

Mode: All Lines

Left file: R:\BCAST\OMA\CRs\own\OMA-ETS-BCAST\_ATS-V1\_0-20081212-D\LibBCast\_ServiceGuide\_Templates.ttcn

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1	/**	=	1	/**
2	*		2	*
3	* @author		3	* @author
4	* ETSI CTI OMA BCAST CON Project		4	* ETSI CTI OMA BCAST CON Project
5	* @version		5	* @version
6	* \$Id\$		6	* \$Id\$
7	* @desc		7	* @desc
8	* This module provides service guid		8	* This module provides service guid
9	» e specific templates.		9	» e specific templates.
10	*/		10	*/
11	module LibBCast_ServiceGuide_Templates {		11	module LibBCast_ServiceGuide_Templates {
12	import from LibBCast_ServiceGuid		12	import from LibBCast_ServiceGuid
13	» e_TypesAndValues all;		13	» e_TypesAndValues all;
14	import from LibBCast_Common_Type		14	import from LibBCast_Common_Type
15	» sAndValues all;		15	» sAndValues all;
16	import from LibCommon_BasicTypes		16	import from LibCommon_BasicTypes
17	» AndValues all;		17	» AndValues all;
18	import from LibBCast_ServicePrim		18	import from LibBCast_ServicePrim
19	» itives_TypesAndValues all;		19	» itives_TypesAndValues all;
20	import from AtsBCast_ModuleParam		20	import from AtsBCast_ModuleParam
21	» eters all;		21	» eters all;
22	import from LibBCast_ModuleParam		22	import from LibBCast_ModuleParam
23	» eters {		23	» eters {
24	group DvvhBootstrapConfi		24	group DvvhBootstrapConfi
25	» guration		25	» guration
26	};		26	};
27			27	
28	group FDT {		28	group FDT {
29	/**		29	/**
30	*		30	*
31	* @desc		31	* @desc
32	* This template cre		32	* This template cre
33	» ates a file elment which is used in Fi		33	» ates a file elment which is used in Fi
34	» le		34	» le
35	* Delivery Table In		35	* Delivery Table In
36	» stance (FDT).		36	» stance (FDT).
37	* @param		37	* @param
38	* p_ContentLocation		38	* p_ContentLocation
39	» The contnent location for the file el		39	» The contnent location for the file el
40	» ement		40	» ement
41	* @param		41	* @param
42	* p_TOI The index o		42	* p_TOI The index o
43	» f the file element in the FDT		43	» f the file element in the FDT
44	* @see		44	* @see
45	* LibBCast_Common_T		45	* LibBCast_Common_T
46	» ypesAndValues.FileDeliveryTableInstanc		46	» ypesAndValues.FileDeliveryTableInstanc
47	» e		47	» e
48	* @see		48	* @see
49	* LibBCast_Common_T		49	* LibBCast_Common_T
50	» ypesAndValues.FileElement		50	» ypesAndValues.FileElement
51	*/		51	*/
52			52	
53	template LibBCast_Servic		53	template LibBCast_Servic
54	» ePrimitives_TypesAndValues.FileType m_		54	» ePrimitives_TypesAndValues.FileType m_
55	» def_FileType(		55	» def_FileType(
56			56	
57	AnyUri p_Content		57	AnyUri p_Content

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(continued)

```

38  » _Location,
39      UInt p_TOI,
40      template charstring
41  » p_ContentType,
42      template charstring
43  » p_ContentEncoding) := {
44      MBMS_Session_Ide
45  » ntity := omit,
46      Content_Location
47  » := p_Content_Location,
48      TOI := p_TOI,
49      Content_Length :
50  » = omit,
51      Transfer_Length
52  » := omit,
53      Content_Type :=
54  » p_ContentType,
55      Content_Encoding
56  » := p_ContentEncoding,
57      Content_MD5 := o
58  » mit,
59      FEC_OTI_FEC_Enco
60  » ding_ID := omit,
61      FEC_OTI_FEC_Inst
62  » ance_ID := omit,
63      FEC_OTI_Maximum_
64  » Source_Block_Length := omit,
65      FEC_OTI_Encoding
66  » _Symbol_Length := omit,
67      FEC_OTI_Max_Numb
68  » er_of_Encoding_Symbols := omit,
69      FEC_OTI_Scheme_S
70  » pecific_Info := omit,
71      Version_ID_Lengt
72  » h := omit
73  }
74  /**
75   *
76   * @desc This template c
77  » reates a File Delivery Table Instance
78  » (FDT)
79   * @param p_FileList The
80  » file list wich should be included
81   * @param p_Expires The
82  » expires time for the FDT
83   */
84  template FDT_InstanceTyp
85  » e m_def_FDT_Instance(
86      LibBCast_ServicePrim
87  » itives_TypesAndValues.FileList p_FileL
88  » ist,
89      charstring p_Exp
90  » ires,
91      template charstr
92  » ing p_Content_Type,

```

```

38  » _Location,
39      UInt p_TOI,
40      template charstring
41  » p_ContentType,
42      template charstring
43  » p_ContentEncoding) := {
44      MBMS_Session_Ide
45  » ntity := omit,
46      Content_Location
47  » := p_Content_Location,
48      TOI := p_TOI,
49      Content_Length :
50  » = omit,
51      Transfer_Length
52  » := omit,
53      Content_Type :=
54  » p_ContentType,
55      Content_Encoding
56  » := p_ContentEncoding,
57      Content_MD5 := o
58  » mit,
59      FEC_OTI_FEC_Enco
60  » ding_ID := omit,
61      FEC_OTI_FEC_Inst
62  » ance_ID := omit,
63      FEC_OTI_Maximum_
64  » Source_Block_Length := omit,
65      FEC_OTI_Encoding
66  » _Symbol_Length := omit,
67      FEC_OTI_Max_Numb
68  » er_of_Encoding_Symbols := omit,
69      FEC_OTI_Scheme_S
70  » pecific_Info := omit,
71      Version_ID_Lengt
72  » h := omit
73  }
74  /**
75   *
76   * @desc This template c
77  » reates a File Delivery Table Instance
78  » (FDT)
79   * @param p_FileList The
80  » file list wich should be included
81   * @param p_Expires The
82  » expires time for the FDT
83   */
84  template FDT_InstanceTyp
85  » e m_def_FDT_Instance(
86      LibBCast_ServicePrim
87  » itives_TypesAndValues.FileList p_FileL
88  » ist,
89      charstring p_Exp
90  » ires,
91      template charstr
92  » ing p_Content_Type,

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(continued)

```

69      template UInt8 p
    » _FEC_OTI_FEC_Encoding_ID) := {
70          Files := p_FileL
    » ist,
71          MBMS_Session_Ide
    » ntity_Expirys := omit,
72          Expires := p_Exp
    » ires,
73          Complete := omit
    » ,
74          Content_Type :=
    » p_Content_Type,
    » // necessary for xsd: FDT-InstanceTyp
    » e-BdsDvb
75          Content_Encoding
    » := omit,
76          FEC_OTI_FEC_Enco
    » ding_ID := p_FEC_OTI_FEC_Encoding_ID,
    » // necessary for xsd: FDT-InstanceTyp
    » e-BdsDvb
77          FEC_OTI_FEC_Inst
    » ance_ID := omit,
78          FEC_OTI_Maximum_
    » Source_Block_Length := omit,
79          FEC_OTI_Encoding
    » _Symbol_Length := omit,
80          FEC_OTI_Max_Numb
    » er_of_Encoding_Symbols := omit,
81          FEC_OTI_Scheme_S
    » pecific_Info:= omit,
82          FullFDT := omit,
83          Version_ID_Lengt
    » h := omit
84      }
85  }
86  }
87
88  group SGDD {
89      /**
90      *
91      * @desc
92      * This templates cr
    » eates a Service Guide Delivery Descrip
    » tor
93      * (SGDD) Fragment.
94      * @param
95      * p_TOI The fragmen
    » t index in the FDT
96      * @param
97      * p_Id The fragment
    » id
98      * @param
99      * p_Encoding The en
    » coding of the fragment
100     * @param
101     * p_Type The fragme
    » nt type

```

```

69      template UInt8 p
    » _FEC_OTI_FEC_Encoding_ID) := {
70          Files := p_FileL
    » ist,
71          MBMS_Session_Ide
    » ntity_Expirys := omit,
72          Expires := p_Exp
    » ires,
73          Complete := omit
    » ,
74          Content_Type :=
    » p_Content_Type,
    » // necessary for xsd: FDT-InstanceTyp
    » e-BdsDvb
75          Content_Encoding
    » := omit,
76          FEC_OTI_FEC_Enco
    » ding_ID := p_FEC_OTI_FEC_Encoding_ID,
    » // necessary for xsd: FDT-InstanceTyp
    » e-BdsDvb
77          FEC_OTI_FEC_Inst
    » ance_ID := omit,
78          FEC_OTI_Maximum_
    » Source_Block_Length := omit,
79          FEC_OTI_Encoding
    » _Symbol_Length := omit,
80          FEC_OTI_Max_Numb
    » er_of_Encoding_Symbols := omit,
81          FEC_OTI_Scheme_S
    » pecific_Info:= omit,
82          FullFDT := omit,
83          Version_ID_Lengt
    » h := omit
84      }
85  }
86  }
87
88  group SGDD {
89      /**
90      *
91      * @desc
92      * This templates cr
    » eates a Service Guide Delivery Descrip
    » tor
93      * (SGDD) Fragment.
94      * @param
95      * p_TOI The fragmen
    » t index in the FDT
96      * @param
97      * p_Id The fragment
    » id
98      * @param
99      * p_Encoding The en
    » coding of the fragment
100     * @param
101     * p_Type The fragme
    » nt type

