

# ISO 20242-5:2020-06 (E)

## Industrial automation systems and integration - Service interface for testing applications - Part 5: Application program service interface

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Symbols and abbreviated terms .....	3
5	Application Program Service Interface .....	3
5.1	Introduction .....	3
5.2	Parameterization .....	5
5.3	Configuration .....	6
5.3.1	PID based configuration .....	6
5.3.2	Service based and mixed configuration .....	6
5.4	Coordinator structure .....	7
5.4.1	Workspace .....	7
5.4.2	Interface variants .....	9
5.5	Details for using APSI .....	12
5.5.1	Workspace structure .....	12
5.5.2	Callback methods and references .....	12
5.5.3	Workspace extension .....	13
5.5.4	Workspace transfer .....	14
5.5.5	Data monitoring .....	14
5.5.6	Data types .....	15
5.5.7	Streaming .....	16
5.6	Error handling .....	18
	(normative) Programmer's reference guide -- Smart Access Interface .....	19
	(normative) Programmer's reference guide -- Extended Access Interface .....	79
	(normative) Programmer's reference guide -- Full Access Interface .....	125
	(normative) Reference guide -- Enums and status/ident informations .....	222
	(informative) Sequence diagrams .....	235
	(informative) Streaming .....	243
	(informative) Data alignment and byte order .....	247
	ISO 13209 (OTX) series .....	250
	(normative) Conformance test methods, criteria and reports .....	279
	Bibliography .....	283