

ATTACHMENT II-6

FORMAT FOR THE TEXT OF ADDRESSED MESSAGES AND A GENERAL EXAMPLE OF EACH TYPE GENERAL FORMAT FORM

(only International Telegraph Alphabet No. 5 is shown)

The abbreviated heading format for addressed messages consists of two lines of information.

The form of the abbreviated heading:

T₁T₂ A₁A₂ ii CaCaCaCa YYGGgg CCCC

where,

T ₁ T ₂	=	BM designator for message in alphanumeric form BI designator for addressed message in binary form (use on binary links only)
A ₁ A ₂	=	type of addressed message <u>Options:</u> AA – administrative message (to be passed to a person for information or action) BB – service message (to be passed to a person for action) RR – request for a GTS message by heading or sequence number RQ – request-to-database for data (request format TBD) intended for GDPS action DA – the returned data response to the RR or RQ addressed message
ii	=	always 01 (no exceptions allowed)
CaCaCaCa	=	location indicator of the centre on the GTS to whom the message is addressed
YYGGgg	=	time of insertion on the GTS
CCCC	=	the international location indicator of the centre originating the message

TYPE 1

A₁A₂ = **AA** – Administrative message

The contents of this message type is a simple character free-flowing text, intended for human readability. This message type should be sent to a computer display or a printer. This type text message should be about general operational and/or administrative matters or discussions and GTS coordination topics. The T₁T₂ option to use is BM only, as the text is character data.

Example:

```
345
BMAA01 EDZW 261215
EGRR
ATTN OFFENBACH DATA MANAGER
THE BULLETINS YOU REQUESTED WILL BE RELAY TO YOUR CENTER
BEGINNING THE FIRST OF THE MONTH
SMVG01 TVSV
SMTD01 TTPP
REGARDS, BMO DATA MANAGER SUPERVISOR=
NOTE: EDZW is the centre the message is addressed to; EGRR is the originating centre of the message.
```

TYPE 2

A₁A₂ = **BB** – Service message

The contents of this message type is a simple character free-flowing text, intended for human readability. These message types should be sent to a display or printer. These are text messages about operational status and/or problem resolution matters. The T₁T₂ option to use is BM only, as the text is character data.

Example:

321
 BMBB01 EGRR 281425
 KWBC
 ATTN BRACKNELL COMMUNICATIONS SUPERVISOR
 THE GTS LINK BETWEEN WASHINGTON AND BRASILIA IS DOWN FOR
 6 HOURS DUE TO LINE RECONFIGURATION AT BRASILIA.
 REGARDS, WASHINGTON COMMS SUPERVISOR=
 Note: EGRR is the centre the message is addressed to; KWBC is the originating centre of
 the message.

TYPE 3

A₁A₂ = RR – Request/reply message

The structure of the text for this message type has two specific classes using two different formats in the request text. This addressed message type is for use between nodes of the GTS. To use the CLASS 1 formatted request form, the nodes of the GTS must be adjacent nodes. To use the CLASS 2 formatted request form, the nodes of the GTS do not have to be adjacent to each other. The request/reply type message is for the acquisition of data at the bulletin level and the bulletin is assumed to exist already. If it is sent on an X.25 virtual channel established for the exchange of alphanumeric data, then the T₁T₂ option of BM is recommended; and if, the X.25 virtual channel was established for binary data exchange, then the T₁T₂ option of BI is recommended. If there is only one virtual channel between nodes for both alphanumeric and binary data exchange, it is recommended to use the T₁T₂ option of BI as a default. The use of the T₁T₂ option of BM would be used on all GTS links using character protocols (i.e. BAUDOT or ERROR CONTROL PROCEDURES), as all addressed messages and request/reply responses are alphanumeric.

CLASS 1. Request for repetition — to be sent between adjacent centres only. There can be three choices in the text of the request. The choices are:

1. For requesting only one message by its transmission sequence number;
2. For requesting a range of consecutive transmission sequence numbers; or
3. For requesting a group of specific messages by their transmission sequence numbers.

