

Mode: All Lines

Left file: C:\Documents and Settings\siggelko\Desktop\OMA-ETS-BCAST_ATS-V1_0-20081212-D\AtsBCast_ServiceGuideTests.ttcn

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1	/**	=	1	/**
2	*		2	*
3	* @author		3	* @author
4	* ETSI CTI BCAST CON Project		4	* ETSI CTI BCAST CON Project
5	* @version		5	* @version
6	* \$Id\$		6	* \$Id\$
7	* @desc		7	* @desc
8	* This module specifies pilot tests for BCast servic		8	* This module specifies pilot tests for BCast servic
9	» e guide.		9	» e guide.
10	*/		10	*/
11	module AtsBCast_ServiceGuideTests {		11	module AtsBCast_ServiceGuideTests {
12	import from LibBCast_Interface all;		12	import from LibBCast_Interface all;
13	import from AtsBCast_Main_Functions all;		13	import from AtsBCast_Main_Functions all;
14	import from LibBCast_ServiceGuide_Templates all;		14	import from LibBCast_ServiceGuide_Templates all;
15	import from AtsBCast_ServiceGuide_Functions all;		15	import from AtsBCast_ServiceGuide_Functions all;
16	import from LibBCast_ServiceGuide_TypesAndValues		16	import from LibBCast_ServiceGuide_TypesAndValues
17	» all;		17	» all;
18	import from LibBCast_UpperTesterPrimitives_TypesA		18	import from LibBCast_UpperTesterPrimitives_TypesA
19	» ndValues all;		19	» ndValues all;
20	import from LibBCast_Common_TypesAndValues all;		20	import from LibBCast_Common_TypesAndValues all;
21	import from LibCommon_BasicTypesAndValues all;		21	import from LibCommon_BasicTypesAndValues all;
22	import from AtsBCast_ModuleParameters all;		22	import from AtsBCast_ModuleParameters all;
23	import from LibBCast_ModuleParameters all;		23	import from LibBCast_ModuleParameters all;
24	import from AtsBCast_TestConfiguration_Functions		24	import from AtsBCast_TestConfiguration_Functions
25	» all;		25	» all;
26	import from AtsBCast_TestSystem all;		26	import from AtsBCast_TestSystem all;
27	// change 2 (WK18): file distribution as well as		27	// change 2 (WK18): file distribution as well as
28	» preview data		28	» preview data
29	import from LibBCast_ServicePrimitives_TypesAndVa		29	import from LibBCast_ServicePrimitives_TypesAndVa
30	» lues all;		30	» lues all;
31			31	
32	group bcastConformanceTestCases {		32	group bcastConformanceTestCases {
	group clientConformanceTestCases {			group clientConformanceTestCases {
	/**			/**
	*			*
	* @desc			* @desc
	* <p>Service Guide update via			* <p>Service Guide update via
	» broadcast channel (same fragment id, higher version nu			» broadcast channel (same fragment id, higher version nu
	» mber)</p>			» mber)</p>
	*			*
	<p>Test Case Description</p>			<p>Test Case Description</p>

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(continued)

```

33  » >
    * <p>with a terminal having r
    » eceived a Service Guide and listening to the broadcast
    » Service Guide Delivery Channel.</p>
34  * <p>when the terminal receiv
    » es Service Guide update containing a content fragment w
    » ith same id and higher version</p>
35  * <p>then the terminal presen
    » ts the information of the updated Service Guide</p>
36  * <p>Specification Reference<
    » /p>
37  * <p>[BCAST10-ESG] Section 5.
    » 4.2.1.2, 5.5 3rd bullet item</p>
38  * <p>Preconditions</p>
39  * <p>Service guide cache of t
    » erminal is erased</p>
40  * <p>Terminal is configured t
    » o listen to BCAST service guide announcements and deliv
    » ery on the broadcast channel</p>
41  * <p>Access point information
    » for service guide entry point is configured in test to
    » ol</p>
42  * <p>This test case uses the
    » following SG fragment instantiations found in the Appen
    » dix:</p>
43  * <p>Initial service guide:
44  * <ul>
45  * <li>Service fragment
    » with Name="TvChannel"</li>
46  * <li>Content fragment
    » with version = "1" and Name = "Programmel" , and Start
    » Time and EndTime elements indicating values after the t
    » ime of test</li>
47  * <li>Schedule fragmen
    » t for "Programmel" content fragment with same values fo
    » r startTime and endTime in the presentationWindow eleme
    » nt</li>
48  * <li>Access fragment
    » "Programmel" schedule fragment</li>
49  * </ul>
50  * </p>

```

```

33  » >
    * <p>with a terminal having r
    » eceived a Service Guide and listening to the broadcast
    » Service Guide Delivery Channel.</p>
34  * <p>when the terminal receiv
    » es Service Guide update containing a content fragment w
    » ith same id and higher version</p>
35  * <p>then the terminal presen
    » ts the information of the updated Service Guide</p>
36  * <p>Specification Reference<
    » /p>
37  * <p>[BCAST10-ESG] Section 5.
    » 4.2.1.2, 5.5 3rd bullet item</p>
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    » Time and EndTime elements indicating values after the t
    » ime of test</li>
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    » t for "Programmel" content fragment with same values fo
    » r startTime and endTime in the presentationWindow eleme
    » nt</li>
48  * <li>Access fragment
    » "Programmel" schedule fragment</li>
49  * </ul>
50  * </p>

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51      *      <p>Updated service guide:
52      *      <ul>
53      *      <li>Service fragment
54      » with Name="TvChannel"</li>
55      *      <li>Content fragment
56      » with version = "2" and Name = "Programmel-version2" ,
57      » and StartTime and EndTime elements indicating values af
58      » ter the time of test</li>
59      *      <li>Schedule fragmen
60      » t for "Programmel-version2" content fragment with same
61      » values for startTime and endTime in the presentationWin
62      » dow element</li>
63      *      <li>Access fragment
64      » for "Programmel-version2" schedule fragment</li>
65      *      </ul>
66      *      Note: All the fragments
67      » are associated with the same Service fragment and are
68      » sent in the same service guide delivery.
69      *      </p>
70      *      <p>Test Procedure</p>
71      *      <p>
72      *      <ul>
73      *      <li>Set up the test
74      » tool to produce initial BCAST service guide announcemen
75      » t and delivery using broadcast channel.</li>
76      *      <li>Activate the BCA
77      » ST application of the terminal</li>
78      *      <li>Request from BCA
79      » ST application on terminal to get the service guide (op
80      » tional)</li>
81      *      <li>Browse the SG on
82      » the terminal</li>
83      *      <li>Set up the test
84      » tool to produce updated BCAST service guide announcemen
85      » t and delivery using broadcast channel.</li>
86      *      <li>Request from BCA
87      » ST application on terminal to update the service guide
88      » (optional).</li>
89      *      <li>Browse the SG on
90      » the terminal</li>
91      *      </ul>

```

```

51      *      <p>Updated service guide:
52      *      <ul>
53      *      <li>Service fragment
54      » with Name="TvChannel"</li>
55      *      <li>Content fragment
56      » with version = "2" and Name = "Programmel-version2" ,
57      » and StartTime and EndTime elements indicating values af
58      » ter the time of test</li>
59      *      <li>Schedule fragmen
60      » t for "Programmel-version2" content fragment with same
61      » values for startTime and endTime in the presentationWin
62      » dow element</li>
63      *      <li>Access fragment
64      » for "Programmel-version2" schedule fragment</li>
65      *      </ul>
66      *      Note: All the fragments
67      » are associated with the same Service fragment and are
68      » sent in the same service guide delivery.
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74      » tool to produce initial BCAST service guide announcemen
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78      *      <li>Request from BCA
79      » ST application on terminal to get the service guide (op
80      » tional)</li>
81      *      <li>Browse the SG on
82      » the terminal</li>
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84      » tool to produce updated BCAST service guide announcemen
85      » t and delivery using broadcast channel.</li>
86      *      <li>Request from BCA
87      » ST application on terminal to update the service guide
88      » (optional).</li>
89      *      <li>Browse the SG on
90      » the terminal</li>
91      *      </ul>

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(continued)

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71      *      </p>
72      *      <p>Pass-Criteria</p>
73      *      <p>The following should be
    » visible to the end user after the initial delivery of t
    » he SG
74      *      <ul>
75      *      <li>There is a servi
    » ce "TvChannel" associated with a program "Programmel" a
    » s well as start and end time values (There is a "TvChan
    » nel" that contains "Programmel" scheduled from startTim
    » e to endTime)</li>
76      *      </ul>
77      *      </p>
78      *      <p>The following should be
    » visible to the end user after the delivery of the updat
    » e of the SG
79      *      <ul>
80      *      <li>There is a servi
    » ce "TvChannel" associated with a program "Programmel-ve
    » rsion2" as well as start and end time values (There is
    » a "TvChannel" that contains "Programmel-version2" sched
    » uled from startTime to endTime)</li>
81      *      </ul>
82      *      </p>
83      *      @verdict
84      *      pass in case the client pas
    » s the conformance test.
85      *      @verdict
86      *      fail in case the client doe
    » s not pass the conformance test.
87      *      @verdict
88      *      inconc in case a guard time
    » r expires.
89      */
90      testcase TC_BCAST_ESG_CONF_101()
    » runs on BCastMainComponent system BCastPlatformComponen
    » t {
91          // init components and po
    » rts
92          f_createComponents();
93          f_cf_Broadcast_up();

```

```

71      *      </p>
72      *      <p>Pass-Criteria</p>
73      *      <p>The following should be
    » visible to the end user after the initial delivery of t
    » he SG
74      *      <ul>
75      *      <li>There is a servi
    » ce "TvChannel" associated with a program "Programmel" a
    » s well as start and end time values (There is a "TvChan
    » nel" that contains "Programmel" scheduled from startTim
    » e to endTime)</li>
76      *      </ul>
77      *      </p>
78      *      <p>The following should be
    » visible to the end user after the delivery of the updat
    » e of the SG
79      *      <ul>
80      *      <li>There is a servi
    » ce "TvChannel" associated with a program "Programmel-ve
    » rsion2" as well as start and end time values (There is
    » a "TvChannel" that contains "Programmel-version2" sched
    » uled from startTime to endTime)</li>
81      *      </ul>
82      *      </p>
83      *      @verdict
84      *      pass in case the client pas
    » s the conformance test.
85      *      @verdict
86      *      fail in case the client doe
    » s not pass the conformance test.
87      *      @verdict
88      *      inconc in case a guard time
    » r expires.
89      */
90      testcase TC_BCAST_ESG_CONF_101()
    » runs on BCastMainComponent system BCastPlatformComponen
    » t {
91          // init components and po
    » rts
92          f_createComponents();
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```

94         f_cf_UpperTester_up();
95
96         // preamble
97         f_startCommonUtPreamble()
98     » ;
99
100        var ServiceGuideDeliveryU
101    » nit v_SGDU := {};
102        var UInt32 v_FragmentVers
103    » ion := 1;
104
105        f_main_ctrl_InitStartEndT
106    » ime(c_one_hour,c_one_hour); // ch
107    » ange 01 (WK 6): global time definition
108
109    »
110        var DateTime v_DateTime_S
111    » tartTime := f_getDateTime(v_startTime); // ch
112    » ange 01 (WK 6): global time definition
113        var DateTime v_DateTime_E
114    » ndTime := f_getDateTime(v_endTime); // ch
115    » ange 01 (WK 6): global time definition
116
117        var SdpFragment v_Sdp :=
118    » valueof(m_def_SdpFragment(
119        PX_SDP_VIDEO_PROG
120    » _1_REF_ID,
121        PX_SDP_VIDEO_PROG
122    » _1
123        ));
124
125        var AccessTypeType v_Acce
126    » ssType := valueof(m_def_AccessType_bc_sdp(
127        f_getAccessType(P
128    » X_BROADCAST_NETWORK_BEARER),
129        PX_SDP_VIDEO_PROG
130    » _1_REF_ID
131        ));
132
133        var ServiceType v_Service
134    » := valueof(m_def_Service(

```

```

94         f_cf_UpperTester_up();
95
96         // preamble
97         f_startCommonUtPreamble()
98     » ;
99
100        var ServiceGuideDeliveryU
101    » nit v_SGDU := {};
102        var UInt32 v_FragmentVers
103    » ion := 1;
104
105        f_main_ctrl_InitStartEndT
106    » ime(c_one_hour,c_one_hour); // ch
107    » ange 01 (WK 6): global time definition
108
109    »
110        var DateTime v_DateTime_S
111    » tartTime := f_getDateTime(v_startTime); // ch
112    » ange 01 (WK 6): global time definition
113        var DateTime v_DateTime_E
114    » ndTime := f_getDateTime(v_endTime); // ch
115    » ange 01 (WK 6): global time definition
116
117        var SdpFragment v_Sdp :=
118    » valueof(m_def_SdpFragment(
119        PX_SDP_VIDEO_PROG
120    » _1_REF_ID,
121        PX_SDP_VIDEO_PROG
122    » _1
123        ));
124
125        var AccessTypeType v_Acce
126    » ssType := valueof(m_def_AccessType_bc_sdp(
127        f_getAccessType(P
128    » X_BROADCAST_NETWORK_BEARER),
129        PX_SDP_VIDEO_PROG
130    » _1_REF_ID
131        ));
132
133        var ServiceType v_Service
134    » := valueof(m_def_Service(

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<pre> 118 PX_SGDU_SERVICE_I 119 » D, 120 v_FragmentVersion 121 » , 122 "TvChannel", 123 c_basicTv_Service 124 » Type 125)); 126 var ContentType v_Content 127 » := valueof(m_def_Content(128 PX_SGDU_CONTENT_I 129 » D_PROG_1, 130 v_FragmentVersion 131 » , 132 "Programm1", 133 PX_SGDU_SERVICE_I 134 » D, 135 v_DateTime_StartT 136 » ime, 137 v_DateTime_EndTim 138 » e 139)); 140 var ScheduleType v_Schedu 141 » le := valueof(m_def_Schedule(142 PX_SGDU_SCHEDULE_ 143 » ID_PROG_1, 144 v_FragmentVersion 145 » , 146 PX_SGDU_SERVICE_I 147 » D, 148 PX_SGDU_CONTENT_I 149 » D_PROG_1, 150 v_startTime, 151 // c 152 » hange 01 (WK 6): global time definition 153 v_endTime 154 » 155 // c 156 » hange 01 (WK 6): global time definition 157)); </pre>	<pre> 118 PX_SGDU_SERVICE_I 119 » D, 120 v_FragmentVersion 121 » , 122 "TvChannel", 123 c_basicTv_Service 124 » Type 125)); 126 var ContentType v_Content 127 » := valueof(m_def_Content(128 PX_SGDU_CONTENT_I 129 » D_PROG_1, 130 v_FragmentVersion 131 » , 132 "Programm1", 133 PX_SGDU_SERVICE_I 134 » D, 135 v_DateTime_StartT 136 » ime, 137 v_DateTime_EndTim 138 » e 139)); 140 var ScheduleType v_Schedu 141 » le := valueof(m_def_Schedule(142 PX_SGDU_SCHEDULE_ 143 » ID_PROG_1, 144 v_FragmentVersion 145 » , 146 PX_SGDU_SERVICE_I 147 » D, 148 PX_SGDU_CONTENT_I 149 » D_PROG_1, 150 v_startTime, 151 // c 152 » hange 01 (WK 6): global time definition 153 v_endTime 154 » 155 // c 156 » hange 01 (WK 6): global time definition 157)); </pre>
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141
142         var AccessType v_Access :
143         » = valueof(m_def_Access(
144             PX_SGDU_ACCESS_ID
145             » _PROG_1,
146             v_FragmentVersion
147             » ,
148             v_AccessType,
149             PX_SGDU_SERVICE_I
150             » D,
151             PX_SGDU_SCHEDULE_
152             » ID_PROG_1,
153             c_class_SG
154             ));
155         // CR 26/8: generic funct
156         » ion for adding XML fragments
157         f_addXMLFragment(v_SGDU,
158         » {Service := v_Service});
159         f_addXMLFragment(v_SGDU,
160         » {Content := v_Content});
161         f_addXMLFragment(v_SGDU,
162         » {Schedule := v_Schedule});
163         f_addXMLFragment(v_SGDU,
164         » {Access := v_Access});
165         f_addSdpFragment(v_SGDU,
166         » v_FragmentVersion, v_Sdp);
167         f_main_ut_RunBCastApplica
168         » tion();
169         if (PX_GET_SG_DISPLAY_MAN
170         » UALLY) {
171             f_main_ut_GetServ
172         » iceGuide(PX_SGDD_ID);
173         }
174         f_main_ctrl_broadcastServ
175         » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (WK 34/
176         » 2008): Flute Update Signalling
177         f_main_ut_CheckService("T
178         » vChannel");
179         f_main_ut_SelectService("

```

```

141
142         var AccessType v_Access :
143         » = valueof(m_def_Access(
144             PX_SGDU_ACCESS_ID
145             » _PROG_1,
146             v_FragmentVersion
147             » ,
148             v_AccessType,
149             PX_SGDU_SERVICE_I
150             » D,
151             PX_SGDU_SCHEDULE_
152             » ID_PROG_1,
153             c_class_SG
154             ));
155         // CR 26/8: generic funct
156         » ion for adding XML fragments
157         f_addXMLFragment(v_SGDU,
158         » {Service := v_Service});
159         f_addXMLFragment(v_SGDU,
160         » {Content := v_Content});
161         f_addXMLFragment(v_SGDU,
162         » {Schedule := v_Schedule});
163         f_addXMLFragment(v_SGDU,
164         » {Access := v_Access});
165         f_addSdpFragment(v_SGDU,
166         » v_FragmentVersion, v_Sdp);
167         f_main_ut_RunBCastApplica
168         » tion();
169         if (PX_GET_SG_DISPLAY_MAN
170         » UALLY) {
171             f_main_ut_GetServ
172         » iceGuide(PX_SGDD_ID);
173         }
174         f_main_ctrl_broadcastServ
175         » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (WK 34/
176         » 2008): Flute Update Signalling
177         f_main_ut_CheckService("T
178         » vChannel");
179         f_main_ut_SelectService("

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165      » TvChannel");
166      f_main_ut_CheckContent("P
167      » rogrammel", v_DateTime_StartTime, v_DateTime_EndTime);
168      // test behavior
169      // reset TransportID of B
170      » CAST SG
171      vc_BCASTTransportID := 1;
172      » // change 07 (W
173      » K 6): in order to send same TransportID
174      vc_FluteUpdateID := vc_Fl
175      » uteUpdateID + 1; // CR (WK 34/20
176      » 08): Flute Update Signalling
177      v_SGDU := {};
178      v_Content.version := f_In
179      » cFragmentVersion(v_Content.version);
180      v_Content.Names := {{omit
181      » ,"Programm1-version2"}};
182      // CR 26/8: generic funct
183      » ion for adding XML fragments
184      f_addXMLFragment(v_SGDU,
185      » {Service := v_Service}); // cha
186      » nge 08 (WK 6): SGDU must contian all fragments
187      f_addXMLFragment(v_SGDU,
188      » {Content := v_Content});
189      f_addXMLFragment(v_SGDU,
190      » {Schedule := v_Schedule}); // cha
191      » nge 08 (WK 6): SGDU must contian all fragments
192      f_addXMLFragment(v_SGDU,
193      » {Access := v_Access}); // cha
194      » nge 08 (WK 6): SGDU must contian all fragments
195      f_addSdpFragment(v_SGDU,
196      » v_FragmentVersion, v_Sdp); // change 08 (W
197      » K 6): SGDU must contian all fragments
198
199      f_main_ctrl_broadcastServ
200      » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (WK 34
201      » /2008): Flute Update Signalling
202
203

