INTERNATIONAL STANDARD

ISO/IEC 9506-2

First edition 1990-10-15 **AMENDMENT 1** 1993-07-01

Industrial automation systems — Manufacturing Message Specification —

Part 2:

Teh Protocol specification VIEW

AMENDMENTIL Datal exchange

ISO/IEC 9506-2:1990/Amd 1:1993

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Partie 2: Spécification du protocole

AMENDEMENT 1: Échange de données

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Amendment 1 to International Standard ISO/IEC 9506-2:1990 was prepared by Technical Committee ISO/TC 184, Industrial automation systems, Sub-Committee SC 5, System integration and communication.

ISO/IEC 9506-2:1990/Amd 1:1993

ISO/IEC 9506 consists of the following parts, funder the general title haustriat 3f11-4524-bec1-automation systems — Manufacturing Message Specification 9506-2-1990-amd-1-1993

- Part 1: Service definition
- Part 2: Protocol specification

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Industrial automation systems — Manufacturing Message Specification —

Part 2:

Protocol specification

AMENDMENT 1: Data exchange

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Subclause 7.5.2

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Change

"additionalService [78] AdditionalService-Request"

to

"additionalService [78] AdditionalService-Request,"

Insert the following after "-- choice [79] is reserved":

"getDataExchangeAttributes [80] GetDataExchangeAttributes-Request,

-- Shall not appear in minor version 1

exchangeData [81] IMPLICIT ExchangeData-Request

-- Shall not appear in minor version 1"

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Subclause 7.5.2

Change

"getCapabilityList [71] IMPLICIT CS-GetCapabilityList-Request"

to

"getCapabilityList [71] IMPLICIT CS-GetCapabilityList-Request,

getDataExchangeAttributes [80] IMPLICIT CS-GetDataExchangeAttributes-Request,

-- Shall not appear in minor version 1

exchangeData [81] IMPLICIT CS-ExchangeData-Request

-- Shall not appear in minor version 1"

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```
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Subclause 7.5.4
Change
  "additionalService [78] AdditionalService-Response"
to
  "additionalService [78] AdditionalService-Response,"
Insert the following after "-- choice [79] is reserved":
                                      IMPLICIT GetDataExchangeAttributes-Response.
  "getDataExchangeAttributes [80]
                                      -- Shall not appear in minor version 1
                                      IMPLICIT ExchangeData-Response
   exchangeData
                                [81]
                                      -- Shall not appear in minor version 1"
Page 28
Subclause 7.5.4
Change
  "getCapabilityList
                                [71] AIMPLICIT CS-GetCapabilityList-Response" R
                                          (standards.iteh.ai)
to
                                      IMPLICIT CS-GetCapabilityList-Response,"
  "getCapabilityList
                                [71]
                                      IMPLICIT CS-GetDataExchangeAttributes-Response,
   getDataExchangeAttributes
                               [80]
                                   standar Shall nior tappeat in minor version i
                                      IMPLICIT CS Exchange Data-Response 1993
   exchangeData
                                [81]
                                      -- Shall not appear in minor version 1"
Page 36
Subclause 8.2
Change
  "cancel (84)"
to
  "cancel
                                (84),
   getDataExchangeAttributes (85), -- Shall not appear in minor version 1
   exchangeData
                                (86), -- Shall not appear in minor version 1"
Page 41
Subclause 9.4
Change
  "operatorStation
                      (11)"
to
  "operatorStation
                      (11),
  "dataExchange
                      (12)
                                -- Shall not appear in minor version 1"
```

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Subclause 9.6

Change

"operatorStation (11)"

to

"operatorStation (11),

dataExchange (12)-- Shall not appear in minor version 1"

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Subclause 17.3

Item a), change

"7 to 16 and"

to

"7 to 16, 20 and"

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Subclause 17.8

In the first sentence of the second paragraph, change

"clauses 6 to 16 and"

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to

"clauses 6 to 16, 20 and"

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Subclause 17.11

Last line, change

"shall be one"

to

"shall be 2"

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Subclause 18.3

Table 2, add the following to the end:

getDataExchangeAttributes	
exchangeData	

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Clause 19

Add the following immediately before the last line:

"CS-GetDataExchangeAttributes-Request : : = NULL

CS-GetDataExchangeAttributes-Response::= NULL

CS-ExchangeData-Request : : = NULL

CS-ExchangeData-Response::= NULL"

Add a new clause as follows:

20 Data Exchange Protocol

20.1 Introduction

This clause describes the protocol required for realization of the services which are defined in Clause 20 of ISO/IEC 9506-1. This includes:

GetDataExchangeAttributes ExchangeData

20.2 ExchangeData

The abstract syntax of the exchangeData choice of the ConfirmedServiceRequest and ConfirmedServiceResponse types is specified below and described in the subclauses which follow. Subclause 5.5 describes the derivation of all parameters for which explicit derivations are not provided in this clause.

20.2.1 ExchangeData-Request

The abstract syntax of the exchangeData choice of the ConfirmedServiceRequest type shall be the ExchangeData-Request.

20.2.2 ExchangeData-Response iTeh STANDARD PREVIEW

The abstract syntax of the exchangeData choice of the ConfirmedServiceResponse type shall be the ExchangeData-Response.

20.3 GetDataExchangeAttributes

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The abstract syntax of the getDataExchangeAttributes choice of the ConfirmedServiceRequest and ConfirmedServiceResponse types is specified below and described in the subclauses which follow. Subclause 5.5 describes the derivation of all parameters for which explicit derivations are not provided in this clause.

20.3.1 GetDataExchangeAttributes-Request

The abstract syntax of the getDataExchangeAttributes choice of the ConfirmedServiceRequest type shall be the GetDataExchangeAttributes-Request.

20.3.2 GetDataExchangeAttributes-Response

The abstract syntax of the getDataExchangeAttributes choice of the ConfirmedServiceResponse type shall be the GetDataExchangeAttributes-Response.

20.3.2.1 Program Invocation

The presence of the programInvocation element of the GetDataExchangeAttributes-Response shall indicate that the value of the Linked attribute of the Data Exchange Object is true. If present, the value of this parameter shall convey the name of the Program Invocation referenced by the Program Invocation Reference attribute of the Data Exchange Object.

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Clause A.1

Add the following at the end of the page:

"CS-GetDataExchangeAttributes-Request

CS-GetDataExchangeAttributes-Response

CS-ExchangeData-Request

CS-ExchangeData-Response"

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UDC 681.3:621.39:62-52

Descriptors: manufacturing, automation, control devices, computers, data processing, information interchange, network interconnection, open systems interconnection, communication procedure, application layer, protocols.

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