

ISO/TR 17370:2013-06 (E)

Application Guideline on Data Carriers for Supply Chain Management

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms, definitions, and abbreviated terms	1
4	Supply Chain Model	2
4.1	Supply chain model	2
4.2	Types of data carriers for supply chain management	3
4.3	Characteristics of data carriers for the supply chain	4
5	Layers Related to Supply Chain Standards	5
6	Example for Unique Identifier of Product Package	7
6.1	Data field identification	8
6.2	Data structure	8
6.3	Character set	9
7	Layered Structure of Supply Chain Management	9
7.1	Complex layered structure	9
7.2	Simplified layered structure	10
7.3	Typical layered structure	10
7.4	In-layer relationship and layer-to-layer relationship	11
7.5	Applicable use cases	12
8	Data carrier system	12
8.1	Linear and two-dimensional symbols	12
8.2	Radio Frequency Identification (RFID)	13
8.3	Rewritable Hybrid Media (RHM)	13
8.4	Data field structure	15
9	Structure of transmitted data	16
9.1	Structure of transmitted data in linear symbology	16
9.2	Structure of transmitted data in two-dimensional symbol	17
9.3	Structure of transmitted UII data in RFID	17
Annex A (normative)	Examples of Containers Used for Supply Chain Management	19
Annex B (informative)	Rewritable Hybrid Media	24
Annex C (informative)	Data Carrier Identifiers	27
Annex D (informative)	Layered Structure of Automotive Industry	30
Annex E (informative)	Layered Structure of Electric Home Appliance Industry	33
Annex F (informative)	Examples of Layered Structure	40

Annex G (informative) Syntax for High-Capacity Automatic Data Capture Media	44
Annex H (informative) Assignment of Application Family Identifiers (AFIs)	46
Annex I (informative) Memory Structure of ISO/IEC 18000-63 and ISO/IEC 18000-3, M3	47
Annex J (informative) Data storage capacity and number of RF tags	52
Annex K (informative) 6-bit coding scheme	54
Bibliography	55