

# ISO/IEC 23006-4:2013-02 (E)

## Information technology - Multimedia service platform technologies - Part 4: Elementary services

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
Introduction .....		vi
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms, definitions and abbreviated terms .....</b>	<b>3</b>
3.1	Terms and definitions .....	3
3.2	Abbreviated terms .....	5
<b>4</b>	<b>Namespaces and conventions .....</b>	<b>6</b>
4.1	Namespaces .....	6
4.2	Namespace convention .....	9
4.3	Conventions .....	12
<b>5</b>	<b>Elementary Services .....</b>	<b>13</b>
5.1	Introduction .....	13
5.2	Base data types, elements, and common messages .....	25
5.3	MPEG-M service Schema wrapper .....	47
5.4	Session control and status polling .....	49
5.5	The Authenticate Services .....	56
5.6	The Authorize Services .....	65
5.7	The Check With Services .....	68
5.8	The Create Services .....	74
5.9	The Deliver Services .....	86
5.10	The Describe Services .....	94
5.11	The Identify Services .....	120
5.12	The Negotiate Services .....	135
5.13	The Package Services .....	159
5.14	The Post Services .....	164
5.15	The Present Services .....	166
5.16	The Process Services .....	171
5.17	The Request Services .....	181
5.18	The Revoke Services .....	202
5.19	The Search Services .....	210
5.20	The Store Services .....	226
5.21	The Transact Services .....	236
5.22	The Verify Services .....	259
<b>Annex A (normative)</b>	<b>Classification Schemes for IPTV offering discovery sections .....</b>	<b>269</b>
A.1	General .....	269
A.2	Classification Scheme for ETSI IPTV (DVB-IP) offering discovery sections .....	269
A.3	Classification Scheme for ATIS IIF offering discovery sections .....	270
<b>Annex B (normative)</b>	<b>Service Types for Process Content .....</b>	<b>272</b>
B.1	General .....	272
B.2	Recognize Speech .....	272

<b>B.3</b>	<b>Synthesize Speech</b> .....	<b>275</b>
<b>B.4</b>	<b>Process Language</b> .....	<b>278</b>
<b>B.5</b>	<b>Translate Language</b> .....	<b>282</b>
<b>B.6</b>	<b>Extract Sensory Information</b> .....	<b>286</b>
<b>B.7</b>	<b>Content Adaptation</b> .....	<b>290</b>
<b>B.8</b>	<b>Resource Transcoding</b> .....	<b>295</b>
<b>B.9</b>	<b>Stream Repurposing</b> .....	<b>299</b>
<b>Annex C (normative) Schema for Service Instance Declaration</b> .....		<b>308</b>
<b>C.1</b>	<b>General</b> .....	<b>308</b>
<b>C.2</b>	<b>Schema Definition of Service Instance Declaration</b> .....	<b>308</b>
<b>C.3</b>	<b>Semantics of Service Instance Declaration</b> .....	<b>309</b>
<b>Annex D (normative) Usage of HTTP responses for response messages</b> .....		<b>311</b>
<b>D.1</b>	<b>General</b> .....	<b>311</b>
<b>Annex E (informative) Metadata Representation</b> .....		<b>312</b>
<b>E.1</b>	<b>General</b> .....	<b>312</b>
<b>E.2</b>	<b>Content metadata</b> .....	<b>312</b>
<b>E.3</b>	<b>Device Metadata</b> .....	<b>318</b>
<b>E.4</b>	<b>Service Instance Declaration Metadata</b> .....	<b>320</b>
<b>E.5</b>	<b>User Metadata</b> .....	<b>321</b>
<b>Annex F (normative) DIDL restriction for MPEG-M services</b> .....		<b>324</b>
<b>F.1</b>	<b>Purpose</b> .....	<b>324</b>
<b>F.2</b>	<b>MPEG-M DIDL Profile</b> .....	<b>324</b>
<b>Annex G (normative) Classification Schemes</b> .....		<b>339</b>
<b>G.1</b>	<b>General</b> .....	<b>339</b>
<b>G.2</b>	<b>AuctionModelCS</b> .....	<b>339</b>
<b>G.3</b>	<b>IssueTypeCS</b> .....	<b>343</b>
<b>G.4</b>	<b>TransferProtocolCS</b> .....	<b>344</b>
<b>G.5</b>	<b>TaggingTypeCS</b> .....	<b>345</b>
<b>G.6</b>	<b>RTPMediaTypeCS</b> .....	<b>346</b>
<b>G.7</b>	<b>ProtocolBindingCS</b> .....	<b>347</b>
<b>Annex H (normative) BPMN 2.0 XML representation of Elementary Services</b> .....		<b>348</b>
<b>H.1</b>	<b>General</b> .....	<b>348</b>
<b>H.2</b>	<b>OMG BPMN 2.0 Graphical Description</b> .....	<b>348</b>
<b>H.3</b>	<b>OMG BPMN 2.0 XML Description</b> .....	<b>351</b>
<b>Bibliography</b> .....		<b>358</b>