

**Implementation of ISO/IEC 10021-7 : 1990**

**Information technology —  
Text Communication —  
Message-Oriented Text  
Interchange Systems  
(MOTIS) —**

**Part 7: Interpersonal Messaging System**

## National foreword

This British Standard reproduces verbatim ISO/IEC 10021-7 : 1990 and implements it as the UK national standard.

This British Standard is published under the direction of the Information Systems Technology Standards Policy Committee whose Technical Committee IST/18 has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international committee any enquiries on interpretation, or proposals for change, and keep UK interests informed;
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**Implementation of Technical Corrigendum 1**

published and effective from 30 September 1991  
to BS ISO/IEC 10021-7 : 1990

**Information technology – Text Communication –  
Message-Oriented Text Interchange Systems  
(MOTIS) –**

**Part 7: Interpersonal Messaging System**

AMD 6851  
September 1991

**National foreword**

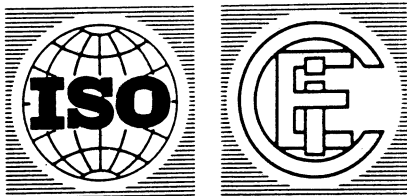
In line 1, after 'ISO/IEC 10021-7 : 1990' insert, 'including Technical  
Corrigendum 1'.

AMD 6851  
September 1991

**ISO text**

Insert the attached as appropriate.





INTERNATIONAL STANDARD ISO/IEC 10021-7 : 1990  
TECHNICAL CORRIGENDUM 1

Published 1991-07-01

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# Information technology — Text Communication — Message-Oriented Text Interchange Systems (MOTIS) —

## Part 7: Interpersonal Messaging System

### TECHNICAL CORRIGENDUM 1

*Technologies de l'information — Communication de texte — Systèmes d'échange de texte en mode message —*

*Partie 7: Système de messagerie de personne à personne*

*RECTIFICATIF TECHNIQUE 1*

Technical corrigendum 1 to International Standard ISO/IEC 10021-7 : 1990 was prepared by ISO/IEC JTC 1, *Information technology*.

Page 6

#### Subclause 7.1.1

In the ASN.1 production for **IPMIdentifier** change the definition of "user" from "ORAddress" to "ORName".

In bullet a) second sentence, change "O/R addresses" to "O/R names".

UDC 681.3 : 621.39

Ref. No. ISO/IEC 10021-7 : 1990/Cor.1 : 1991 (E)

**Descriptors:** data processing, information interchange, network interconnection, open systems interconnection, data transmission, text communication, messages.

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*Page 14*

### **Subclause 7.3.3**

In bullet b), replace the paragraph "This conditional parameter..." with the following:

"This conditional parameter may be absent if the data component is of basic G3 Facsimile type. If the data component is of a non-basic type, it shall be present if (but not only if) the Body contains two or more G3 Facsimile body parts. The absence of this parameter when the data component is of a non-basic type is discouraged.

NOTE — Its absence in these conditions provides compatibility with CCITT Recommendation X.420 (1984)."

*Page 15*

### **Subclause 7.3.5**

In bullet c), replace the paragraph "This conditional parameter..." with the following:

"This conditional parameter may be absent if the data component is of basic Teletex type. If the data component is of a non-basic type, it shall be present if (but not only if) the Body contains two or more Teletex body parts. The absence of this parameter when the data component is of a non-basic type is discouraged.

NOTE — Its absence in these conditions provides compatibility with CCITT Recommendation X.420 (1984)."

*Page 28*

### **Subclause 12.1.3**

In point a) ii) delete the second sentence.

*Page 46*

### **Subclause 18.5.3.2**

In the first paragraph change "whose Body comprises a single body part" to "whose Body contains a body part".

*Page 48*

### **Subclause 19.2**

In point b) iii), after "All body parts" insert "(the body parts as single attributes, or the data component only from all body parts)"

*Page 49*

### **Subclause 19.5**

Add the following sentence to the end of the second paragraph:

"The Message body part becomes the last body part of the submitted message body."

*Page 60*

**Subclause C.1.2**

In point d) after "the body part" insert "(as a single attribute or the data component only)".

*Page 73*

**Annex E**

In the ASN.1 production for **IPMIdentifier** change the definition of "user" from "ORAddress" to "ORName".

*Page 95*

**Annex J**

Under NOTIFICATION ATTRIBUTES in "**subject-ipm**", in the line "MATCHES FOR" delete "SUBSTRINGS".





**Implementation of Technical Corrigendum 2  
published and effective from 15 July 1992  
to BS ISO/IEC 10021-7 : 1990**

**Information technology – Text Communication –  
Message-Oriented Text Interchange Systems  
(MOTIS) –**

**Part 7: Interpersonal Messaging System**

AMD 7144  
July 1992

National foreword (as amended by Technical Corrigendum 1)

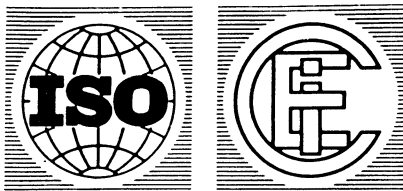
In line 1, after 'Technical Corrigendum 1' insert, 'and Technical Corrigendum 2'.

AMD 7144  
July 1992

ISO text

Insert the attached as appropriate.





