INTERNATIONAL TELECOMMUNICATION UNION

# CCITT T.522

THE INTERNATIONAL
TELEGRAPH AND TELEPHONE
CONSULTATIVE COMMITTEE

(09/92)

## TERMINAL EQUIPMENT AND PROTOCOLS FOR TELEMATIC SERVICES

# COMMUNICATION APPLICATION PROFILE BT1 FOR DOCUMENT BULK TRANSFER

**Recommendation T.522**

## FOREWORD

The CCITT (the International Telegraph and Telephone Consultative Committee) is a permanent organ of the International Telecommunication Union (ITU). CCITT is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The Plenary Assembly of CCITT which meets every four years, establishes the topics for study and approves Recommendations prepared by its Study Groups. The approval of Recommendations by the members of CCITT between Plenary Assemblies is covered by the procedure laid down in CCITT Resolution No. 2 (Melbourne, 1988).

Recommendation T.522 was revised by Study Group VIII and was approved under the Resolution No. 2 procedure on the 18th of September 1992.

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CCITT NOTE

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

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INTRODUCTION

T.400-Series Recommendations define the open document architecture (T.410-Series Recommendations) and the DTAM services and protocols (T.430-Series Recommendations) for the purpose of the document transfer and manipulation. In order to apply T.400-Series Recommendations to various telematic services, it is necessary to specify the DTAM application profile for each service that consists of a document application profile and a communication application profile.

According to this requirement, T500-Series Recommendations define the document application profiles and T.520-Series Recommendations define the communication application profiles.

Recommendation T.522 is one of a set of T.520-Series Recommendations to define the communication application profile for the document bulk transfer using X.200 environment.

**Recommendation T.522**

# COMMUNICATION APPLICATION PROFILE BT1 FOR DOCUMENT BULK TRANSFER

*(revised 1992)*

## 1 Scope and field of application

This Recommendation defines the communication application profile for the document bulk transfer in terms of

a) DTAM functional units used;

b) DTAM service primitives and parameters used.

## 2 References

The following references are required in order to implement the communication profile defined in this Recommendation.

- CCITT Recommendation T.431, *Document transfer and manipulation (DTAM) – Service and protocols – Introduction and general principles.*
- CCITT Recommendation T.432, *Document transfer and manipulation (DTAM) – Service protocols – Service definition.*
- CCITT Recommendation T.433, *Document transfer and manipulation (DTAM) – Service and protocols – Protocol specification.*

## 3 Definitions

The definitions of T.400-Series Recommendations also apply to this Recommendation.

## 4 Abbreviations and conventions

The abbreviations and conventions defined in T.400-Series Recommendations also apply to this Recommendation.

## 5 Definitions of communication application profile BT1

### 5.1 *Overview of BT1*

This Recommendation defines functional units and communication support function in accordance with Recommendation T.431.

BT1 uses the document bulk transfer in normal mode (RTSE) as defined in Recommendation T.433.

### 5.2 *DTAM functional units*

The following functional units defined in Recommendation T.432 are used for BT1:

- association use control (kernel);
- capability;
- document bulk transfer;
- token control.

### 5.3 *DTAM service primitives and parameters*

General DTAM service definition and parameters are defined in Recommendation T.432. This section specifies the parameters of DTAM service of BT1.

#### 5.3.1 *D-INITIATE service parameters*

The following parameters of this service

- telematic requirements; and
- application capabilities,

are used as follows (See Table 1/T.522.).

1) *Telematic requirements*

The following functional units defined in Recommendation T.432 are used for BT1 as mandatory functional units:

- association control (kernel);
- document bulk transfer;

– token control;

– capability.

2) *Application capabilities*

This "application capabilities" is defined in Recommendation T.432 and the following sub-parameters are used:

– ODA Application capabilities

a) Document application profile

This parameter is used as defined in Recommendation T.432.

b) Non-basic document characteristics

This is the "non-basic document characteristics" defined in Recommendation T.432.

c) Non-basic structure characteristics

This is the "non-basic structure characteristics" defined in Recommendation T.432.

– File transfer capabilities

a) BFT capabilities

This parameter is used as defined in Recommendation T.432.

b) Transparent data capability

This parameter is used as defined in Recommendation T.432.

The Transparent mode service parameter is not used. The other service parameters are used as defined in Recommendation T.432.

TABLE 1/T.522

**Usage of theTelematic requirements and Application capabilities service parameters for BT1**

| | D-INITIATE request | D-INITIATE indication | D-INITIATE response | D-INITIATE confirm |
|---|---|---|---|---|
| Telematic requirements | M | M(=) | M | M(=) |
| Application capabilities | M | M(=) | M | M(=) |
| — ODA application capabilities | | | | |
| Document Application probile | M | M(=) | M | M(=) |
| Non-basic document characteristics | U | C(=) | U | C(=) |
| Non-basic structure characteristics | U | C(=) | U | C(=) |
| — File transfer capabilities | | | | |
| BFT capabilities | U | C(=) | U | C(=) |
| Transparent data capability | U | C(=) | U | C(=) |

5.3.2 *D-TERMINATE service parameters*

This service has no parameter for BT1. Only the initiator can issue D-TERMINATE. In addition, the initiator can issue D-TERMINATE only if he has the data token.

5.3.3 *D-U-ABORT service parameters*

This service has the parameter of "user information". This parameter is used as defined in Recommendation T.432.

5.3.4 *D-CAPABILITY service parameters*

The following parameter of this service is as follows:

– Application capabilities

This "application capabilities" is defined in Recommendation T.432 and the following sub-parameters are used:

– ODA application capabilities

a) Document application profile

This parameter is used as defined in Recommendation T.432.

b) Non-basic document characteristics

This is the "non-basic document characteristics" defined in Recommendation T.432.

c) Non-basic structure characteristics

This is the "non-basic structure characteristics" defined in Recommendation T.432.

– File transfer capabilities

a) BFT capabilities

This parameter is used as defined in Recommendation T.432.

b) Transparent data capability

This parameter is used as defined in Recommendation T.432.

(See Table 2/T.522.)

TABLE 2/T.522

**Usage of the Application capabilities service parameter for BT1**

| | D-CAPABILITY request | D-CAPABILITY indication | D-CAPABILITY response | D-CAPABILITY confirm |
|---|---|---|---|---|
| Application capabilities | M | M(=) | M | M(=) |
| — ODA Application capabilities | | | | |
| Document application profile | M | M(=) | M | M(=) |
| Non-basic document characteristics | U | C(=) | U | C(=) |
| Non-basic structure characteristics | U | C(=) | U | C(=) |
| — File transfer capabilities | | | | |
| BFT capabilities | U | C(=) | U | C(=) |
| Transparent data capability | U | C(=) | U | C(=) |

5.3.5 *D-TRANSFER service parameters*

This D-TRANSFER service is used as defined in Recommendation T.432.

5.3.6 *D-CONTROL GIVE service parameters*

This parameter is used as defined in Recommendation T.432.

5.3.7 *D-TOKEN PLEASE service parameters*

The D-TOKEN PLEASE service is used to request the data token. The service has the parameter priority as defined in Recommendation T. 432. BT1 uses the value two (normal priority).

*Note* – Whether a D-CONTROL GIVE request is issued as an answer to a D-TOKEN request is a user option.