

ISO 37173:2023-10 (E)

Smart community infrastructure - Guidance for the development of smart building information systems

Contents		Page
	Foreword.....	iv
	Introduction.....	v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principles	1
4.1	General principles.....	1
4.2	Use cases.....	2
5	Information system and subsystems of smart buildings	2
5.1	Overview.....	2
5.2	Subsystem interconnection overview.....	3
5.3	System recommendations.....	3
5.3.1	Extensibility.....	3
5.3.2	Stability.....	3
5.3.3	Security.....	4
5.3.4	Operability.....	4
5.3.5	Maintainability.....	4
5.3.6	Compatibility.....	4
6	Layers of smart building information systems	4
6.1	General.....	4
6.2	Physical sensing layer.....	5
6.2.1	Equipment records.....	5
6.2.2	Spare parts.....	5
6.3	Application layer.....	5
6.4	Interaction layer.....	5
7	Visualization and data compression	5
7.1	General.....	5
7.2	Fidelity of data compression.....	5
7.3	Aspects of the data compression.....	6
8	Data security	8
8.1	Principles.....	8
8.2	Security measures.....	8
8.2.1	Data security measures.....	8
8.2.2	Data security of the service actors.....	9
8.3	Threat identification.....	9
8.4	Safe operation and maintenance.....	9
8.5	Emergency management.....	10
9	Data privacy	10
9.1	Principles.....	10
9.2	Privacy strategy and governance.....	10
9.2.1	Data privacy of the service object.....	10
9.2.2	Management team.....	11
9.2.3	Notification of privacy management policies.....	11
9.2.4	Accountability and responsibilities.....	11
9.3	Data privacy procedure.....	11
	Annex A (informative) Example of smart building information systems	13
	Bibliography	16