# INTERNATIONAL STANDARD ISO/IEC 10021-7 : 1990 TECHNICAL CORRIGENDUM 2

Published 1991-12-15

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION  
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## Information technology — Text Communication — Message-Oriented Text Interchange Systems (MOTIS) —

### Part 7: Interpersonal Messaging System

#### TECHNICAL CORRIGENDUM 2

*Technologies de l'information — Communication de texte — Systèmes d'échange de texte en mode message —*

*Partie 7: Système de messagerie de personne à personne*

*RECTIFICATIF TECHNIQUE 2*

Technical corrigendum 2 to International Standard ISO/IEC 10021-7 : 1990 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

*Page 14*

#### Clause 7.3.3

Replace the third paragraph with the following:

"The data component is the facsimile images, a Sequence of Bit Strings, each encoding a single page of Group 3 facsimile data as dictated by CCITT Recommendation T.4, but filled out to a multiple of 8 bits with additional zero bits, and with each group of 8 bits reversed such that, for each page of the T.4 data:

the 1st bit in the T.4 data becomes the 8th bit in the G3FacsimileData bit string,  
the 8th bit in the T.4 data becomes the 1st bit in the G3FacsimileData bit string,  
the 9th bit in the T.4 data becomes the 16th bit in the G3FacsimileData bit string,  
the 16th bit in the T.4 data becomes the 9th bit in the G3FacsimileData bit string, etc."

UDC 681.3 : 621.39

Ref. No. ISO/IEC 10021-7 : 1990/Cor.2 : 1991 (E)

**Descriptors:** data processing, information interchange, network interconnection, open systems interconnection, data transmission, text communication, messages.

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Page 29

**Clause 12.2.1**

In the paragraph that starts "The report received may...", change "report's recipients" to "report's recipient".

Page 39

**Clause 18.2.1**

In point a) iii) change "*Content-identifier*" to "*Content-identifier and Content-correlator*".

Page 40

**Clause 18.2.2**

In point a) iii) change "*Content-identifier*" to "*Content-identifier and Content-correlator*".

Page 41

**Clause 18.2.3**

In point a) iii) change "*Content-identifier*" to "*Content-identifier and Content-correlator*".

Page 45

**Clause 18.5.2.2**

In point a) iii) delete the second sentence.

Page 46

**Clause 18.5.3.2**

Replace point a) by:

"a) *Parameters*: The Envelope argument and the Delivery Time argument of Message Delivery. See clause 7.3.8."

Page 46

**Clause 18.5.3.3**

In point a) iii) change "*Content-identifier*" to "*Content-identifier and Content-correlator*".

Page 47

## Clause 19.1

Insert new point c) and renumber existing c) to d)

"c) The MS shall maintain as a separate information object the Returned IPM which may be present in an NRN."

Add the following new clause after 19.1:

### "19.1.1 Creation of child-entries

The following general-attribute-types shall be present in child-entries: content, content-length, content-type, creation-time, entry-status, entry-type, parent-sequence-number, sequence-number. The absence of a delivery envelope precludes the generation of other general-attributes which are mandatory in Table 1 of ISO/IEC 10021-5 for the following types of child-entry:

- a) the Returned-content of a delivery report which contains an IPM or NRN;
- b) the Returned IPM optionally present in an NRN;
- c) the Message body part (i.e. the forwarded IPM) of a forwarding IPM where the Parameters component of the body part is absent.

In the case where a child-entry is generated from a Message body part in which the Parameters component is present:

- a) if Delivery-time is present in Parameters then the message-delivery-time general-attribute-type shall be present;
- b) if Delivery-envelope is present in Parameters then all the other mandatory general-attribute-types defined for a delivered-message entry shall be present except for message-delivery-envelope and message-delivery-identifier which shall be absent.

All child-entries except those containing returned content shall be given an entry-type value of delivered-message."

Page 51

## Clause 22.2

Insert a new paragraph at the end:

"In addition, the implementor of a TLMA or AU shall state whether he is claiming conformance for import or export or both."

Page 52

## Clause 22.3

In point d), delete the last sentence. Add a new point:

"e) A TLMA or AU<sup>2</sup> shall be able to import and/or export such messages, according to the conformance claimed."

Page 53

## Clause A.2

Add to the end of the first paragraph "The two-character language code may optionally be followed by a space and a two-character ISO 3166 country code (see ISO 639 clause 4.4) if it is necessary to identify a specific national usage of the language (e.g., "en" identifies the English language, "en GB" identifies English as used in the UK, and "en US" identifies English as used in the USA)."

Change the **Language** production **SIZE** constraint to "(SIZE (2..5))".

Page 55

## Clause B.2

Change the definition of **GeneralTextParameters** to read

```
GeneralTextParameters ::= SET OF CharacterSetRegistration
```

In the paragraph starting "The Parameters component", replace "the designators of the G0, G1, G2, G3, C0 and C1 sets that" by "a list of the character set registrations that are or". In the second sentence, replace "character set designator is represented by the escape sequence" by "character set is represented by the registration number".

Replace the paragraph starting "The absence of the G0 and C0..." by:

"The implicit character sets (registration numbers 2 and 1) specified by the ASN.1 Basic Encoding Rules should be present in the Parameters component if they are used."

