

Implementation of ISO/IEC 10021-4 : 1990

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

**Part 4: Message Transfer System:
Abstract Service Definition and
Procedures**

National foreword

This British Standard reproduces verbatim ISO/IEC 10021-4 : 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;
- monitor related international and European developments and promulgate them in the UK.

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Implementation of Technical Corrigendum 1
published and effective from 30 September 1991
to BS ISO/IEC 10021-4 : 1990

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

Part 4 : Message Transfer System: Abstract
Service Definition and Procedures

AMD 6848
September 1991

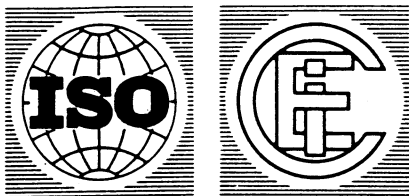
National foreword

In line 1, after 'ISO/IEC 10021-4 : 1990' insert, ',including Technical Corrigendum 1'.

AMD 6848
September 1991

ISO text

Insert the attached as appropriate.



INTERNATIONAL STANDARD ISO/IEC 10021-4 : 1990
TECHNICAL CORRIGENDUM 1

Published 1991-07-01

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 4:

Message Transfer System: Abstract Service Definition and Procedures

TECHNICAL CORRIGENDUM 1

*Technologies de l'information — Communication de texte — Systèmes d'échange de texte en mode message —
Partie 4: Système de transfert de message: Procédures et définition de service abstrait
CORRECTIF TECHNIQUE 1*

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

Page 9

Subclause 8.1.1.1.1.2

In the last paragraph delete the sentence:

"The initiator's public-asymmetric-encryption-key may be used by the responder to compute the **responder-bind-token**"

and insert in its place:

"The initiator's public-asymmetric-encryption-key may be used by the responder to validate the **initiator-bind-token** and to compute **encrypted-data** in the **responder-bind-token**".

UDC 681.3 : 621.39

Ref. No. ISO/IEC 10021-4 : 1990/Cor.1 : 1991 (E)

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

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Page 14

Subclause 8.2.1.1.1.1

Insert at the end of the first paragraph:

"If **OR-address** is not included in **originator-name** on submission it shall be inserted by the originating MTA. The **originator-name** shall remain unchanged in the subsequent progress of the submitted message through the MTS. Where security arguments use the **originator-name**, its **OR-address** shall be generated by the originating MTS-user."

Page 14

Subclause 8.2.1.1.1.2

In the third sentence of the first paragraph delete "different".

Page 21

Subclause 8.2.1.1.1.26

At the end of the 2nd bullet in the second paragraph, and at the end of the 5th bullet in the third paragraph add the following:

"Note that the first occurrence of a sequence number can be a random number".

Page 36

Subclause 8.2.2.8

In the first sentence change "MTS" to "MTS or MTS-user". At the end of the second sentence delete ", generated by the MTS".

Page 37

Subclause 8.2.2.10

At the end of the first sentence replace "...to the MTS." with "...to the MTS, or because there is no association in existence between the MS and the UA." Delete the word "only" from the second sentence, and add to the end of that sentence ", or on invocation by the MTS of a submission-control abstract operation via an MS."

Page 46

Subclause 8.3.1.2.1.11

Delete the second sentence of the first paragraph.

Page 49

Subclause 8.3.1.2.1.11

For the **secure-messaging-error** non-delivery diagnostic code, delete the existing definition and insert:

"the subject could not be progressed because the message security label would violate the security policy in force, which goes against the security context."

Page 58

Subclause 8.4.1.1.3

Add to Table 24 the Abstract-error "Remote-bind-error", and under the clause reference add "8.2.2.10".

Page 60

Subclause 8.4.1.2.3

Add to Table 26 the Abstract-error "Remote-bind-error", and under the clause reference add "8.2.2.10".

Page 64

Subclause 8.5.8

Insert at the end of this Subclause the following:

"Symmetric algorithms may be used within the **asymmetric-token** definition provided that:

the algorithm (in either the **signature-algorithm-identifier** or the **encryption-algorithm-identifier**) is used to identify a registered symmetric cryptographic algorithm;

the management of symmetric keys (e.g., key distribution) is performed externally to the MTS.

NOTES

1 — When symmetric algorithms are used for **signed-data**, the message origin authentication check, as defined in ISO/IEC 10021-2, is not provided by the token. The token only provides proof that the message was signed by a holder of the symmetric key (i.e., a member of a closed user group).

2 — The **signature-algorithm-identifier** and the **encryption-algorithm-identifier** can be individually defined and, therefore, a mixture of symmetric and asymmetric algorithms can be used with the token."

Page 66

Subclause 9.1

Insert a new subclause 9.1 and renumber existing 9.1 to 9.2.

"9.1 Extension Mechanism

A mechanism is defined in Figure 2 (part 13) to enable extensions to be defined. The extensions may be chosen from ExtensionList but may also include others defined elsewhere (for example, by addenda to this International Standard)."

Page 71

Figure 2 (Part 4 of 26)

Insert "NULL" after "RESULT" in CancelDeferredDelivery.

Page 73

Figure 2 (Part 6 of 26)

Insert "NULL" after "RESULT" in Register.

Insert "NULL" after "RESULT" in ChangeCredentials.

Page 76

Figure 2 (Part 9 of 26)

In OtherMessageDeliveryFields, delete:

originator-name OriginatorName

and insert:

originator-name DeliveredOriginatorName

Page 77

Figure 2 (Part 10 of 26)

After **originator-name** under "-- Envelope Fields" add the following definition:

DeliveredOriginatorName ::= ORAddressAndOptionalDirectoryName

Page 92

Figure 2 (Part 25 of 26)

In the production for **AsymmetricToken** delete:

recipient-name RecipientName

and insert:

```
name CHOICE{
  recipient-name RecipientName,
  [3] SEQUENCE{
    global-domain-identifier GlobalDomainIdentifier OPTIONAL,
    mta-name MTAName }}

```

Page 93

Figure 2 (Part 26 of 26)

Insert the following before "*-- Security Label*":

```
bind-token-encrypted-data TOKEN-DATA
  BindTokenEncryptedData
  ::=4

BindTokenEncryptedData ::= EXTERNAL

```

Page 97

Subclause 12.1.1.1.1.2

In the last paragraph delete the sentence:

"The initiator's public-asymmetric-encryption-key may be used by the responder to compute the **responder-bind-token**"

and insert in it's place:

"The initiator's public-asymmetric-encryption-key may be used by the responder to validate the **initiator-bind-token** and to compute **encrypted-data** in the **responder-bind-token**".