There will be only one request line per message.

The response to the request/reply CLASS 1 message will consist of two parts. The first part will be the construction and transmission of a status message using the TYPE 5 — data message format, indicating that action has been taken. This will be called a status of action message. The second part will be the transmission of the requested message(s). This will be a repeat of the originally sent message, including the original sequence number(s). The resulting transmission will most likely put the ongoing sequence numbers out of order. This should confirm, for the requesting center, the receipt of the needed message(s).

Choice 1 — Requesting only one (previously received) message

1. Format for an alphanumeric virtual channel or for any non-binary GTS link.

```
(SOH)(CR)(CR)(LF) nnn
(CR)(CR)(LF) BMRR01 CaCaCaCa YYGGgg
(CR)(CR)(LF) CCCC
(CR)(CR)(LF) SQN nnn = [one bulletin]
(CR)(CR)(LF)(ETX)
```

2. Format for a binary virtual channel on X.25 GTS links.

```
(SOH)(CR)(CR)(LF) nnn
(CR)(CR)(LF) BIRR01 CaCaCaCa YYGGgg
(CR)(CR)(LF) CCCC
(CR)(CR)(LF) SQN nnn = [one bulletin]
(CR)(CR)(LF)(ETX)
```

Choice 2 — Requesting a continuous series of (previously received) messages

1. Format for an alphanumeric virtual channel or for any non-binary link.

```
(SOH)(CR)(CR)(LF) nnn
(CR)(CR)(LF) BMRR01 CaCaCaCa YYGGgg
(CR)(CR)(LF) CCCC
(CR)(CR)(LF) SQN nnn-nnn = [a sequence of bulletins]
(CR)(CR)(LF)(ETX)
```

2. Format for a binary virtual channel on X.25 GTS links.

```
(SOH)(CR)(CR)(LF) nnn
(CR)(CR)(LF) BIRR01 CaCaCaCa YYGGgg
(CR)(CR)(LF) CCCC
(CR)(CR)(LF) SQN nnn-nnn = [a sequence of bulletins]
(CR)(CR)(LF)(ETX)
```

Choice 3 — Requesting specific (previously received) messages

1. Format for an alphanumeric virtual channel or for any non-binary link.

```
(SOH)(CR)(CR)(LF) nnn
(CR)(CR)(LF) BMRR01 CaCaCaCa YYGGgg
(CR)(CR)(LF) CCCC
(CR)(CR)(LF) SQN nnn/nnn/nnn = [a selected number of bulletins]
(CR)(CR)(LF)(ETX)
```

2. Format for a binary virtual channel on X.25 GTS links.

```
(SOH)(CR)(CR)(LF) nnn
(CR)(CR)(LF) BIRR01 CaCaCaCa YYGGgg
(CR)(CR)(LF) CCCC
(CR)(CR)(LF) SQN nnn/nnn/nnn = [a selected number of bulletins]
(CR)(CR)(LF)(ETX)
```

NOTE: Limit restriction: only one SQN line in a request.

Example — CLASS 1

```
788
BMRR01 LFPW 301215
DAMM
SQN 212-217=
```

Where LFPW is the centre the message is addressed to and DAMM is the originating centre of the message.

CLASS 2. Request for a bulletin — can be sent to any centre on the GTS. There is only one choice for the form of the text of the request. The form is always alphanumeric, however, the T₁T₂ option of BM is to be used for all requests for alphanumeric messages, and the T₁T₂ option of BI is to be used for all requests for binary messages, as all returned responses will use the same T₁T₂ for the heading type to facilitate proper routing when X.25 or equivalent links are required.

