

# Signage cms2.3.3 About dynamic playlist behavior when media is reallocated

In the player's Documents:

## ■schedule.xml

- Each layout to be played is listed in a list
- and the dependencies between layouts and media are described.
- Detailed information for each layout is not written (described in the xlf file of the corresponding ID)

```
Get Started 135.xlf schedule.xml X
C:\> Users > MIC1287.KK-MIC > Desktop > クソデカファイル > xibo > schedule.xml
1 <?xml version="1.0"?>
2 <schedule generated="2023-09-11 14:51:44" filterFrom="2023-09-11 14:00:00" filterTo="202
3 <layout file="135" fromdt="1970-01-01 09:00:00" todt="2038-01-19 12:14:07" scheduleid=
4 <dependents>
5 <file>386.jpg</file>
6 <file>387.jpg</file>
7 <file>388.jpg</file>
8 <file>389.jpg</file>
9 <file>390.jpg</file>
10 <file>391.jpg</file>
11 <file>392.jpg</file>
12 <file>393.jpg</file>
13 <file>399.jpg</file>
14 <file>400.jpg</file>
15 </dependents>
16 </layout>
17 <default file="1"/>
18 <dependants>
19 <file>jquery-1.11.1.min.js</file>
20 <file>moment.js</file>
21 <file>xibo-layout-scaler.js</file>
22 <file>xibo-text-render.js</file>
23 <file>Chart.min.js</file>
24 <file>jquery-cycle-2.1.6.min.js</file>
25 <file>flipclock.min.js</file>
26 <file>xibo-countdown-render.js</file>
27 <file>jquery.marquee.min.js</file>
28 <file>xibo-image-render.js</file>
29 <file>xibo-dataset-render.js</file>
30 <file>12.otf</file>
31 <file>13.otf</file>
32 <file>14.ttf</file>
33 <file>15.ttf</file>
34 <file>16.otf</file>
35 <file>pdf.js</file>
36 <file>pdf.worker.js</file>
37 <file>compatibility.js</file>
38 <file>xibo-webpage-render.js</file>
39 <file>146.ttf</file>
40 <file>fonts.css</file>
41 <file>148.ttf</file>
42 </dependants>
43 </schedule>
44
```

■xxx.xlf xxx is the layout ID.

- The specific implementation of the layout is described in markup format (see the image below)
- As shown below, with the Region > Media structure, the layout (there is no ID information for sub-playlists, and there is no connection between layout and media) )