Page 101

Table 29

Change the clause reference for **Explicit-conversion** to "12.2.1.1.1.9".

Page 102

Subclause 12.2.1.1.1.1

Delete the last sentence of the second paragraph.

Page 103

Subclause 12.2.1.1.1.5

Delete the first sentence of the first paragraph. At the start of the second sentence change "It shall" to "This argument shall". In the third sentence change "each recipient" to "each originally specified recipient".

Page 103

Subclause 12.2.1.1.1.7

Insert the following at the end of the paragraph "If an MTA receives a request to perform deferred delivery without a bilateral agreement in existence then the action performed by that MTA is a local matter."

Page 104

Subclause 12.2.1.1.1.8

After this subclause insert a new subclause as follows:

"12.2.1.1.1.9 Explicit-conversion"

This argument is defined in clause 8.2.1.1.1.11. Once the specified explicit conversion has been performed, the argument shall be removed."

Page 132

Subclause 14.3.5.1

Replace point 2) a) with the following:

"the current **encoded-information-types**, given by the latest **converted-encoded-information-types** in **trace-information**, if such a field exists, or else by **original-encoded-information-types**,"

Page 133

Subclause 14.3.5.4

In point 6) first sentence replace:

"...but can be performed by an MTA known to this MTA,..."

with:

"...and it is known that another MTA can perform it,...".

After the second sentence insert:

"Care should be taken, however, to avoid a routing loop."

Page 137

Subclause 14.3.8.4

Renumber the existing point 5) to point 6). Insert new point 5) as follows:

"5) If **disclosure-of-recipients** is not requested, recipients whose **responsibility** is set to **not-responsible** may be removed."

Throughout 14.3.8 and elsewhere replace "**responsibility false**" by "**responsibility set to not-responsible**" and replace "**responsibility true**" by "**responsibility set to responsible**".

Page 169

Figure B.1 (Part 1 of 3)

Change the value of **ub-x121-address-length** from "15" to "16".



**Implementation of Technical Corrigendum 2
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**Information technology – Text Communication –
Message-Oriented Text Interchange Systems
(MOTIS) –**

**Part 4: Message Transfer System: Abstract
Service Definition and Procedures**

AMD 7141
July 1992

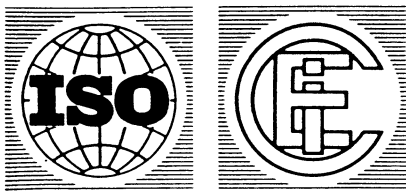
National foreword (as amended by Technical Corrigendum 1)

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

AMD 7141
July 1992

ISO text

Insert the attached as appropriate.



INTERNATIONAL STANDARD ISO/IEC 10021-4 : 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 4: Message Transfer System: Abstract Service Definition and Procedures

TECHNICAL CORRIGENDUM 2

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

Partie 4: Système de transfert de message: Procédures et définition de service abstrait

RECTIFICATIF TECHNIQUE 2

Technical corrigendum 2 to International Standard ISO/IEC 10021-4 : 1990 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

Page iii

Contents

Change the title of clause 8.2.1.1.1.7 to "Disclosure-of-other-recipients"

Page 9

Clause 8.1.1.1.1

In the last sentence of the second paragraph delete "For secure messaging, when an MS is involved.". In the same sentence change "may also" to "shall also".

UDC 681.3 : 621.39

Ref. No. ISO/IEC 10021-4 : 1990/Cor.2 : 1991 (E)

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

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Page 10

Clause 8.1.1.1.2.1

In the last sentence of the second paragraph delete "For secure messaging, when an MS is involved,". In the same sentence change "may also" to "shall also".

Page 13

Table 3

In *Recipient Arguments* change "Disclosure-of-recipients" to "Disclosure-of-other-recipients"

Page 16

Clause 8.2.1.1.1.7

Change the title of the clause to "Disclosure-of-other-recipients". In the second paragraph change "disclosure-of-recipients-allowed" to "disclosure-of-other-recipients-requested" and change "disclosure-of-recipients-prohibited" to "disclosure-of-other-recipients-prohibited". In the third paragraph change "disclosure-of-recipients-prohibited" to "disclosure-of-other-recipients-prohibited".

Page 23

Clause 8.2.1.1.1.29

In the first sentence of the fourth paragraph change "an asymmetrically encrypted, hashed version of" to "an asymmetrically-encrypted hashed version of:". Change the remaining commas in this sentence to semi-colons.

Page 29

Clause 8.2.1.2.1.1

In the first sentence of the fourth paragraph change "an asymmetrically encrypted, hashed version of" to "an asymmetrically-encrypted hashed version of:". Change the remaining commas in this sentence to semi-colons.

Page 40

Clause 8.3.1.1.1.6

In the first paragraph change "disclosure-of-recipients" to "disclosure-of-other-recipients".

Page 41

Clause 8.3.1.1.2.2

In the last sentence of the third paragraph change "using the clear (i.e. unencrypted) message **content**" to "using the message **content** as delivered (i.e. either unencrypted or encrypted).".

Page 49

Clause 8.3.1.2.1.13

In the first sentence of the fourth paragraph change "an asymmetrically encrypted, hashed version of" to "an asymmetrically-encrypted hashed version of:". Change the remaining commas in this sentence to semi-colons.

Page 66

Clause 9.2 (Formerly Clause 9.1; changed by Technical Corrigendum 1)

In the third sentence of the first paragraph, change the sentence to read:

"A non-critical function may be ignored, but shall not be discarded except when delivering or downgrading (see ISO/IEC 10021-6 Annex B) a message, while a critical function must be known and performed correctly for normal procedures to continue."

and add a Note after the first paragraph:

"NOTE — Messages with critical or non-critical functions may be rejected on submission with the submission error Element-of-service-not-subscribed when the function corresponds to an element of service to which the user has not subscribed, or which is not available for subscription."