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(continued)

```

102          * @see
103          * @see
104          *      LibBCast_ServiceG
» uide_TypesAndValues.Fragment
105          */
106          template FragmentType m_
» def_Fragment(
107              UInt p_transport
» ObjectId,
108              UInt p_fragmentV
» ersion,          // change 06
» (WK 6): dynamic setting of fragment ve
» rsion number
109              AnyUri p_Id,
110              UInt8 p_Encoding
» ,
111              template UInt8 p
» _Type) := {
112              transportID := p
» _transportObjectId,
113              id := p_Id,
114              version := p_fra
» gmentVersion,    // change 06
» (WK 6): dynamic setting of fragment ve
» rsion number
115              validFrom := omi
» t,
116              validTo := omit,
117              fragmentEncoding
» := p_Encoding,
118              fragmentType :=
» p_Type,
119              GroupingCriteria
» := omit
120          }
121
122          /**
123          *
124          * @desc
125          *      This template cre
» ates a ServiceGuideDeliveryUnitField w
» hich
126          *      is used by the Se
» rvice Guide Delivery Descriptor (SGDD)
» .
127          * @param
128          *      p_TOI The Service
» Guide Delivery Unit (SGDU) index in t
» he FDT
129          * @param
130          *      p_location the lo
» cation of the Service Guide Delivery U
» nit
131          *      (SGDU)
132          * @param
133          *      p_FragmentList Th
» e fragment list of the

```

```

102          * @see
103          * @see
104          *      LibBCast_ServiceG
» uide_TypesAndValues.Fragment
105          */
106          template FragmentType m_
» def_Fragment(
107              UInt p_transport
» ObjectId,
108              UInt p_fragmentV
» ersion,          // change 06
» (WK 6): dynamic setting of fragment ve
» rsion number
109              AnyUri p_Id,
110              UInt8 p_Encoding
» ,
111              template UInt8 p
» _Type) := {
112              transportID := p
» _transportObjectId,
113              id := p_Id,
114              version := p_fra
» gmentVersion,    // change 06
» (WK 6): dynamic setting of fragment ve
» rsion number
115              validFrom := omi
» t,
116              validTo := omit,
117              fragmentEncoding
» := p_Encoding,
118              fragmentType :=
» p_Type,
119              GroupingCriteria
» := omit
120          }
121
122          /**
123          *
124          * @desc
125          *      This template cre
» ates a ServiceGuideDeliveryUnitField w
» hich
126          *      is used by the Se
» rvice Guide Delivery Descriptor (SGDD)
» .
127          * @param
128          *      p_TOI The Service
» Guide Delivery Unit (SGDU) index in t
» he FDT
129          * @param
130          *      p_location the lo
» cation of the Service Guide Delivery U
» nit
131          *      (SGDU)
132          * @param
133          *      p_FragmentList Th
» e fragment list of the

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(continued)

```

134      *      ServiceGuideDeliv
» eryUnitField (SGDU)
135      */
136      template ServiceGuideDel
» iveryUnitType m_def_ServiceGuideDelive
» ryUnitField(
137          UInt p_TOI,
138          AnyUri p_locatio
» n,
139          FragmentList p_F
» ragmentList) := {
140          transportObjectI
» D := p_TOI,
141          contentLocation
» := p_location,
142          validFrom := omi
» t,
143          validTo := omit,
144          Fragments := p_F
» ragmentList
145      }
146
147      // change 1 (WK48/08): T
» SI Value correction - ESG playout
148      /**
149      *
150      * @desc
151      *      This template cre
» ates a ServiceGuideDeliveryDescriptor
152      *      (SGDD).
153      * @param
154      *      p_Id The id of th
» e SGDD
155      * @param
156      *      p_ServiceGuideDel
» iveryUnitField The SGDU field of the S
» GDD
157      * @param
158      *      p_TSI_SGDU The TS
» I of the SGDU (for reverencing the app
» ropriate SGDU FLUTE session)
159      * @param
160      *      p_startTime The s
» tart time of the SGDU session
161      * @param
162      *      p_stopTime The st
» op time of the SGDU session
163      */
164      template ServiceGuideDel
» iveryDescriptorType m_def_ServiceGuide
» DeliveryDescriptor(
165          AnyUri p_Id,
166          ServiceGuideDeli
» veryUnitType p_ServiceGuideDeliveryUni
» tField,
167          UInt16 p_TSI_SGD
» U,

```

```

134      *      ServiceGuideDeliv
» eryUnitField (SGDU)
135      */
136      template ServiceGuideDel
» iveryUnitType m_def_ServiceGuideDelive
» ryUnitField(
137          UInt p_TOI,
138          AnyUri p_locatio
» n,
139          FragmentList p_F
» ragmentList) := {
140          transportObjectI
» D := p_TOI,
141          contentLocation
» := p_location,
142          validFrom := omi
» t,
143          validTo := omit,
144          Fragments := p_F
» ragmentList
145      }
146
147      // change 1 (WK48/08): T
» SI Value correction - ESG playout
148      /**
149      *
150      * @desc
151      *      This template cre
» ates a ServiceGuideDeliveryDescriptor
152      *      (SGDD).
153      * @param
154      *      p_Id The id of th
» e SGDD
155      * @param
156      *      p_ServiceGuideDel
» iveryUnitField The SGDU field of the S
» GDD
157      * @param
158      *      p_TSI_SGDU The TS
» I of the SGDU (for reverencing the app
» ropriate SGDU FLUTE session)
159      * @param
160      *      p_startTime The s
» tart time of the SGDU session
161      * @param
162      *      p_stopTime The st
» op time of the SGDU session
163      */
164      template ServiceGuideDel
» iveryDescriptorType m_def_ServiceGuide
» DeliveryDescriptor(
165          AnyUri p_Id,
166          ServiceGuideDeli
» veryUnitType p_ServiceGuideDeliveryUni
» tField,
167          UInt16 p_TSI_SGD
» U,

```



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(continued)

```

191     }
192
193     group SGDU {
194
195         group sdpFragments {
196
197             /**
198              *
199              * @desc This is
200      » a default template for the SdpFragmen
201      » t.
202
203             * @param p_frag
204      » mentId The id of the SDP fragment
205             * @param p_cont
206      » ent The content of the SDP fragment
207             */
208             template SdpFrag
209      » ment m_def_SdpFragment(
210
211                 charstri
212      » ng p_fragmentId,
213                 charstri
214      » ng p_content) := {
215
216                 validFro
217      » m := 0,
218                 validTo
219      » := 0,
220                 fragment
221      » Id := p_fragmentId,
222                 sdpFragm
223      » ent := p_content
224             }
225         }
226
227         group xmlFragments {
228
229             // change 23 (WK
230      » 18): missing parameter description
231             /**
232              *
233              * @desc
234              * This temp
235      » late create a default PreviewData whic
236      » h includes a
237
238             * picture r
239      » eference.
240
241             * @param
242             * p_Id The
243      » Id of the PreviewData
244
245             * @param
246             * p_Version
247      » The version of the PreviewData
248
249             * @param
250             * p_Picture
251      » Id The picture reference id
252
253             * @param
254             * p_txt The
255      » preview data element description.

```

```

191     }
192
193     group SGDU {
194
195         group sdpFragments {
196
197             /**
198              *
199              * @desc This is
200      » a default template for the SdpFragmen
201      » t.
202
203             * @param p_frag
204      » mentId The id of the SDP fragment
205             * @param p_cont
206      » ent The content of the SDP fragment
207             */
208             template SdpFrag
209      » ment m_def_SdpFragment(
210
211                 charstri
212      » ng p_fragmentId,
213                 charstri
214      » ng p_content) := {
215
216                 validFro
217      » m := 0,
218                 validTo
219      » := 0,
220                 fragment
221      » Id := p_fragmentId,
222                 sdpFragm
223      » ent := p_content
224             }
225         }
226
227         group xmlFragments {
228
229             // change 23 (WK
230      » 18): missing parameter description
231             /**
232              *
233              * @desc
234              * This temp
235      » late create a default PreviewData whic
236      » h includes a
237
238             * picture r
239      » eference.
240
241             * @param
242             * p_Id The
243      » Id of the PreviewData
244
245             * @param
246             * p_Version
247      » The version of the PreviewData
248
249             * @param
250             * p_Picture
251      » Id The picture reference id
252
253             * @param
254             * p_txt The
255      » preview data element description.

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(continued)

```

229          * @param
230          *      p_mimeType
» e The preview data element MIME type
231          */
232          template Preview
» DataType m_def_picture_PreviewData(
233              AnyUri p
» _Id,
234              UInt p_V
» ersion,
235              AnyUri p
» _PictureId,
236              Language
» String p_txt,
237              charstri
» ng p_mimeType) := {
238              id := p_
» Id,
239              version
» := p_Version,
240              validFro
» m := omit,
241              validTo
» := omit,
242              SMIL :=
» omit,
243              Video :=
» omit,
244              Audio :=
» omit,
245              Picture
» := {
246              » choice := { PictureURI := {p_PictureId
» } },
247              » MIMEType := {omit, p_mimeType}, // chan
» ge 2 (WK18): file distribution as well
» as preview data
248              » AlternativeTexts := {p_txt} },
249              Texts :=
» omit,
250              AccessRe
» ference := {idRef := PX_SGDU_ACCESS_ID
» _PROG_1, usage := 0}, // change 32 (WK
» 18): (additional to 3) according to ET
» S; preview data fragment references to
» access fragment
251              PrivateE
» xt := omit
252          }
253
254          /**
255          *
256          * @desc This te
» mplate create a Service Fragment which