This time, in order to investigate the context, let's look at the layout of id = 135, where we previously investigated the display order of serial numbers 0 to 9.

```
1 <?xml version="1.0"?>
2 <layout width="1920" height="1080" bgcolor="#000" schemaVersion="3" enableStat="1">
3   <region id="269" width="1686" height="880" top="0" left="0">
4     <options>
5       <loop>0</loop>
6       <transitionDirection>N</transitionDirection>
7       <transitionDuration/>
8       <transitionType/>
9     </options>
10    <media id="851" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
11      <options>
12        <uri>386.jpg</uri>
13        <enableStat>Inherit</enableStat>
14        <scaleType>center</scaleType>
15      </options>
16      <raw/>
17    </media>
18    <media id="852" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
19      <options>
20        <uri>387.jpg</uri>
21        <enableStat>Inherit</enableStat>
22        <scaleType>center</scaleType>
23      </options>
24      <raw/>
25    </media>
26    <media id="853" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
27      <options>
28        <uri>388.jpg</uri>
29        <enableStat>Inherit</enableStat>
30        <scaleType>center</scaleType>
31      </options>
32      <raw/>
33    </media>
34    <media id="854" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
35      <options>
36        <uri>389.jpg</uri>
37        <enableStat>Inherit</enableStat>
38        <scaleType>center</scaleType>
39      </options>
40      <raw/>
41    </media>
42    <media id="855" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
43      <options>
44        <uri>390.jpg</uri>
45        <enableStat>Inherit</enableStat>
46        <scaleType>center</scaleType>
47      </options>
48      <raw/>
49    </media>
50    <media id="856" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
51      <options>
52        <uri>391.jpg</uri>
53        <enableStat>Inherit</enableStat>
54        <scaleType>center</scaleType>
```

```
55     </options>
56     <raw/>
57 </media>
58 <media id="857" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
59     <options>
60         <uri>392.jpg</uri>
61         <enableStat>Inherit</enableStat>
62         <scaleType>center</scaleType>
63     </options>
64     <raw/>
65 </media>
66 <media id="858" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
67     <options>
68         <uri>393.jpg</uri>
69         <enableStat>Inherit</enableStat>
70         <scaleType>center</scaleType>
71     </options>
72     <raw/>
73 </media>
74 <media id="873" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
75     <options>
76         <uri>399.jpg</uri>
77         <enableStat>Inherit</enableStat>
78         <scaleType>center</scaleType>
79     </options>
80     <raw/>
81 </media>
82 <media id="874" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
83     <options>
84         <uri>400.jpg</uri>
85         <enableStat>Inherit</enableStat>
86         <scaleType>center</scaleType>
87     </options>
88     <raw/>
89 </media>
90 </region>
91 <region id="270" width="240" height="880" top="0" left="1680">
92     <options>
93         <loop>0</loop>
94         <transitionDirection>N</transitionDirection>
95         <transitionDuration/>
96         <transitionType/>
97     </options>
98     <media id="717" type="clock" render="html" duration="1" useDuration="0" fromDt="1970-01-01 09:00:00" toDt=
99     <options>
100         <clockFace>TwentyFourHourClock</clockFace>
101         <clockTypeId>1</clockTypeId>
102         <enableStat>Inherit</enableStat>
103         <lowerLimit>0</lowerLimit>
104         <offset>0</offset>
105         <showSeconds>0</showSeconds>
106         <ta_text_advanced>0</ta_text_advanced>
107         <theme>1</theme>
108         <upperLimit>0</upperLimit>
```

```

109     </options>
110     <raw>
111         <format><![CDATA[<span style="font-size: 48px; color:#ffffff;">[HH:mm]</span>]]></format>
112     </raw>
113 </media>
114 </region>
115 <region id="271" width="1920" height="200" top="880" left="0">
116     <options>
117         <loop>0</loop>
118         <transitionDirection>N</transitionDirection>
119         <transitionDuration/>
120         <transitionType/>
121     </options>
122     <media id="718" type="datasetticker" render="html" duration="1" useDuration="0" fromDt="1970-01-01 09:00:00">
123         <options>
124             <dataSetId>2</dataSetId>
125             <durationIsPerItem>0</durationIsPerItem>
126             <effect>marqueeLeft</effect>
127             <enableStat>Inherit</enableStat>
128             <filterClauses>[]</filterClauses>
129             <itemsSideBySide>0</itemsSideBySide>
130             <lowerLimit>0</lowerLimit>
131             <noDataMessage_advanced>0</noDataMessage_advanced>
132             <orderClauses>[]</orderClauses>
133             <speed>10</speed>
134             <ta_text_advanced>0</ta_text_advanced>
135             <updateInterval>5</updateInterval>
136             <upperLimit>0</upperLimit>
137             <useFilteringClause>0</useFilteringClause>
138             <useOrderingClause>0</useOrderingClause>
139         </options>
140         <raw>
141             <css><![CDATA[. box {
142 height: 200px;
143 display:table-cell;
144 vertical-align:middle;
145 }]]></css>
146             <noDataMessage><![CDATA[<span style="font-size: 48px; color:#ffffff;">ソースからデータが返されない</span>]]>
147             <template><![CDATA[<div class=' box '>
148 <span style="font-size: 80px; color:#ffffff;">[Col1|1]</span>
149 </div>]]></template>
150         </raw>
151     </media>
152 </region>
153 <tags>
154     <tag>&#x30C6;&#x30F3;&#x30D7;&#x30EC;&#x30FC;&#x30C8;</tag>
155     <tag>&#x30C6;&#x30ED;&#x30C3;&#x30D7;</tag>
156 </tag/>
157 </tags>
158 </layout>

```



The arrangement order of media tags is as follows.

A mechanism that uses the "integer field value" of the ID of the media in the file name instead of the mediaId.

- The media ID is in the 800s, but the file name is in the 300s.



```

135.xml C:\Users\MIC1287.KK-MIC\Desktop\クソデカファイル\yibo 12
<media id="851" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="386">
<media id="852" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="387">
<media id="853" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="388">
<media id="854" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="389">
<media id="855" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="390">
<media id="856" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="391">
<media id="857" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="392">
<media id="858" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="393">
<media id="873" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="399">
<media id="874" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="400">

```

If the order itself gets out of order, there is no problem on the CMS side, but if the actual display order gets out of order, there is a problem on the player side.

⇒Currently, the display order was correct.

Let's take a look at xlf when the order is broken through updating (deleting and re-adding) media.