```

```

165      » TvChannel");
166      f_main_ut_CheckContent("P
167      » rogrammel", v_DateTime_StartTime, v_DateTime_EndTime);
168      // test behavior
169      // reset TransportID of B
170      » CAST SG
171      vc_BCASTTransportID := 1;
172      » // change 07 (W
173      » K 6): in order to send same TransportID
174      vc_FluteUpdateID := vc_Fl
175      » uteUpdateID + 1; // CR (WK 34/20
176      » 08): Flute Update Signalling
177      v_SGDU := {};
178      v_Content.version := f_In
179      » cFragmentVersion(v_Content.version);
180      v_Content.Names := {{omit
181      » ,"Programm1-version2"}};
182      // CR 26/8: generic funct
183      » ion for adding XML fragments
184      f_addXMLFragment(v_SGDU,
185      » {Service := v_Service}); // cha
186      » nge 08 (WK 6): SGDU must contian all fragments
187      f_addXMLFragment(v_SGDU,
188      » {Content := v_Content});
189      f_addXMLFragment(v_SGDU,
190      » {Schedule := v_Schedule}); // cha
191      » nge 08 (WK 6): SGDU must contian all fragments
192      f_addXMLFragment(v_SGDU,
193      » {Access := v_Access}); // cha
194      » nge 08 (WK 6): SGDU must contian all fragments
195      f_addSdpFragment(v_SGDU,
196      » v_FragmentVersion, v_Sdp); // change 08 (W
197      » K 6): SGDU must contian all fragments
198
199      f_main_ctrl_broadcastServ
200      » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (WK 34
201      » /2008): Flute Update Signalling
202
203

```


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(continued)

```

185         if (PX_GET_SG_UPDATE_MANU
» ALLY) {
186             f_main_ut_Updates
» serviceGuide();
187         }
188         f_main_ut_CheckService("T
» vChannel");
189         f_main_ut_SelectService("
» TvChannel");
190         f_main_ut_CheckContent("P
» rogrammel-version2", v_DateTime_StartTime, v_DateTime_E
» ndTime);
191
192         // postamble
»
193         f_main_ut_PowerOff();
194
195         f_cf_Broadcast_down();
196         f_cf_UpperTester_down();
197     } // end test case TC_BCAST_ESG_C
» ONF_101
198         // change 39 (WK18): testcase des
» cription extension
199         with {extension "Description: 5.2
» .1 Service Guide update via broadcast channel (same fra
» gment id, higher version number)"}
200
201         /**
202         *
203         * @desc
204         * <p>Service Guide update via
» broadcast channel (same fragment id, lower version num
» ber)</p>
205         * <p>Test Case Description</p>
» >
206         * <p>with a terminal having r
» eceived a Service Guide and listening to the broadcast
» Service Guide Delivery Channel.</p>
207         * <p>when the terminal receiv
» es Service Guide update containing a content fragment w
» ith same id and lower version</p>

```

```

185         if (PX_GET_SG_UPDATE_MANU
» ALLY) {
186             f_main_ut_Updates
» serviceGuide();
187         }
188         f_main_ut_CheckService("T
» vChannel");
189         f_main_ut_SelectService("
» TvChannel");
190         f_main_ut_CheckContent("P
» rogrammel-version2", v_DateTime_StartTime, v_DateTime_E
» ndTime);
191
192         // postamble
»
193         f_main_ut_PowerOff();
194
195         f_cf_Broadcast_down();
196         f_cf_UpperTester_down();
197     } // end test case TC_BCAST_ESG_C
» ONF_101
198         // change 39 (WK18): testcase des
» cription extension
199         with {extension "Description: 5.2
» .1 Service Guide update via broadcast channel (same fra
» gment id, higher version number)"}
200
201         /**
202         *
203         * @desc
204         * <p>Service Guide update via
» broadcast channel (same fragment id, lower version num
» ber)</p>
205         * <p>Test Case Description</p>
» >
206         * <p>with a terminal having r
» eceived a Service Guide and listening to the broadcast
» Service Guide Delivery Channel.</p>
207         * <p>when the terminal receiv
» es Service Guide update containing a content fragment w
» ith same id and lower version</p>

```

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(continued)

```

208      *      <p>then the terminal does n
      » ot present the information of the updated Service Guide
      » </p>
209      *      <p>Specification Reference<
      » /p>
210      *      <p>[BCAST10-ESG] Section 5.
      » 4.2.1.2, 5.5 4th bullet item</p>
211      *      <p>Preconditions</p>
212      *      <p>Service guide cache of t
      » erminal is erased</p>
213      *      <p>Terminal is configured t
      » o listen to BCAST service guide announcements and deliv
      » ery on the broadcast channel</p>
214      *      <p>Access point information
      » for service guide entry point is configured in test to
      » ol</p>
215      *      <p>This test case uses the
      » following SG fragment instantiations found in the Appen
      » dix:</p>
216      *      <p>Initial service guide:
217      *      <ul>
218      *      <li>Service fragment
      » with Name="TvChannel"</li>
219      *      <li>Content fragment
      » with version = "2" and Name = "Programmel-version2" ,
      » and StartTime and EndTime elements indicating values af
      » ter the time of test</li>
220      *      <li>Schedule fragmen
      » t for "Programmel-version2" content fragment with same
      » values for startTime and endTime in the presentationWin
      » dow element</li>
221      *      <li>Access fragment
      » for "Programmel-version2" schedule fragment</li>
222      *      </ul>
223      *      </p>
224      *      <p>Updated service guide:
225      *      <ul>
226      *      <li>Service fragment
      » with Name="TvChannel"</li>
227      *      <li>Content fragment
      » with version = "1" and Name = "Programmel" , and Start

```

```

208      *      <p>then the terminal does n
      » ot present the information of the updated Service Guide
      » </p>
209      *      <p>Specification Reference<
      » /p>
210      *      <p>[BCAST10-ESG] Section 5.
      » 4.2.1.2, 5.5 4th bullet item</p>
211      *      <p>Preconditions</p>
212      *      <p>Service guide cache of t
      » erminal is erased</p>
213      *      <p>Terminal is configured t
      » o listen to BCAST service guide announcements and deliv
      » ery on the broadcast channel</p>
214      *      <p>Access point information
      » for service guide entry point is configured in test to
      » ol</p>
215      *      <p>This test case uses the
      » following SG fragment instantiations found in the Appen
      » dix:</p>
216      *      <p>Initial service guide:
217      *      <ul>
218      *      <li>Service fragment
      » with Name="TvChannel"</li>
219      *      <li>Content fragment
      » with version = "2" and Name = "Programmel-version2" ,
      » and StartTime and EndTime elements indicating values af
      » ter the time of test</li>
220      *      <li>Schedule fragmen
      » t for "Programmel-version2" content fragment with same
      » values for startTime and endTime in the presentationWin
      » dow element</li>
221      *      <li>Access fragment
      » for "Programmel-version2" schedule fragment</li>
222      *      </ul>
223      *      </p>
224      *      <p>Updated service guide:
225      *      <ul>
226      *      <li>Service fragment
      » with Name="TvChannel"</li>
227      *      <li>Content fragment
      » with version = "1" and Name = "Programmel" , and Start

```

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(continued)

	» Time and EndTime elements indicating values after the t		» Time and EndTime elements indicating values after the t
	» ime of test		» ime of test
228	* Schedule fragmen	228	* Schedule fragmen
	» t for "Programmel" content fragment with same values fo		» t for "Programmel" content fragment with same values fo
	» r startTime and endTime in the presentationWindow eleme		» r startTime and endTime in the presentationWindow eleme
	» nt		» nt
229	* Access fragment	229	* Access fragment
	» for "Programmel" schedule fragment		» for "Programmel" schedule fragment
230	* 	230	*
231	* </p>	231	* </p>
232	* <p>Note: All the fragments	232	* <p>Note: All the fragments
	» are associated with the same Service fragment and are s		» are associated with the same Service fragment and are s
	» ent in the same service guide delivery</p>		» ent in the same service guide delivery</p>
233	* <p>Test Procedure</p>	233	* <p>Test Procedure</p>
234	* <p>	234	* <p>
235	* 	235	*
236	* Set up the test	236	* Set up the test
	» tool to produce initial BCAST service guide announcemen		» tool to produce initial BCAST service guide announcemen
	» t and delivery using broadcast channel.		» t and delivery using broadcast channel.
237	* Activate the BCA	237	* Activate the BCA
	» ST application of the terminal		» ST application of the terminal
238	* Request from BCA	238	* Request from BCA
	» ST application on terminal to get the service guide (op		» ST application on terminal to get the service guide (op
	» tional)		» tional)
239	* Browse the SG on	239	* Browse the SG on
	» the terminal		» the terminal
240	* Set up the test	240	* Set up the test
	» tool to produce updated BCAST service guide announcemen		» tool to produce updated BCAST service guide announcemen
	» t and delivery using broadcast channel.		» t and delivery using broadcast channel.
241	* Request from BCA	241	* Request from BCA
	» ST application on terminal to update the service guide		» ST application on terminal to update the service guide
	» (optional).		» (optional).
242	* Browse the SG on	242	* Browse the SG on
	» the terminal		» the terminal
243	* 	243	*
244	* </p>	244	* </p>
245	* <p>Pass-Criteria</p>	245	* <p>Pass-Criteria</p>
246	* <p>The following should be	246	* <p>The following should be
	» visible to the end user after the initial delivery of t		» visible to the end user after the initial delivery of t
	» he SG		» he SG
247	* 	247	*

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(continued)

```

248      *      <li>There is a servi
    » ce called "TvChannel" associated with program "Programm
    » el-version2" as well as start and end time values(There
    » is a "TvChannel" that contains "Programmel-version2" s
    » cheduled from startTime to endTime</li>
249      *      </ul>
250      *      </p>
251      *      <p>The following should be
    » visible to the end user after the delivery of the updat
    » ed SG
252      *      <ul>
253      *      <li>There is a servi
    » ce called "TvChannel associated with program "Programme
    » l-version1" as well as start and end time values(There
    » is a "TvChannel" that contains "Programmel-version1" sc
    » heduled from startTime to endTime)).</li>
254      *      </ul>
255      *      </p>
256      *      @verdict
257      *      pass in case the client pas
    » s the conformance test.
258      *      @verdict
259      *      fail in case the client doe
    » s not pass the conformance test.
260      *      @verdict
261      *      inconc in case a guard time
    » r expires.
262      */
263      testcase TC_BCAST_ESG_CONF_102()
    » runs on BCastMainComponent system BCastPlatformComponen
    » t {
264          // init components and po
    » rts
265          f_createComponents();
266          f_cf_Broadcast_up();
    »
    » / change 09 (WK 6): set up broadcast channel
267          f_cf_UpperTester_up();
268
269          // preamble
270          f_startCommonUtPreamble()

```

```

248      *      <li>There is a servi
    » ce called "TvChannel" associated with program "Programm
    » el-version2" as well as start and end time values(There
    » is a "TvChannel" that contains "Programmel-version2" s
    » cheduled from startTime to endTime</li>
249      *      </ul>
250      *      </p>
251      *      <p>The following should be
    » visible to the end user after the delivery of the updat
    » ed SG
252      *      <ul>
253      *      <li>There is a servi
    » ce called "TvChannel associated with program "Programme
    » l-version1" as well as start and end time values(There
    » is a "TvChannel" that contains "Programmel-version1" sc
    » heduled from startTime to endTime)).</li>
254      *      </ul>
255      *      </p>
256      *      @verdict
257      *      pass in case the client pas
    » s the conformance test.
258      *      @verdict
259      *      fail in case the client doe
    » s not pass the conformance test.
260      *      @verdict
261      *      inconc in case a guard time
    » r expires.
262      */
263      testcase TC_BCAST_ESG_CONF_102()
    » runs on BCastMainComponent system BCastPlatformComponen
    » t {
264          // init components and po
    » rts
265          f_createComponents();
266          f_cf_Broadcast_up();
    »
    » / change 09 (WK 6): set up broadcast channel
267          f_cf_UpperTester_up();
268
269          // preamble
270          f_startCommonUtPreamble()

```

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(continued)

<pre> 271 » ; 272 273 var ServiceGuideDeliveryU 274 » nit v_SGDU := {}; 275 var UInt32 v_FragmentVers 276 » ion := 1; 277 f_main_ctrl_InitStartEndT 278 » ime(c_one_hour,c_one_hour); / 279 » / change 01 (WK 6): global time definition 280 281 var DateTime v_DateTime_S 282 » tartTime := f_getDateTime(v_startTime); / 283 » / change 01 (WK 6): global time definition 284 var DateTime v_DateTime_E 285 » ndTime := f_getDateTime(v_endTime); / 286 » / change 01 (WK 6): global time definition 287 288 var SdpFragment v_Sdp := 289 » valueof(m_def_SdpFragment(290 PX_SDP_VIDEO_PROG 291 » _1_REF_ID, 292 PX_SDP_VIDEO_PROG 293 » _1 294)); 295 296 var AccessTypeType v_Acce 297 » ssType := valueof(m_def_AccessType_bc_sdp(298 f_getAccessType(P 299 » X_BROADCAST_NETWORK_BEARER), 300 PX_SDP_VIDEO_PROG 301 » _1_REF_ID 302)); 303 304 var ServiceType v_Service 305 » := valueof(m_def_Service(306 PX_SGDU_SERVICE_I 307 » D, 308 v_FragmentVersion 309 » , </pre>	<pre> 271 » ; 272 273 var ServiceGuideDeliveryU 274 » nit v_SGDU := {}; 275 var UInt32 v_FragmentVers 276 » ion := 1; 277 f_main_ctrl_InitStartEndT 278 » ime(c_one_hour,c_one_hour); / 279 » / change 01 (WK 6): global time definition 280 281 var DateTime v_DateTime_S 282 » tartTime := f_getDateTime(v_startTime); / 283 » / change 01 (WK 6): global time definition 284 var DateTime v_DateTime_E 285 » ndTime := f_getDateTime(v_endTime); / 286 » / change 01 (WK 6): global time definition 287 288 var SdpFragment v_Sdp := 289 » valueof(m_def_SdpFragment(290 PX_SDP_VIDEO_PROG 291 » _1_REF_ID, 292 PX_SDP_VIDEO_PROG 293 » _1 294)); 295 296 var AccessTypeType v_Acce 297 » ssType := valueof(m_def_AccessType_bc_sdp(298 f_getAccessType(P 299 » X_BROADCAST_NETWORK_BEARER), 300 PX_SDP_VIDEO_PROG 301 » _1_REF_ID 302)); 303 304 var ServiceType v_Service 305 » := valueof(m_def_Service(306 PX_SGDU_SERVICE_I 307 » D, 308 v_FragmentVersion 309 » , </pre>
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(continued)

```

293         "TvChannel",
294         c_basicTv_Service
    » Type
295         ));
296
297         var ContentType v_Content
    » := valueof(m_def_Content(
298             PX_SGDU_CONTENT_I
    » D_PROG_1,
299             f_IncFragmentVers
    » ion(v_FragmentVersion),
300             "Programme1-versi
    » on2",
301             PX_SGDU_SERVICE_I
    » D,
302             v_DateTime_StartT
    » ime,
303             v_DateTime_EndTim
    » e
304         ));
305
306         var ScheduleType v_Schedu
    » le := valueof(m_def_Schedule(
307             PX_SGDU_SCHEDULE_
    » ID_PROG_1,
308             v_FragmentVersion
    » ,
309             PX_SGDU_SERVICE_I
    » D,
310             PX_SGDU_CONTENT_I
    » D_PROG_1,
311             v_startTime,
    »         // change 01 (WK
    » 6): global time definition
312             v_endTime
    »         // change 01 (WK
    » 6): global time definition
313         ));
314
315         var AccessType v_Access :
    » = valueof(m_def_Access(

```

```

293         "TvChannel",
294         c_basicTv_Service
    » Type
295         ));
296
297         var ContentType v_Content
    » := valueof(m_def_Content(
298             PX_SGDU_CONTENT_I
    » D_PROG_1,
299             f_IncFragmentVers
    » ion(v_FragmentVersion),
300             "Programme1-versi
    » on2",
301             PX_SGDU_SERVICE_I
    » D,
302             v_DateTime_StartT
    » ime,
303             v_DateTime_EndTim
    » e
304         ));
305
306         var ScheduleType v_Schedu
    » le := valueof(m_def_Schedule(
307             PX_SGDU_SCHEDULE_
    » ID_PROG_1,
308             v_FragmentVersion
    » ,
309             PX_SGDU_SERVICE_I
    » D,
310             PX_SGDU_CONTENT_I
    » D_PROG_1,
311             v_startTime,
    »         // change 01 (WK
    » 6): global time definition
312             v_endTime
    »         // change 01 (WK
    » 6): global time definition
313         ));
314
315         var AccessType v_Access :
    » = valueof(m_def_Access(

```

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(continued)

<pre> 316 PX_SGDU_ACCESS_ID 317 » _PROG_1, 318 v_FragmentVersion 319 » , 320 v_AccessType, 321 PX_SGDU_SERVICE_I 322 » D, 323 PX_SGDU_SCHEDULE_ 324 » ID_PROG_1, 325 c_class_SG 326)); 327 328 // CR 26/8: generic funct 329 » ion for adding XML fragments 330 f_addXMLFragment(v_SGDU, 331 » {Service := v_Service}); 332 f_addXMLFragment(v_SGDU, 333 » {Content := v_Content}); 334 f_addXMLFragment(v_SGDU, 335 » {Schedule := v_Schedule}); 336 f_addXMLFragment(v_SGDU, 337 » {Access := v_Access}); 338 f_addSdpFragment(v_SGDU, 339 » v_FragmentVersion, v_Sdp); 340 341 f_main_ctrl_broadcastServ 342 » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (WK 34 343 » /2008): Flute Update Signalling 344 f_main_ut_RunBCastApplica 345 » tion(); 346 if (PX_GET_SG_DISPLAY_MAN 347 » UALLY) { 348 f_main_ut_GetServ 349 » iceGuide(PX_SGDD_ID); 350 } 351 f_main_ut_CheckService("T 352 » vChannel"); 353 f_main_ut_SelectService(" 354 » TvChannel"); 355 f_main_ut_CheckContent("P 356 » rogrammel-version2", v_DateTime_StartTime, v_DateTime_E </pre>	<pre> 316 PX_SGDU_ACCESS_ID 317 » _PROG_1, 318 v_FragmentVersion 319 » , 320 v_AccessType, 321 PX_SGDU_SERVICE_I 322 » D, 323 PX_SGDU_SCHEDULE_ 324 » ID_PROG_1, 325 c_class_SG 326)); 327 328 // CR 26/8: generic funct 329 » ion for adding XML fragments 330 f_addXMLFragment(v_SGDU, 331 » {Service := v_Service}); 332 f_addXMLFragment(v_SGDU, 333 » {Content := v_Content}); 334 f_addXMLFragment(v_SGDU, 335 » {Schedule := v_Schedule}); 336 f_addXMLFragment(v_SGDU, 337 » {Access := v_Access}); 338 f_addSdpFragment(v_SGDU, 339 » v_FragmentVersion, v_Sdp); 340 341 f_main_ctrl_broadcastServ 342 » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (WK 34 343 » /2008): Flute Update Signalling 344 f_main_ut_RunBCastApplica 345 » tion(); 346 if (PX_GET_SG_DISPLAY_MAN 347 » UALLY) { 348 f_main_ut_GetServ 349 » iceGuide(PX_SGDD_ID); 350 } 351 f_main_ut_CheckService("T 352 » vChannel"); 353 f_main_ut_SelectService(" 354 » TvChannel"); 355 f_main_ut_CheckContent("P 356 » rogrammel-version2", v_DateTime_StartTime, v_DateTime_E </pre>
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(continued)