Add at the end of the clause:

"Table 26a identifies the possible alternatives open to an MTA for all the combinations of **criticality**."

Table 26a
MTA Actions on Criticality

CRITICAL FOR:			SUBMIT *	FRONT END *	MESSAGE DELIVERY *	DOWN- GRADING
Submission	Transfer	Delivery	Clause 14.6	Clause 14.3.2	Clause 14.7	10021-6 Annex B
			A, R, E	A, R	A, R, D	A, D
		x	A, R, E	A, R	A, N	A, N
	x		A, R, E	A, N	A, R, D	A, N
	x	x	A, R, E	A, N	A, N	A, N
x			A, E	A, R	A, R, D	A, D
x		x	A, E	A, R	A, N	A, N
x	x		A, E	A, N	A, R, D	A, N
x	x	x	A, E	A, N	A, N	A, N

Key:

* = See figures 6 and 7 for these labels

x = Criticality bit set to *critical*

A = Act on semantics

D = Discard extension and Deliver or Downgrade as applicable

E = submission-Error (Element-of-service-not-subscribed)

N = Non-deliver messages or probes, discard reports (unsupported-critical-function)

R = Relay or deliver as applicable retaining the extension intact, but no action on the semantics"

Page 69

Figure 2 (Part 2 of 26)

In the definition of ObjectName change "mTS-user" to "user-agent".

Page 77

Figure 2 (Part 10 of 26)

In the production for **PerMessageIndicators** change "disclosure-of-recipients" to "disclosure-of-other-recipients", change "disclosure-of-recipients-allowed" to "disclosure-of-other-recipients-requested", and change "disclosure-of-recipients-prohibited" to "disclosure-of-other-recipients-prohibited".

Page 82

Figure 2 (Part 15 of 26)

In the production for **originator-return-address** delete the criticality qualifier "CRITICAL FOR DELIVERY".

In the production for **message-token** insert the criticality qualifier "CRITICAL FOR DELIVERY".

Page 83

Figure 2 (Part 16 of 26)

In the productions for **content-confidentiality-algorithm-identifier** and **content-integrity-check** insert the criticality qualifier "CRITICAL FOR DELIVERY".

Page 100

Table 29

In *Recipient Arguments* change "Disclosure-of-recipients" to "Disclosure-of-other-recipients"

Page 103

Clause 12.2.1.1.1.4

Delete the second paragraph

Page 109

Clause 12.3.1

In the second paragraph, second sentence, replace "shall" by "may" and delete from "unless" to the end of the sentence. Add an additional sentence "An MD may (but is not required to) remove **internal-trace-information** relating to other MDs."

Page 129

Clause 14.3.2.4

In point 3), change "If any of the extension fields is marked critical for relaying" to "If any of the **per-message** extension fields, or the **per-recipient** extension fields for recipients for which **responsibility** is set to **responsible**, is marked **critical-for-transfer**".

Page 137

Clause 14.3.8.4

In the new point 5) (added in Technical Corrigendum 1), change "disclosure-of-recipients" to "disclosure-of-other-recipients".

Page 138

Clause 14.3.10.4

In point 5), delete "DL-expansion-prohibited,". After "explicit-conversion" add "proof-of-delivery-request (see Note 4)."

Replace Note 1 by:

"1 - Must be copied and must not be changed if DL-policy is to pass reports back; may be changed as required if DL-policy is not to pass reports back."

and add a new Note 4:

"4 - Whether proof-of-delivery-request produces a proof-of-delivery from the DL expansion point, or from the DL members, or from both, or from neither, depends on the DL policy and on the security policy in force."

Page 143

Clause 14.4.3.4

In the third sentence of the second paragraph, change "If failure" to "If successful delivery".

Page 153

Clause 14.7.1.4

In the note in step 7 change "5 and 6" to "6 and 7".

In step 10 change "disclosure-of-recipients" to "disclosure-of-other-recipients" and. change "disclosure-of-recipients-allowed" to "disclosure-of-other-recipients-requested".

Page 173

Annex D

In *Definitions of the MTS parameters* change "Disclosure-of-recipients" to "Disclosure-of-other-recipients"

Page 177

Annex D

In *ASN.1* values change "disclosure-of-recipients" to "disclosure-of-other-recipients"



Implementation of Technical Corrigendum 3
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Information technology — Text Communication —
Message-Oriented Text Interchange Systems
(MOTIS) —

Part 4 : Message Transfer System: Abstract Service
Definition and Procedures

AMD 7274
August 1992

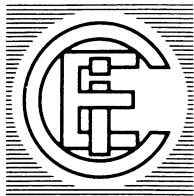
National foreword (as amended by Technical Corrigenda 1 and 2)

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

AMD 7274
August 1992

ISO text

Insert the attached as appropriate.



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

Part 4: Message Transfer System: Abstract Service Definition and Procedures

TECHNICAL CORRIGENDUM 3

*Technologies de l'information — Communication de texte — Systèmes d'échange de texte en mode message —
Partie 4: Système de transfert de message: Procédures et définition de service abstrait
RECTIFICATIF TECHNIQUE 3*

Technical corrigendum 3 to International Standard ISO/IEC 10021-4 : 1990 was prepared by Joint Technical Committee ISO/IEC TC 1, *Information technology*.

Page 17

Subclause 8.2.1.1.1.11

In the second paragraph, delete the value "**no-explicit-conversion**".

In the third paragraph, replace "the default **no-explicit-conversion** shall be assumed" with "no explicit conversion shall be performed".

Pages 24-25

Subclause 8.2.1.1.1.34

Insert a new second sentence in the first paragraph "It identifies the abstract syntax and the encoding rules used."

Add to the bullet starting "**inner-envelope**:" after "MTS-APDU" in the second sentence "(see Figure 6 in ISO/IEC 10021-6)".

Insert a new Note at the end of the subclause as follows:

"NOTE - In the case where the content confidentiality service is used, the syntax and encoding identified by the **content-type** are the syntax and encoding of the content before encryption."