```

```

229          * @param
230          *      p_mimeType
» e The preview data element MIME type
231          */
232          template Preview
» DataType m_def_picture_PreviewData(
233              AnyUri p
» _Id,
234              UInt p_V
» ersion,
235              AnyUri p
» _PictureId,
236              Language
» String p_txt,
237              charstri
» ng p_mimeType) := {
238              id := p_
» Id,
239              version
» := p_Version,
240              validFro
» m := omit,
241              validTo
» := omit,
242              SMIL :=
» omit,
243              Video :=
» omit,
244              Audio :=
» omit,
245              Picture
» := {
246              » choice := { PictureURI := {p_PictureId
» } },
247              » MIMEType := {omit, p_mimeType}, // chan
» ge 2 (WK18): file distribution as well
» as preview data
248              » AlternativeTexts := {p_txt} },
249              Texts :=
» omit,
250              AccessRe
» ference := {idRef := PX_SGDU_ACCESS_ID
» _PROG_1, usage := 0}, // change 32 (WK
» 18): (additional to 3) according to ET
» S; preview data fragment references to
» access fragment
251              PrivateE
» xt := omit
252          }
253
254          /**
255          *
256          * @desc This te
» mplate create a Service Fragment which

```



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```

257 » is used in a SGDU.
      * @param p_Id T
258 » he service id
      * @param p_Name
259 » The service name
      * @param p_vers
260 » ion The version of the service fragmen
      * @param p_Serv
261 » t
      * @param p_Serv
262 » iceType The service type of the servic
      */
263 » e
      template Service
264 » Type m_def_Service(
      AnyUri p
265 » _Id,
      UInt p_v
266 » ersion,
      charstri
267 » ng p_Name,
      XmlEleme
268 » ntUnsignedByteValue p_ServiceType) :=
269 » {
      id := p_
270 » Id,
      version
271 » := p_version,
      validFro
272 » m := omit,
      validTo
273 » := omit,
      globalSe
274 » rviceID := omit,
      weight :
275 » = omit,
      //servic
276 » eContentProtection := omit,
      baseCID
277 » := omit,
      emergenc
278 » y := omit,
      Protecti
279 » onKeyIDs := omit,
      ServiceT
280 » ypes := { {text_ := p_ServiceType }},
      Names :=
281 » { {lang := omit, text_:=p_Name} },
      Descript
282 » ions := omit,
      AudioLan
283 » guages := omit,
      TextLang
284 » uages := omit,
      Parental
285 » Ratings := omit,
      TargetUs
286 » erProfiles := omit,
```

```

257 » is used in a SGDU.
      * @param p_Id T
258 » he service id
      * @param p_Name
259 » The service name
      * @param p_vers
260 » ion The version of the service fragmen
      * @param p_Serv
261 » t
      * @param p_Serv
262 » iceType The service type of the servic
      */
263 » e
      template Service
264 » Type m_def_Service(
      AnyUri p
265 » _Id,
      UInt p_v
266 » ersion,
      charstri
267 » ng p_Name,
      XmlEleme
268 » ntUnsignedByteValue p_ServiceType) :=
269 » {
      id := p_
270 » Id,
      version
271 » := p_version,
      validFro
272 » m := omit,
      validTo
273 » := omit,
      globalSe
274 » rviceID := omit,
      weight :
275 » = omit,
      //servic
276 » eContentProtection := omit,
      baseCID
277 » := omit,
      emergenc
278 » y := omit,
      Protecti
279 » onKeyIDs := omit,
      ServiceT
280 » ypes := { {text_ := p_ServiceType }},
      Names :=
281 » { {lang := omit, text_:=p_Name} },
      Descript
282 » ions := omit,
      AudioLan
283 » guages := omit,
      TextLang
284 » uages := omit,
      Parental
285 » Ratings := omit,
      TargetUs
286 » erProfiles := omit,
```

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(continued)

284	Genres :	284	Genres :
» = omit,		» = omit,	
285	Extensio	285	Extensio
» ns := omit,		» ns := omit,	
286	PreviewD	286	PreviewD
» ataReferences := omit,		» ataReferences := omit,	
287	Broadcas	287	Broadcas
» tArea := omit,		» tArea := omit,	
288	TermsOfU	288	TermsOfU
» ses := omit,		» ses := omit,	
289	PrivateE	289	PrivateE
» xt := omit		» xt := omit	
290	}	290	}
291		291	
292	/**	292	/**
293	*	293	*
294	* @desc	294	* @desc
295	* This temp	295	* This temp
» late create a Content Fragment which i		» late create a Content Fragment which i	
» s used in a		» s used in a	
296	* SGDU.	296	* SGDU.
297	* @param	297	* @param
298	* p_Id the	298	* p_Id the
» content id		» content id	
299	* @param	299	* @param
300	* p_Name th	300	* p_Name th
» e content name		» e content name	
301	* @param	301	* @param
302	* p_Service	302	* p_Service
» Id the referenced service id		» Id the referenced service id	
303	*/	303	*/
304	template Content	304	template Content
» Type m_def_Content(		» Type m_def_Content(	
305	AnyUri p	305	AnyUri p
» _Id,		» _Id,	
306	UInt p_v	306	UInt p_v
» ersion,		» ersion,	
307	charstri	307	charstri
» ng p_Name,		» ng p_Name,	
308	AnyUri p	308	AnyUri p
» _ServiceId,		» _ServiceId,	
309	DateTime	309	DateTime
» p_startTime,		» p_startTime,	
310	DateTime	310	DateTime
» p_stopTime) := {		» p_stopTime) := {	
311	id := p_	311	id := p_
» Id,		» Id,	
312	version	312	version
» := p_version,		» := p_version,	
313	validFro	313	validFro
» m := omit,		» m := omit,	
314	validTo	314	validTo
» := omit,		» := omit,	
315	globalCo	315	globalCo
» ntentID := omit,		» ntentID := omit,	
316	emergenc	316	emergenc
» y := omit,		» y := omit,	

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(continued)

317	//servic	317	//servic
» eContentProtection := omit,		» eContentProtection := omit,	
318	baseCID	318	baseCID
» := omit,		» := omit,	
319	ServiceR	319	ServiceR
» eferences := { { idRef := p_ServiceId,		» eferences := { { idRef := p_ServiceId,	
» weight := omit } },		» weight := omit } },	
320	Protecti	320	Protecti
» onKeyIDs := omit,		» onKeyIDs := omit,	
321	Names :=	321	Names :=
» { {lang := omit, text_:=p_Name} },		» { {lang := omit, text_:=p_Name} },	
322	Descript	322	Descript
» ions := omit,		» ions := omit,	
323	StartTim	323	StartTim
» e := { text_ := p_startTime },		» e := { text_ := p_startTime },	
324	EndTime	324	EndTime
» := { text_ := p_stopTime },		» := { text_ := p_stopTime },	
325	AudioLan	325	AudioLan
» guages := omit,		» guages := omit,	
326	TextLang	326	TextLang
» uages := omit,		» uages := omit,	
327	Parental	327	Parental
» Ratings := omit,		» Ratings := omit,	
328	TargetUs	328	TargetUs
» erProfiles := omit,		» erProfiles := omit,	
329	Genres :	329	Genres :
» = omit,		» = omit,	
330	Extensio	330	Extensio
» ns := omit,		» ns := omit,	
331	PreviewD	331	PreviewD
» ataReferences := omit,		» ataReferences := omit,	
332	Broadcas	332	Broadcas
» tArea := omit,		» tArea := omit,	
333	TermsOfU	333	TermsOfU
» ses := omit,		» ses := omit,	
334	PrivateE	334	PrivateE
» xt := omit		» xt := omit	
335	}	335	}
336		336	
337	/**	337	/**
338	* @desc This te	338	* @desc This te
» mplate creates a SGDU Schedule Fragmen		» mplate creates a SGDU Schedule Fragmen	
» t		» t	
339	* @param p_Id t	339	* @param p_Id t
» he schedule id		» he schedule id	
340	* @param p_Serv	340	* @param p_Serv
» iceId the referenced service id		» iceId the referenced service id	
341	* @param p_Cont	341	* @param p_Cont
» entId the referenced content id		» entId the referenced content id	
342	* @param p_Star	342	* @param p_Star
» tTime the start time		» tTime the start time	
343	* @param p_Star	343	* @param p_Star
» tTime the end time		» tTime the end time	
344	*/	344	*/
345	template Schedul	345	template Schedul
» eType m_def_Schedule(		» eType m_def_Schedule(	
346	AnyUri p	346	AnyUri p

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(continued)

347	» _Id,	UInt p_v	347	» _Id,	UInt p_v
348	» ersion,	AnyUri p	348	» ersion,	AnyUri p
349	» _ServiceId,	AnyUri p	349	» _ServiceId,	AnyUri p
350	» _ContentId,	UInt p_S	350	» _ContentId,	UInt p_S
351	» tartTime,	UInt p_E	351	» tartTime,	UInt p_E
352	» ndTime) := {	id := p_	352	» ndTime) := {	id := p_
353	» Id,	version	353	» Id,	version
354	» := p_version,	defaults	354	» := p_version,	defaults
355	» chedule := omit,	onDemand	355	» chedule := omit,	onDemand
356	» := omit,	validFro	356	» := omit,	validFro
357	» m := omit,	validTo	357	» m := omit,	validTo
358	» := omit,	ServiceR	358	» := omit,	ServiceR
359	» eference := {		359	» eference := {	
360	» idRef := p_ServiceId,		360	» idRef := p_ServiceId,	
361	» audioLanguageIDRef := omit,		361	» audioLanguageIDRef := omit,	
362	» textLanguageIDRef := omit },	Interact	362	» textLanguageIDRef := omit },	Interact
363	» ivityDataReferences := omit,	ContentR	363	» ivityDataReferences := omit,	ContentR
364	» eferences := {	{	364	» eferences := {	{
365			365		
366	» idRef := p_ContentId,		366	» idRef := p_ContentId,	
367	» //contentLocation := p_ContentId, //		367	» //contentLocation := p_ContentId, //	
368	» Change No. 11 from OMA-IOP-TTCN-2007-		368	» Change No. 11 from OMA-IOP-TTCN-2007-	
369	» 0026-CR_TTCN_code_review		369	» 0026-CR_TTCN_code_review	
370	» contentLocation := omit,		370	» contentLocation := omit,	
371	» audioLanguageIDRef := omit,		371	» audioLanguageIDRef := omit,	
372	» textLanguageIDRef := omit,		372	» textLanguageIDRef := omit,	
373	» repeatPlayback := omit,		373	» repeatPlayback := omit,	
374	» AutoStarts := omit,		374	» AutoStarts := omit,	
	» DistributionWindows := omit,			» DistributionWindows := omit,	
	» PresentationWindows := {			» PresentationWindows := {	

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(continued)

