

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 2 AMENDEMENT 2

**Power systems management and associated information exchange – Data and communications security –
Part 3: Communication network and system security – Profiles including TCP/IP**

**Gestion des systèmes de puissance et échanges d'informations associés –
Sécurité des communications et des données –
Partie 3: Sécurité des réseaux et des systèmes de communication – Profils
comprenant TCP/IP**

WORLDWIDE



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FOREWORD

This amendment to International Standard IEC 62351-3 has been prepared by IEC technical committee 57: Power systems management and associated information exchange.

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

FDIS	Report on voting
57/2149/FDIS	57/2167/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.

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

A list of all parts in the IEC 62351 series, published under the general title *Power systems management and associated information exchange – Data and communications security*, can be found on the IEC website.

The committee has decided that the contents of this 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- withdrawn,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.

INTRODUCTION to Amendment 2

This amendment to International Standard IEC 62351-3 and its Amendment 1 (2018) has been prepared in order to address the following issues:

- Support for TLS versions 1.1 and 1.0 is made optional instead of mandatory to address known weaknesses. This is aligned with the defined security warnings for TLS versions 1.1 and 1.0.
- Update of TLS version handling during renegotiation and resumption to avoid TLS version downgrade/upgrade within a same session.
- Updated explanatory text for session renegotiation to make the communication relations clearer.
- Deprecation of RSA1024 and SHA-1 algorithms. This underlines the desire to disallow them in the next edition.
- Inclusion of PICS section for mandatory and optional settings in TLS.
- Updated text for and enhancements of security events to better align with IEC 62351-14.
- Inclusion of general remarks for the security event handling.
- Update of references.