

# TECHNICAL REPORT



**Power systems management and associated information exchange –  
Interoperability in the long term –  
Part 103: Standard profiling**



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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

# POWER SYSTEMS MANAGEMENT AND ASSOCIATED INFORMATION EXCHANGE – INTEROPERABILITY IN THE LONG TERM –

## Part 103: Standard profiling

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IEC TR 62361-103, which is a technical report, has been prepared by IEC technical committee 57, Power systems management and associated information exchange.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
57/1911/DTR	57/1972/RVDTR

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 62361 series, published under the general title *Power systems management and associated information exchange – Interoperability in the long term*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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- withdrawn,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

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# POWER SYSTEMS MANAGEMENT AND ASSOCIATED INFORMATION EXCHANGE – INTEROPERABILITY IN THE LONG TERM –

## Part 103: Standard profiling

### 1 Scope

This part of IEC 62361, which is a technical report, describes the concepts of standard profiling for Common Information Model (CIM – IEC 61970, IEC 61968, IEC 62325) and IEC 61850 standard series. It serves as an introduction to profiling concepts and methodologies for the development of profiles for providing interoperability. It describes the specific needs and requirements of the standard application domains and derives profiling concepts respectively. Moreover the document defines the foundation for more detailed descriptions in the respective standard series.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61850 (all parts), *Communication networks and systems for power utility automation*

IEC 61968 (all parts), *Application integration at electric utilities – System interfaces for distribution management*

IEC 61970 (all parts), *Energy management system application program interface (EMS-API)*

IEC 62325 (all parts), *Framework for energy market communications*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

#### 3.1

#### Basic Application Profile

#### BAP

user agreed-upon selection and interpretation of relevant parts of the applicable standards and specifications which is intended to be used as building blocks for interoperable user/project specifications

Note 1 to entry: BAPs must not have options, all selected criteria are mandatory to achieve interoperability. For implementation in projects, BAPs might be extended or refined to meet the user specific requirements.