<pre> 339 » ndTime); 340 341 // test behavior 342 vc_BCASTTransportID := 1; 343 // change 07 (WK 6 344 »): in order to send same TransportID 345 vc_FluteUpdateID := vc_Fl 346 uteUpdateID - 1; // CR (WK 34/2008) 347 » : Flute Update Signalling 348 v_SGDU := {}; 349 // change 10 (WK 6 350 »): empty SGDU to avoid multiple content fragments 351 v_Content.version := v_Fr 352 » agmentVersion; 353 v_Content.Names := {{omit 354 » ,"Programme1"}}; 355 // CR 26/8: generic funct 356 » ion for adding XML fragments 357 f_addXMLFragment(v_SGDU, 358 » {Service := v_Service}); // change 359 » 08 (WK 6): SGDU must contain all fragments 360 f_addXMLFragment(v_SGDU, 361 » {Content := v_Content}); 362 f_addXMLFragment(v_SGDU, 363 » {Schedule := v_Schedule}); // change 364 » 08 (WK 6): SGDU must contain all fragments 365 f_addXMLFragment(v_SGDU, 366 » {Access := v_Access}); // change 367 » 08 (WK 6): SGDU must contain all fragments 368 f_addSdpFragment(v_SGDU, 369 » v_FragmentVersion, v_Sdp); // change 08 (WK 6 370 »): SGDU must contain all fragments 371 372 f_main_ctrl_broadcastServ 373 » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (W 374 » K 34/2008): Flute Update Signalling // change 11 375 » (WK 6): reset FLUTE; delivers new SGDU 376 377 if (PX_GET_SG_UPDATE_MANU 378 » ALLY) { 379 380 f_main_ut_UpdatesS </pre>	<pre> 339 » ndTime); 340 341 // test behavior 342 vc_BCASTTransportID := 1; 343 // change 07 (WK 6 344 »): in order to send same TransportID 345 vc_FluteUpdateID := vc_Fl 346 uteUpdateID - 1; // CR (WK 34/2008) 347 » : Flute Update Signalling 348 v_SGDU := {}; 349 // change 10 (WK 6 350 »): empty SGDU to avoid multiple content fragments 351 v_Content.version := v_Fr 352 » agmentVersion; 353 v_Content.Names := {{omit 354 » ,"Programme1"}}; 355 // CR 26/8: generic funct 356 » ion for adding XML fragments 357 f_addXMLFragment(v_SGDU, 358 » {Service := v_Service}); // change 359 » 08 (WK 6): SGDU must contain all fragments 360 f_addXMLFragment(v_SGDU, 361 » {Content := v_Content}); 362 f_addXMLFragment(v_SGDU, 363 » {Schedule := v_Schedule}); // change 364 » 08 (WK 6): SGDU must contain all fragments 365 f_addXMLFragment(v_SGDU, 366 » {Access := v_Access}); // change 367 » 08 (WK 6): SGDU must contain all fragments 368 f_addSdpFragment(v_SGDU, 369 » v_FragmentVersion, v_Sdp); // change 08 (WK 6 370 »): SGDU must contain all fragments 371 372 f_main_ctrl_broadcastServ 373 » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (W 374 » K 34/2008): Flute Update Signalling // change 11 375 » (WK 6): reset FLUTE; delivers new SGDU 376 377 if (PX_GET_SG_UPDATE_MANU 378 » ALLY) { 379 380 f_main_ut_UpdatesS </pre>
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(continued)

```

» serviceGuide();
357         }
358         f_main_ut_CheckService("T
» vChannel");
359         f_main_ut_SelectService("
» TvChannel");
360         f_main_ut_CheckContent("P
» rogrammel-version2", v_DateTime_StartTime, v_DateTime_E
» ndTime);
361
362         // postamble
»
363         f_main_ut_PowerOff();
364
365         f_cf_Broadcast_down();
366         f_cf_UpperTester_down();
367     } // end test case TC_BCAST_ESG_C
» ONF_102
368         // change 39 (WK18): testcase des
» cription extension
369         with {extension "Description: 5.2
» .2 Service Guide update via broadcast channel (same fra
» gment id, lower version number)"}
370
371         /**
372         *
373         * @desc
374         * <p>Service Guide Update wit
» h additional fragments via broadcast channel</p>
375         * <p>Test Case Description</p>
» >
376         * <p>with a terminal having r
» eceived a Service Guide and listening to the broadcast
» Service Guide Delivery Channel.</p>
377         * <p>when the terminal receiv
» es an updated Service Guide containing an additional c
» ontent fragment</p>
378         * <p>then the terminal presen
» ts the information of the updated Service Guide</p>
379         * <p>Specification Reference<
» /p>

```

```

» serviceGuide();
357         }
358         f_main_ut_CheckService("T
» vChannel");
359         f_main_ut_SelectService("
» TvChannel");
360         f_main_ut_CheckContent("P
» rogrammel-version2", v_DateTime_StartTime, v_DateTime_E
» ndTime);
361
362         // postamble
»
363         f_main_ut_PowerOff();
364
365         f_cf_Broadcast_down();
366         f_cf_UpperTester_down();
367     } // end test case TC_BCAST_ESG_C
» ONF_102
368         // change 39 (WK18): testcase des
» cription extension
369         with {extension "Description: 5.2
» .2 Service Guide update via broadcast channel (same fra
» gment id, lower version number)"}
370
371         /**
372         *
373         * @desc
374         * <p>Service Guide Update wit
» h additional fragments via broadcast channel</p>
375         * <p>Test Case Description</p>
» >
376         * <p>with a terminal having r
» eceived a Service Guide and listening to the broadcast
» Service Guide Delivery Channel.</p>
377         * <p>when the terminal receiv
» es an updated Service Guide containing an additional c
» ontent fragment</p>
378         * <p>then the terminal presen
» ts the information of the updated Service Guide</p>
379         * <p>Specification Reference<
» /p>

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(continued)

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380      *      <p>[BCAST10-ESG] Section 5.
» 4.2.1.1, 5.5 1st bullet item</p>
381      *      <p>Preconditions</p>
382      *      <p>Service guide cache of t
» eriminal is erased</p>
383      *      <p>Terminal is configured t
» o listen to BCAST service guide announcements and deliv
» ery on the broadcast channel</p>
384      *      <p>Access point information
» for service guide entry point is configured in test to
» ol</p>
385      *      <p>This test case uses the
» following SG fragment instantiations found in the Appen
» dix:</p>
386      *      <p>Initial service guide:
387      *      <ul>
388      *      <li>Service fragment
» with Name="TvChannel"</li>
389      *      <li>Content fragment
» with Name="Programmel" , and StartTime and EndTime ele
» ments indicating values after the time of test</li>
390      *      <li>Schedule fragmen
» t for content fragment with same values for startTime a
» nd endTime in the presentationWindow element</li>
391      *      <li>Access fragment
» for schedule fragment with BroadcastServiceDelivery ele
» ment and reference to "Programmel" session description
» fragment</li>
392      *      <li>Session descript
» ion fragment for "Programmel"</li>
393      *      </ul>
394      *      </p>
395      *      <p>Updated service guide:
396      *      <ul>
397      *      <li>Service fragment
» with Name="TvChannel"</li>
398      *      <li>Content fragment
» with Name="Programmel" , and StartTime and EndTime ele
» ments indicating values after the time of test</li>
399      *      <li>Schedule fragmen
» t for "Programmel" content fragment with same values fo

```

```

380      *      <p>[BCAST10-ESG] Section 5.
» 4.2.1.1, 5.5 1st bullet item</p>
381      *      <p>Preconditions</p>
382      *      <p>Service guide cache of t
» eriminal is erased</p>
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» o listen to BCAST service guide announcements and deliv
» ery on the broadcast channel</p>
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» following SG fragment instantiations found in the Appen
» dix:</p>
386      *      <p>Initial service guide:
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» with Name="TvChannel"</li>
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» with Name="Programmel" , and StartTime and EndTime ele
» ments indicating values after the time of test</li>
390      *      <li>Schedule fragmen
» t for content fragment with same values for startTime a
» nd endTime in the presentationWindow element</li>
391      *      <li>Access fragment
» for schedule fragment with BroadcastServiceDelivery ele
» ment and reference to "Programmel" session description
» fragment</li>
392      *      <li>Session descript
» ion fragment for "Programmel"</li>
393      *      </ul>
394      *      </p>
395      *      <p>Updated service guide:
396      *      <ul>
397      *      <li>Service fragment
» with Name="TvChannel"</li>
398      *      <li>Content fragment
» with Name="Programmel" , and StartTime and EndTime ele
» ments indicating values after the time of test</li>
399      *      <li>Schedule fragmen
» t for "Programmel" content fragment with same values fo

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(continued)

<pre> 400 » r startTime and endTime in the presentationWindow eleme » nt * Access fragment » for "Programme1" schedule fragment with BroadcastServic » eDelivery element and a reference to "Programme1" sessi » on description fragment 401 * Session descript » ion fragment for "Programme1" 402 * Content fragment » with Name="Programme2" , and different StartTime and E » ndTime elements indicating values after the time of tes » t 403 * Schedule fragmen » t for "Programme2" content fragment with same different » values for startTime and endTime in the presentationWi » ndow element 404 * Access fragment » for "Programme2" schedule fragment with BroadcastServic » eDelivery element and reference to "Programme2" session » description fragment 405 * Session descript » ion fragment for "Programme2" 406 * 407 * </p> 408 * <p>Note: All the fragments » are associated with the same Service fragment and are s » ent in the same service guide delivery.</p> 409 * <p>Test Procedure</p> 410 * <p> 411 * 412 * Set up the test » tool to produce initial BCAST service guide announcemen » t and delivery using broadcast channel. 413 * Activate the BCA » ST application of the terminal 414 * Request from BCA » ST application on terminal to get the service guide (op » tional) 415 * Browse the SG on » the terminal 416 * Set up the test </pre>	<pre> » r startTime and endTime in the presentationWindow eleme » nt * Access fragment 400 » for "Programme1" schedule fragment with BroadcastServic » eDelivery element and a reference to "Programme1" sessi » on description fragment 401 * Session descript » ion fragment for "Programme1" 402 * Content fragment » with Name="Programme2" , and different StartTime and E » ndTime elements indicating values after the time of tes » t 403 * Schedule fragmen » t for "Programme2" content fragment with same different » values for startTime and endTime in the presentationWi » ndow element 404 * Access fragment » for "Programme2" schedule fragment with BroadcastServic » eDelivery element and reference to "Programme2" session » description fragment 405 * Session descript » ion fragment for "Programme2" 406 * 407 * </p> 408 * <p>Note: All the fragments » are associated with the same Service fragment and are s » ent in the same service guide delivery.</p> 409 * <p>Test Procedure</p> 410 * <p> 411 * 412 * Set up the test » tool to produce initial BCAST service guide announcemen » t and delivery using broadcast channel. 413 * Activate the BCA » ST application of the terminal 414 * Request from BCA » ST application on terminal to get the service guide (op » tional) 415 * Browse the SG on » the terminal 416 * Set up the test </pre>
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<pre> 417 » tool to produce updated BCAST service guide announcemen » t and delivery using broadcast channel. * Request from BCA 418 » ST application on terminal to update the service guide » (optional) * Browse the SG on 419 » the terminal * 420 * </p> 421 * <p>Pass-Criteria</p> 422 * <p>The following should be » visible to the end user after the initial delivery of t » he SG 423 * 424 * There is a servi » ce "TvChannel" associated with a program "Programm1" a » s well as start and end time values(There is a "TvChann » el" that contains "Programm1" scheduled from startTime » to endTime) 425 * 426 * </p> 427 * <p>The following should be » visible to the end user after the delivery of the updat » ed SG 428 * 429 * There is a servi » ce "TvChannel" associated with programs "Programm1" an » d "Programme2" as well as different start and end time » values(There is a "TvChannel" that contains "Programm1 » " and "Programme2" scheduled from different startTime t » o endTimes) 430 * 431 * </p> 432 * @verdict 433 * pass in case the client pas » s the conformance test. 434 * @verdict 435 * fail in case the client doe » s not pass the conformance test. 436 * @verdict 437 * inconc in case a guard time </pre>	<pre> » tool to produce updated BCAST service guide announcemen » t and delivery using broadcast channel. 417 * Request from BCA » ST application on terminal to update the service guide » (optional) 418 * Browse the SG on » the terminal 419 * 420 * </p> 421 * <p>Pass-Criteria</p> 422 * <p>The following should be » visible to the end user after the initial delivery of t » he SG 423 * 424 * There is a servi » ce "TvChannel" associated with a program "Programm1" a » s well as start and end time values(There is a "TvChann » el" that contains "Programm1" scheduled from startTime » to endTime) 425 * 426 * </p> 427 * <p>The following should be » visible to the end user after the delivery of the updat » ed SG 428 * 429 * There is a servi » ce "TvChannel" associated with programs "Programm1" an » d "Programme2" as well as different start and end time » values(There is a "TvChannel" that contains "Programm1 » " and "Programme2" scheduled from different startTime t » o endTimes) 430 * 431 * </p> 432 * @verdict 433 * pass in case the client pas » s the conformance test. 434 * @verdict 435 * fail in case the client doe » s not pass the conformance test. 436 * @verdict 437 * inconc in case a guard time </pre>
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(continued)

<pre> 438 » r expires. 439 */ 439 testcase TC_BCAST_ESG_CONF_103() » runs on BCastMainComponent system BCastPlatformComponen » t { 440 // init components and po 441 » rts 442 f_createComponents(); 442 f_cf_Broadcast_up(); 443 f_cf_UpperTester_up(); 444 445 // preamble 446 f_startCommonUtPreamble() 447 » ; 448 448 var ServiceGuideDeliveryU 449 » nit v_SGDU := {}; 449 var UInt32 v_FragmentVers 450 » ion := 1; 451 451 f_main_ctrl_InitStartEndT 452 » ime(c_one_hour,c_one_hour); 452 » / change 01 (WK 6): global time definition 453 453 » 453 var DateTime v_DateTime_S 454 » tartTime := f_getDateTime(v_startTime); 454 » / change 01 (WK 6): global time definition 454 var DateTime v_DateTime_E 455 » ndTime := f_getDateTime(v_endTime); 455 » / change 01 (WK 6): global time definition 456 var DateTime v_DateTime_S 457 » tartTime2 := ""; 458 var DateTime v_DateTime_E 459 » ndTime2 := ""; 460 460 var SdpFragment v_Sdp := 461 » valueof(m_def_SdpFragment(462 PX_SDP_VIDEO_PROG 463 » _1_REF_ID, 464 PX_SDP_VIDEO_PROG </pre>	<pre> 438 » r expires. 439 */ 439 testcase TC_BCAST_ESG_CONF_103() » runs on BCastMainComponent system BCastPlatformComponen » t { 440 // init components and po 441 » rts 442 f_createComponents(); 442 f_cf_Broadcast_up(); 443 f_cf_UpperTester_up(); 444 445 // preamble 446 f_startCommonUtPreamble() 447 » ; 448 448 var ServiceGuideDeliveryU 449 » nit v_SGDU := {}; 449 var UInt32 v_FragmentVers 450 » ion := 1; 451 451 f_main_ctrl_InitStartEndT 452 » ime(c_one_hour,c_one_hour); 452 » / change 01 (WK 6): global time definition 453 453 » 453 var DateTime v_DateTime_S 454 » tartTime := f_getDateTime(v_startTime); 454 » / change 01 (WK 6): global time definition 454 var DateTime v_DateTime_E 455 » ndTime := f_getDateTime(v_endTime); 455 » / change 01 (WK 6): global time definition 456 var DateTime v_DateTime_S 457 » tartTime2 := ""; 458 var DateTime v_DateTime_E 459 » ndTime2 := ""; 460 460 var SdpFragment v_Sdp := 461 » valueof(m_def_SdpFragment(462 PX_SDP_VIDEO_PROG 463 » _1_REF_ID, 464 PX_SDP_VIDEO_PROG </pre>
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(continued)

<pre> 461 » _1 462)); 463 var AccessTypeType v_Acce 464 » ssType := valueof(m_def_AccessType_bc_sdp(465 » f_getAccessType(P 466 » X_BROADCAST_NETWORK_BEARER), 467 » PX_SDP_VIDEO_PROG 468 » _1_REF_ID 469)); 470 var ServiceType v_Service 471 » := valueof(m_def_Service(472 » PX_SGDU_SERVICE_I 473 » D, 474 » v_FragmentVersion 475 » , 476 » "TvChannel", 477 » c_basicTv_Service 478 » Type 479)); 480 var ContentType v_Content 481 » := valueof(m_def_Content(482 » PX_SGDU_CONTENT_I 483 » D_PROG_1, 484 » v_FragmentVersion 485 » , 486 » "Programmel", 487 » PX_SGDU_SERVICE_I 488 » D, 489 » v_DateTime_StartT 490 » ime, 491 » v_DateTime_EndTim 492 » e 493)); 494 var ScheduleType v_Schedu 495 » le := valueof(m_def_Schedule(496 » PX_SGDU_SCHEDULE_ 497 » ID_PROG_1,</pre>	<pre> 461 » _1 462)); 463 var AccessTypeType v_Acce 464 » ssType := valueof(m_def_AccessType_bc_sdp(465 » f_getAccessType(P 466 » X_BROADCAST_NETWORK_BEARER), 467 » PX_SDP_VIDEO_PROG 468 » _1_REF_ID 469)); 470 var ServiceType v_Service 471 » := valueof(m_def_Service(472 » PX_SGDU_SERVICE_I 473 » D, 474 » v_FragmentVersion 475 » , 476 » "TvChannel", 477 » c_basicTv_Service 478 » Type 479)); 480 var ContentType v_Content 481 » := valueof(m_def_Content(482 » PX_SGDU_CONTENT_I 483 » D_PROG_1, 484 » v_FragmentVersion 485 » , 486 » "Programmel", 487 » PX_SGDU_SERVICE_I 488 » D, 489 » v_DateTime_StartT 490 » ime, 491 » v_DateTime_EndTim 492 » e 493)); 494 var ScheduleType v_Schedu 495 » le := valueof(m_def_Schedule(496 » PX_SGDU_SCHEDULE_ 497 » ID_PROG_1,</pre>
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(continued)

<pre> 486 v_FragmentVersion 487 » , 488 PX_SGDU_SERVICE_I 489 » D, 490 PX_SGDU_CONTENT_I 491 » D_PROG_1, 492 v_startTime, 493 // change 01 (494 » WK 6): global time definition 495 v_endTime 496 // change 01 (497 » WK 6): global time definition 498)); 499 500 var AccessType v_Access : 501 » = valueof(m_def_Access(502 PX_SGDU_ACCESS_ID 503 » _PROG_1, 504 v_FragmentVersion 505 » , 506 v_AccessType, 507 PX_SGDU_SERVICE_I 508 » D, 509 PX_SGDU_SCHEDULE_ 510 » ID_PROG_1, 511 c_class_SG 512)); 513 514 // CR 26/8: generic funct 515 » ion for adding XML fragments 516 f_addXMLFragment(v_SGDU, 517 » {Service := v_Service}); 518 f_addXMLFragment(v_SGDU, 519 » {Content := v_Content}); 520 f_addXMLFragment(v_SGDU, 521 » {Schedule := v_Schedule}); 522 f_addXMLFragment(v_SGDU, 523 » {Access := v_Access}); 524 f_addSdpFragment(v_SGDU, 525 » v_FragmentVersion, v_Sdp); 526 </pre>	<pre> 486 v_FragmentVersion 487 » , 488 PX_SGDU_SERVICE_I 489 » D, 490 PX_SGDU_CONTENT_I 491 » D_PROG_1, 492 v_startTime, 493 // change 01 (494 » WK 6): global time definition 495 v_endTime 496 // change 01 (497 » WK 6): global time definition 498)); 499 500 var AccessType v_Access : 501 » = valueof(m_def_Access(502 PX_SGDU_ACCESS_ID 503 » _PROG_1, 504 v_FragmentVersion 505 » , 506 v_AccessType, 507 PX_SGDU_SERVICE_I 508 » D, 509 PX_SGDU_SCHEDULE_ 510 » ID_PROG_1, 511 c_class_SG 512)); 513 514 // CR 26/8: generic funct 515 » ion for adding XML fragments 516 f_addXMLFragment(v_SGDU, 517 » {Service := v_Service}); 518 f_addXMLFragment(v_SGDU, 519 » {Content := v_Content}); 520 f_addXMLFragment(v_SGDU, 521 » {Schedule := v_Schedule}); 522 f_addXMLFragment(v_SGDU, 523 » {Access := v_Access}); 524 f_addSdpFragment(v_SGDU, 525 » v_FragmentVersion, v_Sdp); 526 </pre>
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```

509         f_main_ctrl_broadcastServ
    » iceGuide(v_SGDU, omit, vc_FluteUpdateID);          //
    » CR (WK 34/2008): Flute Update Signalling
510         f_main_ut_RunBCastApplica
    » tion();
511         if (PX_GET_SG_DISPLAY_MAN
    » UALLY) {
512         f_main_ut_GetServ
    » iceGuide(PX_SGDD_ID);
513         }
514         f_main_ut_CheckService("T
    » vChannel");
515         f_main_ut_SelectService("
    » TvChannel");
516         f_main_ut_CheckContent("P
    » rogrammel", v_DateTime_StartTime, v_DateTime_EndTime);
517         // test behavior
518         // change 9 (WK18): corre
519         » ctions in start/stop time for additional program
520         v_startTime := v_endTime;
521         v_endTime := v_endTime +
    » c_one_hour;
522
523         v_DateTime_StartTime2 :=
    » f_getDateTime(v_startTime);
    »         // change 01 (WK 6): global time definition
524         v_DateTime_EndTime2 := f_
    » getDateTime(v_endTime);
    »         // change 01 (WK 6): global time definition
525
526         v_Sdp := valueof(m_def_Sd
    » pFragment(
527         PX_SDP_VIDEO_PROG
    » _2_REF_ID,
528         PX_SDP_VIDEO_PROG
    » _2
529         ));
530
531         v_AccessType := valueof(m
    » _def_AccessType_bc_sdp(

