TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU

Q.463

SPECIFICATIONS OF SIGNALLING SYSTEM R2 SIGNALLING PROCEDURES

SIGNALLING BETWEEN THE OUTGOING INTERNATIONAL R2 REGISTER AND AN INCOMING R2 REGISTER IN A NATIONAL EXCHANGE IN THE DESTINATION COUNTRY

ITU-T Recommendation Q.463

(Extract from the Blue Book)

NOTES

1	ITU-T	Γ Recomm	endation	Q.463	was pi	ublishe	d in	Fascicle	VI.4	of the	Blue	Book.	This	file	is an	extract	from
the Blue	Book.	While the	presentati	on and	layou	t of the	e tex	t might	be slig	htly d	ifferer	nt from	the I	Blue	Book	versio	n, the
contents	of the f	file are ide	ntical to th	ne <i>Blue</i>	Book	versio	n and	d copyri	ght coi	nditior	is rem	ain und	chang	ged (s	ee be	elow).	

2	In	this	Recommendation,	the	expression	"Administration"	is	used	for	conciseness	to	indicate	both	a
telecomn	nuni	catio	n administration and											

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5.1.3 SIGNALLING BETWEEN THE OUTGOING INTERNATIONAL R2 REGISTER AND AN INCOMING R2 REGISTER IN A NATIONAL EXCHANGE IN THE DESTINATION COUNTRY

5.1.3.1 Signalling to a national transit exchange

The outgoing international R2 register sends the requested address digit as the first signal to be received by the incoming R2 register in the national transit exchange in the destination country.

The incoming R2 register examines the digit and if a further digit (or digits) is required for routing, signal A-1 is sent to request the next digit.

When sufficient digits are stored at the incoming exchange to permit the call to be routed to the next exchange the backward signal (if any) is determined by the nature of the signalling system employed on the outgoing link and the national routing principles.

- a) If the outgoing national link employs System R2 a backward signal may be sent after the outgoing link is seized to request the address digit required as the first signal to be received by the incoming R2 register in the next exchange. The signalling procedure which occurs is similar to that described in § 5.1.2.2 a) above.
- b) If the outgoing link employs System R2 but end-to-end international/national signalling cannot be used, the register in the national exchange relays the interregister signals: it acts as an outgoing R2 register. The digits received by this outgoing R2 register are retransmitted over the outgoing link at the request of the incoming R2 register in the following exchange(s) (see Recommendation O.478).
- c) If the outgoing link employs a signalling system other than System R2 then the acting incoming R2 register is the last incoming R2 register. The exchange seizes an outgoing national link to the next national exchange. Signalling continues between the outgoing international R2 register and the last incoming R2 register and interworking takes place with the other signalling system.

If congestion is encountered signal A-4 is sent (if necessary in pulse form) and the incoming R2 register is released.

On recognition of congestion signal A-4 the outgoing exchange releases the outgoing multi-link section and causes the return of congestion information to the calling subscriber.

5.1.3.2 Signalling to a national exchange to which the called subscriber is connected

When the outgoing multi-link section is routed to the national exchange to which the called subscriber is connected the acting incoming R2 register is the last incoming R2 register: the outgoing international R2 register sends the requested address digit as the first signal to be received by the last incoming R2 register and signalling continues as described below.