Page 46

Subclause 8.3.1.2.1.10

Add a new **non-delivery-reason-code** to the end of the list of values:

"deferred-delivery-not-performed: indicates that a request for deferred delivery of the subject-message was unable to be performed."

Page 65

Subclause 8.5.10

After this subclause insert a new subclause as follows:

"8.5.11 Password

A password comprises either an IA5 String or an Octet String.

Where the octets of an Octet String value are the encoding in an 8-bit environment of the characters of an IA5 String value, the choice between the IA5 String and the Octet String representations shall be considered insignificant.

NOTES

1. This equivalence rule does not prohibit a password from being an Octet String value which is not the encoding of any IA5 String value.
2. "Encoding in an 8-bit environment" means that the most significant bit in each octet is zero and not a parity bit; this is the encoding of IA5 String characters used by ASN.1 Basic Encoding Rules. An IA5 String password should have the top bit of each octet set to zero before writing it as the value of a User Password attribute, which is defined by the Directory ISO/IEC 9594-6 to be an Octet String. The equivalence rule is designed to facilitate the use of this Directory attribute.
3. Where ASN.1 Basic Encoding Rules are used, two passwords can be compared as follows. The octets of each password value are extracted from its BER encoding (which may be primitive or constructed); the extraction technique is the same for both IA5 String and Octet String. If the extracted values are equal octet by octet, then the two passwords match."

Page 68

Figure 2 (Part 1 of 26)

In IMPORTS under "-- *Directory Definitions*" replace:

```
InformationFramework { joint-iso-ccitt ds(5) modules(1) information-framework(1) }
```

with:

```
InformationFramework { joint-iso-ccitt ds(5) modules(1) informationFramework(1) }
```

and replace:

```
AuthenticationFramework { joint-iso-ccitt ds(5) modules(1) authentication-framework(7) }
```

with:

```
AuthenticationFramework { joint-iso-ccitt ds(5) modules(1) authenticationFramework(7) }
```

Add to the import from MTSUpperBounds "ub-diagnostic-codes,".

Page 79

Figure 2 (Part 12 of 26)

In the production for NonDeliveryReasonCode replace:

```
directory-operation-unsuccessful (6) } (0..ub-reason-codes)
```

with:

```
directory-operation-unsuccessful (6),  
deferred-delivery-not-performed (7) } (0..ub-reason-codes)
```

Page 103

Subclause 12.2.1.1.1.7

Replace the sentence inserted by Technical Corrigendum 1 by "It shall be absent once the request for deferral has been honoured.", and insert a new second paragraph:

"In the absence of a bilateral agreement, the MTA shall, as a local matter, either:

- a) defer delivery of the message, or
- b) process the message as if the **deferred-delivery-time** was not present, or
- c) if the deferred delivery time has not yet passed, non-deliver the message with **non-delivery-reason-code** set to **deferred-delivery-not-performed** and **non-delivery-diagnostic-code** set to **no-bilateral-agreement**."

Page 106

Table 31 (Part 1 of 2)

Change the subclause reference for "Originally-specified-recipient-number" to be "12.2.1.1.1.5".

Page 116

Figure 4 (Part 5 of 7)

In the production for **PerDomainBilateralInformation** delete "OPTIONAL" after **PrivateDomainIdentifier**.

Change the definition of **OriginallySpecifiedRecipientNumber** from "INTEGER (SIZE (1..ub-recipients))" to "INTEGER (1..ub-recipients)".

Page 123

Subclause 14.2.1.2

Delete "after expiration of the **deferred-delivery-time**".

Page 123

Subclause 14.2.1.3

Replace "None." with "The message with instructions detailing the problem encountered.".

Page 123

Subclause 14.2.1.4

Replace the whole subclause by:

"1) The message is checked for presence of the **deferred-delivery-time** field. If absent the procedure returns the message and terminates. If present the **deferred-delivery-time** is checked against the current time. If the **deferred-delivery-time** has expired, the procedure returns the message with the **deferred-delivery-time** field removed and terminates.

2) This step applies only to a message from the Message-in module. The MTA checks for a bilateral agreement requiring it to provide deferred delivery for this message. If there is such an agreement, processing continues at step 3. If there is no such agreement, then one of the following is performed:

- a) The procedure returns the message without deferring it, and then terminates;
- b) The procedure returns the message with an instruction with a **non-delivery-reason-code** of **deferred-delivery-not-performed** and a **non-delivery-diagnostic-code** of **no-bilateral-agreement**. The procedure then terminates.
- 3) Depending upon policy, one of the following is performed:
 - a) If there is a bilateral agreement with the domain(s) or MTA(s) to which the message will be transferred, that those domain(s) or MTA(s) will take responsibility for the deferral request, then the procedure returns the message without deferring it. The procedure then terminates;
 - b) The current time is noted as the message arrival time, and the message is held until expiration of the **deferred-delivery-time**. The message with the **deferred-delivery-time** field removed and the arrival timestamp are then returned, and the procedure terminates.

NOTE - It is necessary to remove the **deferred-delivery-time** field once deferral is completed so that when the message is transferred to another domain or MTA there is no danger of non-delivery (see step 2 b) if the clocks are out of synchronization."

Page 123

Subclause 14.3

Renumber the existing bullet "8)" as "7)" and add a new bullet:

"8) The Deferred-delivery module, which passes a message with instructions indicating the problem encountered."

Page 127

Subclause 14.3.1.4

In bullet 2) paragraph 2, replace "recipient-requested-alternate-recipient" with "**recipient-assigned-alternate-recipient**".

Page 131

Subclause 14.3.4.4

In bullet 4) b) first paragraph, replace "recipient-requested-alternate-recipient" with "**recipient-assigned-alternate-recipient**".

Replace the second paragraph with "If **recipient-assigned-alternate-recipient** is in effect and is permitted by the security-policy, and the **recipient-reassignment-prohibited** field has the value **recipient-reassignment-allowed**, then a redirection instruction is generated and the procedure terminates."