Replace the definition of **CharacterSetDesignator** by

```
CharacterSetRegistration ::= INTEGER (1..32767)
```

In the paragraph starting "The Data component", in the second sentence, replace "G and C sets other than those defined" by "Character set designators other than those for character sets defined"

In the paragraph starting "For this extended body part type", replace the second sentence by "One EIT is used for each character set the Parameters component has explicitly identified."

Replace Note 1 by:

"1. It is preferred that the list of characters sets within the Parameters component includes only the registration numbers of those character sets which are actually used within the Data component."

Modify Note 2 by replacing "These Basic Encoding Rules require that the escape sequences for the G1, G2, G3 and C1 character set designators are repeated" by "The ASN.1 Basic Encoding Rules (ISO/IEC 8825) provide character set 2 and character set 1 as initially designated and invoked into G0 and C0 respectively. These rules require that any other character set designators are inserted"

Add a new Note 3 as follows:

"3. The registration numbers and the associated escape sequences for the character set designators are defined in the *ISO International Register of Coded Character Sets To Be Used With Escape Sequences*. This is the register established in accordance with ISO 2375."

*Page 56*

## **Annex C**

In the third paragraph replace the second and third sentences with :

"This table records their presence in a delivered IPM, NRN, and RN. Where a delivery report contains returned content, the child-entry so created shall possess the attributes indicated for an IPM, NRN, or RN as appropriate. Where a delivered NRN contains a returned IPM, the child-entry so created shall possess the attributes indicated for an IPM. Where an IPM (whether delivered, in the returned content of a delivery report, or returned in a delivered NRN) contains a Message body part, the child-entry so created shall possess the attributes indicated for an IPM."

*Pages 57 and 58*

## **Table C.1**

In the columns headed IPM, NRN and RN change all instances of "M" to "P".

*Page 58*

## **Annex C**

After Table C.1 insert:

"The example in Table C.2 illustrates the use of child entries in the stored-messages information-base. This Table shows four sets of entries corresponding respectively to a delivered IPM, a delivered RN, a delivered NRN, and a delivered report concerning a previously submitted IPM."

**Table C.2**  
**Example of Use of Child-entries**

| Sequence number | Entry-type        | Child sequence numbers | Parent sequence numbers | IPM entry-type | Notes                                           |
|-----------------|-------------------|------------------------|-------------------------|----------------|-------------------------------------------------|
| 100             | delivered-message | 101, 102               | —                       | IPM            | Delivered IPM containing two message body parts |
| 101             | delivered-message | —                      | 100                     | IPM            | Message body part 1                             |
| 102             | delivered-message | —                      | 100                     | IPM            | Message body part 2                             |
| 120             | delivered-message | —                      | —                       | RN             | No child-entries possible                       |
| 130             | delivered-message | 131                    | —                       | NRN            | Contains a returned IPM                         |
| 131             | delivered-message | 132                    | 130                     | IPM            | Contains one message body part                  |
| 132             | delivered-message | —                      | 131                     | IPM            | Message body part                               |
| 140             | delivered-report  | 141                    | —                       | —              | Contains at least one non-delivery report       |
| 141             | returned-content  | 142                    | 140                     | IPM            | Contains one message body part                  |
| 142             | delivered-message | —                      | 141                     | IPM            | Message body part                               |

Page 62

#### Clause C.2.5

In the production for **incomplete-copy** change “**IncompleteCopyExtensionValue**” to “**IncompleteCopy**”.

*Page 85*

## **Annex H**

Change the **Language** production SIZE constraint to "(SIZE (2..5))".

*Page 88*

## **Clause I.2**

Change the definition of **GeneralTextParameters** to read

```
GeneralTextParameters ::= SET OF CharacterSetRegistration
```

Replace the definition of **CharacterSetDesignator** by

```
CharacterSetRegistration ::= INTEGER (1..32767)
```





**Implementation of Technical Corrigendum 3**  
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**to BS ISO/IEC 10021-7 : 1990**

**Information technology — Text Communication —**  
**Message-Oriented Text Interchange Systems**  
**(MOTIS) —**

**Part 7 : Interpersonal Messaging System**

AMD 7277  
August 1992

National foreword (as amended by Technical Corrigenda 1 and 2)

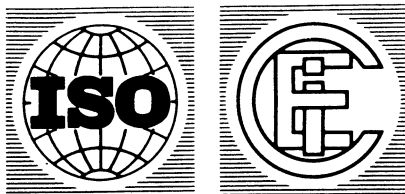
In line 1, delete 'including Technical Corrigendum 1 and Technical Corrigendum 2'  
and substitute 'including Technical Corrigenda 1, 2 and 3'.

AMD 7277  
August 1992

ISO text

Insert the attached as appropriate.