```

375 » {
376 »     startTime := p_StartTime,
377 »     endTime := p_EndTime,
378 »     duration := omit,
379 »     id := omit }
380 » }
381 » },
382 » PreviewD
383 » ataReferences := omit,
384 » TermsOfU
385 » ses := omit,
386 » PrivateE
387 » xt := omit
388 » }
389 */**
390 * @desc This is
391 » a default template for a Schedule fra
392 » gment which refers a interactivity fra
393 » gment.
394 * @param p_Id T
395 » he id of the schedule fragment
396 * @param p_vers
397 » ion The fragment version
398 * @param p_Serv
399 » iceId The refered service id
400 * @param p_Inte
401 » ractivityDataId the referd interactivi
402 » ty data
403 * @param p_Star
404 » tTime the start time
405 * @param p_EndT
406 » ime the end time
407 */
408 template Schedul
409 » eType m_def_inter_Schedule(
410 »     AnyUri p
411 »     _Id,
412 »     UInt p_v
413 »     ersion,
414 »     AnyUri p
415 »     _ServiceId,
416 »     AnyUri p
417 »     _InteractivityDataId) := {
418 »     id := p_
419 »     Id,
420 »     version
421 »     := p_version,
422 »     defaultsS

```

```

375 » {
376 »     startTime := p_StartTime,
377 »     endTime := p_EndTime,
378 »     duration := omit,
379 »     id := omit }
380 » }
381 » },
382 » PreviewD
383 » ataReferences := omit,
384 » TermsOfU
385 » ses := omit,
386 » PrivateE
387 » xt := omit
388 » }
389 */**
390 * @desc This is
391 » a default template for a Schedule fra
392 » gment which refers a interactivity fra
393 » gment.
394 * @param p_Id T
395 » he id of the schedule fragment
396 * @param p_vers
397 » ion The fragment version
398 * @param p_Serv
399 » iceId The refered service id
400 * @param p_Inte
401 » ractivityDataId the referd interactivi
402 » ty data
403 * @param p_Star
404 » tTime the start time
405 * @param p_EndT
406 » ime the end time
407 */
408 template Schedul
409 » eType m_def_inter_Schedule(
410 »     AnyUri p
411 »     _Id,
412 »     UInt p_v
413 »     ersion,
414 »     AnyUri p
415 »     _ServiceId,
416 »     AnyUri p
417 »     _InteractivityDataId) := {
418 »     id := p_
419 »     Id,
420 »     version
421 »     := p_version,
422 »     defaultsS

```

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(continued)

<pre> 405 » chedule := omit,                                 onDemand 406 » := omit,                                 validFro 407 » m := omit,                                 validTo 408 » := omit,                                 ServiceR 409 » eference := { 410 » idRef := p_ServiceId, 411 » audioLanguageIDRef := omit, 412 » textLanguageIDRef := omit },                                 Interact 413 » ivityDataReferences := { 414                                { 415 » idRef := p_InteractivityDataId, 416 » AutoStarts := omit, 417 » DistributionWindows := omit } 418                                },                                 ContentR 419 » eferences := omit,                                 PreviewD 420 » ataReferences := omit,                                 TermsOfU 421 » ses := omit,                                 PrivateE 422 » xt := omit                                 } 423                                /** 424                                * 425                                * @desc This te 426 » mplate create a AccessType for broadca 427 » st (SDP) which is used in the access f 428 » ragment of the SGDU.                                 * @param p_bcTy 429 » pe the broadcast type                                 * @param p_SDP 430 » the SDP which describes the session                                 */                                 template AccessT 431 » ypeType m_def_AccessType_bc_sdp(                                 UInt8 p_ 432 » bcType,                                 charstri 433 » ng p_sdpId) := {                                 choice : 434 » = { 435 » BroadcastServiceDelivery := { </pre>	<pre> 405 » chedule := omit,                                 onDemand 406 » := omit,                                 validFro 407 » m := omit,                                 validTo 408 » := omit,                                 ServiceR 409 » eference := { 410 » idRef := p_ServiceId, 411 » audioLanguageIDRef := omit, 412 » textLanguageIDRef := omit },                                 Interact 413 » ivityDataReferences := { 414                                { 415 » idRef := p_InteractivityDataId, 416 » AutoStarts := omit, 417 » DistributionWindows := omit } 418                                },                                 ContentR 419 » eferences := omit,                                 PreviewD 420 » ataReferences := omit,                                 TermsOfU 421 » ses := omit,                                 PrivateE 422 » xt := omit                                 } 423                                /** 424                                * 425                                * @desc This te 426 » mplate create a AccessType for broadca 427 » st (SDP) which is used in the access f 428 » ragment of the SGDU.                                 * @param p_bcTy 429 » pe the broadcast type                                 * @param p_SDP 430 » the SDP which describes the session                                 */                                 template AccessT 431 » ypeType m_def_AccessType_bc_sdp(                                 UInt8 p_ 432 » bcType,                                 charstri 433 » ng p_sdpId) := {                                 choice : 434 » = { 435 » BroadcastServiceDelivery := { </pre>
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(continued)

```

436 »         BDSType := {
437 »
438 »             Type := {p_bcType},
439 »
440 »             Versions := omit
441 »         },
442 » SessionDescription := {
443 »
444 »         // choice := {SDPRef := {p_sdp
445 » Id,p_sdpId}}, // Change No. 13 from OM
446 » A-IOP-TTCN-2007-0026-CR_TTCN_code_revi
447 » ew
448 »
449 »         choice := {SDPRef := {uri := o
450 » mit, idRef := p_sdpId}}, // editorial
451 » modification, when merging 0001R01 and
452 » 0039R01 to permanent document
453 »
454 »         USBDRef := omit,
455 »
456 »         ADPRef := omit },
457 » FileDescription := omit }
458 »
459 »         }
460 »
461 »         // change 36 (WK
462 » 18): according to TC BCAST-1.0-DIST-co
463 » nf-102 -> access framgent contains SDP
464 » /**
465 » *
466 » * @desc This te
467 » mplate create a AccessType for broadca
468 » st which is used in the access fragmen
469 » t of the SGDU.
470 »
471 » * It cont
472 » ains the SDP within the 'SessionDescri
473 » ption'.
474 »
475 » * @param p_bcTy
476 » pe the broadcast type
477 »
478 » * @param p_SDP
479 » the SDP which describes the session (B
480 » ase64 encoded)
481 »
482 » */
483 » template AccessT
484 » ypeType m_def_AccessType(
485 »
486 »         UInt8 p_
487 » bcType,
488 »
489 »         charstri
490 » ng p_sdpAsBase64) := {
491 »
492 »         choice :
493 » = {
494 »
495 »         BroadcastServiceDelivery := {

```

```

436 »         BDSType := {
437 »
438 »             Type := {p_bcType},
439 »
440 »             Versions := omit
441 »         },
442 » SessionDescription := {
443 »
444 »         // choice := {SDPRef := {p_sdp
445 » Id,p_sdpId}}, // Change No. 13 from OM
446 » A-IOP-TTCN-2007-0026-CR_TTCN_code_revi
447 » ew
448 »
449 »         choice := {SDPRef := {uri := o
450 » mit, idRef := p_sdpId}}, // editorial
451 » modification, when merging 0001R01 and
452 » 0039R01 to permanent document
453 »
454 »         USBDRef := omit,
455 »
456 »         ADPRef := omit },
457 » FileDescription := omit }
458 »
459 »         }
460 »
461 »         // change 36 (WK
462 » 18): according to TC BCAST-1.0-DIST-co
463 » nf-102 -> access framgent contains SDP
464 » /**
465 » *
466 » * @desc This te
467 » mplate create a AccessType for broadca
468 » st which is used in the access fragmen
469 » t of the SGDU.
470 »
471 » * It cont
472 » ains the SDP within the 'SessionDescri
473 » ption'.
474 »
475 » * @param p_bcTy
476 » pe the broadcast type
477 »
478 » * @param p_SDP
479 » the SDP which describes the session (B
480 » ase64 encoded)
481 »
482 » */
483 » template AccessT
484 » ypeType m_def_AccessType(
485 »
486 »         UInt8 p_
487 » bcType,
488 »
489 »         charstri
490 » ng p_sdpAsBase64) := {
491 »
492 »         choice :
493 » = {
494 »
495 »         BroadcastServiceDelivery := {

```

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(continued)

```

462 »         BDSType := {
463 »             Type := {p_bcType},
464 »             Versions := omit
465 »         },
466 »         SessionDescription := {
467 »             choice := {SDP := {space := "p
468 » reserve", encoding := "base64", text_
469 » := p_sdpAsBase64}},
470 »             USBDRef := omit,
471 »             ADPRef := omit },
472 »             FileDescription := omit }
473 »         }
474 »         /**
475 »          * @desc This te
476 » mplate create a SGDU Access Fragment.
477 »          * @param p_Id t
478 » he access id
479 »          * @param p_Acce
480 » ssType the access type
481 »          * @param p_Serv
482 » iceId the referenced service id
483 »          * @param p_Sche
484 » duleId the referenced schedule id
485 »          * @param p_Serv
486 » iceClass the service class
487 »          */
488 »         template AccessT
489 » ype m_def_Access(
490 »         AnyUri p
491 »         _Id,
492 »         UInt p_v
493 »         ersion,
494 »         AccessTy
495 »         peType p_AccessType,
496 »         AnyUri p
497 »         _ServiceId,
498 »         template
499 »         AnyUri p_ScheduleId,
500 »         charstri
501 »         ng p_ServiceClass) := {
502 »         id := p_
503 »         Id,
504 »         version
505 »         := p_version,
506 »         validFro
507 »         m := omit,

```

