



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**Q.606**

**INTERWORKING OF SIGNALLING SYSTEMS**

---

**LOGIC PROCEDURES**

**ITU-T Recommendation Q.606**

(Extract from the *Blue Book*)

---

## NOTES

1 ITU-T Recommendation Q.606 was published in Fascicle VI.6 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.

## **6 LOGIC PROCEDURES**

The logic procedures are prepared as:

- a) logic procedures for incoming signalling systems,
- b) interworking logic procedures,
- c) logic procedures for outgoing signalling systems.

A state overview diagram is provided with each procedure. The state overview diagram:

- lists the states for the logic,
- provides a sheet reference for each state, and
- shows permitted transitions between states.

In addition, notes and timers are provided.

### **6.1     *Incoming signalling system logic procedures***

In specifying the logic procedures the following elements are used:

- a) inputs in the form of forward signals,
- b) outputs in the form of FITEs,
- c) inputs in the form of BITEs,
- d) outputs in the form of backward signals,
- e) time supervision arrangements,
- f) routing and switching aspects that are needed for interworking (SPITEs).

Incoming signalling system logic procedures are provided for:

- Signalling System No. 4 in Recommendation Q.611,
- Signalling System No. 5 in Recommendation Q.612,
- Signalling System No. 6 in Recommendation Q.613,
- Signalling System No. 7 (TUP) in Recommendation Q.614,
- Signalling System R1 in Recommendation Q.615,
- Signalling System R2 in Recommendation Q.616.

## 6.2 *Interworking logic procedures*

In specifying the logic procedures the following elements are used:

- a) inputs in the form of FITEs from the incoming signalling system,
- b) outputs in the form of FITEs to the outgoing signalling system,
- c) inputs in the form of BITEs from the outgoing signalling system,
- d) outputs in the form of BITEs to the incoming signalling system,
- e) routing and switching aspects that are needed for interworking (SPITEs).

Interworking logic procedures can be provided for every possible combination of CCITT Signalling Systems.

The following interworking combinations are provided:

- Signalling System No. 4 to R2 in Recommendation Q.634,
- Signalling System No. 5 to No. 6 in Recommendation Q.642,
- Signalling System No. 5 to No. 7 (TUP) in Recommendation Q.643,
- Signalling System No. 5 to R1 in Recommendation Q.644,
- Signalling System No. 5 to R2 in Recommendation Q.645,
- Signalling System No. 6 to No. 5 in Recommendation Q.652,
- Signalling System No. 6 to No. 7 (TUP) in Recommendation Q.653,
- Signalling System No. 6 to R1 in Recommendation Q.654,
- Signalling System No. 6 to R2 in Recommendation Q.655,
- Signalling System No. 7 (TUP) to No. 5 in Recommendation Q.662,
- Signalling System No. 7 (TUP) to No. 6 in Recommendation Q.663,
- Signalling System No. 7 (TUP) to No. 7 in Recommendation Q.664,
- Signalling System No. 7 (TUP) to R1 in Recommendation Q.665,
- Signalling System No. 7 (TUP) to R2 in Recommendation Q.666,
- Signalling System R1 to No. 5 in Recommendation Q.671,
- Signalling System R1 to No. 6 in Recommendation Q.672,
- Signalling System R1 to No. 7 (TUP) in Recommendation Q.673,
- Signalling System R1 to R2 in Recommendation Q.674,
- Signalling System R2 to No. 4 in Recommendation Q.681,
- Signalling System R2 to No. 5 in Recommendation Q.682,
- Signalling System R2 to No. 6 in Recommendation Q.683,
- Signalling System R2 to No. 7 (TUP) in Recommendation Q.684,
- Signalling System R2 to R1 in Recommendation Q.685.

### 6.3 *Outgoing signalling system logic procedures*

In specifying the logic procedures, the following elements are used:

- a) inputs in the form of FITEs,
- b) outputs in the form of forward signals,
- c) inputs in the form of backward signals,
- d) outputs in the form of BITEs,
- e) time supervision arrangements,
- f) routing and switching aspects that are needed for interworking (SPITEs).

Outgoing logic procedures are provided for:

- Signalling System No. 4 in Recommendation Q.621,
- Signalling System No. 5 in Recommendation Q.622,
- Signalling System No. 6 in Recommendation Q.623,
- Signalling System No. 7 (TUP) in Recommendation Q.624,
- Signalling System R1 in Recommendation Q.625,
- Signalling System R2 in Recommendation Q.626.