# INTERNATIONAL STANDARD ISO/IEC 10021-7 : 1990 TECHNICAL CORRIGENDUM 3

Published 1992-03-15

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## Information technology — Text Communication — Message-Oriented Text Interchange Systems (MOTIS) —

### Part 7: Interpersonal Messaging System

#### TECHNICAL CORRIGENDUM 3

*Technologies de l'information — Communication de texte — Systèmes d'échange de texte en mode message —  
Partie 7: Système de messagerie de personne à personne  
RECTIFICATIF TECHNIQUE 3*

Technical corrigendum 3 to International Standard ISO/IEC 10021-7 : 1990 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

*Page 3*

#### Subclause 5.1

In bullet d) replace "*heading extensions*" by "*IPMS extensions*" and "HEADING-EXTENSION" by "IPMS-EXTENSION"

*Page 7*

#### Subclause 7.1.2

In the definition of "RecipientSpecifier" replace:

reply-requested                      [2] BOOLEAN DEFAULT FALSE}

with:

reply-requested                      [2] BOOLEAN DEFAULT FALSE,  
recipient-extensions                [3] RecipientExtensionsField OPTIONAL }

UDC 681.3 : 621.39

Ref. No. ISO/IEC 10021-7 : 1990/Cor.3 : 1992 (E)

**Descriptors:** data processing, information interchange, network interconnection, open systems interconnection, data transmission, text communication, messages.

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Add a new bullet d) as follows:

"d) **Recipient-extensions** (O) contains extensions to the recipient specifier subfield.

RecipientExtensionsField ::= SET OF IPMSExtension

There are no recipient extensions defined in this Specification."

*Pages 12-13*

### **Subclause 7.2.17**

In the second sentence of the first paragraph, replace "heading extensions" with "IPMS extensions".

Replace the ASN.1 for "ExtensionsField" and "HeadingExtension" with the following:

\*ExtensionsField ::= SET OF IPMSExtension

IPMSExtension ::= SEQUENCE {  
    type OBJECT IDENTIFIER,  
    value ANY DEFINED BY type DEFAULT NULL NULL}.\*

Replace the fourth paragraph, starting "All extensions ..." with:

"All heading extensions defined in this part of ISO/IEC 10021 are contained in Annex A. An extension whose type component is not understood may be ignored."

Replace "HEADING-EXTENSION MACRO" by "IPMS-EXTENSION MACRO".

Renumber the existing note as Note 1, and add a new note as follows:

"2. Whenever an IPMS extension is defined, it should also be considered whether new MS attributes should also be defined (see Annex C), and whether the UA operation needs to be modified (see clause 18). As any extension may be ignored, privately-defined extensions may not mandate support of the new MS attributes or UA operation."

*Page 13*

### **Subclause 7.3**

Insert a new second sentence in Note 1 "In ISO DP 9065, context-specific tags 12 and 13 denote ODA and ISO6937Text body parts, respectively, which are no longer defined."

*Page 14*

### **Subclause 7.3.3**

Add a new last paragraph:

"The Return-To-Control signal (defined in CCITT Recommendation T.4) shall be present at the end of each page of T.4 data."

and a new Note 3:

"3. Where the body part has been received from a facsimile terminal, the Return-To-Control signal may be encoded in the form that it was received from the terminal. Where received over an unreliable network, the Return-To-Control signal may be subject to error."

Page 16

### Subclause 7.3.7

Replace:

```
EncryptedParameters ::= SET
```

with:

```
EncryptedParameters ::= SET OF ANY
```

Page 19

### Clause 8

In the definition of IPN replace:

```
receipt-fields      [1] ReceiptFields}}
```

with:

```
receipt-fields      [1] ReceiptFields,
other-notification-type-fields [2] OtherNotificationTypeFields }}
```

In the second paragraph replace "take either" with "take any".

Add a new bullet c) to the first set of bullets as follows:

"c) **other notification (ON):** An IPN that reports some other event concerning an IPM.

```
ON ::= IPN -- with other-notification-type-fields chosen
```

There are no ONs defined in this version of the Specification. Specific uses of ON may be defined in future versions of this specification to support extended semantics of an IPN, such as secure notifications."

Add a new bullet d) to the second set of bullets as follows:

"d) **other notification type field:** A notification field applicable to ONs alone."

Page 20

### Subclause 8.1

In the definition of "CommonFields" replace:

```
conversion-eits      ConversionEITsField OPTIONAL}
```

with:

```
conversion-eits      ConversionEITsField OPTIONAL,
notification-extensions [3] NotificationExtensionsField OPTIONAL}
```

Page 21

#### Subclause 8.1.4

Add a new subclause after 8.1.4 as follows:

#### "8.1.5 Notification Extensions

The **Notification Extensions** common field (O) allows for future extensions to the IPN.

NotificationExtensionsField ::= SET OF IPMSExtension

There are no Notification Extensions defined in this version of the Specification."

Page 21

#### Subclause 8.2

In the definition of "NonReceiptFields" replace:

returned-ipm [3] ReturnedIPMField OPTIONAL}

with:

returned-ipm [3] ReturnedIPMField OPTIONAL,  
nrn-extensions [4] NRNExtensionsField OPTIONAL}

Page 22

#### Subclause 8.2.2

Add a new sentence to end of the last paragraph, "In the absence of this field the reason for discarding is not specified."

Page 22

#### Subclause 8.2.4

Add a new subclause after 8.2.4 as follows:

#### "8.2.5 NRN Extensions

The **NRN Extensions** field (O) allows for future extensions to the structure of an NRN.

NRNExtensionsField ::= SET OF IPMSExtension

There are no NRN Extensions defined in this version of the Specification."

