



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**Q.475**

**SPECIFICATIONS OF SIGNALLING SYSTEM R2  
SIGNALLING PROCEDURES**

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**NORMAL RELEASE OF OUTGOING AND  
INCOMING R2 REGISTERS**

**ITU-T Recommendation Q.475**

(Extract from the *Blue Book*)

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## NOTES

1 ITU-T Recommendation Q.475 was published in Fascicle VI.4 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.

## **5.4 NORMAL RELEASE OF OUTGOING AND INCOMING R2 REGISTERS**

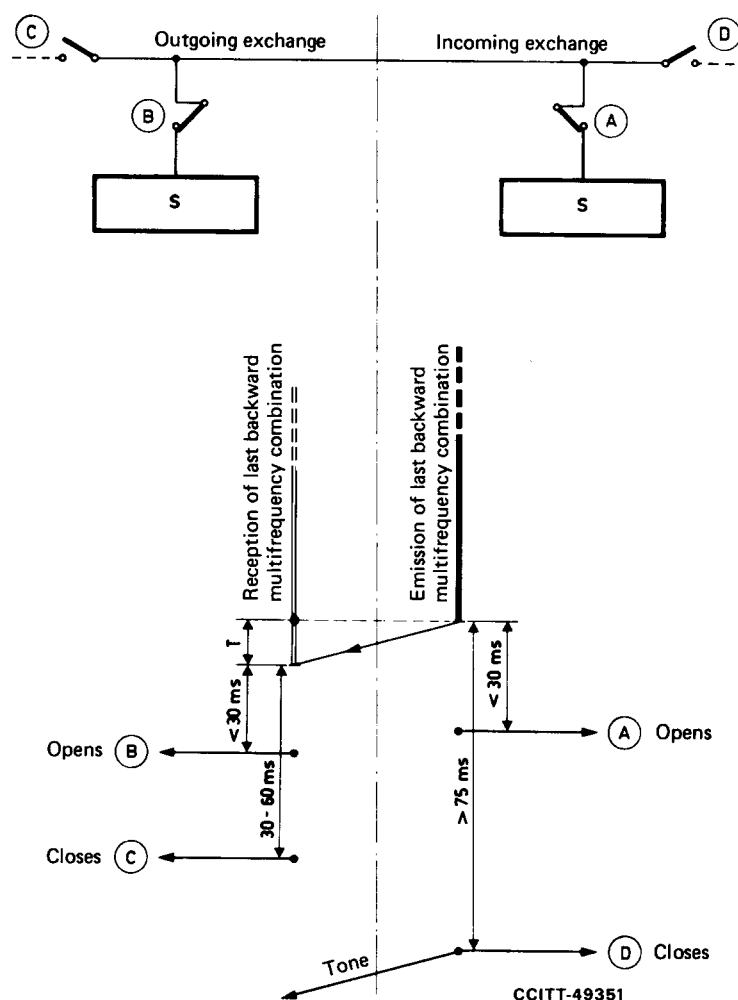
An outgoing international R2 register must be released once it has received an appropriate backward interregister signal terminating the interregister signalling, or on receipt of a clear-forward (line) signal from the preceding link.

An incoming R2 register must be released once it has accomplished the necessary switching control and terminated the interregister signalling required, or on receipt of a clear-forward (line) signal from the preceding link.

The last recognized interregister signal preceding setting up of speech conditions will normally be a backward signal: e.g. address-complete signal A-6, subscriber's line free signals B-6 or B-7.

The multifrequency combination receivers at the two ends must be disconnected before the switching equipment passes to the speech condition; this procedure eliminates any possibility of their operating or being held under the influence of speech or line signals. The following conditions regarding the duration of the various phases should be observed (see Figure 20/Q.475):

- a)* the multifrequency signalling equipment of the incoming R2 register must be disconnected within 30 ms after recognition of the end of transmission of the last backward signal;
- b)* the multifrequency signalling equipment of the outgoing R2 register must be disconnected within 30 ms after recognition of the end of the last backward signal;
- c)* at the outgoing exchange speech conditions must be set up between 30 and 60 ms after recognition of the end of the last backward signal. However, at the exchange where the outgoing international R2 register is situated, the setting-up of speech conditions depends upon the signalling system employed on the preceding link;
- d)* at the incoming exchange at least 75 ms must elapse between the end of transmission of the last backward signal and the setting up of speech conditions.



T = transmission delay + recognition time for the disappearance of the last backward multifrequency combination  
 S = multifrequency signalling equipment (see Recommendation Q.451)

Note – The same transmission delay is assumed for all signals.

FIGURE 20/Q.475

Disconnection of multifrequency signalling equipment and switching to the speech position