The event was reproduced when images 0, 1, and 2 were replaced at 1-minute intervals.As

shown in the image below, for images 0, 1, and 2,  
the media ID is the same as the actual order,  
and the xlf is different. (Layout ID 135 ⇒ 136 because it

was republished)

```
media id="
Aa ab
1 個のファイルに 12 件の結果 - エディターで開く
136.xlf C:\Users\MIC1287.KK-MIC\Desktop\ソソデカファイル\wibo 12
<media id="910" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="415">
<media id="911" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="416">
<media id="912" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="417">
<media id="913" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="418">
<media id="914" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="419">
<media id="915" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="420">
<media id="916" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="421">
<media id="921" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="423">
<media id="918" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="422">
<media id="922" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="424">
```

```
1 <?xml version="1.0"?>
2 <layout width="1920" height="1080" bgcolor="#000" schemaVersion="3" enableStat="1">
3   <region id="272" width="1686" height="880" top="0" left="0">
4     <options>
5       <loop>0</loop>
6       <transitionDirection>N</transitionDirection>
7       <transitionDuration/>
8       <transitionType/>
9     </options>
10    <media id="910" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="415">
11      <options>
12        <uri>415.jpg</uri>
13        <enableStat>Inherit</enableStat>
14        <scaleType>center</scaleType>
15      </options>
16      <raw/>
17    </media>
18    <media id="911" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="416">
19      <options>
20        <uri>416.jpg</uri>
21        <enableStat>Inherit</enableStat>
22        <scaleType>center</scaleType>
23      </options>
24      <raw/>
25    </media>
26    <media id="912" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="417">
27      <options>
28        <uri>417.jpg</uri>
29        <enableStat>Inherit</enableStat>
30        <scaleType>center</scaleType>
31      </options>
32      <raw/>
33    </media>
34    <media id="913" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toDt="2038-01-19 12:14:07" enableStat="1" fileId="418">
35      <options>
```

```
36         <uri>418.jpg</uri>
37         <enableStat>Inherit</enableStat>
38         <scaleType>center</scaleType>
39     </options>
40 </raw>
41 </media>
42 <media id="914" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
43     <options>
44         <uri>419.jpg</uri>
45         <enableStat>Inherit</enableStat>
46         <scaleType>center</scaleType>
47     </options>
48 </raw>
49 </media>
50 <media id="915" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
51     <options>
52         <uri>420.jpg</uri>
53         <enableStat>Inherit</enableStat>
54         <scaleType>center</scaleType>
55     </options>
56 </raw>
57 </media>
58 <media id="916" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
59     <options>
60         <uri>421.jpg</uri>
61         <enableStat>Inherit</enableStat>
62         <scaleType>center</scaleType>
63     </options>
64 </raw>
65 </media>
66 <media id="921" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
67     <options>
68         <uri>423.jpg</uri>
69         <enableStat>Inherit</enableStat>
70         <scaleType>center</scaleType>
71     </options>
72 </raw>
73 </media>
74 <media id="918" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
75     <options>
76         <uri>422.jpg</uri>
77         <enableStat>Inherit</enableStat>
78         <scaleType>center</scaleType>
79     </options>
80 </raw>
81 </media>
82 <media id="922" type="image" render="native" duration="5" useDuration="1" fromDt="1970-01-01 09:00:00" toD
83     <options>
84         <uri>424.jpg</uri>
85         <enableStat>Inherit</enableStat>
86         <scaleType>center</scaleType>
87     </options>
88 </raw>
89 </media>
```



```

90 </region>
91 <region id="273" width="240" height="880" top="0" left="1680">
92   <options>
93     <loop>0</loop>
94     <transitionDirection>N</transitionDirection>
95     <transitionDuration/>
96     <transitionType/>
97   </options>
98   <media id="771" type="clock" render="html" duration="1" useDuration="0" fromDt="1970-01-01 09:00:00" toDt=
99     <options>
100       <clockFace>TwentyFourHourClock</clockFace>
101       <clockTypeId>1</clockTypeId>
102       <enableStat>Inherit</enableStat>
103       <lowerLimit>0</lowerLimit>
104       <offset>0</offset>
105       <showSeconds>0</showSeconds>
106       <ta_text_advanced>0</ta_text_advanced>
107       <theme>1</theme>
108       <upperLimit>0</upperLimit>
109     </options>
110     <raw>
111       <format><![CDATA[<span style="font-size: 48px; color:#ffffff;">[HH:mm]</span>]]</format>
112     </raw>
113   </media>
114 </region>
115 <region id="274" width="1920" height="200" top="880" left="0">
116   <options>
117     <loop>0</loop>
118     <transitionDirection>N</transitionDirection>
119     <transitionDuration/>
120     <transitionType/>
121   </options>
122   <media id="772" type="datasetticker" render="html" duration="1" useDuration="0" fromDt="1970-01-01 09:00:0
123     <options>
124       <dataSetId>2</dataSetId>
125       <durationIsPerItem>0</durationIsPerItem>
126       <effect>marqueeLeft</effect>
127       <enableStat>Inherit</enableStat>
128       <filterClauses>[]</filterClauses>
129       <itemsSideBySide>0</itemsSideBySide>
130       <lowerLimit>0</lowerLimit>
131       <noDataMessage_advanced>0</noDataMessage_advanced>
132       <orderClauses>[]</orderClauses>
133       <speed>10</speed>
134       <ta_text_advanced>0</ta_text_advanced>
135       <updateInterval>5</updateInterval>
136       <upperLimit>0</upperLimit>
137       <useFilteringClause>0</useFilteringClause>
138       <useOrderingClause>0</useOrderingClause>
139     </options>
140     <raw>
141       <css><![CDATA[. box {
142 height: 200px;
143 display:table-cell;

