SLOVENSKI STANDARD
SIST EN 62439-1:2010/A2:2018

01-februar-2018

Industrijska komunikacijska omrežja - Avtomatizacija omrežja z visoko razpoložljivostjo - 1. del: Splošni koncept in računske metode - Dodatek 2 (IEC 62439-1:2010/A2:2016)

Industrial communication networks - High availability automation networks - Part 1: General concepts and calculation methods (IEC 62439-1:2010/A2:2016)

Industrielle Kommunikationsnetze - Hochverfügbare Automatisierungsnetze - Teil 1: Grundlagen und Berechnungsmethoden (IEC 62439-1:2010/A2:2016)

Réseaux industriels de communication - Réseaux d'automatisation à haute disponibilité - Partie 1: Concepts généraux et méthodes de calcul (IEC 62439-1:2010/A2:2016)

Ta slovenski standard je istoveten z: **EN 62439-1:2010/A2:2017**

ICS:

25.040.01	Sistemi za avtomatizacijo v industriji na splošno	Industrial automation systems in general
35.110	Omreževanje	Networking

SIST EN 62439-1:2010/A2:2018 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62439-1:2010/A2

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English Version

Industrial communication networks - High availability automation networks - Part 1: General concepts and calculation methods (IEC 62439-1:2010/A2:2016)

Réseaux industriels de communication - Réseaux d'automatisation à haute disponibilité - Partie 1: Concepts généraux et méthodes de calcul (IEC 62439-1:2010/A2:2016)

Industrielle Kommunikationsnetze - Hochverfügbare Automatisierungsnetze - Teil 1: Grundlagen und Berechnungsmethoden (IEC 62439-1:2010/A2:2016)

This amendment A2 modifies the European Standard EN 62439-1:2010; it was approved by CENELEC on 2016-04-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

The text of document 65C/834/FDIS, future edition 1 of IEC 62439-1:2010/A2, prepared by SC 65C "Industrial networks", of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62439-1:2010/A2:2017.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2018-05-10
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2020-11-10

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 62439-1:2010/A2:2016 was approved by CENELEC as a European Standard without any modification.

IEC 62439-1

Edition 1.0 2016-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 2
AMENDEMENT 2

Industrial communication networks – High availability automation networks – Part 1: General concepts and calculation methods

Réseaux de communication industriels – Réseaux de haute disponibilité pour l'automatisation – Partie 1: Concepts généraux et méthodes de calcul

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FOREWORD

This amendment has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial-process measurement, control and automation.

The text of this amendment is based on the following documents:

FDIS	Report on voting
65C/834/FDIS	65C/841/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

3.4 Reserved network addresses

Add, between items “PRP” and “CRP” of the list given in the third paragraph, the following new item:

- HSR (see IEC 62439-3) uses 0x892F.

5.1.4 Comparison and indicators

Replace, in the existing Table 2, the existing rows "MRP" and "BRP" with the following:

MRP	IEC 62439-2	Yes	Within the network	Single	Ring, meshed	500 ms, 200 ms, 30 ms or 10 ms worst case for 50 switches depending on the parameter set and network topology
BRP	IEC 62439-5	Yes	In the end nodes	Double	Doubly meshed, connected	8,88 ms worst case for 100 end nodes