```

462 »         BDSType := {
463 »             Type := {p_bcType},
464 »             Versions := omit
465 »         },
466 »         SessionDescription := {
467 »             choice := {SDP := {space := "p
468 » reserve", encoding := "base64", text_
469 » := p_sdpAsBase64}},
470 »             USBDRef := omit,
471 »             ADPRef := omit },
472 »             FileDescription := omit }
473 »         }
474 »         /**
475 »          * @desc This te
476 » mplate create a SGDU Access Fragment.
477 »          * @param p_Id t
478 » he access id
479 »          * @param p_Acce
480 » ssType the access type
481 »          * @param p_Serv
482 » iceId the referenced service id
483 »          * @param p_Sche
484 » duleId the referenced schedule id
485 »          * @param p_Serv
486 » iceClass the service class
487 »          */
488 »         template AccessT
489 » ype m_def_Access(
490 »         AnyUri p
491 »         _Id,
492 »         UInt p_v
493 »         ersion,
494 »         AccessTy
495 »         peType p_AccessType,
496 »         AnyUri p
497 »         _ServiceId,
498 »         template
499 »         AnyUri p_ScheduleId,
500 »         charstri
501 »         ng p_ServiceClass) := {
502 »         id := p_
503 »         Id,
504 »         version
505 »         := p_version,
506 »         validFro
507 »         m := omit,

```



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(continued)

492	validTo		492	validTo
» := omit,			» := omit,	
493	AccessTy		493	AccessTy
» pe := p_AccessType,			» pe := p_AccessType,	
494	KeyManag		494	KeyManag
» ementSystems := omit,			» ementSystems := omit,	
495	Encrypti		495	Encrypti
» onTypes := omit,			» onTypes := omit,	
496	// choic	<>	496	choice :
» e := {ServiceReferences := { { idRef :			» = {ServiceReferences := { { idRef := p	
» = p_ServiceId } } },			» _ServiceId } } },	
» // change 21 (WK 6): ET			» // CR 2008-0066 // change	
» S requires, that access fragment refer			» 21 (WK 6): ETS requires, that access f	
» ences schedule fragment			» ragment references schedule fragment	
497	choice :		497	// choic
» = {ScheduleReferences := { { idRef :=			» e := {ScheduleReferences := { { idRef	
» p_ScheduleId, DistributionWindowIDs :=			» := p_ScheduleId, DistributionWindowIDs	
» omit } } }, // change 21 (WK 6): ETS r			» := omit } } }, // CR 2008-0066 // cha	
» equires, that access fragment referenc			» nge 21 (WK 6): ETS requires, that acce	
» es schedule fragment			» ss fragment references schedule fragme	
			» nt	
498	Terminal	=	498	Terminal
» CapabilityRequirement := omit,			» CapabilityRequirement := omit,	
499	Bandwidt		499	Bandwidt
» hRequirement := omit,			» hRequirement := omit,	
500	ServiceC		500	ServiceC
» lasss := { {p_ServiceClass} },			» lasss := { {p_ServiceClass} },	
501	PreviewD		501	PreviewD
» ataReferences := omit,			» ataReferences := omit,	
502	Notifica		502	Notifica
» tionReception := omit,			» tionReception := omit,	
503	PrivateE		503	PrivateE
» xt := omit			» xt := omit	
504	}		504	}
505			505	
506	// change 32 (WK		506	// change 32 (WK
» 18): (additional to 3) according to ET			» 18): (additional to 3) according to ET	
» S; preview data fragment references to			» S; preview data fragment references to	
» access fragment			» access fragment	
507	template AccessT		507	template AccessT
» ype m_def_Access_without_Ref(AnyUri p_			» ype m_def_Access_without_Ref(AnyUri p_	
» Id, UInt p_version, AccessTypeType p_A			» Id, UInt p_version, AccessTypeType p_A	
» ccessType,			» ccessType,	
508			508	
»			»	
»			»	
» AnyUri p_ServiceId, charstring			» AnyUri p_ServiceId, charstring	
» p_ServiceClass) := {			» p_ServiceClass) := {	
509	id := p_		509	id := p_
» Id,			» Id,	
510	version		510	version
» := p_version,			» := p_version,	
511	validFro		511	validFro
» m := omit,			» m := omit,	
512	validTo		512	validTo
» := omit,			» := omit,	

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(continued)

513		AccessTy	513		AccessTy
	» pe := p_AccessType,			» pe := p_AccessType,	
514		KeyManag	514		KeyManag
	» ementSystems := omit,			» ementSystems := omit,	
515		Encrypti	515		Encrypti
	» onTypes := omit,			» onTypes := omit,	
516		choice :	516		choice :
	» = omit,			» = omit,	
517		Terminal	517		Terminal
	» CapabilityRequirement := omit,			» CapabilityRequirement := omit,	
518		Bandwidt	518		Bandwidt
	» hRequirement := omit,			» hRequirement := omit,	
519		ServiceC	519		ServiceC
	» lasss := { {p_ServiceClass} },			» lasss := { {p_ServiceClass} },	
520		PreviewD	520		PreviewD
	» ataReferences := omit,			» ataReferences := omit,	
521		Notifica	521		Notifica
	» tionReception := omit,			» tionReception := omit,	
522		PrivateE	522		PrivateE
	» xt := omit			» xt := omit	
523		}	523		}
524			524		
525			525		
526		/**	526		/**
527		*	527		*
528		* @desc This te	528		* @desc This te
	» mplate is a default template for Purch			» mplate is a default template for Purch	
	» aseItem fragment.			» aseItem fragment.	
529		* @param p_Id T	529		* @param p_Id T
	» he id of the PurchaseItem			» he id of the PurchaseItem	
530		* @param p_Vers	530		* @param p_Vers
	» ion The Version of the PurchaseItem			» ion The Version of the PurchaseItem	
531		* @param p_Glob	531		* @param p_Glob
	» alPurchaseId The global purchase id			» alPurchaseId The global purchase id	
532		* @param p_Serv	532		* @param p_Serv
	» iceID The serive id of the referenced			» iceID The serive id of the referenced	
	» service fragment			» service fragment	
533		* @param p_Name	533		* @param p_Name
	» The name of the PurchaseItem			» The name of the PurchaseItem	
534		*/	534		*/
535		template Purchas	535		template Purchas
	» eItemType m_def_PurchaseItem(			» eItemType m_def_PurchaseItem(	
536		AnyUri p	536		AnyUri p
	» _Id,			» _Id,	
537		UInt p_V	537		UInt p_V
	» ersion,			» ersion,	
538		AnyUri p	538		AnyUri p
	» _GlobalPurchaseId,			» _GlobalPurchaseId,	
539		AnyUri p	539		AnyUri p
	» _ServiceID,			» _ServiceID,	
540		charstri	540		charstri
	» ng p_Name) := {			» ng p_Name) := {	
541		id := p_	541		id := p_
	» Id,			» Id,	
542		version	542		version
	» := p_Version,			» := p_Version,	
543		validFro	543		validFro

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(continued)

```

544 » m := omit,
                                validTo
545 » := omit,
                                globalPu
546 » rchaseItemID := p_GlobalPurchaseId,
                                binaryPu
547 » rchaseItemID := omit,
                                weight :
548 » = omit,
                                closed :
549 » = omit,
                                choice :
550 » = {ServiceReferences := { { idRef := p
    » _ServiceID } } },
                                Protecti
551 » onKeyIDs := omit,
                                Names :=
552 » { {lang := omit, text_:=p_Name} },
                                Descript
553 » ions := omit,
                                StartTim
554 » e := omit,
                                EndTime
555 » := omit,
                                Parental
556 » Ratings := omit,
                                Extensio
557 » ns := omit,
                                Depend
558 » cyReferences := omit,
                                Exclusio
559 » nReferences := omit,
                                PrivateE
560 » xt := omit
                                }
561
562 /**
563 *
564 * @desc This te
    » mplate is a default template for Purch
    » aseData.
565 * @param p_Id T
    » he id of the PurchaseData
566 * @param p_Vers
    » ion The version of the PurchaseData
567 * @param p_Desc
    » ription the description for the Purcha
    » seData fragment
568 * @param p_Purc
    » haseItemId The id of the referenced of
    » the PurchaseItem
569 * @param p_Purc
    » haseChannelId The id of the reference
    » d of the PurchaseChannel
570 * @param p_Pric
    » eInfo The PriceInfo field. It could be
    » omit

```