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

**Information technology — Text Communication —
Message-Oriented Text Interchange Systems (MOTIS) —
Part 4: Message Transfer System: Abstract Service Definition and
Procedures**

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

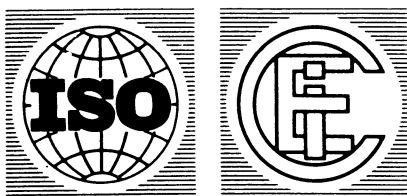
In line 1, delete 'Technical Corrigenda 1, 2 and 3' and substitute 'Technical Corrigenda 1, 2, 3 and 4'.

AMD 7542/December 1992

ISO text

Insert the attached as appropriate.

AMD 7542/December 1992



INTERNATIONAL STANDARD ISO/IEC 10021-4 : 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 4: Message Transfer System: Abstract Service Definition and Procedures

TECHNICAL CORRIGENDUM 4

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

Partie 4: Système de transfert de message: Procédures et définition de service abstrait

RECTIFICATIF TECHNIQUE 4

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

Page 9

Subclause 8.1.1.1.2

Insert a new paragraph six:

"Symmetric algorithms may be used within the above **asymmetric-token** (see clause 8.5.8)."

Page 11

Subclause 8.1.1.1.2.2

Insert a new last paragraph:

"Symmetric algorithms may be used within the above **asymmetric-token** (see clause 8.5.8)."

UDC 681.3 : 621.39

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

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Page 17

Subclause 8.2.1.1.11

Delete the following values from Explicit-conversion:

"teletex-to-telex, telex-to-ia5-text, telex-to-teletex, telex-to-g4-class-1, telex-to-videotex, ia5-text-to-telex, telex-to-g3-facsimile, videotex-to-telex,"

Page 18

Subclause 8.2.1.1.14

In the first sentence of the last paragraph replace "mhs-preferred-delivery-method" with "preferredDeliveryMethod".

Page 18

Subclause 8.2.1.1.17

Replace the second paragraph with the following:

"This argument's value is the combination of two independent components. If present, the first component shall have one of the following values: **ordinary-mail, special-delivery, express-mail, counter-collection, counter-collection-with-telephone-advice, counter-collection-with-telex-advice, or counter-collection-with-teletex-advice**. If present, the second component shall have the value **bureau-fax-delivery**."

Page 20

Subclause 8.2.1.1.25

Add to the end of the sentence in the third paragraph:

"with an asymmetric algorithm (see clause 8.5.8)."

Page 21

Subclause 8.2.1.1.26

Insert a new last paragraph:

"Symmetric algorithms may be used within the above **asymmetric-token** (see clause 8.5.8). If symmetric algorithms are used for both the **message-token** and the **content-integrity-check** then the **message-token** can only support Non Repudiation of Origin elements-of-service if the security policy in force provides for the involvement of a third party acting as a notary."

Page 24

Subclause 8.2.1.1.1.34

In the bullet identified by "external:" after "1984 systems" insert:

"; it shall only be used with **mts-transfer-protocol-1984**"

After this bullet insert a new note:

"NOTE - The interworking rules ensure that the **external content-type** is never used in conjunction with **mts-transfer** or **mts-transfer-protocol**. Although the **external content-type** is designed to allow interworking between 1988 systems through intermediate 1984 systems, a 1984 system may deliver (or submit) a **content** of the **external content-type** provided that the MTS-user (or the MTA itself) performs the equivalent of the upgrading (or downgrading) rules given in ISO/IEC 10021-6."

Page 25

Subclause 8.2.1.1.1.34

In the description of **inner-envelope**, replace:

, for forwarding by the recipient named on the outer-envelope to those named on the inner-envelope."

with:

. When delivered to the recipient named on the outer-envelope, the outer-envelope is removed and the content is deciphered, if needed, resulting in an inner-envelope and its content. The information contained in the inner-envelope is used to transfer the content of the inner-envelope to the recipients named on the inner-envelope."

Page 25

Subclause 8.2.1.1.1.37

The word content in the second paragraph should be in bold face.

Add at the end of the subclause:

"NOTE - The value of the octet string containing the encoded **content** does not change as the message crosses the MTS."

Pages 26-27

Subclause 8.2.1.1.2.4

In the third paragraph replace "the arguments of the submitted message (see clause 8.2.1.1.1)" with "the Message-submission arguments (see clause 8.2.1.1.1) of the subject message".

Delete the last sentence of the third paragraph.

Page 40

Subclause 8.3.1.1.1.4

In the first paragraph, replace the last sentence with "An additional value of this argument shall be present for each occasion the message was redirected."

Page 40

Subclause 8.3.1.1.1.5

In the first paragraph, replace the last sentence with "An additional value of this argument shall be present for each occasion the message was redirected."

Page 40

Subclause 8.3.1.1.1.6

Replace the first paragraph with the following:

"If the originator of the message requested disclosure of other recipients, this argument contains the **OR-names** of the originally-specified recipients other than the one (if any) identified by either the **originally-intended-recipient-name** argument, if present, or else by the **this-recipient-name** argument. This argument shall be generated by the MTS if, and only if, the message-submission abstract-operation had the **disclosure-of-other-recipients** argument set to **disclosure-of-other-recipients-requested** and there is at least one such other recipient."

Add at the end of the subclause:

"NOTE - If DL expansion has been performed, the **OR-names** of the DL's members are not disclosed. The **OR-name** of the DL is disclosed if, and only if, it is that of an originally-specified recipient."

Page 49

Subclause 8.3.1.2.1.11

Add new **non-delivery-diagnostic-codes** to the end of the list, replacing the full stop at the end of "**unable-to-downgrade**" by a semi-colon:

"unable-to-complete-transfer: receiving system has indicated that it is permanently unable to complete transfer of the subject; for example, when the transfer is of such a size that it could never be accepted;

transfer-attempts-limit-reached: the maximum number or time duration of repeat attempts to transfer the subject was reached."

