



SLOVENSKI STANDARD

SIST EN 61069-6:1998

01-november-1998

Industrial-process measurement and control - Evaluation of system properties for the purpose of system assessment - Part 6: Assessment of system operability (IEC 61069-6:1998)

Industrial-process measurement and control - Evaluation of system properties for the purpose of system assessment -- Part 6: Assessment of system operability

Leittechnik für industrielle Prozesse - Ermittlung der Systemeigenschaften zum Zweck der Eignungsbeurteilung eines Systems -- Teil 6: Eignungsbeurteilung der Systembedienbarkeit

Mesure et commande dans les processus industriels - Appréciation des propriétés d'un système en vue de son évaluation -- Partie 6: Evaluation de l'opérabilité d'un système

Ta slovenski standard je istoveten z: EN 61069-6:1998

ICS:

25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control
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Descriptors: Industrial-process, measurement and control, system assessment, evaluation of system properties, assessment of system operability

English version

Industrial-process measurement and control
Evaluation of system properties for the purpose of system assessment
Part 6: Assessment of system operability
(IEC 61069-6:1998)

Mesure et commande dans les
processus industriels
Appréciation des propriétés d'un
système en vue de son évaluation
Partie 6: Evaluation de l'opérabilité d'un
système
(CEI 61069-6:1998)

Leittechnik für industrielle Prozesse
Ermittlung der Systemeigenschaften
zum Zweck der Eignungsbeurteilung
eines Systems
Teil 6: Eignungsbeurteilung der
Systembedienbarkeit
(IEC 61069-6:1998)

This European Standard was approved by CENELEC on 1998-04-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 Central Secretariat or to any CENELEC member.

This European Standard 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 Central Secretariat has the same status as the official versions.

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CENELEC

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

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Foreword

The text of document 65A/246/FDIS, future edition 1 of IEC 61069-6, prepared by SC 65A, System aspects, of IEC TC 65, Industrial-process measurement and control, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61069-6 on 1998-04-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1999-01-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2001-01-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annex ZA is normative and annexes A, B and C are informative.
Annex ZA has been added by CENELEC.

The relation of this part to the other parts of EN 61069 and the relative place of this part within the standard is shown in figure 1.

Part 1 provides the overall guidance and as such is intended as a stand-alone publication.

Part 2 details the assessment methodology.

Part 3 to 8 provide guidance on the assessment of specific groups of properties.

The division of properties in parts 3 to 8 have been chosen so as to group together related properties.

Endorsement notice

The text of the International Standard IEC 61069-6:1998 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)

**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61069-1	1991	Industrial-process measurement and control Evaluation of system properties for the purpose of system assessment Part 1: General considerations and methodology	EN 61069-1 + corr. November	1993 1993
IEC 61069-2	1993	Part 2: Assessment methodology	EN 61069-2	1994
IEC 61069-3	1996	Part 3: Assessment of system functionality	EN 61069-3	1996
IEC 61069-4	1997	Part 4: Assessment of system performance	EN 61069-4	1997
IEC 61069-8	¹⁾	Part 8: Assessment of non task related properties	-	-
ISO 9241-10	1996	Ergonomic requirements for office work with visual display terminals (VDTs) Part 10: Dialogue principles	-	-

1) To be published.

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NORME
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INTERNATIONAL
STANDARD

CEI
IEC

61069-6

Première édition
First edition
1998-04

**Mesure et commande dans
les processus industriels –
Appréciation des propriétés d'un système
en vue de son évaluation –**

Partie 6:
Evaluation de l'opérabilité d'un système
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**Industrial-process measurement and control –
Evaluation of system properties for the purpose
of system assessment –**

Part 6:
Assessment of system operability

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL –
EVALUATION OF SYSTEM PROPERTIES FOR THE PURPOSE
OF SYSTEM ASSESSMENT –**

Part 6: Assessment of system operability

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61069-6 has been prepared by subcommittee 65A: System aspects, of IEC technical committee 65: Industrial-process measurement and control.

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

FDIS	Report on voting
65A/246/FDIS	65A/251/RVD

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

The relation of this part to the other parts of IEC 61069 and the relative place of this part within this standard is shown in figure 1.

Part 1 provides the overall guidance and as such is intended as a "stand-alone" publication.

Part 2 details the assessment methodology.

Parts 3 to 8 provide guidance on the assessment of specific groups of properties.

The division of properties in parts 3 to 8 have been chosen so as to group together related properties.

IEC 61069 consists of the following parts, under the general title: Industrial-process measurement and control. Evaluation of system properties for the purpose of system assessment:

Part 1: General considerations and methodology

Part 2: Assessment methodology

Part 3: Assessment of system functionality

Part 4: Assessment of system performance

Part 5: Assessment of system dependability

Part 6: Assessment of system operability

Part 7: Assessment of system safety¹⁾

Part 8: Assessment of not task related system properties¹⁾

Annexes A, B and C are for information only.

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1) To be published.