```

```

144 vertical-align:middle;
145 ]]]></css>
146     <noDataMessage><![CDATA[<span style="font-size: 48px; color:#ffffff;">ソースからデータが返されない
147     <template><![CDATA[<div class=' box' >
148 <span style="font-size: 80px; color:#ffffff;">[Col1|1]</span>
149 </div>]]></template>
150     </raw>
151     </media>
152 </region>
153 <tags>
154     <tag>&#x30C6;&#x30F3;&#x30D7;&#x30EC;&#x30FC;&#x30C8;</tag>
155     <tag>&#x30C6;&#x30ED;&#x30C3;&#x30D7;</tag>
156     <tag/>
157 </tags>
158 </layout>

```



Therefore, there is a problem with xlf generation or before.

In addition, in the verification so far, I have noticed that no abnormality in the context occurs when "ClearAll + 0 to 9 are thrown all at once.

Therefore, this time as well, we tried the case where ClearAll and 0 to 9 were added at the same time four times.

As a result, the anteroposterior relationship was normal in all four cases. Therefore, the root cause is that

``when a new applicable media is added at the point when an existing applicable media exists, the context is reversed" .

If so, the situation should be improved if there is a re-sorting logic, so this is just

*speculation, but there is room for improvement by reusing the "logic to explicitly set sort settings in the playlist" that was added in the third series.*

## Additional verification

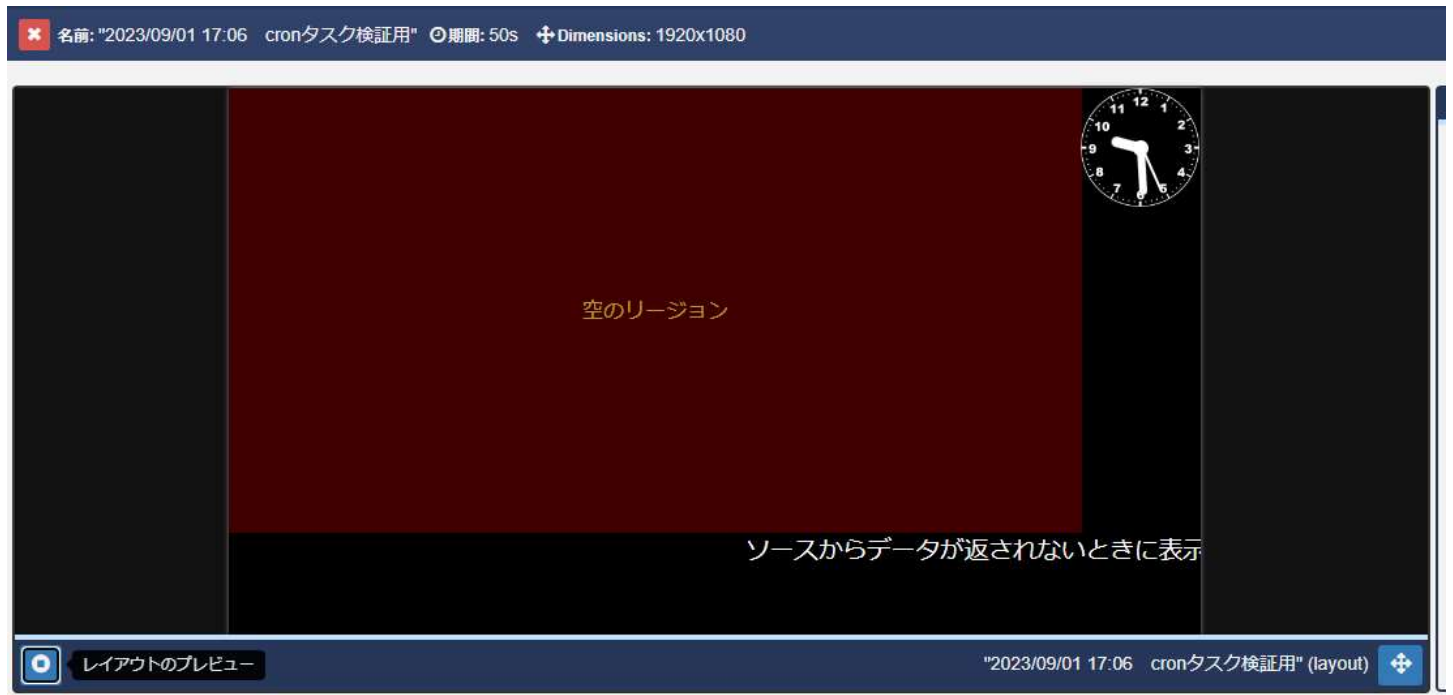
Check how the SyncDynamicPlaylist of the xibo task (xtr) is related.