Page 49

Subclause 8.3.1.2.1.13

To improve its clarity, replace the fourth paragraph by:

"The **report-origin-authentication-check** contains the **report-origin-authentication-algorithm-identifier** and an asymmetrically-encrypted hashed version of:

the **report-origin-authentication-algorithm-identifier**;

the **content-identifier** of the subject;

the **message-security-label** of the subject;

and all values of the following (per-recipient) arguments:

the **actual-recipient-name**,

the **originally-intended-recipient-name**, and:

for a delivery-report:

the **message-delivery-time**,

the **type-of-MTS-user**,

the **recipient-certificate** if requested by the originator of the message for recipients to which the report relates,

the **proof-of-delivery** if requested by the originator of the message for recipients to which the report relates and if the report is on a message; or

for a non-delivery-report:

the **non-delivery-reason-code**, and

the **non-delivery-diagnostic-code**."

Page 61

Subclause 8.5.2

Add a new sentence at the end of the third paragraph "If the identification is relative to the associated ADMD then that **administration-domain-name** shall be present." and delete Note 2.

Page 62

Subclause 8.5.5

In the fourth paragraph replace ", optionally a number of **extension-attributes**" with " selected from those defined in ISO/IEC 10021-2"

Replace the last paragraph with:

"In the abstract syntax definition in clause 9, the standard attributes are represented by **built-in-standard-attributes** and by **extension-standard-attributes** and the domain-defined attributes are represented by **built-in-domain-defined-attributes** and by **extension-domain-defined-attributes**.

Clause 18.5 of ISO/IEC 10021-2 specifies several **OR-address** forms. These define which standard and domain-defined attributes may be used together to construct a valid **OR-address**.

Clause 18.3 of ISO/IEC 10021-2 specifies rules indicating the character sets - numeric, printable, and teletex - from which the values of a particular standard attribute may be drawn, and it also defines the valid combinations of the different variants of that standard attribute in the abstract syntax."

Page 62

Subclause 8.5.6

Delete the second paragraph.

In the (existing) third paragraph delete the sentence "The **telex** type is defined in CCITT Recommendation F.1.". In the penultimate sentence replace "(sfd) type is" with "(sfd) type and the **telex** type were" and replace "SFDs" with "SFD and TLX body parts".

After the (existing) third paragraph insert the following new paragraphs:

"Externally-defined **encoded-information-types** are those which are not basic **encoded-information-types**.

In the abstract syntax definition in clause 9, the **encoded-information-types** are the logical union of **built-in-encoded-information-types** and **extended-encoded-information-types**. The latter are those to which object-identifiers have been allocated by an appropriate authority. They include both standardised and privately-defined **encoded-information-types**.

A basic **encoded-information-type** may be represented equivalently by a bit in the **built-in-encoded-information-types** or by an **extended-encoded-information-type**. Annex A acts as the registration authority for the object-identifiers to be used as the **extended-encoded-information-type** registrations of the basic **encoded-information-types**.

An externally-defined **encoded-information-type** is always represented by an **extended-encoded-information-type**. Other standards define object-identifiers that may be used as **extended-encoded-information-types**."

Page 63

Subclause 8.5.7

In the second paragraph replace "A **certificate** contains the following parameters:" with:

"A **certificate** contains one or more items of certification information. Each instance of certification information contains the following parameters:"

Change the description of the "**subject-public-keys**" parameter to:

"**subject-public-key**: the public-asymmetric-encryption-keys of the subject;"

Change the description of the "**algorithms**" parameter to:

"**algorithm**: the **algorithm-identifiers**, associated with a **subject-public-key**;"

Replace the 8th paragraph, starting "The form of a **certificate**" with:

"The form of a **certificate** is defined in ISO/IEC 9594-8 as the data-type **certificates**."

Page 64

Subclause 8.5.8

Change the description of the "**recipient-name**" parameter to:

"recipient-name: either the **OR-address-and-or-directory-name** of the intended-recipient of the **token** or, when MTAs use strong authentication during a bind, the **MTA-name** and optionally the **global-domain-identifier**;"

Page 70

Figure 2 (Part 3 of 26)

Insert the keyword IMPLICIT in the production for "MessageSubmission":

extensions [1] IMPLICIT EXTENSIONS CHOSEN FROM {

Page 72

Figure 2 (Part 5 of 26)

Insert the keyword IMPLICIT in the production for "MessageDelivery":

proof-of-delivery [1] IMPLICIT ProofOfDelivery OPTIONAL }

Page 74

Figure 2 (Part 7 of 26)

Insert the keyword IMPLICIT in the production for "PerMessageSubmissionFields":

extensions [2] IMPLICIT PerMessageSubmissionExtensions DEFAULT { } }

Page 75

Figure 2 (Part 8 of 26)

Insert the keyword IMPLICIT in the production for "PerRecipientMessageSubmissionFields":

extensions [2] IMPLICIT PerRecipientMessageSubmissionExtensions DEFAULT { } }

Insert the keyword IMPLICIT in the production for "PerProbeSubmissionFields":

extensions [2] IMPLICIT EXTENSIONS CHOSEN FROM {

Insert the keyword IMPLICIT in the production for "PerRecipientProbeSubmissionFields":

extensions [2] IMPLICIT EXTENSIONS CHOSEN FROM {

Page 76

Figure 2 (Part 9 of 26)

Insert the keyword IMPLICIT in the production for "OtherMessageDeliveryFields":

extensions [9] IMPLICIT EXTENSIONS CHOSEN FROM {

Insert the keyword IMPLICIT in the production for "PerReportDeliveryFields":

extensions [1] IMPLICIT EXTENSIONS CHOSEN FROM {

Insert the keyword IMPLICIT in the production for "PerRecipientReportDeliveryFields":

extensions [4] IMPLICIT EXTENSIONS CHOSEN FROM {

Page 78

Figure 2 (Part 11 of 26)

Replace the production for ExplicitConversion by:

```
ExplicitConversion ::= INTEGER {
    ia5-text-to-teletex (0),
    -- values 1 to 7 are no longer defined
    ia5-text-to-q3-facsimile (8),
    ia5-text-to-q4-class-1 (9),
    ia5-text-to-videotex (10),
    teletex-to-ia5-text (11),
    teletex-to-q3-facsimile (12),
    teletex-to-q4-class-1 (13),
    teletex-to-videotex (14),
    -- value 15 is no longer defined
    videotex-to-ia5-text (16),
    videotex-to-teletex (17) } (0..ub-integer-options)
```

Page 79

Figure 2 (Part 12 of 26)

In the production for "NonDeliveryDiagnosticCode", replace:

unable-to-downgrade (47) } (0..ub-diagnostic-codes)

with:

unable-to-downgrade (47),
unable-to-complete-transfer (48),
transfer-attempts-limit-reached (49) } (0..ub-diagnostic-codes)

Page 80

Figure 2 (Part 13 of 26)

Insert the keyword IMPLICIT in the production for "ExtensionField":

```
standard-extension [0] IMPLICIT EXTENSION,
```

Page 82

Figure 2 (Part 15 of 26)

In the second comment line in PhysicalDeliveryModes definition, replace "with" by "independently of".