*Page 22***Subclause 8.3**

In the definition of "ReceiptFields" replace:

```
suppl-receipt-info  [2] SupplReceiptInfoField DEFAULT ""}
```

with:

```
suppl-receipt-info  [2] SupplReceiptInfoField OPTIONAL,
rn-extensions       [3] RNExtensionsField OPTIONAL}
```

*Page 23***Subclause 8.3.3**

Add two new subclauses after 8.3.3 as follows:

**.3.4 RN Extensions**

The **RN Extensions** field (O) allows for future extensions to the structure of an RN.

```
RNExtensionsField ::= SET OF IPMSExtension
```

There are no RN Extensions defined in this version of the Specification.

**4 Other Notification Type Fields**

The other notification type fields relate to an ON. There are no ONs defined in this version of the Specification.

```
OtherNotificationTypeFields ::= SET OF IPMSExtension
```

*Page 27***Subclause 12.1**

In the origination PORT definition, replace:

```
OriginateRN}
```

with:

```
OriginateRN,
OriginateON}
```

*Page 28*

**Subclause 12.1.3**

Add a new subclause after 12.1.3 as follows:

**"12.1.4 Originate ON**

There are no ONs defined in this Specification. The **Originate ON** abstract operation may be the subject of future standardization."

*Page 29*

**Subclause 12.2**

In the reception PORT definition, replace:

```
ReceiveNRN}
```

with:

```
ReceiveNRN,  
ReceiveON}
```

*Page 30*

**Subclause 12.2.4**

Add a new subclause after 12.2.4 as follows:

**"12.2.5 Receive ON**

There are no ONs defined in this Specification. The **Receive ON** abstract operation may be the subject of future standardization."

*Page 41*

**Subclause 18.2.3**

Add a new subclause after 18.2.3 as follows:

**"18.2.4 Originate ON**

Originate ON may be the subject of future standardization."

*Page 47***Subclause 19.1**

Delete bullet d) (which was originally c), but renumbered in Technical Corrigendum 2). Delete the Example.

*Page 49***Subclause 20.2**

Replace bullet i) by:

"The heading and recipient specifier (of an IPM), or the common fields, non-receipt fields, receipt fields, and the other notification type fields (of an IPN), lack extension fields."

*Page 53***Clause A.1**

In the production for "incomplete-copy" replace "HEADING-EXTENSION" by "IPMS-EXTENSION"

*Page 53***Clause A.2**

In the production for "languages" replace "HEADING-EXTENSION" by "IPMS-EXTENSION"

*Page 57***Table C.1**

For the attributes "Auto-forwarded" and "Importance" change the IPM classification from "C" to "P".

*Page 73***Annex E**

In the definition of "RecipientSpecifier" replace:

```
reply-requested      [2] BOOLEAN DEFAULT FALSE}
```

with:

```
reply-requested      [2] BOOLEAN DEFAULT FALSE,
recipient-extensions [3] RecipientExtensionsField OPTIONAL }
```

and insert at the end of "-- *Heading component types*":

```
RecipientExtensionsField ::= SET OF IPMSExtension
```

Page 75

## Annex E

Replace the ASN.1 for "ExtensionsField" and "HeadingExtension" with the following:

```
ExtensionsField ::= SET OF IPMSExtension
```

```
IPMSExtension ::= SEQUENCE {  
    type OBJECT IDENTIFIER,  
    value ANY DEFINED BY type DEFAULT NULL, NULL}
```

Replace "HEADING-EXTENSION MACRO" by "IPMS-EXTENSION MACRO"

Page 76

## Annex E

In the definition of "-- *Encrypted body part*" replace:

```
EncryptedParameters ::= SET
```

with:

```
EncryptedParameters ::= SET OF ANY
```

Page 77

## Annex E

In the definition of IPN replace:

```
receipt-fields      [1] ReceiptFields}}
```

with:

```
receipt-fields      [1] ReceiptFields,  
other-notification-type-fields [2] OtherNotificationTypeFields }}
```

Before the definition of "CommonFields" insert:

```
ON ::= IPN -- with other-notification-type-fields chosen
```

In the definition of "CommonFields" replace:

```
conversion-eits      ConversionEITsField OPTIONAL}
```

with:

```
conversion-eits      ConversionEITsField OPTIONAL,  
notification-extensions [3] NotificationExtensionsField OPTIONAL}
```

In the definition of "NonReceiptFields" replace:

```
returned-ipm      [3] ReturnedIPMField OPTIONAL}
```

with:

```
returned-ipm          [3] ReturnedIPMField OPTIONAL,
nrn-extensions        [4] NRNExtensionsField OPTIONAL}
```

In the definition of "ReceiptFields" replace:

```
suppl-receipt-info [2] SupplReceiptInfoField DEFAULT ""}
```

with:

```
suppl-receipt-info [2] SupplReceiptInfoField OPTIONAL,
rn-extensions      [3] RNExtensionsField OPTIONAL}
```

Insert at the end of "-- *Common fields*":

```
NotificationExtensionsField ::= SET OF IPMSExtension
```

*Page 78*

## Annex E

Insert at the end of "-- *Non-receipt fields*":

```
NRNExtensionsField ::= SET OF IPMSExtension
```

Insert at the end of "-- *Receipt fields*":

```
RNExtensionsField ::= SET OF IPMSExtension
```

-- *Other Notification Type fields*

```
OtherNotificationTypeFields ::= SET OF IPMSExtension
```

*Page 82*

## Annex G

In IMPORTS for "-- *IPMS Information Objects*" add "InformationObject,".