(Preparation)

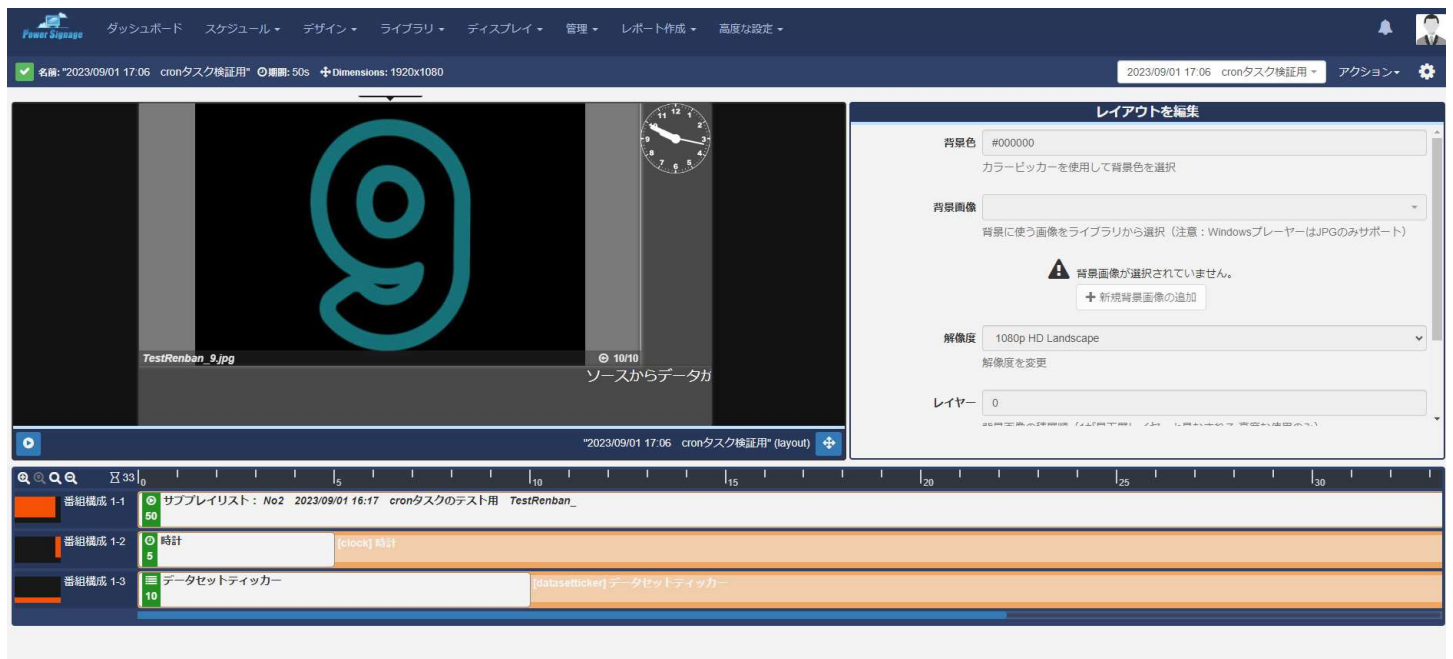
- Change the CRON syntax of this task from "\*\*\*\*\*" to "\*\*\*\*0\*" to set it to be triggered manually (at any timing) (from the current 1

minute interval)

- Once you reset the 0 to 9 sequence (ClearAll and 0 to 9), the following state will occur. (Because the task is not running)



- Execute the task. Naturally improved.



