ISO/TR 18161:2013-07 (E)

Automation systems and integration - Applications integration approach using information exchange requirements modelling and software capability profiling

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Abbreviated terms 3

5 Applications interoperability requirements modelling 3
5.1 Application integration framework in ISO 15745 and ISO 18435 3
5.2 Elements of information exchanges in ISO 18435 4
5.3 Context for information exchange requirements 5
5.4 Content for information exchange requirements 6
5.5 Conveyance for information exchange 7
5.6 ADME for the smart pump application 7

6 Approach for smart pump application interoperability 8
6.1 Smart pump system information model 8
6.2 Resolving ambiguity using OTD 8
6.3 Application integration using ISO 18435 9

7 Constructing AIME and ADME for smart pump application 9
7.1 Overview 9
7.2 AIME for pump control application 9
7.3 AIME for pump diagnostics application 10
7.4 ADME for the integrated smart pump application 10

8 General procedures for achieving application integration 10

Annex A (informative) Modelling smart pump application 12

Annex B (informative) Capability profiling templates of application software units 14

Annex C (informative) Application software unit capability profiles 30

Annex D (informative) AIME and ADME in smart pump application 34

Bibliography 40