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INTERWORKING WITH SATELLITE MOBILE SYSTEMS

INTERWORKING BETWEEN SIGNALLING SYSTEM No. 5 AND INMARSAT STANDARD A SYSTEM

ITU-T Recommendation Q.1103

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation Q.1103 was published in Fascicle VI.14 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 In this Recommendation, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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Recommendation Q.1103

INTERWORKING BETWEEN SIGNALLING SYSTEM No. 5 AND INMARSAT STANDARD A SYSTEM

1 Introduction

It is necessary to specify the interworking of Signalling System No. 5 and the signalling system used in the INMARSAT Standard A system. This is because:

- a) it may be desirable that a Maritime Satellite Switching Centre (MSSC)¹⁾ be connected to an international switching centre (ISC) by employing System No. 5 on circuits between the MSSC and the ISC;
- b) the signalling systems used in the Maritime Mobile-Satellite Service will be different from System No. 5. Therefore it would be necessary to establish rules by which signalling events in one system may be related to corresponding events in the other system.

It is desirable that the interworking be such that the full capability of both System No. 5 and the maritime satellite signalling system can be utilized.

This Recommendation considers only automatic interworking between the MSSC and an ISC utilizing System No. 5.

For description of the INMARSAT Standard A signalling system, see Annex A to Recommendation Q.1101.

2 Calls from Signalling System No. 5 to the maritime system (see figure 1 /Q.1103)

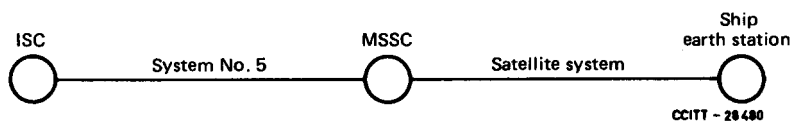


FIGURE 1/Q.1103

2.1 The ISC sends the seizing signal followed by either of the following sequences of address signals:

2.1.1 Signal KP1 followed by the discriminating (or language) digit and the number of the wanted ship earth station when the country code 87S is not required for routing in the MSSC.

2.1.2 Signal KP2 followed by 87S, discriminating (or language) digit and the number of the wanted ship earth station when the country code is required for routing in the MSSC.

2.2 The MSSC register should ignore further digits when either:

- a) the ST signal has been received by the MSSC, or
- b) the busy-flash signal has been sent by the MSSC.

2.3 The answer signal should be sent in the backward direction as soon as the answer signal over the satellite link has been detected.

¹⁾ For definition, see Recommendation Q.1101.