

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