

INTERNATIONAL IEEE Std 1636.2™ STANDARD

**Software Interface for Maintenance Information Collection and Analysis
(SIMICA) –
Part 2: Exchanging Maintenance Action Information via the Extensible Markup
Language (XML)**

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 25.040.01; 35.060

ISBN 978-2-8322-6307-5

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SOFTWARE INTERFACE FOR MAINTENANCE INFORMATION COLLECTION AND ANALYSIS (SIMICA) –

Part 2: Exchanging Maintenance Action Information via the Extensible Markup Language (XML)

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IEEE Std	FDIS	Report on voting
1636.2 (2018)	91/1815/FDIS	91/1826/RVD

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IEEE Standard for Software Interface for Maintenance Information Collection and Analysis (SIMICA): Exchanging Maintenance Action Information via the Extensible Markup Language (XML)

Sponsor

IEEE Standards Coordinating Committee 20 on
Test and Diagnosis for Electronic Systems

Approved 27 September 2018

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Abstract: Promoting and facilitating interoperability components of automatic test systems where actions taken during maintenance need to be shared is addressed in this standard. The standard thus facilitates the capture of maintenance action information data in storage devices and databases, facilitating online and offline analysis. The maintenance action information schema becomes a class of information that can be used within the SIMICA family of standards. The exchange format is expressed in both the OWL and XML formats.

Keywords: automated test system (ATS), extensible markup language (XML), IEEE 1636.2™, maintenance action information (MAI), OWL ontology, Software Interface for Maintenance Information Collection and Analysis (SIMICA), XML schema

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Introduction

This introduction is not part of IEEE Std 1636.2-2018, IEEE Standard for Software Interface for Maintenance Information Collection and Analysis (SIMICA): Exchanging Maintenance Action Information via the Extensible Markup Language (XML).

Maintainers of complex systems require the ability to capture and share maintenance action information in a way that supports such activities as performance analysis, post production product improvement, maintenance process improvement, and diagnostic maturation. Principal stakeholders of this project include but are not limited to maintenance organizations within various Departments/Ministries of Defense, the commercial airlines, the automotive industry, and the telecommunications industry. This standard is being developed as a component of the IEEE Std 1636™ Software Interface for Maintenance Information Collection and Analysis (SIMICA) project. SIMICA's purpose is to specify a software interface for access, exchange, and analysis of product diagnostic and maintenance information. Maintenance action information provides a subset of the data needed to satisfy SIMICIA requirements.

This document provides the description of the maintenance action information elements.

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