# ISO/IEC 15414:2015-04 (E)

## Information technology - Open distributed processing - Reference model - Enterprise language

## Contents

Page


0.1 RM-ODP ..... v
0.2 Overview and motivation ..... v

1 Scope ..... 1

2 Normative references ..... 1
2.1 Identical ITU-T Recommendations ..... International Standards| 1
2.2 Additional References ..... 1

3 Terms and definitions ..... 2
3.1 Definitions from ODP standards ..... 2

4 Abbreviations ..... 3

5 Conventions ..... 4

6 Concepts ..... 4
6.1 System concepts ..... 4
6.2 Community concepts ..... 4
6.3 Behaviour concepts ..... 4
6.4 Deontic concepts ..... 5
6.5 Policy concepts ..... 6
6.6 Accountability concepts ..... 6

7 Structuring rules ..... 7
7.1 Overall structure of an enterprise specification ..... 7
7.2 of an enterprise specification ..... 7
7.3 Community rules ..... 8
7.4 Enterprise object rules ..... 10
7.5 Common community types ..... 10
7.6 Life cycle of a community ..... 11
7.7 Objective rules ..... 11
7.8 Behaviour rules ..... 12
7.9 Policy rules ..... 16
7.10 Accountability rules ..... 18

8 Compliance, completeness and field of application ..... 19
8.1 Compliance ..... 19
8.2 Completeness ..... 19
8.3 Field of application ..... 19

9 Enterprise language compliance ..... 20

10 Conformance and reference points ..... 20

11 Consistency rules ..... 20
11.1 Viewpoint correspondences ..... 20
11.2 Enterprise and information specification correspondences ..... 21
11.3 Enterprise and computational specification correspondences ..... 22
11.4 Enterprise and engineering specification correspondences ..... 22
11.5 Enterprise and technology specification correspondence ..... 23

**Annex A - Model of the enterprise language concepts ..... 24**

**Annex B - Explanations and examples ..... 28**

**B.1 First example - Enterprise specification of an e-commerce system ..... 28**
**B.2 Second example - Specification of a library ..... 34**

**Annex C - An operational semantics for enterprise behaviour ..... 41**

**C.1 A semantics for basic behaviour ..... 41**
**C.2 Frames and markings ..... 41**
**C.3 Calculating the utility of possible courses of action ..... 41**
**C.4 Use of utility to prioritize possible behaviours ..... 41**

**INDEX ..... 43**