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AMENDMENT 1
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**Information technology — Message
Handling Systems (MHS): Interpersonal
messaging system**

**AMENDMENT 1: Security error diagnostic
codes**

*Technologies de l'information — Systèmes de messagerie (MHS): Système
de messagerie entre personnes*

AMENDEMENT 1: Codes de diagnostic d'erreur de sécurité



Foreword

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In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Amendment 1 to ISO/IEC 10021-7:1997 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 33, *Distributed application services*, in collaboration with ITU-T. The identical text is published as ITU-T Rec. X.420/Amd.1.

INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – MESSAGE HANDLING SYSTEMS (MHS):
INTERPERSONAL MESSAGING SYSTEMAMENDMENT 1
Security error diagnostic codes

1) Annex B

In B.3, *modify the SecurityDiagnosticCode ASN.1 definition as follows:*

```
SecurityDiagnosticCode:: = INTEGER {
    integrity-failure-on-subject-message (0),
    integrity-failure-on-forwarded-message (1),
    moac-failure-on-subject-message (2),
    unsupported-security-policy (3),
    unsupported-algorithm-identifier (4),
    decryption-failed (5),
    token-error (6),
    unable-to-sign-notification (7),
    unable-to-sign-message-receipt (8),
    authentication-failure-on-subject-message (9),
    security-context-failure-message (10),
    message-sequence-failure (11),
    message-security-labelling-failure (12),
    repudiation-failure-of-message (13),
    failure-of-proof-of-message (14),
    signature-key-unobtainable (15),
    decryption-key-unobtainable (16),
    key-failure (17),
    unsupported-request-for-security-service (18),
    inconsistent-request-for-security-service (19),
    ipn-non-repudiation-instead-of-content-proof (20),
    token-decryption-failed (21),
    double-enveloping-message-restoring-failure (22),
    unauthorised-dl-member (23),
    reception-security-failure (24),
    unsuitable-alternate-recipient (25),
    security-services-refusal (26),
    unauthorised-recipient (27),
    unknown-certification-authority-name (28),
    unknown-dl-name (29),
    unknown-originator-name (30),
    unknown-recipient-name (31),
    security-policy-violation (32) }
```

In B.3, *modify the item f) as follows:*

- f) *decryption-failed*: The recipient could not decrypt the message content.

In B.3, *add the following text at the end:*

- 1) *token-decryption-failed*: The recipient could not decrypt the message token.
- 2) *double-enveloping-message-restoring-failure*: The message contained an inner envelope, but failure of security services on the outer envelope prevented the UA from extracting the inner message for subsequent processing.
- 3) *unauthorised-dl-member*: The UA has detected that the message has been received via a DL, yet this recipient was prohibited by the security policy from being a member of that DL.

- 4) *recipient-security-failure*: The message could not be received due to the failure of one of the message security services.
- 5) *unsuitable-alternate-recipient*: The message was not able to be processed as it has been delivered to an alternate recipient and this recipient is unable to process the security functions.
- 6) *security-services-refusal*: The security services cannot be supported.
- 7) *unauthorised-recipient*: The recipient is not allowed to get the required decryption keys for content confidentiality. The recipient is not authorised to read the message content.
- 8) *unknown-certification-authority-name*: The message cannot be processed because the certification authority named in a certificate contained within one of the security arguments is not known to the UA, or is not trusted by the UA.
- 9) *unknown-dl-name*: The security policy requires the UA to perform checks on messages that have been received via DLs, and in this case one of the DLs named in the DL-expansion-history was unknown to the UA.
- 10) *unknown-originator-name*: The originator MTS-user **O/R name** identifies a user who is not known to the receiving UA, hence the security arguments cannot be validated.
- 11) *unknown-recipient-name*: The recipient MTS-user **O/R name** identifies a user who is not known to the receiving UA, hence the security arguments cannot be validated.
- 12) *security-policy-violation*: The security policy is violated.

2) Annex K

Same modification as for 1) (Annex B).