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**ITU-T**

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OF ITU

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SERIES Z: LANGUAGES AND GENERAL SOFTWARE  
ASPECTS FOR TELECOMMUNICATION SYSTEMS

Formal description techniques (FDT) – Testing and Test  
Control Notation (TTCN)

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**Testing and Test Control Notation version 3:  
The IDL to TTCN-3 mapping**

Recommendation ITU-T Z.168

ITU-T



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# Recommendation ITU-T Z.168

## Testing and Test Control Notation version 3: The IDL to TTCN-3 mapping

### Summary

Recommendation ITU-T Z.168 defines the mapping rules for Common Object Request Broker Architecture (CORBA) Interface Definition Language (IDL) to TTCN-3 (as defined in Recommendation ITU-T Z.161) to enable testing of CORBA-based systems. The principles of mapping CORBA IDL to TTCN-3 can be also used for the mapping of interface specification languages of other object-/component-based technologies.

The specification of other mappings is outside the scope of this Recommendation.

This revision of the Recommendation contains amendments, clarifications, corrigenda and editorial corrections.

### History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T Z.168	2007-11-13	17	<a href="http://handle.itu.int/11.1002/1000/9283">11.1002/1000/9283</a>
2.0	ITU-T Z.168	2011-03-16	17	<a href="http://handle.itu.int/11.1002/1000/11070">11.1002/1000/11070</a>
3.0	ITU-T Z.168	2012-05-29	17	<a href="http://handle.itu.int/11.1002/1000/11603">11.1002/1000/11603</a>
4.0	ITU-T Z.168	2013-07-14	17	<a href="http://handle.itu.int/11.1002/1000/11965">11.1002/1000/11965</a>
5.0	ITU-T Z.168	2015-10-29	17	<a href="http://handle.itu.int/11.1002/1000/12602">11.1002/1000/12602</a>
6.0	ITU-T Z.168	2017-10-14	17	<a href="http://handle.itu.int/11.1002/1000/13379">11.1002/1000/13379</a>

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\* To access the Recommendation, type the URL <http://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID. For example, <http://handle.itu.int/11.1002/1000/11830-en>.

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As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at <http://www.itu.int/ITU-T/ipr/>.

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# Recommendation ITU-T Z.168

## Testing and Test Control Notation version 3: The IDL to TTCN-3 mapping

### 1 Scope

This Recommendation defines the mapping rules for CORBA IDL to TTCN-3 to enable testing of CORBA-based systems. The principles of mapping CORBA IDL to TTCN-3 can be also used for the mapping of interface specification languages of other object-/component-based technologies.

The specification of other mappings is outside the scope of this Recommendation.

### 2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

[ETSI ES 201 873-8 V4.7.1] ETSI ES 201 873-8 V4.7.1 (2017-05), *Methods for Testing and Specification (MTS); The Testing and Test Control Notation version 3; Part 8: The IDL to TTCN-3 Mapping*.

### 3 Definitions

#### 3.1 Terms defined elsewhere

None.

#### 3.2 Terms defined in this Recommendation

None.

### 4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

CORBA Common Object Request Broker Architecture

IDL Interface Definition Language

TTCN Testing and Test Control Notation

TTCN-3 Testing and Test Control Notation version 3

### 5 Conventions

None.

### 6 Endorsement

[ETSI ES 201 873-8 V4.7.1] was approved by ITU-T as the basis for Recommendation ITU-T Z.168.

## **Bibliography**

- [b-ITU-T Z.161] Recommendation ITU-T Z.161 (2015), *Testing and Test Control Notation version 3: TTCN-3 core language*.



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