```

```

509         f_main_ctrl_broadcastServ
    » iceGuide(v_SGDU, omit, vc_FluteUpdateID);          //
    » CR (WK 34/2008): Flute Update Signalling
510         f_main_ut_RunBCastApplica
    » tion();
511         if (PX_GET_SG_DISPLAY_MAN
    » UALLY) {
512         f_main_ut_GetServ
    » iceGuide(PX_SGDD_ID);
513         }
514         f_main_ut_CheckService("T
    » vChannel");
515         f_main_ut_SelectService("
    » TvChannel");
516         f_main_ut_CheckContent("P
    » rogrammel", v_DateTime_StartTime, v_DateTime_EndTime);
517         // test behavior
518         // change 9 (WK18): corre
519         » ctions in start/stop time for additional program
520         v_startTime := v_endTime;
521         v_endTime := v_endTime +
    » c_one_hour;
522
523         v_DateTime_StartTime2 :=
    » f_getDateTime(v_startTime);
    »         // change 01 (WK 6): global time definition
524         v_DateTime_EndTime2 := f_
    » getDateTime(v_endTime);
    »         // change 01 (WK 6): global time definition
525
526         v_Sdp := valueof(m_def_Sd
    » pFragment(
527         PX_SDP_VIDEO_PROG
    » _2_REF_ID,
528         PX_SDP_VIDEO_PROG
    » _2
529         ));
530
531         v_AccessType := valueof(m
    » _def_AccessType_bc_sdp(

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<pre> 532 » X_BROADCAST_NETWORK_BEARER), 533 » _2_REF_ID 534)); 535 v_Content := valueof(m_de 536 » f_Content(537 PX_SGDU_CONTENT_I 538 » D_PROG_2, 539 v_FragmentVersion 540 » , 541 "Programme2", 542 PX_SGDU_SERVICE_I 543 » D, 544 v_DateTime_StartT 545 » ime2, 546 v_DateTime_EndTim 547 » e2 548)); 549 v_Schedule := valueof(m_d 550 » ef_Schedule(551 PX_SGDU_SCHEDULE_ 552 » ID_PROG_2, 553 v_FragmentVersion 554 » , 555 PX_SGDU_SERVICE_I 556 » D, 557 PX_SGDU_CONTENT_I 558 v_startTime, 559 // change 01 (WK 6) 560 » : global time definition 561 v_endTime 562 // change 01 (WK 6) 563 » : global time definition 564)); 565 v_Access := valueof(m_def 566 » _Access(</pre>	<pre> 532 » X_BROADCAST_NETWORK_BEARER), 533 » _2_REF_ID 534)); 535 v_Content := valueof(m_de 536 » f_Content(537 PX_SGDU_CONTENT_I 538 » D_PROG_2, 539 v_FragmentVersion 540 » , 541 "Programme2", 542 PX_SGDU_SERVICE_I 543 » D, 544 v_DateTime_StartT 545 » ime2, 546 v_DateTime_EndTim 547 » e2 548)); 549 v_Schedule := valueof(m_d 550 » ef_Schedule(551 PX_SGDU_SCHEDULE_ 552 » ID_PROG_2, 553 v_FragmentVersion 554 » , 555 PX_SGDU_SERVICE_I 556 » D, 557 PX_SGDU_CONTENT_I 558 v_startTime, 559 // change 01 (WK 6) 560 » : global time definition 561 v_endTime 562 // change 01 (WK 6) 563 » : global time definition 564)); 565 v_Access := valueof(m_def 566 » _Access(</pre>	<pre> 532 » X_BROADCAST_NETWORK_BEARER), 533 » _2_REF_ID 534)); 535 v_Content := valueof(m_de 536 » f_Content(537 PX_SGDU_CONTENT_I 538 » D_PROG_2, 539 v_FragmentVersion 540 » , 541 "Programme2", 542 PX_SGDU_SERVICE_I 543 » D, 544 v_DateTime_StartT 545 » ime2, 546 v_DateTime_EndTim 547 » e2 548)); 549 v_Schedule := valueof(m_d 550 » ef_Schedule(551 PX_SGDU_SCHEDULE_ 552 » ID_PROG_2, 553 v_FragmentVersion 554 » , 555 PX_SGDU_SERVICE_I 556 » D, 557 PX_SGDU_CONTENT_I 558 v_startTime, 559 // change 01 (WK 6) 560 » : global time definition 561 v_endTime 562 // change 01 (WK 6) 563 » : global time definition 564)); 565 v_Access := valueof(m_def 566 » _Access(</pre>
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<pre> 555 PX_SGDU_ACCESS_ID 556 » _PROG_2, 557 v_FragmentVersion 558 » , 559 v_AccessType, 560 PX_SGDU_SERVICE_I 561 » D, 562 PX_SGDU_SCHEDULE_ 563 » ID_PROG_2, 564 c_class_SG 565)); 566 // v_SGDU := {}; 567 // change 12 (WK 6): SGD 568 » U must contain additional fragments for 'Programme2' 569 vc_FluteUpdateID := vc_Fl 570 » uteUpdateID + 1; 571 // CR (WK 34/2008): Flut 572 » e Update Signalling 573 574 // CR 26/8: generic funct 575 » ion for adding XML fragments 576 f_addXMLFragment(v_SGDU, 577 » {Content := v_Content}); 578 f_addXMLFragment(v_SGDU, 579 » {Schedule := v_Schedule}); 580 f_addXMLFragment(v_SGDU, 581 » {Access := v_Access}); 582 f_addSdpFragment(v_SGDU, 583 » v_FragmentVersion, v_Sdp); 584 f_main_ctrl_broadcastServ 585 » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (W 586 » K 34/2008): Flute Update Signalling 587 588 if (PX_GET_SG_UPDATE_MANU 589 » ALLY) { 590 f_main_ut_UpdatesS 591 » erviceGuide(); 592 } 593 f_main_ut_CheckService("T 594 » vChannel"); </pre>	<pre> 555 PX_SGDU_ACCESS_ID 556 » _PROG_2, 557 v_FragmentVersion 558 » , 559 v_AccessType, 560 PX_SGDU_SERVICE_I 561 » D, 562 PX_SGDU_SCHEDULE_ 563 » ID_PROG_2, 564 c_class_SG 565)); 566 // v_SGDU := {}; 567 // change 12 (WK 6): SGD 568 » U must contain additional fragments for 'Programme2' 569 vc_FluteUpdateID := vc_Fl 570 » uteUpdateID + 1; 571 // CR (WK 34/2008): Flut 572 » e Update Signalling 573 574 // CR 26/8: generic funct 575 » ion for adding XML fragments 576 f_addXMLFragment(v_SGDU, 577 » {Content := v_Content}); 578 f_addXMLFragment(v_SGDU, 579 » {Schedule := v_Schedule}); 580 f_addXMLFragment(v_SGDU, 581 » {Access := v_Access}); 582 f_addSdpFragment(v_SGDU, 583 » v_FragmentVersion, v_Sdp); 584 f_main_ctrl_broadcastServ 585 » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (W 586 » K 34/2008): Flute Update Signalling 587 588 if (PX_GET_SG_UPDATE_MANU 589 » ALLY) { 590 f_main_ut_UpdatesS 591 » erviceGuide(); 592 } 593 f_main_ut_CheckService("T 594 » vChannel"); </pre>
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(continued)

```

578         f_main_ut_SelectService("
» TvChannel");
579         f_main_ut_CheckContent("P
» rogrammel", v_DateTime_StartTime, v_DateTime_EndTime);
580         f_main_ut_CheckContent("P
» rogramme2", v_DateTime_StartTime2, v_DateTime_EndTime2)
» ;
581
582         // postamble
»
583         f_main_ut_PowerOff();
584
585         f_cf_Broadcast_down();
586         f_cf_UpperTester_down();
587     }// end test case TC_BCAST_ESG_CO
» NF_103
588         // change 39 (WK18): testcase des
» cription extension
589         with {extension "Description: 5.2
» .3 Service Guide Update with additional fragments via b
» roadcast channel"}
590
591         /**
592         *
593         * @desc
594         * <p>GZIP compression of Serv
» ice Guide Delivery Unit on broadcast channel</p>
595         * <p>Test Case Description</p>
» >
596         * <p>with a terminal listenin
» g to the broadcast Service Guide Delivery Channel.</p>
597         * <p>when the terminal receiv
» es a GZIP compressed Service Guide</p>
598         * <p>then the terminal presen
» ts the information of the Service Guide</p>
599         * <p>Specification Reference<
» /p>
600         * <p>[BCAST10-ESG] Section 5.
» 4.1.4.</p>
601         * <p>Preconditions</p>
602         * <p>Service guide cache of t

```

```

578         f_main_ut_SelectService("
» TvChannel");
579         f_main_ut_CheckContent("P
» rogrammel", v_DateTime_StartTime, v_DateTime_EndTime);
580         f_main_ut_CheckContent("P
» rogramme2", v_DateTime_StartTime2, v_DateTime_EndTime2)
» ;
581
582         // postamble
»
583         f_main_ut_PowerOff();
584
585         f_cf_Broadcast_down();
586         f_cf_UpperTester_down();
587     }// end test case TC_BCAST_ESG_CO
» NF_103
588         // change 39 (WK18): testcase des
» cription extension
589         with {extension "Description: 5.2
» .3 Service Guide Update with additional fragments via b
» roadcast channel"}
590
591         /**
592         *
593         * @desc
594         * <p>GZIP compression of Serv
» ice Guide Delivery Unit on broadcast channel</p>
595         * <p>Test Case Description</p>
» >
596         * <p>with a terminal listenin
» g to the broadcast Service Guide Delivery Channel.</p>
597         * <p>when the terminal receiv
» es a GZIP compressed Service Guide</p>
598         * <p>then the terminal presen
» ts the information of the Service Guide</p>
599         * <p>Specification Reference<
» /p>
600         * <p>[BCAST10-ESG] Section 5.
» 4.1.4.</p>
601         * <p>Preconditions</p>
602         * <p>Service guide cache of t

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(continued)

```

603 » ermental is erased</p>
        *      <p>Terminal is configured t
        » o listen to BCAST service guide announcements and deliv
        » ery on the broadcast channel</p>
604        *      <p>Access point information
        » for service guide entry point is configured in test to
        » ol</p>
605        *      <p>This test cases uses the
        » following SG fragment instantiations found in the Appe
        » ndix:
606                *      <ul>
607                *      <li>Service fragment
        » with Name="TvChannel"</li>
608                *      <li>Content fragment
        » with Name="Programmel"</li>
609                *      <li>Schedule fragmen
        » t for content fragment</li>
610                *      <li>Access fragment
        » for schedule fragment</li>
611                *      </ul>
612                *      </p>
613                *      <p>All fragments are packag
        » ed in one SGDU, which is GZIP compressed.</p>
614                *      <p>Note: All the fragments
        » are associated with the same Service fragment and are s
        » ent in the same service guide delivery.</p>
615                *      <p>Test Procedure</p>
616                *      <p>
617                *      <ul>
618                *      <li>Set up the test
        » tool to produce BCAST service guide announcement and de
        » livery using broadcast channel.</li>
619                *      <li>Activate the BCA
        » ST application of the terminal</li>
620                *      <li>Request from BCA
        » ST application on terminal to get the service guide (op
        » tional)</li>
621                *      <li>Browse the SG on
        » the terminal</li>
622                *      </ul>
623                *      </p>

```

```

603 » ermental is erased</p>
        *      <p>Terminal is configured t
        » o listen to BCAST service guide announcements and deliv
        » ery on the broadcast channel</p>
604        *      <p>Access point information
        » for service guide entry point is configured in test to
        » ol</p>
605        *      <p>This test cases uses the
        » following SG fragment instantiations found in the Appe
        » ndix:
606                *      <ul>
607                *      <li>Service fragment
        » with Name="TvChannel"</li>
608                *      <li>Content fragment
        » with Name="Programmel"</li>
609                *      <li>Schedule fragmen
        » t for content fragment</li>
610                *      <li>Access fragment
        » for schedule fragment</li>
611                *      </ul>
612                *      </p>
613                *      <p>All fragments are packag
        » ed in one SGDU, which is GZIP compressed.</p>
614                *      <p>Note: All the fragments
        » are associated with the same Service fragment and are s
        » ent in the same service guide delivery.</p>
615                *      <p>Test Procedure</p>
616                *      <p>
617                *      <ul>
618                *      <li>Set up the test
        » tool to produce BCAST service guide announcement and de
        » livery using broadcast channel.</li>
619                *      <li>Activate the BCA
        » ST application of the terminal</li>
620                *      <li>Request from BCA
        » ST application on terminal to get the service guide (op
        » tional)</li>
621                *      <li>Browse the SG on
        » the terminal</li>
622                *      </ul>
623                *      </p>

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(continued)

```

624          *      <p>Pass-Criteria</p>
625          *      <p></p>
626          *      <p></p>
627          *      <p>The following should be
» visible to the end user
628          *      <ul>
629          *          <li>There is a servi
» ce "TvChannel" associated with programme "Programme1"(T
» here is a "TvChannel" that contains "Programme1")</li>
630          *      </ul>
631          *      <p>
632          *      @verdict
633          *      pass in case the client pas
» s the conformance test.
634          *      @verdict
635          *      fail in case the client doe
» s not pass the conformance test.
636          *      @verdict
637          *      inconc in case a guard time
» r expires.
638          */
639          testcase TC_BCAST_ESG_CONF_104()
» runs on BCastMainComponent system BCastPlatformComponen
» t {
640          // init components and po
» rts
641          f_createComponents();
642          f_cf_Broadcast_up();
643          f_cf_UpperTester_up();
644
645          f_startCommonUtPreamble()
» ;
646
647          // test behavior
648          var ServiceGuideDeliveryU
» nit v_SGDU := {};
649          var UInt32 v_Version := 1
» ;
650
651          f_main_ctrl_InitStartEndT
» ime(c_one_hour,c_one_hour);

```

```

624          *      <p>Pass-Criteria</p>
625          *      <p></p>
626          *      <p></p>
627          *      <p>The following should be
» visible to the end user
628          *      <ul>
629          *          <li>There is a servi
» ce "TvChannel" associated with programme "Programme1"(T
» here is a "TvChannel" that contains "Programme1")</li>
630          *      </ul>
631          *      <p>
632          *      @verdict
633          *      pass in case the client pas
» s the conformance test.
634          *      @verdict
635          *      fail in case the client doe
» s not pass the conformance test.
636          *      @verdict
637          *      inconc in case a guard time
» r expires.
638          */
639          testcase TC_BCAST_ESG_CONF_104()
» runs on BCastMainComponent system BCastPlatformComponen
» t {
640          // init components and po
» rts
641          f_createComponents();
642          f_cf_Broadcast_up();
643          f_cf_UpperTester_up();
644
645          f_startCommonUtPreamble()
» ;
646
647          // test behavior
648          var ServiceGuideDeliveryU
» nit v_SGDU := {};
649          var UInt32 v_Version := 1
» ;
650
651          f_main_ctrl_InitStartEndT
» ime(c_one_hour,c_one_hour);

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(continued)

```

»          // change 01 (WK 6): global time definition
652
653          var DateTime v_DateTime_S
» tartTime := f_getDateTime(v_startTime);
»          // change 01 (WK 6): global time definition
654          var DateTime v_DateTime_E
» ndTime := f_getDateTime(v_endTime);
»          // change 01 (WK 6): global time definition
655
656          var SdpFragment v_Sdp :=
» valueof(m_def_SdpFragment(
657                      PX_SDP_VIDEO_PROG
» _1_REF_ID,
658                      PX_SDP_VIDEO_PROG
» _1
659                      ));
660
661          var AccessTypeType v_Acce
» ssType := valueof(m_def_AccessType_bc_sdp(
662                      f_getAccessType(P
» X_BROADCAST_NETWORK_BEARER),
663                      PX_SDP_VIDEO_PROG
» _1_REF_ID
664                      ));
665
666          var ServiceType v_Service
» := valueof(m_def_Service(
667                      PX_SGDU_SERVICE_I
» D,
668                      v_Version,
669                      "TvChannel",
670                      c_basicTv_Service
» Type
671                      ));
672
673          var ContentType v_Content
» := valueof(m_def_Content(
674                      PX_SGDU_CONTENT_I
» D_PROG_1,
675                      v_Version,
676                      "Programme1",

```

```

»          // change 01 (WK 6): global time definition
652
653          var DateTime v_DateTime_S
» tartTime := f_getDateTime(v_startTime);
»          // change 01 (WK 6): global time definition
654          var DateTime v_DateTime_E
» ndTime := f_getDateTime(v_endTime);
»          // change 01 (WK 6): global time definition
655
656          var SdpFragment v_Sdp :=
» valueof(m_def_SdpFragment(
657                      PX_SDP_VIDEO_PROG
» _1_REF_ID,
658                      PX_SDP_VIDEO_PROG
» _1
659                      ));
660
661          var AccessTypeType v_Acce
» ssType := valueof(m_def_AccessType_bc_sdp(
662                      f_getAccessType(P
» X_BROADCAST_NETWORK_BEARER),
663                      PX_SDP_VIDEO_PROG
» _1_REF_ID
664                      ));
665
666          var ServiceType v_Service
» := valueof(m_def_Service(
667                      PX_SGDU_SERVICE_I
» D,
668                      v_Version,
669                      "TvChannel",
670                      c_basicTv_Service
» Type
671                      ));
672
673          var ContentType v_Content
» := valueof(m_def_Content(
674                      PX_SGDU_CONTENT_I
» D_PROG_1,
675                      v_Version,
676                      "Programme1",

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(continued)

<pre> 677 PX_SGDU_SERVICE_I 678 » D, 679 v_DateTime_StartT 680 » ime, 681 v_DateTime_EndTim 682 » e 683)); 684 var ScheduleType v_Schedu 685 » le := valueof(m_def_Schedule(686 PX_SGDU_SCHEDULE_ 687 » ID_PROG_1, 688 v_Version, 689 PX_SGDU_SERVICE_I 690 » D, 691 PX_SGDU_CONTENT_I 692 » D_PROG_1, 693 v_startTime, 694 // change 01 (WK 6) 695 » : global time definition 696 v_endTime 697 » // change 01 (WK 6) 698 » : global time definition 699)); 700 var AccessType v_Access : 701 » = valueof(m_def_Access(702 PX_SGDU_ACCESS_ID 703 » _PROG_1, 704 v_Version, 705 v_AccessType, 706 PX_SGDU_SERVICE_I 707 » D, 708 PX_SGDU_SCHEDULE_ 709 » ID_PROG_1, 710 c_class_SG 711)); 712 // CR 26/8: generic funct 713 » ion for adding XML fragments 714 f_addXMLFragment(v_SGDU,</pre>	<pre> 677 PX_SGDU_SERVICE_I 678 » D, 679 v_DateTime_StartT 680 » ime, 681 v_DateTime_EndTim 682 » e 683)); 684 var ScheduleType v_Schedu 685 » le := valueof(m_def_Schedule(686 PX_SGDU_SCHEDULE_ 687 » ID_PROG_1, 688 v_Version, 689 PX_SGDU_SERVICE_I 690 » D, 691 PX_SGDU_CONTENT_I 692 » D_PROG_1, 693 v_startTime, 694 // change 01 (WK 6) 695 » : global time definition 696 v_endTime 697 » // change 01 (WK 6) 698 » : global time definition 699)); 700 var AccessType v_Access : 701 » = valueof(m_def_Access(702 PX_SGDU_ACCESS_ID 703 » _PROG_1, 704 v_Version, 705 v_AccessType, 706 PX_SGDU_SERVICE_I 707 » D, 708 PX_SGDU_SCHEDULE_ 709 » ID_PROG_1, 710 c_class_SG 711)); 712 // CR 26/8: generic funct 713 » ion for adding XML fragments 714 f_addXMLFragment(v_SGDU,</pre>
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(continued)