Page 85

Figure 2 (Part 18 of 26)

Insert the keyword IMPLICIT in the production for "PerRecipientDeliveryReportFields":

```
proof-of-delivery [1] IMPLICIT ProofOfDelivery OPTIONAL }
```

Page 86

Figure 2 (Part 19 of 26)

Replace the productions for "ORAddress", "StandardAttributes" and intermediate comments with:

```
ORAddress ::= SEQUENCE {
    built-in-standard-attributes BuiltInStandardAttributes,
    built-in-domain-defined-attributes BuiltInDomainDefinedAttributes OPTIONAL,
    -- see also teletex-domain-defined-attributes
    extension-attributes ExtensionAttributes OPTIONAL }

--      The OR-address is semantically absent from the OR-name if the built-in-standard-attribute
--      sequence is empty and the built-in-domain-defined-attributes and extension-attributes are both omitted.

--      Built-in Standard Attributes

BuiltInStandardAttributes ::= SEQUENCE {
    country-name CountryName OPTIONAL,
    administration-domain-name AdministrationDomainName OPTIONAL,
    network-address [0] NetworkAddress OPTIONAL,
    -- see also extended-network-address
    terminal-identifier [1] TerminalIdentifier OPTIONAL,
    private-domain-name [2] PrivateDomainName OPTIONAL,
    organization-name [3] OrganizationName OPTIONAL,
    -- see also teletex-organization-name
    numeric-user-identifier [4] NumericUserIdentifier OPTIONAL,
    personal-name [5] PersonalName OPTIONAL,
    -- see also teletex-personal-name
    organizational-unit-names [6] OrganizationalUnitNames OPTIONAL
    -- see also teletex-organizational-unit-names -- }
```

Page 87

Figure 2 (Part 20 of 26)

After the definition of "NetworkAddress" add: "-- see also extended-network-address"

After the definition of "OrganizationName" add: "-- see also teletex-organization-name".

After the definition of "PersonalName" add: "-- see also teletex-personal-name".

After the definition of "OrganizationalUnitNames" add: "-- see also teletex-organizational-unit-names".

Replace the comment "-- Domain-defined Attributes" and the definitions "DomainDefinedAttributes" and "DomainDefinedAttribute" with:

-- *Built-in Domain-defined Attributes*

BuiltInDomainDefinedAttributes ::= SEQUENCE SIZE (1..ub-domain-defined-attributes) OF
BuiltInDomainDefinedAttribute

BuiltInDomainDefinedAttribute ::= SEQUENCE {
type PrintableString (SIZE (1..ub-domain-defined-attribute-type-length)),
value PrintableString (SIZE (1..ub-domain-defined-attribute-value-length)) }

Before the definition of "common-name" add: "-- Extension Standard Attributes".

Move the definitions of "teletex-domain-defined-attributes", "TeletexDomainDefinedAttributes" and "TeletexDomainDefinedAttribute" from (Part 21 of 26) to the end of (Part 23 of 26) in Figure 2, with the new heading:

-- *Extension Domain-defined Attributes*

Page 91

Figure 2 (Part 24 of 26)

In the production for "EncodedInformationTypes", change:

external-encoded-information-types [4] ExternalEncodedInformationTypes OPTIONAL }

to:

extended-encoded-information-types [4] ExtendedEncodedInformationTypes OPTIONAL }

In the production for BuiltInEncodedInformationTypes, delete "telex (1),".

In the production for "ExternalEncodedInformationTypes", change:

-- *External Encoded Information Types*

ExternalEncodedInformationTypes ::= SET SIZE (1..ub-encoded-information-types) OF
ExternalEncodedInformationType

ExternalEncodedInformationType ::= OBJECT IDENTIFIER

to:

-- *Extended Encoded Information Types*

ExtendedEncodedInformationTypes ::= SET SIZE (1..ub-encoded-information-types) OF
ExtendedEncodedInformationType

ExtendedEncodedInformationType ::= OBJECT IDENTIFIER

Page 92

Figure 2 (Part 25 of 26)

Insert the keyword IMPLICIT in the production for "Token":

token-type-identifier [0] IMPLICIT TOKEN,

Insert the keyword IMPLICIT in the production for "AsymmetricToken":

encrypted-data [2] IMPLICIT ENCRYPTED TokenData OPTIONAL }

Insert the keyword IMPLICIT in the production for "TokenData":

type [0] IMPLICIT TOKEN-DATA,

Insert the keyword IMPLICIT in the production for "MessageTokenSignedData":

content-integrity-check [1] IMPLICIT ContentIntegrityCheck OPTIONAL,

Page 93

Figure 2 (Part 26 of 26)

Insert the keyword IMPLICIT in the production for "MessageTokenEncryptedData":

content-integrity-check [1] IMPLICIT ContentIntegrityCheck OPTIONAL,

Insert the keyword IMPLICIT in the production for "SecurityCategory":

type [0] IMPLICIT SECURITY-CATEGORY,

Page 97

Subclause 12.1.1.1.1.2

Insert a new paragraph six:

"Symmetric algorithms may be used within the above **asymmetric-token** (see clause 8.5.8)."

Page 98

Subclause 12.1.1.1.2.2

Insert a new last paragraph:

"Symmetric algorithms may be used within the above **asymmetric-token** (see clause 8.5.8)."