In IMPORTS for "-- *MTS Abstract Service*" add "ORName," and ", SupplementaryInformation".

In the origination PORT definition, replace:

```
OriginateRN}
```

with:

```
OriginateRN,
OriginateON}
```

In the reception PORT definition, replace:

```
ReceiveNRN}
```

with:

```
ReceiveNRN,  
ReceiveON}
```

*Page 85*

## **Annex H**

In the first paragraph replace "HEADING-EXTENSION" with "IPMS-EXTENSION".

In the IMPORTS section under "--*IPMS Information Objects*" replace:

HEADING-EXTENSION

with:

IPMS-EXTENSION

In the definition of the incomplete-copy extension replace:

HEADING-EXTENSION

with:

IPMS-EXTENSION

In the definition of the languages extension replace:

HEADING-EXTENSION

with:

IPMS-EXTENSION

---

**Implementation of Technical Corrigendum 4  
published and effective from 15 December 1992  
to BS ISO/IEC 10021-7 : 1990**

**Information technology — Text Communication —  
Message-Oriented Text Interchange Systems (MOTIS) —  
Part 7: Interpersonal Messaging System**

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National foreword (as amended by Technical Corrigenda 1, 2 and 3)

In line 1, delete 'Technical Corrigenda 1, 2 and 3' and substitute 'Technical Corrigenda 1, 2, 3 and 4'.

AMD 7545/December 1992

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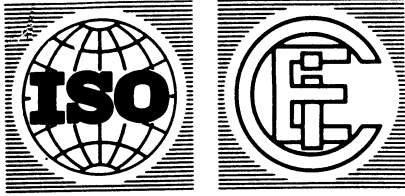
ISO text

Insert the attached as appropriate.

AMD 7545/December 1992

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**INTERNATIONAL STANDARD ISO/IEC 10021-7 : 1990**  
**TECHNICAL CORRIGENDUM 4**

Published 1992-09-15

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION  
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**Information technology — Text Communication —  
Message-Oriented Text Interchange Systems (MOTIS) —**

**Part 7:  
Interpersonal Messaging System**

**TECHNICAL CORRIGENDUM 4**

*Technologies de l'information — Communication de texte — Systèmes d'échange de texte en mode message —*

*Partie 7: Système de messagerie de personne à personne*

**RECTIFICATIF TECHNIQUE 4**

Technical corrigendum 4 to International Standard ISO/IEC 10021-7 : 1990 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

Page 2

**Subclause 2.5**

At the end of the subclause add:

"CCITT Recommendation T.61 (1988),  
service."

*Character repertoire and coded character sets for the international Teletex*

**UDC 681.3 : 621.39**

**Ref. No. ISO/IEC 10021-7 : 1990/Cor.4 : 1992 (E)**

**Descriptors:** data processing, information interchange, network interconnection, open systems interconnection, data transmission, text communication, messages.

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Page 2

#### Subclause 2.6

After this subclause insert a new subclause as follows:

#### "2.8 Open Document Architecture

This part of ISO/IEC 10021 cites the following Open Document Architecture specifications:

ISO 8613-5: 1989, *Information processing systems - Text and office systems - Office document architecture (ODA) and interchange format - Part 5: Office Document Interchange Format (ODIF).*"

Page 15

#### Subclause 7.3.4

In the last sentence of the first paragraph, replace "protocol elements" by "interchange data elements, defined in ISO 8613-5,".

Replace:

"G4Class1BodyPart ::= SEQUENCE OF ProtocolElement"

with:

"G4Class1BodyPart ::= SEQUENCE OF Interchange-Data-Element"

Page 15

#### Subclause 7.3.5

Add to the end of the paragraph starting "The Data component ..." :

"The text of every page (including the first page of the document) shall be introduced either by Form Feed and Carriage Return or by Carriage Return and Form Feed. This sequence shall be preceded by Identify Graphic Subrepertoire under the conditions stated in CCITT Recommendation T.61."

Add a new note 3:

"3. The initial Form Feed and Carriage Return on each page of a Teletex document is required by CCITT Recommendation T.61."

Page 17

#### Subclause 7.3.9

In the last sentence of the first paragraph, replace "protocol elements" by "interchange data elements, defined in ISO 8613-5,".

Replace:

"MixedModeBodyPart ::= SEQUENCE OF ProtocolElement"

with:

"MixedModeBodyPart ::= SEQUENCE OF Interchange-Data-Element"

*Page 18*

#### **Subclause 7.3.12**

In the paragraph starting "An instance of the macro's type notation," replace the second sentence with:

"The presence of the PARAMETERS clause implies the presence of the Parameters component in every instance of the extended body part type; its omission implies the absence of the Parameters component in every instance."

*Page 19*

#### **Subclause 7.3.12**

Add a new Note 3 and renumber the existing Notes 3 and 4 accordingly.

"3. When a new extended body-part type and a new EIT are defined and have a one to one relationship, then the same Object Identifier may be used for the data component and the EIT."

