

ISO 22549-1:2020 (E)

Automation systems and integration — Assessment on convergence of informatization and industrialization for industrial enterprises — Part 1: Framework and reference model

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Abbreviated terms
5	Overview of assessment
5.1	General
5.2	Enterprise assessing system
5.3	Industrial enterprise assessment framework
6	Assessment reference model definitions
7	Assessment reference model components
7.1	Infrastructure
7.1.1	Capital investment
7.1.2	Organization and planning
7.1.3	Equipment and facilities
7.1.4	Information resources
7.1.5	Information security
7.2	Domain application
7.2.1	Product design
7.2.2	Process design
7.2.3	Production management
7.2.4	Materials management
7.2.5	Sales management
7.2.6	Financial management
7.2.7	Security management
7.2.8	Project management
7.2.9	Maintenance management
7.2.10	Human resource management
7.2.11	Document management
7.2.12	Quality management
7.2.13	Environment, health and safety management
7.2.14	Energy management
7.3	Comprehensive integration
7.3.1	Product design and manufacturing integration
7.3.2	Production management and control integration
7.3.3	Production, supply and marketing integration
7.3.4	Operation decision support
7.4	Collaborative integration
Annex A	(informative) Convention for using ISO/PAS 19450
Annex B	(informative) Functional hierarchy defined in IEC 62264