```

702  » {Service := v_Service});
      f_addXMLFragment(v_SGDU,
703  » {Content := v_Content});
      f_addXMLFragment(v_SGDU,
704  » {Schedule := v_Schedule});
      f_addXMLFragment(v_SGDU,
705  » {Access := v_Access});
      f_addSdpFragment(v_SGDU,
706  » v_Version, v_Sdp);
707
      f_main_ctrl_broadcastServ
708  » iceGuide(v_SGDU, "gzip", vc_FluteUpdateID); // CR
709  » (WK 34/2008): Flute Update Signalling
      f_main_ut_RunBCastApplica
710  » tion();
      if (PX_GET_SG_DISPLAY_MAN
711  » UALLY) {
      f_main_ut_GetServ
712  » iceGuide(PX_SGDD_ID);
713  }
      f_main_ut_CheckService("T
714  » vChannel");
      f_main_ut_SelectService("
715  » TvChannel");
      f_main_ut_CheckContent("P
716  » rogrammel", v_DateTime_StartTime, v_DateTime_EndTime );
717
      // postamble
718  »
      f_main_ut_PowerOff();
719
      f_cf_Broadcast_down();
720      f_cf_UpperTester_down();
721  } // end test case TC_BCAST_ESG_CO
722  » NF_104
723      // change 39 (WK18): testcase des
724  » cription extension
      with {extension "Description: 5.2
725  » .4 GZIP compression of Service Guide Delivery Unit on b
726  » roadcast channel"}

```

```

702  » {Service := v_Service});
      f_addXMLFragment(v_SGDU,
703  » {Content := v_Content});
      f_addXMLFragment(v_SGDU,
704  » {Schedule := v_Schedule});
      f_addXMLFragment(v_SGDU,
705  » {Access := v_Access});
      f_addSdpFragment(v_SGDU,
706  » v_Version, v_Sdp);
707
      f_main_ctrl_broadcastServ
708  » iceGuide(v_SGDU, "gzip", vc_FluteUpdateID); // CR
709  » (WK 34/2008): Flute Update Signalling
      f_main_ut_RunBCastApplica
710  » tion();
      if (PX_GET_SG_DISPLAY_MAN
711  » UALLY) {
      f_main_ut_GetServ
712  » iceGuide(PX_SGDD_ID);
713  }
      f_main_ut_CheckService("T
714  » vChannel");
      f_main_ut_SelectService("
715  » TvChannel");
      f_main_ut_CheckContent("P
716  » rogrammel", v_DateTime_StartTime, v_DateTime_EndTime );
717
      // postamble
718  »
      f_main_ut_PowerOff();
719
      f_cf_Broadcast_down();
720      f_cf_UpperTester_down();
721  } // end test case TC_BCAST_ESG_CO
722  » NF_104
723      // change 39 (WK18): testcase des
724  » cription extension
      with {extension "Description: 5.2
725  » .4 GZIP compression of Service Guide Delivery Unit on b
726  » roadcast channel"}

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(continued)

```

725
726          /**
727          *
728          * @desc
729          *      <p>Service provisioning wit
» h Content hierarchy</p>
730          *      <p>Test Case Description</p>
» >
731          *      <p>with a terminal listenin
» g to the Service Guide Delivery Channel and for a data
» stream on the broadcast channel</p>
732          *      <p>when the terminal receiv
» es an Service Guide containing service fragments with t
» wo content fragments that follow each other in time</p>
733          *      <p>then the terminal presen
» ts the information of the Service Guide and is able to
» receive the data stream correctly</p>
734          *      <p>Specification Reference<
» /p>
735          *      <p>[BCAST10-ESG] Section 5.
» 1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5.1, 5.4.2.1, 6
» .1.1</p>
736          *      <p>Preconditions</p>
737          *      <p>Service guide cache of t
» erminal is erased.</p>
738          *      <p>Terminal is configured t
» o listen to BCAST service guide announcements and deliv
» ery on the broadcast channel</p>
739          *      <p>Access point information
» for service guide entry point is configured in test to
» ol</p>
740          *      <p>This test case uses the
» following SG fragment instantiations found in the Appen
» dix:
741          *      <ul>
742          *          <li>Service fragment
» with Name="TvChannel"</li>
743          *          <li>Content fragment
» for service fragment with Name="Programme1" with Start
» Time and EndTime elements indicating values within test
» execution time that result in a play time of three min

```

```

725
726          /**
727          *
728          * @desc
729          *      <p>Service provisioning wit
» h Content hierarchy</p>
730          *      <p>Test Case Description</p>
» >
731          *      <p>with a terminal listenin
» g to the Service Guide Delivery Channel and for a data
» stream on the broadcast channel</p>
732          *      <p>when the terminal receiv
» es an Service Guide containing service fragments with t
» wo content fragments that follow each other in time</p>
733          *      <p>then the terminal presen
» ts the information of the Service Guide and is able to
» receive the data stream correctly</p>
734          *      <p>Specification Reference<
» /p>
735          *      <p>[BCAST10-ESG] Section 5.
» 1.2.1, 5.1.2.2, 5.1.2.3, 5.1.2.4, 5.1.2.5.1, 5.4.2.1, 6
» .1.1</p>
736          *      <p>Preconditions</p>
737          *      <p>Service guide cache of t
» erminal is erased.</p>
738          *      <p>Terminal is configured t
» o listen to BCAST service guide announcements and deliv
» ery on the broadcast channel</p>
739          *      <p>Access point information
» for service guide entry point is configured in test to
» ol</p>
740          *      <p>This test case uses the
» following SG fragment instantiations found in the Appen
» dix:
741          *      <ul>
742          *          <li>Service fragment
» with Name="TvChannel"</li>
743          *          <li>Content fragment
» for service fragment with Name="Programme1" with Start
» Time and EndTime elements indicating values within test
» execution time that result in a play time of three min

```

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```

744      » utes</li>
          *          <li>Schedule fragmen
          » t for content fragment "Programme1" with same values fo
          » r startTime and endTime in the presentationWindow eleme
          » nt</li>
745      *          <li>Access fragment
          » for "Programme1" schedule fragment with BroadcastServic
          » eDelivery element and a reference to "Programme1" sessi
          » on description fragment</li>
746      *          <li>Session descript
          » ion fragment for "Programme1"</li>
747      *          <li>Content fragment
          » for service fragment with Name="Programme2" with Start
          » Time and EndTime elements indicating values within test
          » execution time but after the ones of "Programme1"</li>
748      *          <li>Schedule fragmen
          » t for content fragment "Programme2" with same values fo
          » r startTime and endTime in the presentationWindow eleme
          » nt</li>
749      *          <li>Access fragment
          » for "Programme2" schedule fragment with BroadcastServic
          » eDelivery element and a reference to "Programme2" sessi
          » on description fragment</li>
750      *          <li>Session descript
          » ion fragment for "Programme2"</li>
751      *          </ul>
752      *          </p>
753      *          <p>Note: All the fragments
          » are associated with the same Service fragment and are s
          » ent in the same service guide delivery.</p>
754      *          <p>Test Procedure</p>
755      *          <p>
756      *          <ul>
757      *          <li>Set up the test
          » tool to produce initial BCAST service guide announcemen
          » t and delivery using broadcast channel.</li>
758      *          <li>Setup the test t
          » ool to stream audio and video for "Programme1" and "Pro
          » gramme2" via the broadcast channel</li>
759      *          <li>Activate the BCA
          » ST application of the terminal</li>

```

```

744      » utes</li>
          *          <li>Schedule fragmen
          » t for content fragment "Programme1" with same values fo
          » r startTime and endTime in the presentationWindow eleme
          » nt</li>
745      *          <li>Access fragment
          » for "Programme1" schedule fragment with BroadcastServic
          » eDelivery element and a reference to "Programme1" sessi
          » on description fragment</li>
746      *          <li>Session descript
          » ion fragment for "Programme1"</li>
747      *          <li>Content fragment
          » for service fragment with Name="Programme2" with Start
          » Time and EndTime elements indicating values within test
          » execution time but after the ones of "Programme1"</li>
748      *          <li>Schedule fragmen
          » t for content fragment "Programme2" with same values fo
          » r startTime and endTime in the presentationWindow eleme
          » nt</li>
749      *          <li>Access fragment
          » for "Programme2" schedule fragment with BroadcastServic
          » eDelivery element and a reference to "Programme2" sessi
          » on description fragment</li>
750      *          <li>Session descript
          » ion fragment for "Programme2"</li>
751      *          </ul>
752      *          </p>
753      *          <p>Note: All the fragments
          » are associated with the same Service fragment and are s
          » ent in the same service guide delivery.</p>
754      *          <p>Test Procedure</p>
755      *          <p>
756      *          <ul>
757      *          <li>Set up the test
          » tool to produce initial BCAST service guide announcemen
          » t and delivery using broadcast channel.</li>
758      *          <li>Setup the test t
          » ool to stream audio and video for "Programme1" and "Pro
          » gramme2" via the broadcast channel</li>
759      *          <li>Activate the BCA
          » ST application of the terminal</li>

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(continued)

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760      *      <li>Request from BCA
      » ST application on terminal to get the service guide (op
      » tional)</li>
761      *      <li>Browse the SG on
      » the terminal</li>
762      *      <li>Access "TvChanne
      » l" on terminal</li>
763      *      </ul>
764      *      </p>
765      *      <p>The used video codec is:
766      *      <ul>
767      *      <li>H.264 (AVC)</li>
768      *      </ul>
769      *      </p>
770      *      <p>Pass-Criteria</p>
771      *      <p>The following should be
      » visible to the end user after the delivery of the SG
772      *      <ul>
773      *      <li>There is a servi
      » ce "TvChannel" associated with a program "Programme1" f
      » ollowed three minutes later by a program "Programme2"(T
      » here is a "TvChannel" that contains "Programme1" schedu
      » led three minutes prior to "Programme2")</li>
774      *      <li>Terminal shows
      » "Programme1" for three minutes which is followed by "Pr
      » ogramme2"</li>
775      *      </ul>
776      *      </p>
777      *      @verdict
778      *      pass in case the client pas
      » s the conformance test.
779      *      @verdict
780      *      fail in case the client doe
      » s not pass the conformance test.
781      *      @verdict
782      *      inconc in case a guard time
      » r expires.
783      */
784      testcase TC_BCAST_ESG_CONF_105()
      » runs on BCastMainComponent system BCastPlatformComponen
      » t {

```

```

760      *      <li>Request from BCA
      » ST application on terminal to get the service guide (op
      » tional)</li>
761      *      <li>Browse the SG on
      » the terminal</li>
762      *      <li>Access "TvChanne
      » l" on terminal</li>
763      *      </ul>
764      *      </p>
765      *      <p>The used video codec is:
766      *      <ul>
767      *      <li>H.264 (AVC)</li>
768      *      </ul>
769      *      </p>
770      *      <p>Pass-Criteria</p>
771      *      <p>The following should be
      » visible to the end user after the delivery of the SG
772      *      <ul>
773      *      <li>There is a servi
      » ce "TvChannel" associated with a program "Programme1" f
      » ollowed three minutes later by a program "Programme2"(T
      » here is a "TvChannel" that contains "Programme1" schedu
      » led three minutes prior to "Programme2")</li>
774      *      <li>Terminal shows
      » "Programme1" for three minutes which is followed by "Pr
      » ogramme2"</li>
775      *      </ul>
776      *      </p>
777      *      @verdict
778      *      pass in case the client pas
      » s the conformance test.
779      *      @verdict
780      *      fail in case the client doe
      » s not pass the conformance test.
781      *      @verdict
782      *      inconc in case a guard time
      » r expires.
783      */
784      testcase TC_BCAST_ESG_CONF_105()
      » runs on BCastMainComponent system BCastPlatformComponen
      » t {

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(continued)

```

785          // init components and po
» rts
786          f_createComponents();
787          f_cf_Broadcast_up();
788          f_cf_Data_up();
789          f_cf_UpperTester_up();
790
791          // preamble
792
793          // change 14 (WK18): dyna
» mic setting of destination IP
794          f_main_data_startStreamin
» gFile(0, PX_FILE_VIDEO_PROG1, PX_SDP_VIDEO_PROG_1, PX_D
» ATA_STREAMING_DESTINATION_IP_1);
795          //f_main_data_startStream
» ingFile(1, PX_FILE_AUDIO_PROG_1, PX_SDP_AUDIO_PROG_1);
» // hint: 1st programm broadcasts video and audio
796
797          // change 14 (WK18): dyna
» mic setting of destination IP
798          f_main_data_startStreamin
» gFile(1, PX_FILE_VIDEO_PROG2, PX_SDP_VIDEO_PROG_2, PX_D
» ATA_STREAMING_DESTINATION_IP_2);
799          //f_main_data_startStream
» ingFile(3, PX_FILE_AUDIO_PROG_2, PX_SDP_AUDIO_PROG_2);
» // hint: 2st programm broadcasts video and audio
800
801          f_startCommonUtPreamble()
» ;
802
803          // test behavior
804          // current time
805          var ServiceGuideDeliveryU
» nit v_SGDU := {};
806          var UInt32 v_Version := 1
» ;
807
808          f_main_ctrl_InitStartEndT
» ime(0,c_one_hour + PX_PLAY_TIME); // change 9 (WK18): c
» orrections in start/stop time for additional program
»          // change 01 (WK 6): globa

```

```

785          // init components and po
» rts
786          f_createComponents();
787          f_cf_Broadcast_up();
788          f_cf_Data_up();
789          f_cf_UpperTester_up();
790
791          // preamble
792
793          // change 14 (WK18): dyna
» mic setting of destination IP
794          f_main_data_startStreamin
» gFile(0, PX_FILE_VIDEO_PROG1, PX_SDP_VIDEO_PROG_1, PX_D
» ATA_STREAMING_DESTINATION_IP_1);
795          //f_main_data_startStream
» ingFile(1, PX_FILE_AUDIO_PROG_1, PX_SDP_AUDIO_PROG_1);
» // hint: 1st programm broadcasts video and audio
796
797          // change 14 (WK18): dyna
» mic setting of destination IP
798          f_main_data_startStreamin
» gFile(1, PX_FILE_VIDEO_PROG2, PX_SDP_VIDEO_PROG_2, PX_D
» ATA_STREAMING_DESTINATION_IP_2);
799          //f_main_data_startStream
» ingFile(3, PX_FILE_AUDIO_PROG_2, PX_SDP_AUDIO_PROG_2);
» // hint: 2st programm broadcasts video and audio
800
801          f_startCommonUtPreamble()
» ;
802
803          // test behavior
804          // current time
805          var ServiceGuideDeliveryU
» nit v_SGDU := {};
806          var UInt32 v_Version := 1
» ;
807
808          f_main_ctrl_InitStartEndT
» ime(0,c_one_hour + PX_PLAY_TIME); // change 9 (WK18): c
» orrections in start/stop time for additional program
»          // change 01 (WK 6): globa

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(continued)

<pre> 809 » 1 time definition 810 // change 9 (WK18): corrections in start/stop time for additional program 811 // time after v_endTime 812 var UInt v_NTP_StartTime2 813 » := v_startTime + PX_PLAY_TIME; 814 // change 01 (WK 6): global time definition 815 // 1 hour duration; 816 var UInt v_NTP_EndTime2 : 817 » = v_endTime; 818 // change 01 (WK 6): global time definition 819 var DateTime v_DateTime_S 820 » tartTime1 := f_getDateTime(v_startTime); 821 // change 01 (WK 6): global time definition 822 var DateTime v_DateTime_E 823 » ndTime1 := f_getDateTime(v_NTP_StartTime2); // change 824 » 9 (WK18): corrections in start/stop time for additional 825 » program // change 01 (WK 6): global time definition 826 » efinition 827 var DateTime v_DateTime_S 828 » tartTime2 := f_getDateTime(v_NTP_StartTime2); 829 var DateTime v_DateTime_E 830 » ndTime2 := f_getDateTime(v_NTP_EndTime2); 831 var SdpFragment v_Sdp := 832 » valueof(m_def_SdpFragment(833 » PX_SDP_VIDEO_PROG 834 » _1_REF_ID, 835 » PX_SDP_VIDEO_PROG 836 » _1 837 »)); 838 var AccessTypeType v_Acce 839 » ssType := valueof(m_def_AccessType_bc_sdp(840 » f_getAccessType(P 841 » X_BROADCAST_NETWORK_BEARER), 842 » PX_SDP_VIDEO_PROG </pre>	<pre> 809 » 1 time definition 810 // change 9 (WK18): corrections in start/stop time for additional program 811 // time after v_endTime 812 var UInt v_NTP_StartTime2 813 » := v_startTime + PX_PLAY_TIME; 814 // change 01 (WK 6): global time definition 815 // 1 hour duration; 816 var UInt v_NTP_EndTime2 : 817 » = v_endTime; 818 // change 01 (WK 6): global time definition 819 var DateTime v_DateTime_S 820 » tartTime1 := f_getDateTime(v_startTime); 821 // change 01 (WK 6): global time definition 822 var DateTime v_DateTime_E 823 » ndTime1 := f_getDateTime(v_NTP_StartTime2); // change 824 » 9 (WK18): corrections in start/stop time for additional 825 » program // change 01 (WK 6): global time definition 826 » efinition 827 var DateTime v_DateTime_S 828 » tartTime2 := f_getDateTime(v_NTP_StartTime2); 829 var DateTime v_DateTime_E 830 » ndTime2 := f_getDateTime(v_NTP_EndTime2); 831 var SdpFragment v_Sdp := 832 » valueof(m_def_SdpFragment(833 » PX_SDP_VIDEO_PROG 834 » _1_REF_ID, 835 » PX_SDP_VIDEO_PROG 836 » _1 837 »)); 838 var AccessTypeType v_Acce 839 » ssType := valueof(m_def_AccessType_bc_sdp(840 » f_getAccessType(P 841 » X_BROADCAST_NETWORK_BEARER), 842 » PX_SDP_VIDEO_PROG </pre>
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(continued)

```

830 » _1_REF_ID
831
832 var ServiceType v_Service
833 » := valueof( m_def_Service(
834     PX_SGDU_SERVICE_I
835 » D,
836     v_Version,
837     "TvChannel",
838     c_basicTv_Service
839 » Type
840 )));
841
842 var ContentType v_Content
843 » := valueof(m_def_Content(
844     PX_SGDU_CONTENT_I
845 » D_PROG_1,
846     v_Version,
847     "Programme1",
848     PX_SGDU_SERVICE_I
849 » D,
850     v_DateTime_StartT
851 » ime1,
852     v_DateTime_EndTim
853 » e1
854 )));
855
856 var ScheduleType v_Schedu
857 » le := valueof(m_def_Schedule(
858     PX_SGDU_SCHEDULE_
859 » ID_PROG_1,
860     v_Version,
861     PX_SGDU_SERVICE_I
862 » D,
863     PX_SGDU_CONTENT_I
864 » D_PROG_1,
865     v_startTime,
866     // change 01 (
867 » WK 6): global time definition
868     v_NTP_StartTime2
869 » // change 9 (WK18): corrections in start/stop time for

```

```

830 » _1_REF_ID
831
832 var ServiceType v_Service
833 » := valueof( m_def_Service(
834     PX_SGDU_SERVICE_I
835 » D,
836     v_Version,
837     "TvChannel",
838     c_basicTv_Service
839 » Type
840 )));
841
842 var ContentType v_Content
843 » := valueof(m_def_Content(
844     PX_SGDU_CONTENT_I
845 » D_PROG_1,
846     v_Version,
847     "Programme1",
848     PX_SGDU_SERVICE_I
849 » D,
850     v_DateTime_StartT
851 » ime1,
852     v_DateTime_EndTim
853 » e1
854 )));
855
856 var ScheduleType v_Schedu
857 » le := valueof(m_def_Schedule(
858     PX_SGDU_SCHEDULE_
859 » ID_PROG_1,
860     v_Version,
861     PX_SGDU_SERVICE_I
862 » D,
863     PX_SGDU_CONTENT_I
864 » D_PROG_1,
865     v_startTime,
866     // change 01 (
867 » WK 6): global time definition
868     v_NTP_StartTime2
869 » // change 9 (WK18): corrections in start/stop time for

```

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(continued)

