ISO 15000-2:2021-02 (E)

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

Contents

Page

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