```

544 » m := omit,
                                validTo
545 » := omit,
                                globalPu
546 » rchaseItemID := p_GlobalPurchaseId,
                                binaryPu
547 » rchaseItemID := omit,
                                weight :
548 » = omit,
                                closed :
549 » = omit,
                                choice :
550 » = {ServiceReferences := { { idRef := p
    » _ServiceID } } },
                                Protecti
551 » onKeyIDs := omit,
                                Names :=
552 » { {lang := omit, text_:=p_Name} },
                                Descript
553 » ions := omit,
                                StartTim
554 » e := omit,
                                EndTime
555 » := omit,
                                Parental
556 » Ratings := omit,
                                Extensio
557 » ns := omit,
                                Depend
558 » cyReferences := omit,
                                Exclusio
559 » nReferences := omit,
                                PrivateE
560 » xt := omit
                                }
561
562 /**
563 *
564 * @desc This te
    » mplate is a default template for Purch
    » aseData.
565 * @param p_Id T
    » he id of the PurchaseData
566 * @param p_Vers
    » ion The version of the PurchaseData
567 * @param p_Desc
    » ription the description for the Purcha
    » seData fragment
568 * @param p_Purc
    » haseItemId The id of the referenced of
    » the PurchaseItem
569 * @param p_Purc
    » haseChannelId The id of the reference
    » d of the PurchaseChannel
570 * @param p_Pric
    » eInfo The PriceInfo field. It could be
    » omit

```

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(continued)

571	*/	571	*/
572	template Purchas	572	template Purchas
» eDataType m_def_PurchaseData(		» eDataType m_def_PurchaseData(	
573	AnyUri p	573	AnyUri p
» _Id,		» _Id,	
574	UInt p_V	574	UInt p_V
» ersion,		» ersion,	
575	template	575	template
» LanguageStringList p_Descriptions,		» LanguageStringList p_Descriptions,	
576	AnyUri p	576	AnyUri p
» _PurchaseItemId,		» _PurchaseItemId,	
577	AnyUri p	577	AnyUri p
» _PurchaseChannelId,		» _PurchaseChannelId,	
578	template	578	template
» PriceInfoType p_PriceInfo		» PriceInfoType p_PriceInfo	
579	) := {	579	) := {
580	id := p_	580	id := p_
» Id,		» Id,	
581	version	581	version
» := p_Version,		» := p_Version,	
582	validFro	582	validFro
» m := omit,		» m := omit,	
583	validTo	583	validTo
» := omit,		» := omit,	
584	Descript	584	Descript
» ions := p_Descriptions,		» ions := p_Descriptions,	
585	PriceInf	585	PriceInf
» o := p_PriceInfo,		» o := p_PriceInfo,	
586	Promotio	586	Promotio
» nInfos := omit,		» nInfos := omit,	
587	Extensio	587	Extensio
» ns := omit,		» ns := omit,	
588	Purchase	588	Purchase
» ItemReference := { idRef := p_Purchase		» ItemReference := { idRef := p_Purchase	
» ItemId },		» ItemId },	
589	Purchase	589	Purchase
» ChannelReferences := { { idRef := p_Pu		» ChannelReferences := { { idRef := p_Pu	
» rchaseChannelId } },		» rchaseChannelId } },	
590	PreviewD	590	PreviewD
» ataReferences := omit,		» ataReferences := omit,	
591	TermsOfU	591	TermsOfU
» ses := omit,		» ses := omit,	
592	PrivateE	592	PrivateE
» xt := omit		» xt := omit	
593	}	593	}
594	/**	594	/**
595	*	595	*
596	* @desc Specifi	596	* @desc Specifi
» es the price information of the purcha		» es the price information of the purcha	
» se item associated with this Purchase		» se item associated with this Purchase	
» Data fragment.		» Data fragment.	
597	* @param p_subs	597	* @param p_subs
» criptionType		» criptionType	
598	* @param p_mone	598	* @param p_mone
» taryPrice		» taryPrice	
599	* @param p_curr	599	* @param p_curr
» ency		» ency	

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(continued)

```

600          */
601          template PriceIn
602      » foType m_PriceInfo(
603          UInt p_s
604      » subscriptionType,
605          float p_
606      » monetaryPrice,
607          charstri
608      » ng p_currency) := {
609          subscrip
610      » tionType := p_subscriptionType,
611          Monetary
612      » Prices := {
613          » { currency := p_currency, text_ := p_m
614          » onetaryPrice }
615          },
616          TotalNum
617      » berToken := omit,
618          Subscrip
619      » tionPeriod := omit
620      }
621      /**
622      *
623      * @desc This is
624      » a default template for the PurchaseCh
625      » annel fragment.
626      * @param p_Id T
627      » he id of the PurchaseChannel
628      * @param p_Vers
629      » ion The version of the PurchaseChannel
630      * @param p_Name
631      » The name for PurchaseChannel
632      * @param p_Purc
633      » haseUrl and the url of the subscriptio
634      » n site
635      */
636      template Purchas
637      » eChannelType m_def_PurchaseChannel(
638          AnyUri p
639      » _Id,
640          UInt p_V
641      » ersion,
642          charstri
643      » ng p_Name,
644          AnyUri p
645      » _PurchaseUrl) := {
646          id := p_
647      » Id,
648          version
649      » := p_Version,
650          validFro
651      » m := omit,
652          validTo
653      » := omit,
654          rightsIs

```

```

600          */
601          template PriceIn
602      » foType m_PriceInfo(
603          UInt p_s
604      » subscriptionType,
605          float p_
606      » monetaryPrice,
607          charstri
608      » ng p_currency) := {
609          subscrip
610      » tionType := p_subscriptionType,
611          Monetary
612      » Prices := {
613          » { currency := p_currency, text_ := p_m
614          » onetaryPrice }
615          },
616          TotalNum
617      » berToken := omit,
618          Subscrip
619      » tionPeriod := omit
620      }
621      /**
622      *
623      * @desc This is
624      » a default template for the PurchaseCh
625      » annel fragment.
626      * @param p_Id T
627      » he id of the PurchaseChannel
628      * @param p_Vers
629      » ion The version of the PurchaseChannel
630      * @param p_Name
631      » The name for PurchaseChannel
632      * @param p_Purc
633      » haseUrl and the url of the subscriptio
634      » n site
635      */
636      template Purchas
637      » eChannelType m_def_PurchaseChannel(
638          AnyUri p
639      » _Id,
640          UInt p_V
641      » ersion,
642          charstri
643      » ng p_Name,
644          AnyUri p
645      » _PurchaseUrl) := {
646          id := p_
647      » Id,
648          version
649      » := p_Version,
650          validFro
651      » m := omit,
652          validTo
653      » := omit,
654          rightsIs

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(continued)

631	» suerURI := omit,		631	» suerURI := omit,	
		Names :=			Names :=
632	» { {lang := omit, text_:=p_Name} },	Descript	632	» { {lang := omit, text_:=p_Name} },	Descript
633	» ions := omit,	ContactI	633	» ions := omit,	ContactI
634	» nfo := omit,	PortalUR	634	» nfo := omit,	PortalUR
635	» L := omit,	Purchase	635	» L := omit,	Purchase
636	» URLs := { {p_PurchaseUrl} },	Extensio	636	» URLs := { {p_PurchaseUrl} },	Extensio
637	» ns := omit,	PrivateE	637	» ns := omit,	PrivateE
638	» xt := omit		638	» xt := omit	
		}			}
639			639		
640			640		
641		/**	641		/**
642		*	642		*
643		* @desc This th	643		* @desc This th
	» is a default InteractivityData templat			» is a default InteractivityData templat	
	» e.			» e.	
644		* @param p_Id T	644		* @param p_Id T
	» he id of the InteractivityData			» he id of the InteractivityData	
645		* @param p_Vers	645		* @param p_Vers
	» ion The version of the InteractivityDa			» ion The version of the InteractivityDa	
	» ta			» ta	
646		* @param p_PreL	646		* @param p_PreL
	» istenIndicator a boolean to indecate ho			» istenIndicator a boolean to indecate ho	
	» w the terminal should handle interacti			» w the terminal should handle interacti	
	» vity media objects			» vity media objects	
647		* @param p_Inte	647		* @param p_Inte
	» ractivityMediaDocumentGroupId The id o			» ractivityMediaDocumentGroupId The id o	
	» f a media document group			» f a media document group	
648		* @param p_Serv	648		* @param p_Serv
	» iceId the referenced service fragment			» iceId the referenced service fragment	
	» id			» id	
649		*/	649		*/
650		template Interac	650		template Interac
	» tivityDataType m_def_InteractivityData			» tivityDataType m_def_InteractivityData	
	» (			» (	
651		AnyUri p	651		AnyUri p
	» _Id,			» _Id,	
652		UInt p_V	652		UInt p_V
	» ersion,			» ersion,	
653		boolean	653		boolean
	» p_PreListenIndicator,			» p_PreListenIndicator,	
654		AnyUri p	654		AnyUri p
	» _InteractivityMediaDocumentGroupId,			» _InteractivityMediaDocumentGroupId,	
655		AnyUri p	655		AnyUri p
	» _ServiceId,			» _ServiceId,	
656		AnyUri p	656		AnyUri p
	» _ContentId, // change 33 (WK18): (addi			» _ContentId, // change 33 (WK18): (addi	
	» tional to 3) according to ETS; content			» tional to 3) according to ETS; content	
	» id must be referenced			» id must be referenced	
657		charstri	657		charstri

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(continued)

```

» ng p_InteractivityType) := {
658             id := p_
» Id,
659             version
» := p_Version,
660             validFro
» m := omit,
661             validTo
» := omit,
662             preListe
» nIndicator := p_PreListenIndicator,
663             interact
» ivityMediaDocumentPointer :=
664
» p_InteractivityMediaDocumentGroupId,
665             // Inter
» activityTypes := omit,
666             Interact
» ivityTypes := {{omit, p_InteractivityT
» ype}}, // change 24 (WK18): (additiona
» l to 3, 23, 4) interactivity type must
» de set
667             ServiceR
» eference := { idRef := p_ServiceId },
668             // choic
» e := omit,
669             choice :
» = {
670
» ContentReferences := {{p_ContentId}} /
» / change 33 (WK18): (additional to 3)
» according to ETS; content id must be r
» eferenced
671             },
672             Interact
» ivityDelivery := omit,
673             Extensio
» n := omit,
674             BackOffT
» iming := omit,
675             TermsofU
» ses := omit,
676             PrivateE
» xt := omit
677             }
678         }
679
680     group ServiceGuideFragme
» nts {
681         /**
682         *
683         * @desc This te
» mplate is a default template for a xml
» ServiceGuideFragment.
684         * @param p_frag
» mentTransportId The Tranport ID of the
» fragment

```

```

» ng p_InteractivityType) := {
658             id := p_
» Id,
659             version
» := p_Version,
660             validFro
» m := omit,
661             validTo
» := omit,
662             preListe
» nIndicator := p_PreListenIndicator,
663             interact
» ivityMediaDocumentPointer :=
664
» p_InteractivityMediaDocumentGroupId,
665             // Inter
» activityTypes := omit,
666             Interact
» ivityTypes := {{omit, p_InteractivityT
» ype}}, // change 24 (WK18): (additiona
» l to 3, 23, 4) interactivity type must
» de set
667             ServiceR
» eference := { idRef := p_ServiceId },
668             // choic
» e := omit,
669             choice :
» = {
670
» ContentReferences := {{p_ContentId}} /
» / change 33 (WK18): (additional to 3)
» according to ETS; content id must be r
» eferenced
671             },
672             Interact
» ivityDelivery := omit,
673             Extensio
» n := omit,
674             BackOffT
» iming := omit,
675             TermsofU
» ses := omit,
676             PrivateE
» xt := omit
677             }
678         }
679
680     group ServiceGuideFragme
» nts {
681         /**
682         *
683         * @desc This te
» mplate is a default template for a xml
» ServiceGuideFragment.
684         * @param p_frag
» mentTransportId The Tranport ID of the
» fragment