Format for the request:

Requests for messages (alphanumeric message request)

```
(SOH)(CR)(CR)(LF) nnn
(CR)(CR)(LF) BMRR01 CaCaCaCa YYGGgg
(CR)(CR)(LF) CCCC
(CR)(CR)(LF) AHD T1T2A1A2ii CCCC YYGGgg =
(CR)(CR)(LF) AHD T1T2A1A2ii CCCC YYGGgg BBB =
(CR)(CR)(LF)(ETX)
```

NOTE 1: Limit restriction — no more than eight headings in a request beyond an adjacent centre.

NOTE 2: When the date-time group YYGGgg or the time group GGgg is not known, the following requests may be used:

AHD T₁T₂A₁A₂ii CCCC YY//// (BB/) (When BB=RR, CC or AA)

AHD T₁T₂A₁A₂ii CCCC YY//// (P/)

AHD T₁T₂A₁A₂ii CCCC ////

Where YY//// means for day YY, last occurrence in time.

Where //// means last occurrence in day-time and the time is not older than 24 hours.

Examples — CLASS 2

- Used for a non-binary X.25 virtual channel
051
BMRR01 AMMC 081220
KWBC
AHD SNAU55 AMMC 081100 RRA=
AHD SMID20 WIIX 081200=
Where AMMC is the centre the message is addressed to and KWBC is the originating centre of the message.
- Used for a binary X.25 virtual channel only
110
BIRR01 KWBC 081220
AMMC
AHD HTAC30 KWBC 081200 =
AHD HHBC85 KWBC 081200 =
Where KWBC is the centre the message is addressed to and AMMC is the originating centre of the message.

TYPE 4

A₁A₂ = RQ – Request-to-database message

The format for this message type will be in a specific format. The intent is for automatic computer processing. There is one type of request message to a database (for GDPS use).

Format for the request:

(SOH)(CR)(CR)(LF) nnn

(CR)(CR)(LF) BIRQ01 CaCaCaCa YYGGgg

(CR)(CR)(LF) CCCC

(CR)(CR)(LF) [TBD] [To be defined]

(CR)(CR)(LF)(ETX)

TYPE 5

A₁A₂ = DA – Data message

This is the returned data message type. The purpose of this heading is to insure that if the requested data message is a bulletin containing a WMO abbreviated heading, the heading of the requested message heading is not used in the routing of the response back to the requesting centre. To insure proper routing the T₁T₂ for either BM or BI must reflect the code type in the returning data message. The data message has four different response forms. The response can be:

1. The requested message;
2. Message not found;
3. Message heading not recognized; or
4. Status message of action taken on RR CLASS 1 request.

There is only one bulletin or meta-data file in a responding data message. In the examples below, assume the data message can either be BM or BI for CLASS 1 depending on the virtual channel used. If both the alphanumeric and binary messages are transmitted on only one virtual channel the use of BI will be the default.

Example of a requested message:

```
543
BMDA01 KWBC 081550
AMMC
SIID20 WIIX 081500
AAXX 08151
58424 42975 02203 10297 20251 40037 52008=
```

Where KWBC is the centre the message is addressed to and AMMC is the originating centre of the message.

Example of the message not found (NIL response):

```
189
BMDA01 KWBC 081250
AMMC
NIL SNAU55 AMMC 081100 RRB=
```

Where KWBC is the centre the message is addressed to and AMMC is the originating centre of the message.

Example of the message not recognized (ERR response):

```
154
BMDA01 KWBC 081250
AMMC
ERR SIID20 WIIX 081200=
```

Where KWBC is the centre the message is addressed to and AMMC is the originating centre of the message.

Example of the reply message to the RR type CLASS 1 request (STATUS response):

```
264
BMDA01 RJTD 101255
KWBC
RETRANSMISSION ACTIVATED FOR 212-218=
```

Where RJTD is the centre the message is addressed to and KWBC is the adjacent originating centre of the message.

NOTE: Limitation — circuits or virtual channels with priority queues must guard against confusion when selecting and responding to sequence number requests for transmission.

Where: (CR) = Carriage return
 (LF) = Line feed
 (SOH) = Start of header control character
 (ETX) = End of text control character