



Information technology — Remote Operation: Concepts, model and notation

TECHNICAL CORRIGENDUM 1

Technologies de l'information — Opérations à distance: Concepts, modèle et notation

RECTIFICATIF TECHNIQUE 1

Technical corrigendum 1 to International Standard ISO/IEC 13712-1:1995 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 21, *Open systems interconnection, data management and open distributed processing*.

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INTERNATIONAL STANDARD

ITU-T RECOMMENDATION

INFORMATION TECHNOLOGY – REMOTE OPERATIONS: CONCEPTS,
MODEL AND NOTATION

TECHNICAL CORRIGENDUM 1

1) Subclause 9.4.1

Replace the ASN.1 box with the following:

```

ReturnResult {OPERATION:Operations} ::= SEQUENCE
{
    invokeId  InvokeId
                (CONSTRAINED BY {-- must be that for an outstanding operation --}
                ! RejectProblem : returnResult-unrecognisedInvocation)
                (CONSTRAINED BY {-- which returns a result --}
                ! RejectProblem: returnResult-resultResponseUnexpected),
    result    SEQUENCE
    {
        opcode  OPERATION.&operationCode
                ({Operations})(CONSTRAINED BY {-- identified by invokeId --}
                ! RejectProblem : returnResult-unrecognisedInvocation),
        result  OPERATION.&ResultType    ({Operations} {@.opcode}
                ! RejectProblem : returnResult-mistypedResult)
    }
        OPTIONAL
    }
    (CONSTRAINED BY { -- must conform to the above definition -- }
    ! RejectProblem : general-mistypedPDU)

```

2) Subclause 10.11

Replace the contents of the ASN.1 box with the following:

```

recode {OPERATION:operation, Code:code} OPERATION ::=
{
    ARGUMENT          operation.&ArgumentType
    OPTIONAL          operation.&argumentTypeOptional
    RESULT            operation.&ResultType
    OPTIONAL          operation.&resultTypeOptional
    RETURN RESULT     operation.&returnResult
    ERRORS            {operation.&Errors}
    LINKED            {operation.&Linked}
    SYNCHRONOUS       operation.&synchronous
    ALWAYS RESPONDS   operation.&alwaysReturns
    INVOKE PRIORITY   {operation.&InvokePriority}
    RESULT-PRIORITY   {operation.&ResultPriority}
    CODE              code
}

```

3) Subclause 10.12

Replace the contents of the ASN.1 box with the following:

```
switch {OPERATION-PACKAGE:package, OBJECT IDENTIFIER:id} OPERATION-PACKAGE ::=
{
    OPERATIONS          {package.&Both}
    CONSUMER INVOKES    {package.&Consumer}
    SUPPLIER INVOKES    {package.&Supplier}
    ID                  id
}
```

4) Subclause 10.13.1

Replace the contents of the ASN.1 box with the following:

```
combine {OPERATION-PACKAGE:ConsumerConsumes, OPERATION-PACKAGE:ConsumerSupplies,
OPERATION-PACKAGE:base} OPERATION-PACKAGE ::=
{
    OPERATIONS          {ConsumerConsumes.&Both | ConsumerSupplies.&Both}
    CONSUMER INVOKES    {ConsumerConsumes.&Consumer | ConsumerSupplies.&Supplier}
    SUPPLIER INVOKES    {ConsumerConsumes.&Supplier | ConsumerSupplies.&Consumer}
    ID                  base.&id
}
```

5) Annex A

In the module:

Remote-Operations-Generic-ROS-PDUs {joint-iso-itu-t remote-operations(4) generic-ROS-PDUs(6) version1(0)},

replace the definition of:

ReturnResult{OPERATION:Operations}

with the following:

```
ReturnResult {OPERATION:Operations} ::= SEQUENCE
{
    invokeId  InvokeId
              (CONSTRAINED BY {-- must be that for an outstanding operation --}
               ! RejectProblem : returnResult-unrecognisedInvocation)
              (CONSTRAINED BY {-- which returns a result --}
               ! RejectProblem: returnResult-resultResponseUnexpected),
    result    SEQUENCE
    {
        opcode  OPERATION.&operationCode
                ((Operations))(CONSTRAINED BY {-- identified by invokeId --}
                ! RejectProblem : returnResult-unrecognisedInvocation),
        result  OPERATION.&ResultType      ((Operations) {@.opcode}
                ! RejectProblem : returnResult-mistypedResult)
    }
    OPTIONAL
}
(CONSTRAINED BY {-- must conform to the above definition --}
! RejectProblem : general-mistypedPDU)
```

In the module:

Remote-Operations-Useful-Definitions {joint-iso-itu-t remote-operations(4) useful-definitions(7) version1(0)}

replace the definitions of:

recode { OPERATION:operation, Code:code }

with the following:

```

recode {OPERATION:operation, Code:code} OPERATION ::=
{
    ARGUMENT          operation.&ArgumentType
    OPTIONAL           operation.&argumentTypeOptional
    RESULT             operation.&ResultType
    OPTIONAL           operation.&resultTypeOptional
    RETURN RESULT      operation.&returnResult
    ERRORS             {operation.&Errors}
    LINKED             {operation.&Linked}
    SYNCHRONOUS        operation.&synchronous
    ALWAYS RESPONDS    operation.&alwaysReturns
    INVOKE PRIORITY    {operation.&InvokePriority}
    RESULT-PRIORITY    {operation.&ResultPriority}
    CODE               code
}

```

In the module:

Remote-Operations-Useful-Definitions {joint-iso-itu-t remote-operations(4) useful-definitions(7) version1(0)}

replace the definition of:

switch { OPERATION-PACKAGE:package, OBJECT IDENTIFIER:id }

with the following:

```

switch {OPERATION-PACKAGE:package, OBJECT IDENTIFIER:id} OPERATION-PACKAGE ::=
{
    OPERATIONS          {package.&Both}
    CONSUMER INVOKES    {package.&Consumer}
    SUPPLIER INVOKES    {package.&Supplier}
    ID                  id
}

```

In the module:

Remote-Operations-Useful-Definitions {joint-iso-itu-t remote-operations(4) useful-definitions(7) version1(0)}

replace the definition of:

combine { OPERATION-PACKAGE: ConsumerConsumes, OPERATION-PACKAGE:ConsumerSupplies,
OPERATION-PACKAGE:base }

with the following:

```

combine {OPERATION-PACKAGE:ConsumerConsumes, OPERATION-PACKAGE:ConsumerSupplies,
OPERATION-PACKAGE:base} OPERATION-PACKAGE ::=
{
    OPERATIONS          {ConsumerConsumes.&Both | ConsumerSupplies.&Both}
    CONSUMER INVOKES    {ConsumerConsumes.&Consumer | ConsumerSupplies.&Supplier}
    SUPPLIER INVOKES    {ConsumerConsumes.&Supplier | ConsumerSupplies.&Consumer}
    ID                  base.&id
}

```

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