```

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(continued)

```

685      * @param p_frag
» mentVersion The fragment version
686      * @param p_xmlF
» ragment the the xml fragment which sho
» uld be included
687      */
688      template Service
» GuideFragment m_xml_ServiceGuideFragme
» nt(
689          UInt32 p
» _fragmentTransportId,
690          UInt32 p
» _fragmentVersion,
691          XmlFragm
» ent p_xmlFragment) := {
692          fragment
» TransportId := p_fragmentTransportId,
693          fragment
» Version := p_fragmentVersion,
694          fragment
» Type := { xmlFragment := p_xmlFragment
» }
695      }
696
697      /**
698      *
699      * @desc This te
» mplate is a default template for a sdp
» ServiceGuideFragment.
700      * @param p_frag
» mentTransportId The Tranport ID of the
» fragment
701      * @param p_frag
» mentVersion The fragment version
702      * @param p_sdpF
» ragment the the sdp fragment which sho
» uld be included
703      */
704      template Service
» GuideFragment m_sdp_ServiceGuideFragme
» nt(
705          UInt32 p
» _fragmentTransportId,
706          UInt32 p
» _fragmentVersion,
707          SdpFragm
» ent p_sdpFragment) := {
708          fragment
» TransportId := p_fragmentTransportId,
709          fragment
» Version := p_fragmentVersion,
710          fragment
» Type := { sdpFragment := p_sdpFragment
» }
711      }
712
713      /**

```

```

685      * @param p_frag
» mentVersion The fragment version
686      * @param p_xmlF
» ragment the the xml fragment which sho
» uld be included
687      */
688      template Service
» GuideFragment m_xml_ServiceGuideFragme
» nt(
689          UInt32 p
» _fragmentTransportId,
690          UInt32 p
» _fragmentVersion,
691          XmlFragm
» ent p_xmlFragment) := {
692          fragment
» TransportId := p_fragmentTransportId,
693          fragment
» Version := p_fragmentVersion,
694          fragment
» Type := { xmlFragment := p_xmlFragment
» }
695      }
696
697      /**
698      *
699      * @desc This te
» mplate is a default template for a sdp
» ServiceGuideFragment.
700      * @param p_frag
» mentTransportId The Tranport ID of the
» fragment
701      * @param p_frag
» mentVersion The fragment version
702      * @param p_sdpF
» ragment the the sdp fragment which sho
» uld be included
703      */
704      template Service
» GuideFragment m_sdp_ServiceGuideFragme
» nt(
705          UInt32 p
» _fragmentTransportId,
706          UInt32 p
» _fragmentVersion,
707          SdpFragm
» ent p_sdpFragment) := {
708          fragment
» TransportId := p_fragmentTransportId,
709          fragment
» Version := p_fragmentVersion,
710          fragment
» Type := { sdpFragment := p_sdpFragment
» }
711      }
712
713      /**

```



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(continued)

```

714          *
715          * @desc This te
    » mplate is a default template for a mbm
    » s ServiceGuideFragment.
716          * @param p_frag
    » mentTransportId The Tranport ID of the
    » fragment
717          * @param p_frag
    » mentVersion The fragment version
718          * @param p_mbms
    » UsbdFragment the the mbms fragment whi
    » ch should be included
719          */
720          template Service
    » GuideFragment m_mbmsUsbd_ServiceGuideF
    » ragment(
721              UInt32 p
    » _fragmentTransportId,
722              UInt32 p
    » _fragmentVersion,
723              MbmsUsbd
    » Fragment p_mbmsUsbdFragment) := {
724              fragment
    » TransportId := p_fragmentTransportId,
725              fragment
    » Version := p_fragmentVersion,
726              fragment
    » Type := { mbmsUsbdFragment := p_mbmsUs
    » bdFragment }
727          }
728
729          /**
730          *
731          * @desc This te
    » mplate is a default template for a apd
    » ServiceGuideFragment.
732          * @param p_frag
    » mentTransportId The Tranport ID of the
    » fragment
733          * @param p_frag
    » mentVersion The fragment version
734          * @param p_adpF
    » ragment the the apd fragment which sho
    » uld be included
735          */
736          template Service
    » GuideFragment m_adp_ServiceGuideFragme
    » nt(
737              UInt32 p
    » _fragmentTransportId,
738              UInt32 p
    » _fragmentVersion,
739              FileAdp
    » p_adpFragment) := {
740              fragment
    » TransportId := p_fragmentTransportId,
741              fragment

```

```

714          *
715          * @desc This te
    » mplate is a default template for a mbm
    » s ServiceGuideFragment.
716          * @param p_frag
    » mentTransportId The Tranport ID of the
    » fragment
717          * @param p_frag
    » mentVersion The fragment version
718          * @param p_mbms
    » UsbdFragment the the mbms fragment whi
    » ch should be included
719          */
720          template Service
    » GuideFragment m_mbmsUsbd_ServiceGuideF
    » ragment(
721              UInt32 p
    » _fragmentTransportId,
722              UInt32 p
    » _fragmentVersion,
723              MbmsUsbd
    » Fragment p_mbmsUsbdFragment) := {
724              fragment
    » TransportId := p_fragmentTransportId,
725              fragment
    » Version := p_fragmentVersion,
726              fragment
    » Type := { mbmsUsbdFragment := p_mbmsUs
    » bdFragment }
727          }
728
729          /**
730          *
731          * @desc This te
    » mplate is a default template for a apd
    » ServiceGuideFragment.
732          * @param p_frag
    » mentTransportId The Tranport ID of the
    » fragment
733          * @param p_frag
    » mentVersion The fragment version
734          * @param p_adpF
    » ragment the the apd fragment which sho
    » uld be included
735          */
736          template Service
    » GuideFragment m_adp_ServiceGuideFragme
    » nt(
737              UInt32 p
    » _fragmentTransportId,
738              UInt32 p
    » _fragmentVersion,
739              FileAdp
    » p_adpFragment) := {
740              fragment
    » TransportId := p_fragmentTransportId,
741              fragment

```

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(continued)

```

742 » Version := p_fragmentVersion,
      fragment
743 » Type := { adpFragment := p_adpFragment
744 » }
745 }
746 }
747 }
748 // change 13 (WK 6): send DVB-H
749 » bootstrap files via FLUTE
750 group DVBH_Bootstrap {
751 /**
752 *
753 * @desc
754 * This is a default
755 » template for the ESGProviderDiscovery
756 » Type
757 * @param
758 * p_providerURI The
759 » provider URI
760 * @param
761 * p_providerName Th
762 » e provider name
763 * @param
764 * p_providerID The
765 » provider ID
766 */
767 template ESGProviderDisc
768 » overType m_def_esg_prov_disc(charstri
769 » ng p_providerURI, charstring p_provide
770 » rName, charstring p_providerID) := {
771 ServiceProviders
772 » := {
773 {
774 » format := "urn:oma:xml:bcast:sg:fragme
775 » nts:1.0",
776 » ProviderURI := {text_ := p_providerURI
777 » },
778 » ProviderName := {text_ := p_providerNa
779 » me},
780 » ProviderID := {text_ := p_providerID}
781 }
782 }
783 }
784 // change 1 (WK48/08): T
785 » SI Value correction - ESG playout
786 /**
787 *
788 * @desc
789 * This is a default
790 » template for the ESGAccessType

```

```

742 » Version := p_fragmentVersion,
      fragment
743 » Type := { adpFragment := p_adpFragment
744 » }
745 }
746 }
747 }
748 // change 13 (WK 6): send DVB-H
749 » bootstrap files via FLUTE
750 group DVBH_Bootstrap {
751 /**
752 *
753 * @desc
754 * This is a default
755 » template for the ESGProviderDiscovery
756 » Type
757 * @param
758 * p_providerURI The
759 » provider URI
760 * @param
761 * p_providerName Th
762 » e provider name
763 * @param
764 * p_providerID The
765 » provider ID
766 */
767 template ESGProviderDisc
768 » overType m_def_esg_prov_disc(charstri
769 » ng p_providerURI, charstring p_provide
770 » rName, charstring p_providerID) := {
771 ServiceProviders
772 » := {
773 {
774 » format := "urn:oma:xml:bcast:sg:fragme
775 » nts:1.0",
776 » ProviderURI := {text_ := p_providerURI
777 » },
778 » ProviderName := {text_ := p_providerNa
779 » me},
780 » ProviderID := {text_ := p_providerID}
781 }
782 }
783 }
784 // change 1 (WK48/08): T
785 » SI Value correction - ESG playout
786 /**
787 *
788 * @desc
789 * This is a default
790 » template for the ESGAccessType

```

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(continued)

```

777          * @param
778          *      p_srcIpAddress Th
» e source IPv4 address
779          * @param
780          *      p_dstIpAddress Th
» e destination IPv4 address
781          * @param
782          *      p_dstIpPort The d
» estionation port
783          * @param
784          *      p_TSI_SGDD The TS
» I of the SGDD (for reverencing the app
» ropriate SGDD)
785          */
786          template ESGAccessType m
» _def_esg_access_ipv4(charstring p_srcI
» pAddress, charstring p_dstIpAddress, U
» Int16 p_dstIpPort, UInt16 p_TSI_SGDD)
» := {
787              ESGEntryVersion
» := 1,
788              MultipleStreamTr
» ansport := false,
789              IPVersion6 := fa
» lse,
790              ProviderID := 1,
791              SrcIpAddress :=
» p_srcIpAddress,
792              DstIpAddress :=
» p_dstIpAddress,
793              DstIpPort := p_d
» stIpPort,
794              TSI := p_TSI_SGD
» D
795          }
796      }
797
798      group IMD {
799          /**
800          *
801          * @desc
802          *      This is a default
» template for the InteractivityMediaDo
» cumentType
803          * @param
804          *      p_GroupID The id
» of the group // cha
» nge 99 (WK 6): Clerical
805          * @param
806          *      p_GroupPosition T
» he position of the group
807          * @param
808          *      p_id The media do
» cument id // cha
» nge 99 (WK 6): Clerical
809          * @param
810          *      p_MediaObjectGrou