```

» additional programm // change 01 (WK 6): global time de
» finition
855                                     ));
856
857         var AccessType v_Access :
» = valueof(m_def_Access(
858                                     PX_SGDU_ACCESS_ID
» _PROG_1,
859                                     v_Version,
860                                     v_AccessType,
861                                     PX_SGDU_SERVICE_I
» D,
862                                     PX_SGDU_SCHEDULE_
» ID_PROG_1,
863                                     c_class_ST // cha
» nge 35 (WK18): Check Service Class of Access Fragments:
» ST, SG, FC: ST when access references video, FC for fi
» le distribution, otherwise SG.
864                                     ));
865
866         var SdpFragment v_Sdp2 :=
» valueof(m_def_SdpFragment(
867                                     PX_SDP_VIDEO_PROG
» _2_REF_ID,
868                                     PX_SDP_VIDEO_PROG
» _2
869                                     ));
870
871         var AccessTypeType v_Acce
» ssType2 := valueof(m_def_AccessType_bc_sdp(
872                                     f_getAccessType(P
» X_BROADCAST_NETWORK_BEARER),
873                                     PX_SDP_VIDEO_PROG
» _2_REF_ID
874                                     ));
875
876         var ContentType v_Content
» 2 := valueof(m_def_Content(
877                                     PX_SGDU_CONTENT_I
» D_PROG_2,
878                                     v_Version,

```

```

» additional programm // change 01 (WK 6): global time de
» finition
855                                     ));
856
857         var AccessType v_Access :
» = valueof(m_def_Access(
858                                     PX_SGDU_ACCESS_ID
» _PROG_1,
859                                     v_Version,
860                                     v_AccessType,
861                                     PX_SGDU_SERVICE_I
» D,
862                                     PX_SGDU_SCHEDULE_
» ID_PROG_1,
863                                     c_class_ST // cha
» nge 35 (WK18): Check Service Class of Access Fragments:
» ST, SG, FC: ST when access references video, FC for fi
» le distribution, otherwise SG.
864                                     ));
865
866         var SdpFragment v_Sdp2 :=
» valueof(m_def_SdpFragment(
867                                     PX_SDP_VIDEO_PROG
» _2_REF_ID,
868                                     PX_SDP_VIDEO_PROG
» _2
869                                     ));
870
871         var AccessTypeType v_Acce
» ssType2 := valueof(m_def_AccessType_bc_sdp(
872                                     f_getAccessType(P
» X_BROADCAST_NETWORK_BEARER),
873                                     PX_SDP_VIDEO_PROG
» _2_REF_ID
874                                     ));
875
876         var ContentType v_Content
» 2 := valueof(m_def_Content(
877                                     PX_SGDU_CONTENT_I
» D_PROG_2,
878                                     v_Version,

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879	"Programme2",	879	"Programme2",
880	PX_SGDU_SERVICE_I	880	PX_SGDU_SERVICE_I
» D,		» D,	
881	v_DateTime_StartT	881	v_DateTime_StartT
» ime2,		» ime2,	
882	v_DateTime_EndTim	882	v_DateTime_EndTim
» e2		» e2	
883	));	883));
884		884	
885	var ScheduleType v_Schedu	885	var ScheduleType v_Schedu
» le2 := valueof(m_def_Schedule(		» le2 := valueof(m_def_Schedule(
886	PX_SGDU_SCHEDULE_	886	PX_SGDU_SCHEDULE_
» ID_PROG_2,		» ID_PROG_2,	
887	v_Version,	887	v_Version,
888	PX_SGDU_SERVICE_I	888	PX_SGDU_SERVICE_I
» D,		» D,	
889	PX_SGDU_CONTENT_I	889	PX_SGDU_CONTENT_I
» D_PROG_2,		» D_PROG_2,	
890	v_NTP_StartTime2,	890	v_NTP_StartTime2,
»		»	
891	v_NTP_EndTime2	891	v_NTP_EndTime2
892	));	892));
893		893	
894	var AccessType v_Access2	894	var AccessType v_Access2
» := valueof(m_def_Access(		» := valueof(m_def_Access(
895	PX_SGDU_ACCESS_ID	895	PX_SGDU_ACCESS_ID
» _PROG_2,		» _PROG_2,	
896	v_Version,	896	v_Version,
897	v_AccessType2, //	897	v_AccessType2, //
» // change 10 (WK18): content hierarchy -> video 2 need		» // change 10 (WK18): content hierarchy -> video 2 need	
» s another SDP description		» s another SDP description	
898	PX_SGDU_SERVICE_I	898	PX_SGDU_SERVICE_I
» D,		» D,	
899	PX_SGDU_SCHEDULE_	899	PX_SGDU_SCHEDULE_
» ID_PROG_2,		» ID_PROG_2,	
900	c_class_ST // cha	900	c_class_ST // cha
» nge 35 (WK18): Check Service Class of Access Fragments:		» nge 35 (WK18): Check Service Class of Access Fragments:	
» ST, SG, FC: ST when access references video, FC for fi		» ST, SG, FC: ST when access references video, FC for fi	
» le distribution, otherwise SG.		» le distribution, otherwise SG.	
901));	901));
902		902	

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(continued)

```

903 // CR 26/8: generic funct
    » ion for adding XML fragments
904 f_addXMLFragment(v_SGDU,
    » {Service := v_Service});
905 f_addXMLFragment(v_SGDU,
    » {Content := v_Content});
906 f_addXMLFragment(v_SGDU,
    » {Schedule := v_Schedule});
907 f_addXMLFragment(v_SGDU,
    » {Access := v_Access});
908 f_addXMLFragment(v_SGDU,
    » {Content := v_Content2});
909 f_addXMLFragment(v_SGDU,
    » {Schedule := v_Schedule2});
910 f_addXMLFragment(v_SGDU,
    » {Access := v_Access2});
911 f_addSdpFragment(v_SGDU,
    » v_Version, v_Sdp);
912 f_addSdpFragment(v_SGDU,
    » v_Version, v_Sdp2);
913
914 f_main_ctrl_broadcastServ
    » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (W
    » K 34/2008): Flute Update Signalling
915
916 f_main_ut_RunBCastApplica
    » tion();
917 if (PX_GET_SG_DISPLAY_MAN
    » UALLY) {
918 f_main_ut_GetServ
    » iceGuide(PX_SGDD_ID);
919 }
920 f_main_ut_CheckService("T
    » vChannel");
921 f_main_ut_SelectService("
    » TvChannel");
922 f_main_ut_CheckContent("P
    » rogramme1", v_DateTime_StartTime1, v_DateTime_EndTime1)
    » ;
923 f_main_ut_CheckContent("P
    » rogramme2", v_DateTime_StartTime2, v_DateTime_EndTime2)

```

```

903 // CR 26/8: generic funct
    » ion for adding XML fragments
904 f_addXMLFragment(v_SGDU,
    » {Service := v_Service});
905 f_addXMLFragment(v_SGDU,
    » {Content := v_Content});
906 f_addXMLFragment(v_SGDU,
    » {Schedule := v_Schedule});
907 f_addXMLFragment(v_SGDU,
    » {Access := v_Access});
908 f_addXMLFragment(v_SGDU,
    » {Content := v_Content2});
909 f_addXMLFragment(v_SGDU,
    » {Schedule := v_Schedule2});
910 f_addXMLFragment(v_SGDU,
    » {Access := v_Access2});
911 f_addSdpFragment(v_SGDU,
    » v_Version, v_Sdp);
912 f_addSdpFragment(v_SGDU,
    » v_Version, v_Sdp2);
913
914 f_main_ctrl_broadcastServ
    » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (W
    » K 34/2008): Flute Update Signalling
915
916 f_main_ut_RunBCastApplica
    » tion();
917 if (PX_GET_SG_DISPLAY_MAN
    » UALLY) {
918 f_main_ut_GetServ
    » iceGuide(PX_SGDD_ID);
919 }
920 f_main_ut_CheckService("T
    » vChannel");
921 f_main_ut_SelectService("
    » TvChannel");
922 f_main_ut_CheckContent("P
    » rogramme1", v_DateTime_StartTime1, v_DateTime_EndTime1)
    » ;
923 f_main_ut_CheckContent("P
    » rogramme2", v_DateTime_StartTime2, v_DateTime_EndTime2)

```

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(continued)

```

924      » ;
          f_main_ut_UseService("TvC
» hannel");
925
926          f_main_ut_CheckVideo("Pro
» grammel");
927          // change 9 (WK18): corre
» ctions in start/stop time for additional programm
928          var UInt v_NTP_NOW := f_g
» etNTPTime();
929          var integer v_TimeToWait
» := v_NTP_StartTime2 - v_NTP_NOW;
930
931          if (v_TimeToWait > 0) {
932              // waiting end of
» play time of Programm1
933              timer t_wait;
934              t_wait.start(int2
» float(v_TimeToWait));
935              t_wait.timeout;
936          }
937
938          f_main_ut_CheckVideo("Pro
» gramme2");
939
940          // postamble
941          f_main_ut_PowerOff();
942
943          f_main_data_stopStreaming
» (0);
944          //f_main_data_stopStreami
» ng(1);
945          f_main_data_stopStreaming
» (1);
946          //f_main_data_stopStreami
» ng(3);
947
948          f_cf_Broadcast_down();
949          f_cf_Data_down();
950          f_cf_UpperTester_down();
951      } // end test case TC_BCAST_ESG_CO

```

```

924      » ;
          f_main_ut_UseService("TvC
» hannel");
925
926          f_main_ut_CheckVideo("Pro
» grammel");
927          // change 9 (WK18): corre
» ctions in start/stop time for additional programm
928          var UInt v_NTP_NOW := f_g
» etNTPTime();
929          var integer v_TimeToWait
» := v_NTP_StartTime2 - v_NTP_NOW;
930
931          if (v_TimeToWait > 0) {
932              // waiting end of
» play time of Programm1
933              timer t_wait;
934              t_wait.start(int2
» float(v_TimeToWait));
935              t_wait.timeout;
936          }
937
938          f_main_ut_CheckVideo("Pro
» gramme2");
939
940          // postamble
941          f_main_ut_PowerOff();
942
943          f_main_data_stopStreaming
» (0);
944          //f_main_data_stopStreami
» ng(1);
945          f_main_data_stopStreaming
» (1);
946          //f_main_data_stopStreami
» ng(3);
947
948          f_cf_Broadcast_down();
949          f_cf_Data_down();
950          f_cf_UpperTester_down();
951      } // end test case TC_BCAST_ESG_CO

```

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(continued)

» NF_105		» NF_105	
952	// change 39 (WK18): testcase description extension	952	// change 39 (WK18): testcase description extension
953	with {extension "Description: 5.2	953	with {extension "Description: 5.2
» .5 Service provisioning with Content hierarchy"}		» .5 Service provisioning with Content hierarchy"}	
954		954	
955	/**	955	/**
956	*	956	*
957	* @desc	957	* @desc
958	* <p>Service guide with Preview Data via broadcast channel</p>	958	* <p>Service guide with Preview Data via broadcast channel</p>
» >		» >	
960	* <p>with a terminal listening to the broadcast Service Guide Delivery Channel.</p>	960	* <p>with a terminal listening to the broadcast Service Guide Delivery Channel.</p>
961	* <p>when the terminal receives a Service Guide containing a service and preview data fragments indicating a picture reference and alternative text</p>	961	* <p>when the terminal receives a Service Guide containing a service and preview data fragments indicating a picture reference and alternative text</p>
962	* <p>then the terminal presents the service and the picture or the alternative text</p>	962	* <p>then the terminal presents the service and the picture or the alternative text</p>
963	* <p>Specification Reference</p>	963	* <p>Specification Reference</p>
» /p>		» /p>	
964	* <p>[BCAST10-ESG] Section 5.1.2.9</p>	964	* <p>[BCAST10-ESG] Section 5.1.2.9</p>
965	* <p>Preconditions</p>	965	* <p>Preconditions</p>
966	* <p>Service guide cache of terminal is erased</p>	966	* <p>Service guide cache of terminal is erased</p>
967	* <p>Terminal is configured to listen to BCAST service guide announcements and deliver on the broadcast channel</p>	967	* <p>Terminal is configured to listen to BCAST service guide announcements and deliver on the broadcast channel</p>
968	* <p>Access point information for service guide entry point is configured in test to ol</p>	968	* <p>Access point information for service guide entry point is configured in test to ol</p>
969	* <p>Preview icon is delivered using a FLUTE file delivery session.</p>	969	* <p>Preview icon is delivered using a FLUTE file delivery session.</p>
970	* <p>This test cases uses the following SG fragment instantiations and files found in the Appendix:	970	* <p>This test cases uses the following SG fragment instantiations and files found in the Appendix:
971	* 	971	*

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(continued)

<pre> 972 * Service fragment » with Name="TvChannel" 973 * PreviewData frag » ment for service fragment with PictureUri and Alternati » veText element set to "TV Channel icon" 974 * Access fragment » for previewData fragment with reference to session desc » ription fragment 975 * Session descript » ion fragment with parameters for broadcast file deliver » y session 976 * Image file "TvCh » annelIcon.jpg" 977 * 978 * </p> 979 * <p>Note: All the fragments » are associated with the same Service fragment and are s » ent in the same service guide delivery.</p> 980 * <p>Set the FLUTE sessio » n to contain an FDT-instance with 'File'-element, where » 'Content-Location= "TvChannelIcon.jpg"'.</p> 981 * <p>Test Procedure</p> 982 * <p> 983 * 984 * Set up the test » tool to produce BCAST service guide announcement and de » livery using broadcast channel. 985 * Setup the test t » ool to deliver the image file "TvChannelIcon.jpg" using » a file delivery session as described by SDP. 986 * Activate the BCA » ST application of the terminal 987 * Request from BCA » ST application on terminal to get the service guide (op » tional) 988 * Browse the SG on » the terminal 989 * 990 * </p> 991 * <p>Pass-Criteria</p> 992 * <p> </pre>	<pre> 972 * Service fragment » with Name="TvChannel" 973 * PreviewData frag » ment for service fragment with PictureUri and Alternati » veText element set to "TV Channel icon" 974 * Access fragment » for previewData fragment with reference to session desc » ription fragment 975 * Session descript » ion fragment with parameters for broadcast file deliver » y session 976 * Image file "TvCh » annelIcon.jpg" 977 * 978 * </p> 979 * <p>Note: All the fragments » are associated with the same Service fragment and are s » ent in the same service guide delivery.</p> 980 * <p>Set the FLUTE sessio » n to contain an FDT-instance with 'File'-element, where » 'Content-Location= "TvChannelIcon.jpg"'.</p> 981 * <p>Test Procedure</p> 982 * <p> 983 * 984 * Set up the test » tool to produce BCAST service guide announcement and de » livery using broadcast channel. 985 * Setup the test t » ool to deliver the image file "TvChannelIcon.jpg" using » a file delivery session as described by SDP. 986 * Activate the BCA » ST application of the terminal 987 * Request from BCA » ST application on terminal to get the service guide (op » tional) 988 * Browse the SG on » the terminal 989 * 990 * </p> 991 * <p>Pass-Criteria</p> 992 * <p> </pre>
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(continued)

```

993          *      <ul>
994          *      <li>Terminal associa
» tes and displays either the icon "TvChannelIcon.jpg".o
» r alternative text "TV Channel icon" with the service "
» TvChannel"</li>
995          *      </ul>
996          *      </p>
997          *      @verdict
998          *      pass in case the client pas
» s the conformance test.
999          *      @verdict
1000         *      fail in case the client doe
» s not pass the conformance test.
1001         *      @verdict
1002         *      inconc in case a guard time
» r expires.
1003         */
1004         testcase TC_BCAST_ESG_CONF_106()
» runs on BCastMainComponent system BCastPlatformComponen
» t {
1005             // init components and po
» rts
1006             f_createComponents();
1007             f_cf_Broadcast_up();
1008             f_cf_Data_up();
1009             f_cf_UpperTester_up();
1010             f_main_ctrl_InitStartEndT
» ime(c_one_hour,c_one_hour);
» // change 01 (WK 6): global time definition
1011
1012             // preamble
1013             f_startCommonUtPreamble()
» ;
1014
1015             // test behavior
1016             f_main_ctrl_InitStartEndT
» ime(c_one_hour,c_one_hour);
» // change 01 (WK 6): global time definition
1017
1018             var DateTime v_DateTime_S
» tartTime := f_getDateTime(v_startTime);

```

```

993          *      <ul>
994          *      <li>Terminal associa
» tes and displays either the icon "TvChannelIcon.jpg".o
» r alternative text "TV Channel icon" with the service "
» TvChannel"</li>
995          *      </ul>
996          *      </p>
997          *      @verdict
998          *      pass in case the client pas
» s the conformance test.
999          *      @verdict
1000         *      fail in case the client doe
» s not pass the conformance test.
1001         *      @verdict
1002         *      inconc in case a guard time
» r expires.
1003         */
1004         testcase TC_BCAST_ESG_CONF_106()
» runs on BCastMainComponent system BCastPlatformComponen
» t {
1005             // init components and po
» rts
1006             f_createComponents();
1007             f_cf_Broadcast_up();
1008             f_cf_Data_up();
1009             f_cf_UpperTester_up();
1010             f_main_ctrl_InitStartEndT
» ime(c_one_hour,c_one_hour);
» // change 01 (WK 6): global time definition
1011
1012             // preamble
1013             f_startCommonUtPreamble()
» ;
1014
1015             // test behavior
1016             f_main_ctrl_InitStartEndT
» ime(c_one_hour,c_one_hour);
» // change 01 (WK 6): global time definition
1017
1018             var DateTime v_DateTime_S
» tartTime := f_getDateTime(v_startTime);

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(continued)

```

1019 » // change 01 (WK 6): global time definition
      var DateTime v_DateTime_E
1020 » ndTime := f_getDateTime(v_endTime);
      » // change 01 (WK 6): global time definition
1021
      // change 2 (WK18): file
1022 » distribution as well as preview data
      var TransferFileList v_Fi
1023 » leList := {
      {
1024
      Content_L
1025 » ocation := PX_DATA_SESSION, // change 34 (WK18): rename
      » "TVChannelIcon" SDP session into "Data_Session", renam
      » e respective SDP PIXIT paramter as well
1026
      Content_T
1027 » ype := "image/jpeg",
      Content_E
1028 » ncoding := omit,
      file := o
1029 » mit // use the content-Location as file reference
      }
1030
      };
      var UInt v_TransferId :=
1031 » 4;
      var UInt32 v_FluteUpdateI
1032 » D := 0; // CR (WK 34/2008): Flute Update
      » Signalling
      // change 34 (WK18): rena
1033 » me "TVChannelIcon" SDP session into "Data_Session", ren
      » ame respective SDP PIXIT paramter as well
      f_main_data_startFileTran
1034 » sfer(v_TransferId, v_FluteUpdateID, PX_SDP_DATA_SESSION
      » , v_FileList);
1035
      var ServiceGuideDeliveryU
1036 » nit v_SGDU := {};
      var UInt32 v_Version := 1
1037 » ;
      // change 2 (WK18): file
1038 » distribution as well as preview data

```

```

1019 » // change 01 (WK 6): global time definition
      var DateTime v_DateTime_E
1020 » ndTime := f_getDateTime(v_endTime);
      » // change 01 (WK 6): global time definition
1021
      // change 2 (WK18): file
1022 » distribution as well as preview data
      var TransferFileList v_Fi
1023 » leList := {
      {
1024
      Content_L
1025 » ocation := PX_DATA_SESSION, // change 34 (WK18): rename
      » "TVChannelIcon" SDP session into "Data_Session", renam
      » e respective SDP PIXIT paramter as well
1026
      Content_T
1027 » ype := "image/jpeg",
      Content_E
1028 » ncoding := omit,
      file := o
1029 » mit // use the content-Location as file reference
      }
1030
      };
      var UInt v_TransferId :=
1031 » 4;
      var UInt32 v_FluteUpdateI
1032 » D := 0; // CR (WK 34/2008): Flute Update
      » Signalling
      // change 34 (WK18): rena
1033 » me "TVChannelIcon" SDP session into "Data_Session", ren
      » ame respective SDP PIXIT paramter as well
      f_main_data_startFileTran
1034 » sfer(v_TransferId, v_FluteUpdateID, PX_SDP_DATA_SESSION
      » , v_FileList);
1035
      var ServiceGuideDeliveryU
1036 » nit v_SGDU := {};
      var UInt32 v_Version := 1
1037 » ;
      // change 2 (WK18): file
1038 » distribution as well as preview data

```

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(continued)

