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**Technical requirements for TAA to
certify TSA clocks of UTC-traceability**

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by National Institute of Information and Communications Technology (NICT)/ Japan Data Communications Association (JADAC) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

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Technical requirements for TAA to certify TSA clocks of UTC-traceability

Introduction

In time-stamping services, TSA clocks used to create time-stamps are required to be synchronized correctly with Japan Standard Time. This Japanese Industrial Standard aims at constructing time dissemination chains of Japan Standard Time from a timing center to a TSA and specifies how a Time Assessment Authority (TAA) certifies the TSA of the traceability to the standard time.

At present, the corresponding International Standard has not yet been published at this moment.

1 Scope

This Standard specifies technical requirements for TAAs which disseminate time to TSA clocks and audit the time of them. This Standard does not specify operational and management requirements for TAA.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For dated references, only the edition cited applies and revisions of them (including subsequent amendments) do not apply. For undated references, the latest edition (including any amendments) applies.

JIS X 0301 : 2002 *Data elements and interchange formats—Information interchange—Representation of dates and times*

JIS X 5063-1 : 2005 *Information technology—Security techniques—Time-stamping services—Part 1: Framework*

JIS Z 8103 : 2000 *Glossary of terms used in measurement*

JIS Z 8202-1 : 2000 *Quantities and units—Part 1: Space and time*

ITU-R TF.536-2 *Time-scale notations*

3 Terms and definitions

For the purpose of this Standard, terms and definitions given in Annex B and the following apply.

3.1 timing center

an organization that disseminates standard time

NOTE : In Japan, NICT (National Institute of Information and Communications Technology) generates and disseminates UTC (NICT), based on Section 14 (1) 3 of Act for establishment of the NICT.

3.2 time assessment authority (TAA)

an entity that disseminates time to a TSA and audits the time of the TSA clock