*Page 51*

#### **Subclause 22.2**

Replace bullet c) with:

- "c) In the case of an IPMS MS, or an IPMS UA accessing an IPMS MS, the Interpersonal Messaging-specific MS attribute-types for which it claims conformance."

and insert new bullet d):

- "d) In the case of an IPMS MS, or an IPMS UA accessing an IPMS MS, any claim of conformance for the auto-forward auto-action defined in ISO/IEC 10021-5."

*Page 52*

#### **Subclause 22.3**

Replace bullet b) with:

- "b) An IPMS MS, or an IPMS UA accessing an IPMS MS, shall support the Interpersonal Messaging-specific MS attribute-types for which conformance is claimed, but including as a minimum those designated mandatory in annex C."

Renumber bullet "e)" (introduced in Technical Corrigendum 2) to "g)" and add new bullets as follows:

- "e) An IPMS MS, or an IPMS UA accessing an IPMS MS, shall conform to at least one of the MS Access Protocols specified in ISO/IEC 10021-6.

- f) An IPMS MS, or an IPMS UA accessing an IPMS MS, shall support the auto-forward auto-action defined in ISO/IEC 10021-5 if conformance to it is claimed."

Page 65

#### Subclause C.3.5

Replace the note with the following:

"NOTE - Each value of this attribute identifies both an extended body part type represented in the IPM and the attribute type generated for the Data component(s) of the body part(s) of that body part type, as specified in clause C.3.6."

Page 66

#### Subclause C.3.6

Add the following to the end of the second paragraph:

"This attribute is not defined for extended body part types for which no Parameters type is defined."

Add a new paragraph after the second paragraph:

"Where a Parameters type is defined for an extended body part type, the sequence of values in the attribute generated from the Data components of body parts of that extended body part type corresponds to the sequence of values in the attribute generated from the Parameters components of the same body parts. Thus the value created for the Data component of a body part occupies the same position in the first attribute as the value created for the Parameters component occupies in the second attribute."

In the last paragraph replace "both attributes" by "the first attribute, and, if defined, the second attribute," in the first sentence and "each" by "the first attribute, and, if defined, the second" in the last sentence.

Page 66

#### Subclause C.4.1

In the definition of "conversion-eits" replace "MS-EITs" with "MS-EIT".

Page 72

#### Annex E

In the IMPORTS clause replace:

-- DTAM

ProtocolElement  
----  
FROM dTAM

with

-- ODIF

Interchange-Data-Element

----

FROM Interchange-Data-Elements { 2 8 1 5 5 }

*Page 76*

#### **Annex E**

In "-- *G4 Class 1 and Mixed-mode body parts*" replace both occurrences of "ProtocolElement" by "Interchange-Data-Element".

*Page 89*

#### **Annex J**

In the IMPORT from "-- *MS Abstract Service*" replace "MS-EITs" with "MS-EIT".

*Page 95*

#### **Annex J**

Under the heading "-- *Common fields*" in the definition of "conversion-eits" replace "MS-EITs" with "MS-EIT".

*Page 100*

#### **Annex M**

Delete bullet a), and renumber the remaining bullet accordingly.



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**Implementation of Technical Corrigendum 5**  
**published and effective from 15 March 1993**  
**to BS ISO/IEC 10021-7 : 1990**

**Information technology – Text Communication – Message-Oriented**  
**Text Interchange Systems (MOTIS) –**  
**Part 7: Interpersonal Messaging System**

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National foreword (as amended by Technical Corrigenda 1, 2, 3 and 4)  
In line 1, delete ‘2, 3 and 4’ and substitute ‘2, 3, 4 and 5’.

**AMD 7686/March 1993**

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ISO text  
Insert the attached as appropriate.

**AMD 7686/March 1993**

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# Information technology – Text Communication – Message-Oriented Text Interchange Systems (MOTIS) –

## Part 7: Interpersonal Messaging System

### TECHNICAL CORRIGENDUM 5

*Technologies de l'information – Communication de texte – Systèmes d'échange de texte en mode message –*

*Partie 7: Système de messagerie de personne à personne*

*RECTIFICATIF TECHNIQUE 5*

Technical corrigendum 5 to International Standard ISO/IEC 10021-7:1990 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

*Pages 21-22*

#### Subclause 8.2.2

In the ASN.1 production for "DiscardReasonField" replace:

```
*user-subscription-terminated (2)}*
```

with:

```
*user-subscription-terminated (2),  
ipm-deleted (3)}*
```

Add a new bullet d)

- "d) *ipm-deleted*: The subject IPM was deleted before receipt occurred. Where a message store is involved, deletion occurred before the IPM's status became *processed*."

UDC 681.3 : 621.39

Ref. No. ISO/IEC 10021-7:1990/Cor.5:1992 (E)

**Descriptors** : data processing, information interchange, network interconnection, open systems interconnection, data transmission, text communication, messages.

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Page 47

#### Subclause 19.1

Add a new bullet d):

- "d) The MS shall maintain an extended body part attribute (and, when appropriate, an attribute corresponding to the parameters component of that body part type) such that it contains all body parts of that type regardless of whether they were conveyed to the MS as basic or extended body parts of the delivered IPM."

