# ISO/IEC 20005:2013-07 (E)

## Information technology - Sensor networks - Services and interfaces supporting collaborative information processing in intelligent sensor networks

## Contents

Page


Foreword ..... iv

Introduction ..... v

1 Scope ..... 1

2 Normative references ..... 1

3 Termsanddefinitions ..... 1

4 Abbreviations ..... 2

5 General description ..... 3
5.1 Overview ..... 3
5.2 Requirements of intelligent sensor networks ..... 4
5.3 Overview of collaborative information processing ..... 4
5.4 Functional model of collaborative information processing ..... 5
5.5 Overview of services supporting CIP ..... 6

6 Coreservicesandinterfacesspecifications ..... 8
6.1 Overview ..... 8
6.2 Event service ..... 8
6.3 Logical grouping service ..... 11
6.4 Data grouping service ..... 17
6.5 Data registration service ..... 19
6.6 Information description service ..... 21
6.7 Node-to-node inter-activation service ..... 25
6.8 Parameter adaptation service ..... 26

7 Enhancedservicesandinterfacesspecifications ..... 28
7.1 Overview ..... 28
7.2 QoS management service ..... 28
7.3 CIP-driven scheduling service ..... 32
7.4 Adaptive sensing service ..... 37

Annex A (informative) Core services and interfaces examples ..... 40

Annex B (informative) Enhanced services and interfaces examples ..... 42

Bibliography ..... 44