INTRODUCTION

This part of IEC 61069 deals with the method which should be used to assess the operability of industrial process measurement and control systems.

Assessment of a system is the judgement, based on evidence, of the system's suitability for a specific mission or class of missions.

To obtain total evidence would require complete (i.e. under all influencing conditions) evaluation of all system properties relevant to the specific mission or class of missions.

Since this is rarely practical, the rationale on which an assessment of a system should be based is:

- to identify the criticality of each of the relevant system properties;
- to plan for evaluation of the relevant system properties with a cost-effective dedication of effort to the various properties.

In conducting an assessment of a system it is crucial to bear in mind the need to gain a maximum increase in confidence in the suitability of a system within practical cost and time constraints.

An assessment can only be carried out if a mission has been stated (or given) or if any mission can be hypothesized. In the absence of a mission, no assessment can be made, however evaluations (as defined in IEC 61069-1) can still be specified and be carried out for use in assessments performed by others.

In such cases, the standard can be used as a guide for planning an evaluation and it provides procedures for performing evaluations, since evaluations are an integral part of assessment.

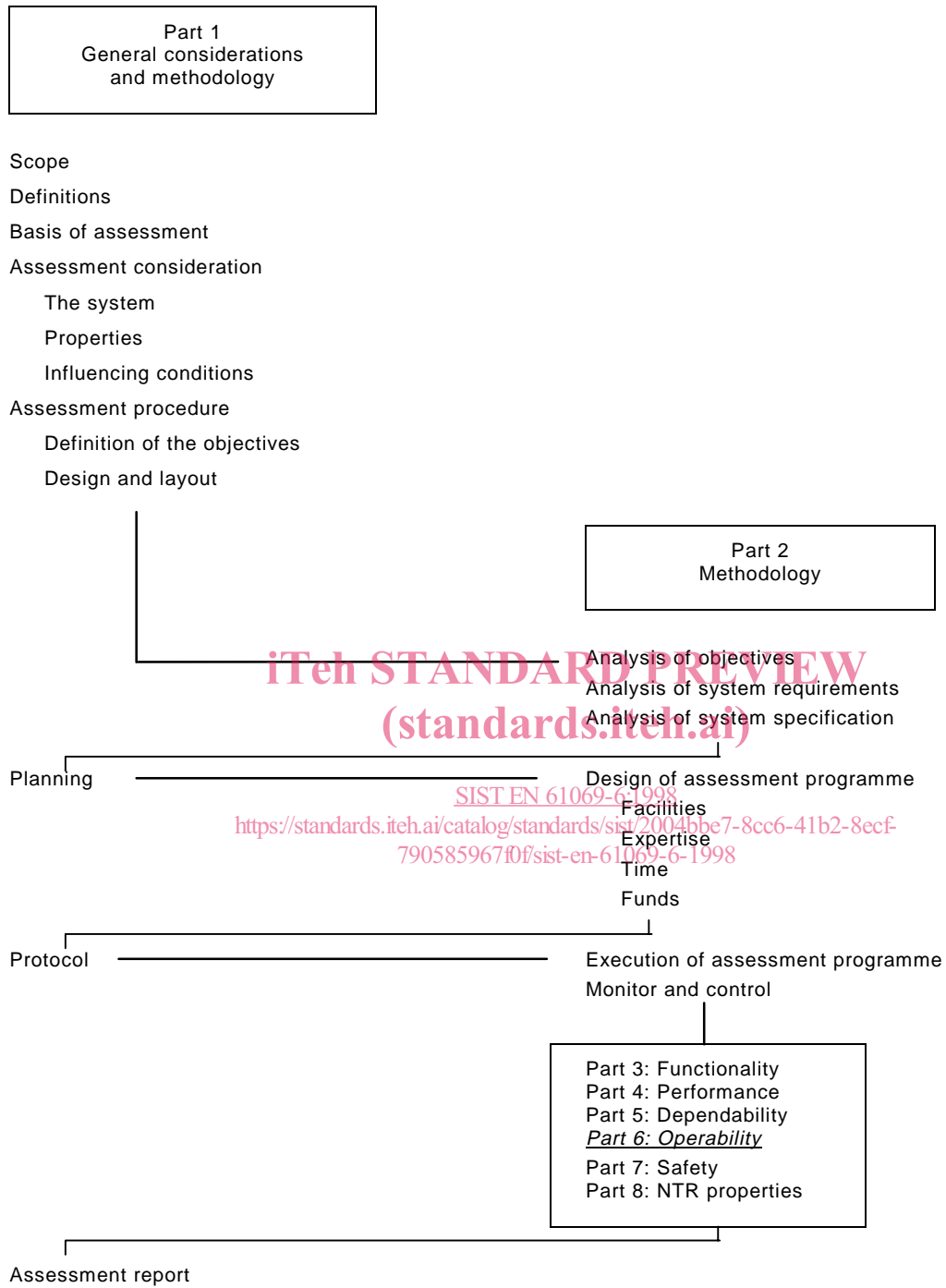


Figure 1 – General layout of IEC 61069