```

```

777          * @param
778          *      p_srcIpAddress Th
» e source IPv4 address
779          * @param
780          *      p_dstIpAddress Th
» e destination IPv4 address
781          * @param
782          *      p_dstIpPort The d
» estionation port
783          * @param
784          *      p_TSI_SGDD The TS
» I of the SGDD (for reverencing the app
» ropriate SGDD)
785          */
786          template ESGAccessType m
» _def_esg_access_ipv4(charstring p_srcI
» pAddress, charstring p_dstIpAddress, U
» Int16 p_dstIpPort, UInt16 p_TSI_SGDD)
» := {
787              ESGEntryVersion
» := 1,
788              MultipleStreamTr
» ansport := false,
789              IPVersion6 := fa
» lse,
790              ProviderID := 1,
791              SrcIpAddress :=
» p_srcIpAddress,
792              DstIpAddress :=
» p_dstIpAddress,
793              DstIpPort := p_d
» stIpPort,
794              TSI := p_TSI_SGD
» D
795          }
796      }
797
798      group IMD {
799          /**
800          *
801          * @desc
802          *      This is a default
» template for the InteractivityMediaDo
» cumentType
803          * @param
804          *      p_GroupID The id
» of the group // cha
» nge 99 (WK 6): Clerical
805          * @param
806          *      p_GroupPosition T
» he position of the group
807          * @param
808          *      p_id The media do
» cument id // cha
» nge 99 (WK 6): Clerical
809          * @param
810          *      p_MediaObjectGrou

```

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(continued)

```

» pList the media object group list
811      */
812      template InteractivityMe
» diaDocumentType m_def_InteractivityMed
» iaDocument(
813          AnyUri p_GroupID
814      » ,
815          UInt16 p_GroupPo
816      » sition,
817          AnyUri p_id,
818          UInt p_version
819      » ,
820          MediaObjectGroup
821      » List p_MediaObjectGroups) := {
822          groupID := p_Gro
823      » upID,
824          groupPosition :=
825      » p_GroupPosition,
826          id := p_id,
827          version := p_ver
828      » sion,
829          vaildFrom := omi
830      » t,
831          valudTo := omit,
832          MediaObjectGroup
833      » s := p_MediaObjectGroups,
834          PrivateExt := om
835      » it
836      }
837      /**
838      *
839      * @desc
840      * This is a default
841      » MediaObjectGroupType template
842      * @param
843      * p_id The id of th
844      » e group
845      * @param
846      * p_StartMediaFlag
847      » the start media flag
848      * @param
849      * p_MediaObjectSetL
850      » ist the media object set list
851      */
852      template MediaObjectGrou
853      » pType m_def_MediaObjectGroup(
854          AnyUri p_id,
855          boolean p_startM
856      » ediaFlag,
857          template MediaOb
858      » jectSetList p_MediaObjectSets) := {
859          id := p_id,
860          startMediaFlag :
861      » = p_startMediaFlag,
862          ActionDescriptor
863      » := omit,

```

```

» pList the media object group list
811      */
812      template InteractivityMe
» diaDocumentType m_def_InteractivityMed
» iaDocument(
813          AnyUri p_GroupID
814      » ,
815          UInt16 p_GroupPo
816      » sition,
817          AnyUri p_id,
818          UInt p_version
819      » ,
820          MediaObjectGroup
821      » List p_MediaObjectGroups) := {
822          groupID := p_Gro
823      » upID,
824          groupPosition :=
825      » p_GroupPosition,
826          id := p_id,
827          version := p_ver
828      » sion,
829          vaildFrom := omi
830      » t,
831          valudTo := omit,
832          MediaObjectGroup
833      » s := p_MediaObjectGroups,
834          PrivateExt := om
835      » it
836      }
837      /**
838      *
839      * @desc
840      * This is a default
841      » MediaObjectGroupType template
842      * @param
843      * p_id The id of th
844      » e group
845      * @param
846      * p_StartMediaFlag
847      » the start media flag
848      * @param
849      * p_MediaObjectSetL
850      » ist the media object set list
851      */
852      template MediaObjectGrou
853      » pType m_def_MediaObjectGroup(
854          AnyUri p_id,
855          boolean p_startM
856      » ediaFlag,
857          template MediaOb
858      » jectSetList p_MediaObjectSets) := {
859          id := p_id,
860          startMediaFlag :
861      » = p_startMediaFlag,
862          ActionDescriptor
863      » := omit,

```

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(continued)

```

846          BackOffTiming :=
»  omit,
847          MediaObjectSets
»  := p_MediaObjectSets,
848          SMSTemplate := o
»  mit,
849          EmailTemplate :=
»  omit,
850          VoiceCall := omi
»  t,
851          WebLink := omit,
852          AlternativeText
»  := omit
853      }
854
855      /**
856       *
857       * @desc
858       * This is a default
»  MediaObjectSetType template
859       * @param
860       * p_content_Type Th
»  e content type of the MediaObjectSetEl
»  ement
861       * @param
862       * p_content_Locatio
»  n The location of the content
863       * @param
864       * p_objects The lis
»  t of media objects or omit
865       */
866      template MediaObjectSetT
»  ype m_def_mediaObjectSet(
867          charstring p_Con
»  tent_Type,
868          AnyUri p_Content
»  _Location,
869          template ObjectL
»  ist p_Objects) := {
870          relativePreferen
»  ce := omit,
871          Content_Type :=
»  p_Content_Type,
872          Content_Location
»  := p_Content_Location,
873          Descriptions :=
»  omit,
874          Objects := p_Obj
»  ects,
875          File := omit
876      }
877
878      /**
879       *
880       * @desc
881       * This is a default
»  ObjectType template

```

```

846          BackOffTiming :=
»  omit,
847          MediaObjectSets
»  := p_MediaObjectSets,
848          SMSTemplate := o
»  mit,
849          EmailTemplate :=
»  omit,
850          VoiceCall := omi
»  t,
851          WebLink := omit,
852          AlternativeText
»  := omit
853      }
854
855      /**
856       *
857       * @desc
858       * This is a default
»  MediaObjectSetType template
859       * @param
860       * p_content_Type Th
»  e content type of the MediaObjectSetEl
»  ement
861       * @param
862       * p_content_Locatio
»  n The location of the content
863       * @param
864       * p_objects The lis
»  t of media objects or omit
865       */
866      template MediaObjectSetT
»  ype m_def_mediaObjectSet(
867          charstring p_Con
»  tent_Type,
868          AnyUri p_Content
»  _Location,
869          template ObjectL
»  ist p_Objects) := {
870          relativePreferen
»  ce := omit,
871          Content_Type :=
»  p_Content_Type,
872          Content_Location
»  := p_Content_Location,
873          Descriptions :=
»  omit,
874          Objects := p_Obj
»  ects,
875          File := omit
876      }
877
878      /**
879       *
880       * @desc
881       * This is a default
»  ObjectType template

```

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(continued)

```

882      * @param
883      *      p_Content_Locatio
» n the location of the ObjectType
884      * @param
885      *      p_Content_Type th
» e type of the ObjectType
886      * @param
887      *      p_start the start
» flag of the ObjectType
888      * @param
889      *      p_PartTypes the p
» art type list
890      */
891      template ObjectType m_de
» f_Object(
892          template AnyUri
» p_Content_Location,
893          charstring p_Con
» tent_Type,
894          template boolean
» p_start_,
895          template PartTyp
» eList p_PartTypes) := {
896          Content_Location
» := p_Content_Location,
897          Content_Type :=
» p_Content_Type,
898          start_ := p_star
» t_,
899          PartTypes := p_P
» artTypes
900      }
901
902      /**
903      *
904      * @desc
905      *      This is a default
» template for a SMSTemplateType
906      * @param
907      *      p_SelectChoices t
» he list of SelectChoice
908      */
909      template SMSTemplateType
» m_def_SmsTemplate(
910          SelectChoiceList
» p_SelectChoices) := {
911          relativePreferen
» ce := omit,
912          Descriptions :=
» omit,
913          SelectChoices :=
» p_SelectChoices
914      }
915  }
916 }

```

```

882      * @param
883      *      p_Content_Locatio
» n the location of the ObjectType
884      * @param
885      *      p_Content_Type th
» e type of the ObjectType
886      * @param
887      *      p_start the start
» flag of the ObjectType
888      * @param
889      *      p_PartTypes the p
» art type list
890      */
891      template ObjectType m_de
» f_Object(
892          template AnyUri
» p_Content_Location,
893          charstring p_Con
» tent_Type,
894          template boolean
» p_start_,
895          template PartTyp
» eList p_PartTypes) := {
896          Content_Location
» := p_Content_Location,
897          Content_Type :=
» p_Content_Type,
898          start_ := p_star
» t_,
899          PartTypes := p_P
» artTypes
900      }
901
902      /**
903      *
904      * @desc
905      *      This is a default
» template for a SMSTemplateType
906      * @param
907      *      p_SelectChoices t
» he list of SelectChoice
908      */
909      template SMSTemplateType
» m_def_SmsTemplate(
910          SelectChoiceList
» p_SelectChoices) := {
911          relativePreferen
» ce := omit,
912          Descriptions :=
» omit,
913          SelectChoices :=
» p_SelectChoices
914      }
915  }
916 }

```