estimate Blood Products Resupply Next 7 Days

RAAUZYUW XXXXXXXX\ \ \ \ 2771200-UUUU--YYYYYYY.

ZNR UUUUU R 041200Z OCT 93

FM CDRUSAREUR BLOOD BANK LANDSTUHL GE//AJBPO-II//

TO USCINCEUR VAHINGEN GE//ECMD//

ASBPO WASHINGTON DC//

BT

UNCLAS

OPER//

MSGID/BLDREP//

REF//

AMPN//

NARR//

ASOFDTG/\_\_\_\_\_/

REPUNIT/RUC\_\_\_\_\_/UNIT LOCATION/SPL\_\_\_\_\_/SHIP ETA\_\_\_\_//

BLDINVT/RUC\_\_\_\_\_/TBPERP\_\_\_\_//

BLDREQ/RUC\_\_\_\_\_/TBPTFN\_\_\_\_//

BLDEXP/RUC\_\_\_\_\_/EBPEND\_\_\_\_//

BLDEST/RUC\_\_\_\_\_/EBPRND\_\_\_\_//

BT

#\ \ \ \

NNNN

NOTE: "XXXXXXXX" AND "YYYYYYY" ARE FOR ROUTING INDICATORS SPECIFIC FOR INDIVIDUAL COMMANDS/ORGANIZATIONS. CHECK WITH YOUR MESSAGE CENTER FOR CORRECT INDICATORS.

2. Blood Shipment Report

LEGEND

RUC = Reporting Unit Code  
SPL = Ship Projected Location  
BP = Blood Product  
OPOS = Number of O Positive Units  
ONEG = Number of O Negative Units  
APOS = Number of A Positive Units  
ANEG = Number of A Negative Units  
BPOS = Number of B Positive Units  
BNEG = Number of B Negative Units  
ABPOS = Number of AB Positive Units  
ABNEG = Number of AB Negative Units  
TOTCTBP = Total Count of Blood Product Units  
ABN = Air Bill Control Number  
MSN = Mission Number  
ETA = Estimated Time of Arrival  
PRIPHN = Primary Phone Number  
PRIFRQ = Primary Frequency in Megahertz  
SECPHN = Secondary Phone Number  
SECFREQ = Secondary Frequency in Megahertz

RCTUZYUW XXXXXXXX\ \ \ \ 2771200-UUUU--YYYYYYY.



de favieres 132 1608  
znr uuuuu  
contro le de voie  
reponse dans minutes maximum  
nnnn

WUN-str08