```

1039          // change 34 (WK18): rena
    » me "TVChannelIcon" SDP session into "Data_Session", ren
    » ame respective SDP PIXIT paramter as well
1040          var SdpFragment v_Sdp :=
    » valueof(m_def_SdpFragment(
1041              PX_SDP_DATA_SESSI
    » ON_REF_ID,
1042              PX_SDP_DATA_SESSI
    » ON
1043          ));
1044
1045          // change 34 (WK18): rena
    » me "TVChannelIcon" SDP session into "Data_Session", ren
    » ame respective SDP PIXIT paramter as well
1046          var AccessTypeType v_Acce
    » ssType := valueof(m_def_AccessType_bc_sdp(
1047              f_getAccessType(P
    » X_BROADCAST_NETWORK_BEARER),
1048              PX_SDP_DATA_SESSI
    » ON_REF_ID // change 2 (WK18): file distribution as well
    » as preview data
1049          ));
1050
1051          var ServiceType v_Service
    » := valueof(m_def_Service(
1052              PX_SGDU_SERVICE_I
    » D,
1053              v_Version,
1054              "TvChannel",
1055              c_basicTv_Service
    » Type
1056          ));
1057          // change 2 (WK18): file
    » distribution as well as preview data
1058          v_Service.PreviewDataRefe
    » rences := {{idRef := PX_SGDU_PREVIEW_DATA_ID, usage :=
    » 2}};
1059
1060          var PreviewDataType v_Pre
    » viewData := valueof(m_def_picture_PreviewData(
1061              PX_SGDU_PREVIEW_D

```

```

1039          // change 34 (WK18): rena
    » me "TVChannelIcon" SDP session into "Data_Session", ren
    » ame respective SDP PIXIT paramter as well
1040          var SdpFragment v_Sdp :=
    » valueof(m_def_SdpFragment(
1041              PX_SDP_DATA_SESSI
    » ON_REF_ID,
1042              PX_SDP_DATA_SESSI
    » ON
1043          ));
1044
1045          // change 34 (WK18): rena
    » me "TVChannelIcon" SDP session into "Data_Session", ren
    » ame respective SDP PIXIT paramter as well
1046          var AccessTypeType v_Acce
    » ssType := valueof(m_def_AccessType_bc_sdp(
1047              f_getAccessType(P
    » X_BROADCAST_NETWORK_BEARER),
1048              PX_SDP_DATA_SESSI
    » ON_REF_ID // change 2 (WK18): file distribution as well
    » as preview data
1049          ));
1050
1051          var ServiceType v_Service
    » := valueof(m_def_Service(
1052              PX_SGDU_SERVICE_I
    » D,
1053              v_Version,
1054              "TvChannel",
1055              c_basicTv_Service
    » Type
1056          ));
1057          // change 2 (WK18): file
    » distribution as well as preview data
1058          v_Service.PreviewDataRefe
    » rences := {{idRef := PX_SGDU_PREVIEW_DATA_ID, usage :=
    » 2}};
1059
1060          var PreviewDataType v_Pre
    » viewData := valueof(m_def_picture_PreviewData(
1061              PX_SGDU_PREVIEW_D

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(continued)

<pre> 1062 » ATA_ID, 1063 v_Version, 1063 PX_DATA_SESSION, » // change 34 (WK18): rename "TVChannelIcon" SDP session » into "Data_Session", rename respective SDP PIXIT param » ter as well 1064 {omit,"TV Channel » icon"}, 1065 "image/jpeg" // » change 2 (WK18): file distribution as well as preview d » ata 1066)); 1067 1068 var AccessType v_Access : » = valueof(m_def_Access_without_Ref(1069 PX_SGDU_ACCESS_ID » _PROG_1, 1070 v_Version, 1071 v_AccessType, 1072 PX_SGDU_SERVICE_I » D, 1073 c_class_FC // cha » nge 35 (WK18): Check Service Class of Access Fragments: » ST, SG, FC: ST when access references video, FC for fi » le distribution, otherwise SG. 1074)); 1075 // CR 26/8: generic funct » ion for adding XML fragments 1076 f_addXMLFragment(v_SGDU, » {Service := v_Service}); 1077 f_addXMLFragment(v_SGDU, » {PreviewData := v_PreviewData}); 1078 f_addXMLFragment(v_SGDU, » {Access := v_Access}); 1079 f_addSdpFragment(v_SGDU, » v_Version, v_Sdp); 1080 1081 f_main_ctrl_broadcastServ » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (W » K 34/2008): Flute Update Signalling 1082 </pre>	<pre> » ATA_ID, 1062 v_Version, 1063 PX_DATA_SESSION, » // change 34 (WK18): rename "TVChannelIcon" SDP session » into "Data_Session", rename respective SDP PIXIT param » ter as well 1064 {omit,"TV Channel » icon"}, 1065 "image/jpeg" // » change 2 (WK18): file distribution as well as preview d » ata 1066)); 1067 1068 var AccessType v_Access : » = valueof(m_def_Access_without_Ref(1069 PX_SGDU_ACCESS_ID » _PROG_1, 1070 v_Version, 1071 v_AccessType, 1072 PX_SGDU_SERVICE_I » D, 1073 c_class_FC // cha » nge 35 (WK18): Check Service Class of Access Fragments: » ST, SG, FC: ST when access references video, FC for fi » le distribution, otherwise SG. 1074)); 1075 // CR 26/8: generic funct » ion for adding XML fragments 1076 f_addXMLFragment(v_SGDU, » {Service := v_Service}); 1077 f_addXMLFragment(v_SGDU, » {PreviewData := v_PreviewData}); 1078 f_addXMLFragment(v_SGDU, » {Access := v_Access}); 1079 f_addSdpFragment(v_SGDU, » v_Version, v_Sdp); 1080 1081 f_main_ctrl_broadcastServ » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (W » K 34/2008): Flute Update Signalling 1082 </pre>
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```

1083         f_main_ut_RunBCastApplica
» tion();
1084         if (PX_GET_SG_DISPLAY_MAN
» UALLY) {
1085             f_main_ut_GetServ
» iceGuide(PX_SGDD_ID);
1086         }
1087         f_main_ut_CheckService("T
» vChannel");
1088         f_main_ut_CheckPreview("i
» con TvChannelIcon.jpg or text ""TV Channel icon""");
1089         // postamble
1090     »
1091         f_main_ut_PowerOff();
1092         f_main_data_stopFileTrans
» fer(v_TransferId);
1093
1094         f_cf_Broadcast_down();
1095         f_cf_Data_down();
1096         f_cf_UpperTester_down();
1097     }// end test case TC_BCAST_ESG_CO
» NF_106
1098         // change 39 (WK18): testcase des
» cription extension
1099         with {extension "Description: 5.2
» .6 Service guide with Preview Data via broadcast channe
» l"}
1100
1101         /**
1102         *
1103         * @desc
1104         * <p>Service Guide with dual
» audio streams via broadcast channel</p>
1105         * <p>Test Case Description</p>
» >
1106         * <p>with a terminal listenin
» g to the broadcast Service Guide Delivery Channel.</p>
1107         * <p>when the terminal receiv
» es Service Guide containing one content fragment associ
» ated with two access fragments pointing to different au

```

```

1083         f_main_ut_RunBCastApplica
» tion();
1084         if (PX_GET_SG_DISPLAY_MAN
» UALLY) {
1085             f_main_ut_GetServ
» iceGuide(PX_SGDD_ID);
1086         }
1087         f_main_ut_CheckService("T
» vChannel");
1088         f_main_ut_CheckPreview("i
» con TvChannelIcon.jpg or text ""TV Channel icon""");
1089         // postamble
1090     »
1091         f_main_ut_PowerOff();
1092         f_main_data_stopFileTrans
» fer(v_TransferId);
1093
1094         f_cf_Broadcast_down();
1095         f_cf_Data_down();
1096         f_cf_UpperTester_down();
1097     }// end test case TC_BCAST_ESG_CO
» NF_106
1098         // change 39 (WK18): testcase des
» cription extension
1099         with {extension "Description: 5.2
» .6 Service guide with Preview Data via broadcast channe
» l"}
1100
1101         /**
1102         *
1103         * @desc
1104         * <p>Service Guide with dual
» audio streams via broadcast channel</p>
1105         * <p>Test Case Description</p>
» >
1106         * <p>with a terminal listenin
» g to the broadcast Service Guide Delivery Channel.</p>
1107         * <p>when the terminal receiv
» es Service Guide containing one content fragment associ
» ated with two access fragments pointing to different au

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(continued)

» dio streams</p>	» dio streams</p>
1108 * <p>then the terminal presen	1108 * <p>then the terminal presen
» ts the information of the Service Guide and is capable	» ts the information of the Service Guide and is capable
» of associating the content with both access fragments.<	» of associating the content with both access fragments.<
» /p>	» /p>
1109 * <p>Specification Reference<	1109 * <p>Specification Reference<
» /p>	» /p>
1110 * <p>[BCAST10-ESG] Section 5.	1110 * <p>[BCAST10-ESG] Section 5.
» 5.1, 6.1.1, 7.2.1, Appendix C.3 (informative)</p>	» 5.1, 6.1.1, 7.2.1, Appendix C.3 (informative)</p>
1111 * <p>Preconditions</p>	1111 * <p>Preconditions</p>
1112 * <p>Service guide cache of t	1112 * <p>Service guide cache of t
» ermental is erased</p>	» ermental is erased</p>
1113 * <p>Terminal is configured t	1113 * <p>Terminal is configured t
» o listen to BCAST service guide announcements and deliv	» o listen to BCAST service guide announcements and deliv
» ery on the broadcast channel</p>	» ery on the broadcast channel</p>
1114 * <p>Access point information	1114 * <p>Access point information
» for service guide entry point is configured in test to	» for service guide entry point is configured in test to
» ol</p>	» ol</p>
1115 * <p>This test cases uses the	1115 * <p>This test cases uses the
» following SG fragment instantiations and files found i	» following SG fragment instantiations and files found i
» n the Appendix:	» n the Appendix:
1116 * 	1116 *
1117 * Service fragment	1117 * Service fragment
» with Name="TvChannel"	» with Name="TvChannel"
1118 * Content fragment	1118 * Content fragment
» with Name="Programme"	» with Name="Programme"
1119 * Schedule fragme	1119 * Schedule fragme
» nt for content fragment	» nt for content fragment
1120 * Access fragment	1120 * Access fragment
» for schedule fragment with BroadcastServiceDelivery ele	» for schedule fragment with BroadcastServiceDelivery ele
» ment and a reference to the "Programme_eng" session des	» ment and a reference to the "Programme_eng" session des
» cription fragment 	» cription fragment
1121 * Session Descript	1121 * Session Descript
» ion fragment containing SDP for "Programme_eng"(audio l	» ion fragment containing SDP for "Programme_eng"(audio l
» anguage is English)	» anguage is English)
1122 * Second schedule	1122 * Second schedule
» fragment for content fragment	» fragment for content fragment
1123 * Access fragment	1123 * Access fragment
» for second schedule fragment with BroadcastServiceDeliv	» for second schedule fragment with BroadcastServiceDeliv
» ery element and a reference to the "Programme_ger" sess	» ery element and a reference to the "Programme_ger" sess
» ion description fragment	» ion description fragment

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(continued)

<pre> 1124 * Session Descript » ion fragment containing SDP for "Programme_ger"(audio 1 » anguage is German) 1125 * Terminal provide » s means for the user in selecting the audio language.</ » li> 1126 * 1127 * </p> 1128 * <p>Note: All the fragments » are associated with the same Service fragment and are s » ent in the same service guide delivery</p> 1129 * <p>Test Procedure</p> 1130 * <p> 1131 * 1132 * Set up the test » tool to produce BCAST service guide announcement and de » livery using broadcast channel. 1133 * Activate the BCA » ST application of the terminal 1134 * Request from BCA » ST application on terminal to get the service guide (op » tional) 1135 * Browse the SG in » the terminal 1136 * Setup the test t » ool to stream video, English audio, and German audio vi » a the broadcast channel as defined by the SDP fragments » 1137 * Select English a » s the audio language for "Programme" 1138 * Start viewing "P » rogramme" 1139 * Select German as » the audio language for "Programme" 1140 * Continue viewing » "Programme" 1141 * 1142 * </p> 1143 * <p>Pass-Criteria</p> 1144 * <p>The following should be » visible and audible to the end user after the delivery </pre>	<pre> 1124 * Session Descript » ion fragment containing SDP for "Programme_ger"(audio 1 » anguage is German) 1125 * Terminal provide » s means for the user in selecting the audio language.</ » li> 1126 * 1127 * </p> 1128 * <p>Note: All the fragments » are associated with the same Service fragment and are s » ent in the same service guide delivery</p> 1129 * <p>Test Procedure</p> 1130 * <p> 1131 * 1132 * Set up the test » tool to produce BCAST service guide announcement and de » livery using broadcast channel. 1133 * Activate the BCA » ST application of the terminal 1134 * Request from BCA » ST application on terminal to get the service guide (op » tional) 1135 * Browse the SG in » the terminal 1136 * Setup the test t » ool to stream video, English audio, and German audio vi » a the broadcast channel as defined by the SDP fragments » 1137 * Select English a » s the audio language for "Programme" 1138 * Start viewing "P » rogramme" 1139 * Select German as » the audio language for "Programme" 1140 * Continue viewing » "Programme" 1141 * 1142 * </p> 1143 * <p>Pass-Criteria</p> 1144 * <p>The following should be » visible and audible to the end user after the delivery </pre>
--	--

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1145      *      <ul>
1146      *      <li>There is a servi
» ce "TvChannel" associated with a programme "Programme".
» </li>
1147      *      <li>"Programme" can
» be viewed by the end user with English as the audio lan
» guage.</li>
1148      *      <li>"Programme" can
» be viewed by the end user with German as the audio lang
» uage.</li>
1149      *      </ul>
1150      *      </p>
1151      *      @verdict
1152      *      pass in case the client pas
» s the conformance test.
1153      *      @verdict
1154      *      fail in case the client doe
» s not pass the conformance test.
1155      *      @verdict
1156      *      inconc in case a guard time
» r expires.
1157      */
1158      testcase TC_BCAST_ESG_CONF_107()
» runs on BCastMainComponent system BCastPlatformComponen
» t {
1159          // init components and po
» rts
1160          f_createComponents();
1161          f_cf_Broadcast_up();
1162          f_cf_UpperTester_up();
1163
1164          // preamble
1165          // change 14 (WK18): dyna
» mic setting of destination IP
1166          f_main_data_startStreamin
» gFile(0, PX_FILE_VIDEO_PROG1, PX_SDP_VIDEO_PROG_1, PX_D
» ATA_STREAMING_DESTINATION_IP_1);
1167          f_main_data_startStreamin
» gFile(1, PX_FILE_AUDIO_ENG, PX_SDP_AUDIO_ENG, PX_DATA_S
» TREAMING_DESTINATION_IP_2);

```

```

1145      *      <ul>
1146      *      <li>There is a servi
» ce "TvChannel" associated with a programme "Programme".
» </li>
1147      *      <li>"Programme" can
» be viewed by the end user with English as the audio lan
» guage.</li>
1148      *      <li>"Programme" can
» be viewed by the end user with German as the audio lang
» uage.</li>
1149      *      </ul>
1150      *      </p>
1151      *      @verdict
1152      *      pass in case the client pas
» s the conformance test.
1153      *      @verdict
1154      *      fail in case the client doe
» s not pass the conformance test.
1155      *      @verdict
1156      *      inconc in case a guard time
» r expires.
1157      */
1158      testcase TC_BCAST_ESG_CONF_107()
» runs on BCastMainComponent system BCastPlatformComponen
» t {
1159          // init components and po
» rts
1160          f_createComponents();
1161          f_cf_Broadcast_up();
1162          f_cf_UpperTester_up();
1163
1164          // preamble
1165          // change 14 (WK18): dyna
» mic setting of destination IP
1166          f_main_data_startStreamin
» gFile(0, PX_FILE_VIDEO_PROG1, PX_SDP_VIDEO_PROG_1, PX_D
» ATA_STREAMING_DESTINATION_IP_1);
1167          f_main_data_startStreamin
» gFile(1, PX_FILE_AUDIO_ENG, PX_SDP_AUDIO_ENG, PX_DATA_S
» TREAMING_DESTINATION_IP_2);

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1168      f_main_data_startStreamin
    » gFile(2, PX_FILE_AUDIO_GER, PX_SDP_AUDIO_GER, PX_DATA_S
    » TREAMING_DESTINATION_IP_2);
1169
1170      f_startCommonUtPreamble()
    » ;
1171
1172      // test behavior
1173      var ServiceGuideDeliveryU
    » nit v_SGDU := {};
1174      var UInt32 v_Version := 1
    » ;
1175
1176      f_main_ctrl_InitStartEndT
    » ime(c_one_hour,c_one_hour);
    » // change 01 (WK 6): global time definition
1177
1178      var DateTime v_DateTime_S
    » tartTime := f_getDateTime(v_startTime);
    » // change 01 (WK 6): global time definition
1179      var DateTime v_DateTime_E
    » ndTime := f_getDateTime(v_endTime);
    » // change 01 (WK 6): global time definition
1180
1181      var SdpFragment v_Sdp1 :=
    » valueof(m_def_SdpFragment(
1182          PX_SDP_VIDEO_PROG
    » _1_REF_ID,
1183          PX_SDP_AUDIO_ENG
1184      ));
1185
1186      var SdpFragment v_Sdp2 :=
    » valueof(m_def_SdpFragment(
1187          PX_SDP_VIDEO_PROG
    » _2_REF_ID,
1188          PX_SDP_AUDIO_GER
1189      ));
1190
1191      var AccessTypeType v_Acce
    » ssType1 := valueof(m_def_AccessType_bc_sdp(
1192          f_getAccessType(P

```

```

1168      f_main_data_startStreamin
    » gFile(2, PX_FILE_AUDIO_GER, PX_SDP_AUDIO_GER, PX_DATA_S
    » TREAMING_DESTINATION_IP_2);
1169
1170      f_startCommonUtPreamble()
    » ;
1171
1172      // test behavior
1173      var ServiceGuideDeliveryU
    » nit v_SGDU := {};
1174      var UInt32 v_Version := 1
    » ;
1175
1176      f_main_ctrl_InitStartEndT
    » ime(c_one_hour,c_one_hour);
    » // change 01 (WK 6): global time definition
1177
1178      var DateTime v_DateTime_S
    » tartTime := f_getDateTime(v_startTime);
    » // change 01 (WK 6): global time definition
1179      var DateTime v_DateTime_E
    » ndTime := f_getDateTime(v_endTime);
    » // change 01 (WK 6): global time definition
1180
1181      var SdpFragment v_Sdp1 :=
    » valueof(m_def_SdpFragment(
1182          PX_SDP_VIDEO_PROG
    » _1_REF_ID,
1183          PX_SDP_AUDIO_ENG
1184      ));
1185
1186      var SdpFragment v_Sdp2 :=
    » valueof(m_def_SdpFragment(
1187          PX_SDP_VIDEO_PROG
    » _2_REF_ID,
1188          PX_SDP_AUDIO_GER
1189      ));
1190
1191      var AccessTypeType v_Acce
    » ssType1 := valueof(m_def_AccessType_bc_sdp(
1192          f_getAccessType(P

