



IEC 61671-5

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# INTERNATIONAL IEEE Std 1671.5™ STANDARD

Standard for automatic test markup language (ATML) test adapter description



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## Standard for Automatic Test Markup Language (ATML) Test Adapter Description

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# **IEEE Standard for Automatic Test Markup Language (ATML) Test Adapter Description**

Sponsor

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

Approved 26 March 2015

**IEEE-SA Standards Board**

**Abstract:** An exchange format using extensible markup language (XML) for identifying all of the hardware, software, and documentation associated with a test adapter is specified in this document. This test adapter may be used as a component of a test program set to test and diagnose a unit under test.

**Keywords:** ATML instance document, automatic test equipment (ATE), automatic test markup language (ATML), automatic test system (ATS), IEEE 1671.5™, interface device (ID), interface test adapter (ITA), test adapter, test fixture, XML schema



## IEEE Introduction

This introduction is not part of IEEE Std 1671.5™-2015, IEEE Standard for Automatic Test Markup Language (ATML) Test Adapter Description.

This child, or dot, standard, also known as an ATML component standard, provides for the definition of the Test Adapter XML schemas, and contains references to examples; both of which accompany this standard.

These XML schemas provide for the identification and definition of a test adapter.

ATML's XML schemas define the basic information required within any test application and provide a vehicle for formally defining the test environment by defining a class hierarchy corresponding to these basic information entities and provide several methods within each to enable basic operations to be performed on these entities. ATML component standards within the ATML framework define the particular requirements within the test environment.

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# Standard for Automatic Test Markup Language (ATML) Test Adapter Description

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## 1. Overview

### 1.1 General

Automatic test markup language (ATML) is a collection of IEEE standards and associated extensible markup language (XML) schemas that allow automatic test system (ATS) and test information to be exchanged in a common format adhering to the XML standard.<sup>1</sup>

The ATML framework and the ATML family of standards have been developed and are maintained under the guidance of the Test Information Integration (TII) Subcommittee of IEEE Standards Coordinating Committee 20 (SCC20) to serve as a comprehensive environment for integrating design data, test strategies, test requirements, test procedures, test results management, and test system implementations, while allowing test program (TP), test asset interoperability, and unit under test (UUT) data to be interchanged between heterogeneous systems.

This standard (as well as the XML schemas and XML instance document examples<sup>2</sup> that accompany this standard) is intended to be used in identifying and documenting test adapters which may be utilized during the testing of a unit under test (UUT). This information includes the mechanical, electrical, and software interfaces of the test adapter.

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<sup>2</sup> The XML schemas and examples that accompany this standard are available at the locations defined in Clause 6.