Page 102

Subclause 12.2.1.1.1.2

Delete the Note from the second bullet in the second paragraph.

Page 110

Subclause 12.3.1

In the last sentence of the last paragraph add "and either" before "**redirected** or **dl-operation**".

Append the last paragraph with the following sentence: "To indicate the order in which redirection and DL expansion have occurred, **redirected** and **dl-operation** indications shall not both appear in a single **trace-information-element** (or **internal-trace-information-element**).".

Page 114

Figure 4 (Part 3 of 7)

Insert the keyword IMPLICIT in the production for "PerMessageTransferFields":

extensions [3] IMPLICIT EXTENSIONS CHOSEN FROM {

Insert the keyword IMPLICIT in the production for "PerRecipientMessageTransferFields":

extensions [3] IMPLICIT EXTENSIONS CHOSEN FROM {

Page 115

Figure 4 (Part 4 of 7)

Insert the keyword IMPLICIT in the production for "PerProbeTransferFields":

extensions [3] IMPLICIT EXTENSIONS CHOSEN FROM {

Insert the keyword IMPLICIT in the production for "PerRecipientProbeTransferFields":

extensions [3] IMPLICIT EXTENSIONS CHOSEN FROM {

Insert the keyword IMPLICIT in the production for "ReportTransferEnvelope":

extensions [1] IMPLICIT EXTENSIONS CHOSEN FROM {

Page 116

Figure 4 (Part 5 of 7)

Insert the keyword IMPLICIT in the production for "PerReportTransferFields":

extensions [3] IMPLICIT EXTENSIONS CHOSEN FROM {

Insert the keyword IMPLICIT in the production for "PerRecipientReportTransferFields":

extensions [6] IMPLICIT EXTENSIONS CHOSEN FROM {

Page 132

Subclause 14.3.4.4

In the first sentence of bullet 5, replace:

"If the recipient is not local to this MTA then"

by:

"If the recipient is not local to this MTA, the deliverability considerations in step 4 may be taken into account. If these do not generate an instruction, then".

Page 135

Subclause 14.3.7.4

In step 3, replace "the value **redirected** is set to true" with "if **dl-operation** is not already indicated then the value **redirected** is indicated, otherwise new **trace-information** and **internal-trace-information** elements are created with the value **redirected** indicated".

Page 139

Subclause 14.3.10.4

In step 6, replace "the value **dl-operation** is set to true" with "if **redirected** is not already indicated then the value **dl-operation** is indicated, otherwise new **trace-information** and **internal-trace-information** elements are created with the value **dl-operation** indicated".

Page 139

Subclause 14.3.11

In step 1 line 6, replace "suffix" with "sequence". In step 2 line 2, replace "suffix" with "trailing sub-sequence".

Page 141

Subclause 14.4.1.4

Delete the third sentence of bullet 3, that is the one reading "In the case of a positive return the trace update procedure is now called to indicate passage through this MTA.".

Page 143

Subclause 14.4.3.4

Delete the second sentence in the second paragraph, starting "**Message-delivery-time** is taken ..."

Add a new sentence to the end of the second paragraph "A **trace-information-element** for this domain is created with the current time as the **arrival-time** and **relay** as **action**. An **internal-trace-information-element** is also created."

Page 153

Subclause 14.7.1.4

In the first sentence of step 8, replace "and the recipient falls" with "and the sender falls".

Replace the first paragraph of step 10 by:

"10) If **disclosure-of-other-recipients** has the value **disclosure-of-other-recipients-requested**, the **other-recipient-name** argument is set to include the following:

- a) The **OR-names** of all originally-specified recipients with an **originally-specified-recipient-number** distinct from that for the current recipient. For any such recipient for which redirection has been recorded, the originally-specified recipient's **OR-name** is that from the first entry in the associated **redirection-history**;
- b) If distribution list expansion has occurred, the **OR-name** from the first entry of the **DL-expansion-history**."

Page 162

Subclause 14.10.4.4

In step 2, add a new paragraph after the first paragraph:

"If the sending-MTA has been instructed by the receiving system to abort the transfer, then the processing continues at step 3, below."

Page 163

Subclause 14.10.4.4

In step 3, after "step 1," insert:

"or the sending-MTA has been instructed to abort the transfer in step 2,"

Add a note at the end of the subclause:

"NOTE - The instruction to abort a transfer is generated by the receiving RTSE-provider if it is permanently unable to complete the transfer; for example, when the transfer is of such a size that it could never be accepted."

Page 163

Subclause 14.10.5.4

In step 2, add a new paragraph after the first paragraph:

"If the sending-MTA has been instructed by the receiving system to abort the transfer, then the processing continues at step 3, below."

In step 3, after "step 1 above," insert:

"or the sending-MTA has been instructed to abort the transfer in step 2,"

Add a note at the end of the subclause:

"NOTE - The instruction to abort a transfer is generated by the receiving RTSE-provider if it is permanently unable to complete the transfer; for example, when the transfer is of such a size that it could never be accepted."

Page 164

Subclause 14.10.6.4

In step 2, add a new paragraph after the first paragraph:

"If the sending-MTA has been instructed by the receiving system to abort the transfer, then the processing continues at step 3, below."

In step 3, after "step 1 above," insert:

"or the sending-MTA has been instructed to abort the transfer in step 2,"

Add a note at the end of the subclause:

"NOTE - The instruction to abort a transfer is generated by the receiving RTSE-provider if it is permanently unable to complete the transfer; for example, when the transfer is of such a size that it could never be accepted."

Page 167

Figure A.1 (Part 2 of 2)

After "-- *Encoded Information Types*", replace:

```
id-eit-telex OBJECT IDENTIFIER ::= { id-eit 1 }
```

with:

```
-- Value { id-eit 1 } is no longer defined
```


**Implementation of Technical Corrigendum 5
published and effective from 15 March 1993
to BS ISO/IEC 10021-4 : 1990**

**Information technology – Text Communication – Message-Oriented
Text Interchange Systems (MOTIS) –
Part 4: Message Transfer System: Abstract Service Definition and
Procedures**

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 7683/March 1993

ISO text
Insert the attached as appropriate.

AMD 7683/March 1993