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<pre> 1193 » X_BROADCAST_NETWORK_BEARER), PX_SDP_VIDEO_PROG 1194 » _1_REF_ID)); 1195 1196 var AccessTypeType v_Acce 1197 » ssType2 := valueof(m_def_AccessType_bc_sdp(f_getAccessType(P 1198 » X_BROADCAST_NETWORK_BEARER), PX_SDP_VIDEO_PROG 1199 » _2_REF_ID)); 1200 1201 var ServiceType v_Service 1202 » := valueof(m_def_Service(PX_SGDU_SERVICE_I 1203 » D, v_Version, 1204 "TvChannel", 1205 c_basicTv_Service 1206 » Type)); 1207 1208 var ContentType v_Content 1209 » := valueof(m_def_Content(PX_SGDU_CONTENT_I 1210 » D_PROG_1, v_Version, 1211 "Programme", 1212 PX_SGDU_SERVICE_I 1213 » D, v_DateTime_StartT 1214 » ime, v_DateTime_EndTim 1215 » e)); 1216 1217 var ScheduleType v_Schedu 1218 » le1 := valueof(m_def_Schedule(PX_SGDU_SCHEDULE_ 1219 » ID_PROG_1,</pre>	<pre> 1193 » X_BROADCAST_NETWORK_BEARER), PX_SDP_VIDEO_PROG 1194 » _1_REF_ID)); 1195 1196 var AccessTypeType v_Acce 1197 » ssType2 := valueof(m_def_AccessType_bc_sdp(f_getAccessType(P 1198 » X_BROADCAST_NETWORK_BEARER), PX_SDP_VIDEO_PROG 1199 » _2_REF_ID)); 1200 1201 var ServiceType v_Service 1202 » := valueof(m_def_Service(PX_SGDU_SERVICE_I 1203 » D, v_Version, 1204 "TvChannel", 1205 c_basicTv_Service 1206 » Type)); 1207 1208 var ContentType v_Content 1209 » := valueof(m_def_Content(PX_SGDU_CONTENT_I 1210 » D_PROG_1, v_Version, 1211 "Programme", 1212 PX_SGDU_SERVICE_I 1213 » D, v_DateTime_StartT 1214 » ime, v_DateTime_EndTim 1215 » e)); 1216 1217 var ScheduleType v_Schedu 1218 » le1 := valueof(m_def_Schedule(PX_SGDU_SCHEDULE_ 1219 » ID_PROG_1,</pre>
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1219	v_Version,	1219	v_Version,
1220	PX_SGDU_SERVICE_I	1220	PX_SGDU_SERVICE_I
» D,		» D,	
1221	PX_SGDU_CONTENT_I	1221	PX_SGDU_CONTENT_I
» D_PROG_1,		» D_PROG_1,	
1222	v_startTime,	1222	v_startTime,
»	// c	»	// c
» hange 01 (WK 6): global time definition		» hange 01 (WK 6): global time definition	
1223	v_endTime	1223	v_endTime
»	// c	»	// c
» hange 01 (WK 6): global time definition		» hange 01 (WK 6): global time definition	
1224	));	1224));
1225		1225	
1226		1226	
1227	var ScheduleType v_Schedu	1227	var ScheduleType v_Schedu
» le2 := valueof(m_def_Schedule(		» le2 := valueof(m_def_Schedule(
1228	PX_SGDU_SCHEDULE_	1228	PX_SGDU_SCHEDULE_
» ID_PROG_2,		» ID_PROG_2,	
1229	v_Version,	1229	v_Version,
1230	PX_SGDU_SERVICE_I	1230	PX_SGDU_SERVICE_I
» D,		» D,	
1231	PX_SGDU_CONTENT_I	1231	PX_SGDU_CONTENT_I
» D_PROG_2,		» D_PROG_2,	
1232	v_startTime,	1232	v_startTime,
»	// c	»	// c
» hange 01 (WK 6): global time definition		» hange 01 (WK 6): global time definition	
1233	v_endTime	1233	v_endTime
»	// c	»	// c
» hange 01 (WK 6): global time definition		» hange 01 (WK 6): global time definition	
1234	));	1234));
1235		1235	
1236	var AccessType v_Access1	1236	var AccessType v_Access1
» := valueof(m_def_Access(		» := valueof(m_def_Access(
1237	PX_SGDU_ACCESS_ID	1237	PX_SGDU_ACCESS_ID
» _PROG_1,		» _PROG_1,	
1238	v_Version,	1238	v_Version,
1239	v_AccessType1,	1239	v_AccessType1,
1240	PX_SGDU_SERVICE_I	1240	PX_SGDU_SERVICE_I
» D,		» D,	
1241	PX_SGDU_SCHEDULE_	1241	PX_SGDU_SCHEDULE_
» ID_PROG_1,		» ID_PROG_1,	

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<pre> 1242 c_class_ST // cha » nge 35 (WK18): Check Service Class of Access Fragments: » ST, SG, FC: ST when access references video, FC for fi » le distribution, otherwise SG. 1243)); 1244 1245 var AccessType v_Access2 » := valueof(m_def_Access(1246 PX_SGDU_ACCESS_ID » _PROG_2, 1247 v_Version, 1248 v_AccessType2, 1249 PX_SGDU_SERVICE_I » D, 1250 PX_SGDU_SCHEDULE_ » ID_PROG_2, 1251 c_class_ST // cha » nge 35 (WK18): Check Service Class of Access Fragments: » ST, SG, FC: ST when access references video, FC for fi » le distribution, otherwise SG. 1252)); 1253 1254 // CR 26/8: generic funct » ion for adding XML fragments 1255 f_addXMLFragment(v_SGDU, » {Service := v_Service}); 1256 f_addXMLFragment(v_SGDU, » {Content := v_Content}); 1257 f_addXMLFragment(v_SGDU, » {Schedule := v_Schedule1}); 1258 f_addXMLFragment(v_SGDU, » {Access := v_Access1}); 1259 f_addXMLFragment(v_SGDU, » {Schedule := v_Schedule2}); 1260 f_addXMLFragment(v_SGDU, » {Access := v_Access2}); 1261 f_addSdpFragment(v_SGDU, » v_Version, v_Sdp1); 1262 f_addSdpFragment(v_SGDU, » v_Version, v_Sdp2); 1263 </pre>	<pre> 1242 c_class_ST // cha » nge 35 (WK18): Check Service Class of Access Fragments: » ST, SG, FC: ST when access references video, FC for fi » le distribution, otherwise SG. 1243)); 1244 1245 var AccessType v_Access2 » := valueof(m_def_Access(1246 PX_SGDU_ACCESS_ID » _PROG_2, 1247 v_Version, 1248 v_AccessType2, 1249 PX_SGDU_SERVICE_I » D, 1250 PX_SGDU_SCHEDULE_ » ID_PROG_2, 1251 c_class_ST // cha » nge 35 (WK18): Check Service Class of Access Fragments: » ST, SG, FC: ST when access references video, FC for fi » le distribution, otherwise SG. 1252)); 1253 1254 // CR 26/8: generic funct » ion for adding XML fragments 1255 f_addXMLFragment(v_SGDU, » {Service := v_Service}); 1256 f_addXMLFragment(v_SGDU, » {Content := v_Content}); 1257 f_addXMLFragment(v_SGDU, » {Schedule := v_Schedule1}); 1258 f_addXMLFragment(v_SGDU, » {Access := v_Access1}); 1259 f_addXMLFragment(v_SGDU, » {Schedule := v_Schedule2}); 1260 f_addXMLFragment(v_SGDU, » {Access := v_Access2}); 1261 f_addSdpFragment(v_SGDU, » v_Version, v_Sdp1); 1262 f_addSdpFragment(v_SGDU, » v_Version, v_Sdp2); 1263 </pre>
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1264		1264	
1265	f_main_ctrl_broadcastServ	1265	f_main_ctrl_broadcastServ
	» iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (W		» iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (W
	» K 34/2008): Flute Update Signalling		» K 34/2008): Flute Update Signalling
1266		1266	
1267	f_main_ut_RunBCastApplica	1267	f_main_ut_RunBCastApplica
	» tion();		» tion();
1268	if (PX_GET_SG_DISPLAY_MAN	1268	if (PX_GET_SG_DISPLAY_MAN
	» UALLY) {		» UALLY) {
1269	f_main_ut_GetServ	1269	f_main_ut_GetServ
	» iceGuide(PX_SGDD_ID);		» iceGuide(PX_SGDD_ID);
1270	}	1270	}
1271	f_main_ut_CheckService("T	1271	f_main_ut_CheckService("T
	» vChannel");		» vChannel");
1272	f_main_ut_SelectService("	1272	f_main_ut_SelectService("
	» TvChannel");		» TvChannel");
1273	f_main_ut_CheckContent("P	1273	f_main_ut_CheckContent("P
	» rogramme", v_DateTime_StartTime, v_DateTime_EndTime);		» rogramme", v_DateTime_StartTime, v_DateTime_EndTime);
1274		1274	
1275	f_main_ut_SelectLanguage(	1275	f_main_ut_SelectLanguage(
	» e_audio, "English");		» e_audio, "English");
1276	f_main_ut_UseService("TvC	1276	f_main_ut_UseService("TvC
	» hannel");		» hannel");
1277	f_main_ut_CheckLanguage("	1277	f_main_ut_CheckLanguage("
	» Programme", e_audio, "English");		» Programme", e_audio, "English");
1278	f_main_ut_SelectLanguage(	1278	f_main_ut_SelectLanguage(
	» e_audio, "German");		» e_audio, "German");
1279	f_main_ut_UseService("TvC	1279	f_main_ut_UseService("TvC
	» hannel");		» hannel");
1280	f_main_ut_CheckLanguage("	1280	f_main_ut_CheckLanguage("
	» Programme", e_audio, "German");		» Programme", e_audio, "German");
1281		1281	
1282	// postamble	1282	// postamble
	»		»
1283	f_main_ut_PowerOff();	1283	f_main_ut_PowerOff();
1284	f_main_data_stopStreaming	1284	f_main_data_stopStreaming
	» (0);		» (0);
1285	f_main_data_stopStreaming	1285	f_main_data_stopStreaming
	» (1);		» (1);
1286	f_main_data_stopStreaming	1286	f_main_data_stopStreaming
	» (2);		» (2);

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1287			1287	
1288	f_cf_Broadcast_down();		1288	f_cf_Broadcast_down();
1289	f_cf_UpperTester_down();		1289	f_cf_UpperTester_down();
1290	}// end test case TC_BCAST_ESG_CO		1290	}// end test case TC_BCAST_ESG_CO
» NF_107			» NF_107	
1291	// change 39 (WK18): testcase des		1291	// change 39 (WK18): testcase des
» cription extension			» cription extension	
1292	with {extension "Description: 5.2		1292	with {extension "Description: 5.2
» .7 Service Guide with dual audio streams via broadcast			» .7 Service Guide with dual audio streams via broadcast	
» channel"}			» channel"}	
1293			1293	
1294	//deleted TC 108 CR 2008-0067	<>	1294	/**
			1295	*
			1296	* @desc
			1297	* <p>Service guide with purch
			» ase information</p>	
			1298	* <p>Test Case Description</p>
			» >	
			1299	* <p>with a terminal listenin
			» g to the broadcast Service Guide Delivery Channel.</p>	
			1300	* <p>when the terminal receiv
			» es Service Guide containing purchase item, purchase cha	
			» nnel and purchase data fragments</p>	
			1301	* <p>then the terminal presen
			» ts the information of the Service Guide</p>	
			1302	* <p>Specification Reference<
			» /p>	
			1303	* <p>[BCAST10-ESG] Section 5.
			» 1.2.6, 5.1.2.7, 5.1.2.8, 5.5.1, 6.1.1 [BCAST10-sServ	
			» ices]</p>	
			1304	* <p>Preconditions</p>
			1305	* <p>Service guide cache of t
			» erminial is erased</p>	
			1306	* <p>Terminal is configured t
			» o listen to BCAST service guide announcements and deliv	
			» ery on the broadcast channel</p>	
			1307	* <p>Access point information
			» for service guide entry point is configured in test to	
			» ol</p>	
			1308	* <p>This test cases uses the
			» following SG fragment instantiations found in the Appe	

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» ndix:
1309          *      <ul>
1310          *      <li>Service fragment
»    with Name="PayTvChannel"</li>
1311          *      <li>Content fragment
»    with Name="Programme", and StartTime and EndTime elements
»    indicating values after the time of test</li>
1312          *      <li>Schedule fragment
»    for content fragment with same values for startTime and
»    endTime in the presentationWindow element</li>
1313          *      <li>Access fragment
»    for schedule fragment with BroadcastServiceDelivery, Key
»    Management, and EncryptionType elements and a reference
»    to the session description fragment</li>
1314          *      <li>Session Description
»    fragment containing SDP for "Programme"</li>
1315          *      <li>PurchaseItem fragment
»    for service fragment</li>
1316          *      <li>PurchaseData fragment
»    for purchaseItem fragment with PriceInfo and Description
»    "Discount" elements</li>
1317          *      <li>PurchaseChannel
»    fragment for purchaseItem fragment with PurchaseURL pointing
»    to a subscription site</li>
1318          *      </ul>
1319          *      </p>
1320          *      <p>Note: All the fragments
»    are associated with the same Service fragment and are sent
»    in the same service guide delivery.</p>
1321          *      <p>Test Procedure</p>
1322          *      <p>
1323          *      <ul>
1324          *      <li>Set up the test
»    tool to produce BCAST service guide announcement and delivery
»    using broadcast channel.</li>
1325          *      <li>Activate the BCAST
»    application of the terminal</li>
1326          *      <li>Request from BCAST
»    application on terminal to get the service guide (optional)
»    </li>
1327          *      <li>Browse the SG in

```

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(continued)

```

1328     » the terminal</li>
1329         *      </ul>
1330         *      </p>
1331         *      <p>Pass-Criteria</p>
1332         *      <p>The following should be
1333     » visible on terminal to the end user after the delivery
1334     » of the SG
1335         *      <ul>
1336         *      <li>The service "Pay
1337     » TvChannel" is displayed with "Programme" schedule from
1338     » start to end time, available as "Discount" purchase, an
1339     » d price information </li>
1340         *      </ul>
1341         *      </p>
1342         *      @verdict
1343     » s the conformance test.
1344         *      @verdict
1345         *      fail in case the client doe
1346     » s not pass the conformance test.
1347         *      @verdict
1348         *      inconc in case a guard time
1349     » r expires.
1350         */
1351         testcase TC_BCAST_ESG_CONF_108()
1352     » runs on BCastMainComponent system BCastPlatformComponen
1353     » t {
1354         // init components and po
1355     » rts
1356         f_createComponents();
1357         f_cf_Broadcast_up();
1358         f_cf_UpperTester_up();
1359         // preamble
1360         f_startCommonUtPreamble()
1361     » ;
1362         // test behavior
1363         var ServiceGuideDeliveryU
1364     » nit v_SGDU := {};
1365         var UInt32 v_FragmentVers

```

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(continued)

```

1355 » ion := 1;
1356                                     f_main_ctrl_InitStartEndT
1357 » ime(c_one_hour,c_one_hour);
1358 » // change 01 (WK 6): global time definition
1359                                     var DateTime v_DateTime_S
1360 » tartTime := f_getDateTime(v_startTime);
1361 » // change 01 (WK 6): global time definition
1362                                     var DateTime v_DateTime_E
1363 » ndTime := f_getDateTime(v_endTime);
1364 » // change 01 (WK 6): global time definition
1365                                     var SdpFragment v_Sdp :=
1366 » valueof(m_def_SdpFragment(
1367                                     PX_SDP_VIDEO_PROG
1368 » _1_REF_ID,
1369                                     PX_SDP_VIDEO_PROG
1370 » _1
1371                                     ));
1372                                     var AccessTypeType v_Acce
1373 » ssType := valueof(m_def_AccessType_bc_sdp(
1374                                     f_getAccessType(P
1375 » X_BROADCAST_NETWORK_BEARER),
1376                                     PX_SDP_VIDEO_PROG
1377 » _1_REF_ID
1378                                     ));
1379                                     var PriceInfoType v_Price
1380 » Info := valueof(m_PriceInfo(
1381                                     1,
1382                                     PX_MONETARY_PRICE
1383 » ,
1384                                     PX_CURRENCY
1385 » ));
1386                                     var ServiceType v_Service
1387 » := valueof(m_def_Service(
1388                                     PX_SGDU_SERVICE_I
1389 » D,

```

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(continued)

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1379                                     v_FragmentVersion
1380     » ,
1381                                     "PayTvChannel",
1382                                     c_basicTv_Service
1383     » Type
1384                                     ));
1385                                     var ContentType v_Content
1386     » := valueof(m_def_Content(
1387                                     PX_SGDU_CONTENT_I
1388     » D_PROG_1,
1389                                     v_FragmentVersion
1390     » ,
1391                                     "Programme",
1392                                     PX_SGDU_SERVICE_I
1393     » D,
1394                                     v_DateTime_StartT
1395     » ime,
1396                                     v_DateTime_EndTim
1397     » e
1398                                     ));
1399                                     var ScheduleType v_Schedu
1400     » le := valueof(m_def_Schedule(
1401                                     PX_SGDU_SCHEDULE_
1402     » ID_PROG_1,
1403                                     v_FragmentVersion
1404     » ,
1405                                     PX_SGDU_SERVICE_I
1406     » D,
1407                                     PX_SGDU_CONTENT_I
1408     » D_PROG_1,
1409                                     v_startTime,
1410                                     // change 01 (WK 6
1411     » ): global time definition
1412                                     v_endTime
1413     »                                     // change 01 (WK 6
1414     » ): global time definition
1415                                     ));
1416                                     // TODO: Omitted here is

```

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(continued)

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1403   » setting of KMS value (see open issues) but omission may
1404   » be ok in this test case
1405   var AccessType v_Access :
1406   » = valueof(m_def_Access(
1407   »   PX_SGDU_ACCESS_ID
1408   »   _PROG_1,
1409   »   v_FragmentVersion
1410   »   ,
1411   »   v_AccessType,
1412   »   PX_SGDU_SERVICE_I
1413   »   D,
1414   »   PX_SGDU_SCHEDULE_
1415   »   ID_PROG_1,
1416   »   c_class_SG
1417   » ));
1418   var PurchaseItemType v_Pu
1419   » rchaseItem := valueof(m_def_PurchaseItem(
1420   »   PX_SGDU_PURCHASE_
1421   »   ITEM_ID,
1422   »   v_FragmentVersion
1423   »   ,
1424   »   PX_SGDU_PURCHASE_
1425   »   DATA_ID,
1426   »   PX_SGDU_SERVICE_I
1427   »   D,
1428   »   "PurchaseItem1"
1429   » ));
1430   var PurchaseChannelType v
1431   » _PurchaseChannel := valueof(m_def_PurchaseChannel(
1432   »   PX_SGDU_PURCHASE_
1433   »   CHANNEL_ID,
1434   »   v_FragmentVersion
1435   »   ,
1436   »   "PurchaseChannel"
1437   »   ,
1438   »   PX_PURCHASE_URL
1439   » ));
1440   var PurchaseDataType v_Pu

```

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(continued)

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```

1428 » rchaseData := valueof(m_def_PurchaseData (
                                PX_SGDU_PURCHASE_
1429 » DATA_ID,
                                v_FragmentVersion
1430 » ,
                                {{omit,"Discount"
1431 » }},
                                PX_SGDU_PURCHASE_
1432 » ITEM_ID,
                                PX_SGDU_PURCHASE_
1433 » CHANNEL_ID,
                                v_PriceInfo
1434 » ));
1435
1436 // CR 26/8: generic funct
1437 » ion for adding XML fragments
1438 » {Service := v_Service});
1439 » f_addXMLFragment(v_SGDU,
1440 » {Content := v_Content});
1441 » f_addXMLFragment(v_SGDU,
1442 » {Schedule := v_Schedule});
1443 » f_addXMLFragment(v_SGDU,
1444 » {Access := v_Access});
1445 » f_addXMLFragment(v_SGDU,
1446 » {PurchaseItem := v_PurchaseItem});
1447 » f_addXMLFragment(v_SGDU,
1448 » {PurchaseChannel := v_PurchaseChannel});
1449 » f_addXMLFragment(v_SGDU,
1450 » {PurchaseData := v_PurchaseData});
1451 » f_addSdpFragment(v_SGDU,
1452 » v_FragmentVersion, v_Sdp);
1453
1454 f_main_ctrl_broadcastServ
1455 » iceGuide(v_SGDU, omit, vc_FluteUpdateID); // CR (W
1456 » K 34/2008): Flute Update Signalling
1457
1458 f_main_ut_RunBCastApplica
1459 » tion();
1460
1461 if (PX_GET_SG_DISPLAY_MAN
1462 » UALLY) {

```


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			1450	f_main_ut_GetServ
			» iceGuide(PX_SGDD_ID);	
			1451	}
			1452	f_main_ut_CheckService("P
			» ayTvChannel");	
			1453	f_main_ut_SelectService("
			» PayTvChannel");	
			1454	f_main_ut_CheckContent("P
			» rogramme", v_DateTime_StartTime, v_DateTime_EndTime);	
			1455	f_main_ut_CheckPurchaseIn
			» fo("Discount");	
			1456	
			1457	// postamble
			»	
			1458	f_main_ut_PowerOff();
			1459	
			1460	f_cf_Broadcast_down();
			1461	f_cf_UpperTester_down();
			1462	}// end test case TC_BCAST_ESG_CO
			» NF_108	
			1463	// change 39 (WK18): testcase des
			» cription extension	
			1464	with {extension "Description: 5.2
			» .8 Service Guide update via interaction channel (same f	
			» ragment id, higher version number)"}	
1296	} // end group clientConformanceTestCases	=	1465	} // end group clientConformanceTestCases
1297	}// end group bcastConformanceTestCases		1466	}// end group bcastConformanceTestCases
1298	}		1467	}