# ISO/IEC 13250-4:2009-03 (E)

## Information technology - Topic Maps - Part 4: Canonicalization

## Contents

Page


Foreword ..... iv

Introduction ..... v

1 Scope ..... 1

2 Normative references ..... 1

3 Canonicalization ..... 1
3.1 Introduction ..... 1
3.2 Notational conventions ..... 2
3.3 CXTM document information item ..... 2
3.4 Constructing a representation of a topic map item ..... 2
3.5 Constructing a representation of a topic item ..... 2
3.6 Constructing a representation of the topic name item ..... 3
3.7 Constructing a representation of a variant item ..... 3
3.8 Constructing a representation of an occurrence item ..... 3
3.9 Constructing a representation of an association item ..... 4
3.10 Constructing a representation of the association role item ..... 4
3.11 Constructing a representation of the [reifier] property ..... 4
3.12 Constructing a representation of the [scope] property ..... 5
3.13 Constructing a representation of the [item identifiers] property ..... 5
3.14 Constructing a representation of the [datatype] property ..... 5
3.15 Constructing a representation of the [type] property ..... 5
3.16 Constructing a representation of the [value] property ..... 5
3.17 Constructing a representation of locator values ..... 6
3.18 Normalizing locator values ..... 6
3.19 Constructing the number attribute ..... 6
3.20 Encoding of string properties ..... 7
3.21 Encoding of positional values ..... 7
3.22 Default property values for element information items ..... 7
3.23 Default property values for attribute information items ..... 7

4 Canonical sort order ..... 7
4.1 Introduction ..... 7
4.2 Information type and basic type sort order ..... 7
4.3 Comparison of strings ..... 8
4.4 Comparison of sets ..... 8
4.5 Comparison order for locators ..... 8
4.6 Canonical sort order for topic items ..... 8
4.7 Canonical sort order for topic name items ..... 8
4.8 Canonical sort order for variant items ..... 8
4.9 Canonical sort order for occurrence items ..... 8
4.10 Canonical sort order for association items ..... 9
4.11 Canonical sort order for association role items ..... 9

Annex A (informative) RELAX-NG schema for CXTM ..... 10

Bibliography ..... 12