

# ISO 15000-2:2021-02 (E)

## Electronic business eXtensible Markup Language (ebXML) - Part 2: Applicability Statement (AS) profile of ebXML messaging service

---

<b>Contents</b>		<b>Page</b>
Foreword .....		vi
Introduction .....		vii
1	Scope .....	1
2	Normative references .....	2
3	Terms and definitions .....	4
4.1	General .....	5
4.2	The AS4 ebHandler conformance profile .....	5
4.2.1	General .....	5
4.2.2	Feature set .....	5
4.2.3	WS-I conformance profiles .....	8
4.2.4	Processing mode parameters .....	8
4.3	The AS4 light client conformance profile .....	10
4.3.1	General .....	10
4.3.2	Feature set .....	11
4.3.3	WS-I conformance requirements .....	13
4.3.4	Processing mode parameters .....	13
4.4	The AS4 minimal client conformance profile .....	15
4.4.1	General .....	15
4.4.2	Feature set .....	15
4.4.3	WS-I conformance requirements .....	16
4.4.4	Processing mode parameters .....	18
4.5	Conformance profiles compatibility .....	19
5	AS4 additional features .....	21
5.1	General .....	21
5.2	Compression .....	21
5.3	Reception awareness features and duplicate detection .....	23
5.4	Alternative pull authorization .....	24
5.5	Semantics of receipt in AS4 .....	24
5.6	Sub-channels for message pulling .....	25
5.7	Additional features errors .....	26
6	Complementary requirements for the AS4 multi-hop profile .....	27
6.1	General .....	27
6.2	Rationale and context .....	27
6.3	General constraints .....	28
6.4	Processing mode parameter .....	29
6.5	AS4 endpoint requirements .....	29
7.1	General .....	31
7.2	AS4 usage rules .....	31
7.2.1	Core components / modules to be used .....	31
7.2.2	Bundling rules .....	32
7.2.3	Security element .....	33
7.2.4	Signing messages .....	33
7.2.5	Signing SOAP with attachments messages .....	34

7.2.6	Encrypting messages .....	34
7.2.7	Encrypting SOAP with attachments messages .....	35
7.2.8	Generating receipts .....	35
7.2.9	MIME header and filename information .....	37
7.3	AS4 usage agreements .....	37
7.3.1	General .....	37
7.3.2	AS4 usage agreement parameters .....	37
7.3.3	Controlling content and sending of receipts .....	37
7.3.4	Error handling options .....	38
7.3.5	Securing the pull request .....	39
7.3.6	Reception awareness parameters .....	41
7.3.7	Default values of some P-Mode parameters .....	41
7.3.8	HTTP confidentiality and security .....	42
7.3.9	Deployment and processing requirements for CPAs .....	43
7.3.10	Message payload and flow profile .....	43
7.3.11	Additional deployment or operational requirements .....	44
8	Conformance statements .....	45
8.1	General .....	45
8.2	AS4 ebHandler conformance .....	45
8.3	AS4 light client conformance .....	45
8.4	AS4 minimal client conformance .....	46
8.5	AS4 minimal sender conformance .....	46
8.6	AS2/AS4 ebHandler conformance .....	46
8.7	AS4 multi-hop endpoint conformance .....	46
Annex A (informative)	Sample messages .....	47
Annex B (informative)	Generating an AS4 receipt .....	52
Bibliography	.....	55