Page 48

#### Subclause 19.3

Replace the subclause by:

"When it deletes an IPM while performing the Delete abstract-operation of the MS Abstract Service, the IPMS MS shall generate an NRN if, and only if, one is requested by means of the Notification-requests component of the subject recipient specifier of the deleted IPM, and the IPM's entry-status has the value *listed*.

NRN shall have the common fields prescribed for the performance of auto-acknowledgement (see 18.5.2.1).

NRN shall have the following non-receipt fields:

*Non-receipt reason:* The value *ipm-discarded*.

*Discard reason:* The value *ipm-deleted*.

*Auto-forward comment:* Omitted.

*Returned IPM:* If the return of the IPM is requested by means of the Notification-requests component of its subject recipient specifier, and the Converted-encoded-information-types component of the Message Delivery Envelope argument is absent, the IPM. Omitted otherwise.

IPMS MS shall submit the NRN by invoking Message Submission. Message Submission's Envelope argument shall be rescribed for auto-acknowledgement, its Content argument determined from the NRN as specified in 20.1."

Page 59

#### Subclause C.1.2

In the second bullet b) replace "An Any" with "An External".

Page 60

#### Subclause C.1.2

In bullet d) delete "List or". Add to the end of the first sentence of bullet d) ", or has been processed by an auto-action whose definition causes the body part to become processed".



**Implementation of Technical Corrigendum 6**  
**published and effective from 15 May 1994**  
**to BS ISO/IEC 10021-7 : 1990**

**Information technology – Text Communication – Message-Oriented**  
**Text Interchange Systems (MOTIS) –**  
**Part 7: Interpersonal Messaging System**

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National foreword (as amended by Technical Corrigenda 1, 2, 3, 4 and 5)  
In line 1, delete '1, 2, 3, 4 and 5' and substitute '1, 2, 3, 4, 5 and 6'.

AMD 8173/May 1994

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ISO text

Insert the attached as appropriate.

AMD 8173/May 1994

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# Information technology — Text Communication — Message-Oriented Text Interchange Systems (MOTIS) —

## Part 7: Interpersonal Messaging System

### TECHNICAL CORRIGENDUM 6

*Technologies de l'information — Communication de texte — Systèmes d'échange de texte en mode message —*

*Partie 7: Système de messagerie de personne à personne*

*RECTIFICATIF TECHNIQUE 6*

Technical corrigendum 6 to International Standard ISO/IEC 10021-7:1990 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 18, *Document processing and related communication*.

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Page 47

#### Subclause 19.1.1 (as introduced by Technical Corrigendum 2)

Insert "of an IPM or NRN" after "present in child-entries" in the first sentence. Delete "content," from the first sentence. Insert a new second sentence "The entry-type attribute shall have the value delivered-message.". Delete the first bullet a) and renumber existing bullets accordingly. Delete the last sentence "All child-entries...".

#### Subclause 19.2

After "For each IPM or IPN it holds" in bullet a), insert "(including the child-entry of a delivery report containing Returned-content)".

---

UDC 681.3:621.39

Ref. No. ISO/IEC 10021-7:1990/Cor.6:1993(E)

**Descriptors :** data processing, information interchange, network interconnection, open systems interconnection, data transmission, text communication, messages.

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Page 50

**Subclause 20.4**

In the second sentence of the second paragraph in bullet c) replace "they shall be specified" by "then those appropriate to this instance of the type shall be specified".

Page 59

**Subclause C.1.2**

In the ASN.1 production for NonMessageBodyPartSynopsis, replace "ExternallyDefinedParameters," by "ExternallyDefinedParameters OPTIONAL,"

In the second bullet b), replace "Parameters (M):" by "Parameters (C):" and add a new sentence at the end of the bullet "This conditional component shall be present if, and only if, a Parameters component is defined for this type of body part."

Pages 65 and 66

**Subclause C.3.6**

In the first sentence replace "Data components" with "Data (or Parameters) components".

Replace the third sentence of the second paragraph with: "The content of this first attribute is the Encoding component of that Data component."

Replace the fifth sentence of the second paragraph with: "The content of this second attribute is the Encoding component of that Parameters component."

Page 70

**Annex D**

Replace the comment "--Message content types (for use by MS only)" by "--Message content types (for use by MS and Directory)".

Page 90

**Annex J**

In the ASN.1 production for NonMessageBodyPartSynopsis, replace "ExternallyDefinedParameters," by "ExternallyDefinedParameters OPTIONAL,"

Page 101

**Annex N**

In bullet i) delete sub-bullet ii) and renumber sub-bullets iii) to v) as ii) to iv). In sub-bullet ii) (formerly iii)) replace "MessageDeliveryEnvelope" with "OtherMessageDeliveryFields".

**Implementation of Technical Corrigendum 7  
published and effective from 15 January 1995  
to BS ISO/IEC 10021-7 : 1990**

**Information technology — Text Communication —  
Message-Oriented Text Interchange Systems (MOTIS) —  
Part 7: Interpersonal Messaging System**

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National foreword (as amended by Technical Corrigenda 1, 2, 3, 4, 5  
and 6)

In line 1, delete '2, 3, 4, 5 and 6' and substitute '2, 3, 4, 5, 6 and 7'.

**AMD 8395/January 1995**

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ISO text

Insert the attached as appropriate.

**AMD 8395/January 1995**

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