So, here's the main topic

Trial 1:

- Input 0
- Task execution
  - ⇒ 1 to 9, becomes 0. There is no problem with the loop-like context.

Trial 1-2

Input 1

/Task execution

- ⇒ 2-9, 0, 1. There is no problem with the loop-like context.

From the above trials  
, there is no problem if SyncDynamicPlaylist works for each single target.

Trial 2-1, input 2  
and 3 simultaneously

, execute the task ⇒

4 to 9, 0, 2, 1, 3

Trial 2-2, input 4

and 5 simultaneously

, execute the task ⇒

6 to 9, 0, 2

From trials of , 1, 4, 3, 5 or more

, it can be seen that the order of input objects is not disrupted,  
but interferes with the order of existing content.

Example

2 is inserted into the gap between 0 and 1. (0, 2, 1, 3)

4 is inserted into the gap between 1 and 3. (0, 2, 1, 4, 3, 5)

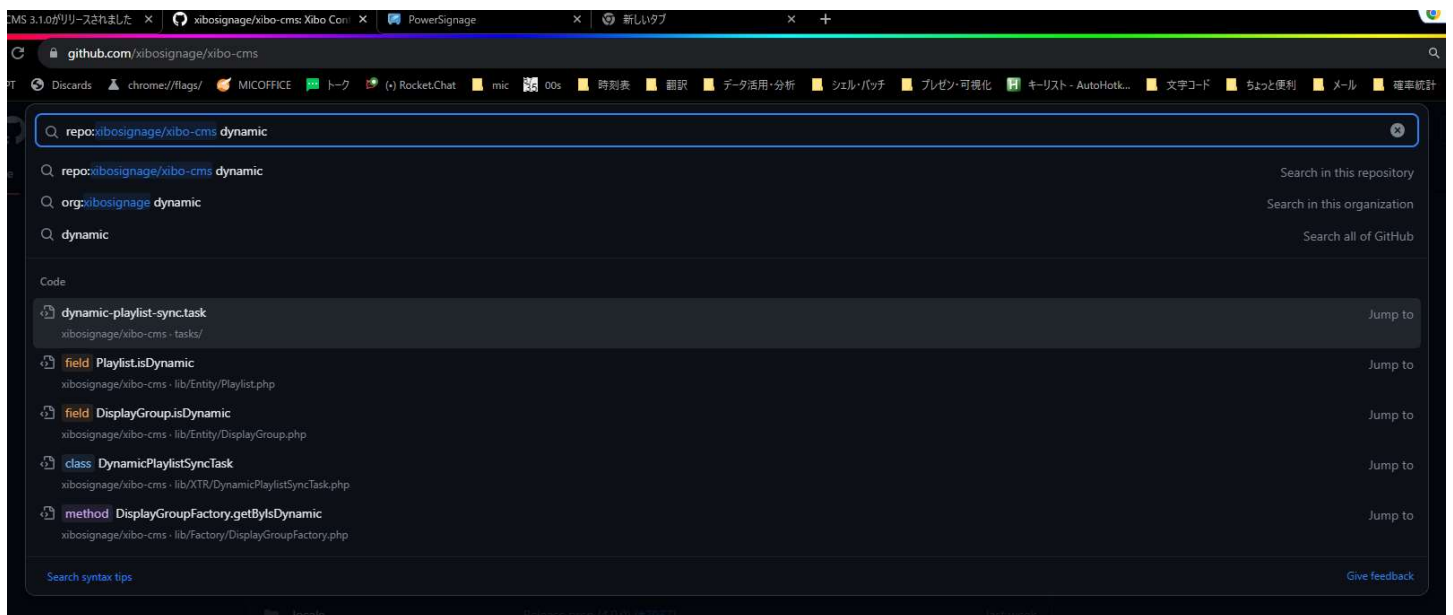
• The order before and after occurs when there are multiple (two or more) linking targets. • **This is the timing when the order changes because the content linked by executing SyncDynamicPlaylist interferes with the order of the existing content !** -If so, we know from experience that the event will not occur if there is no existing content...there is also an explanation for this.

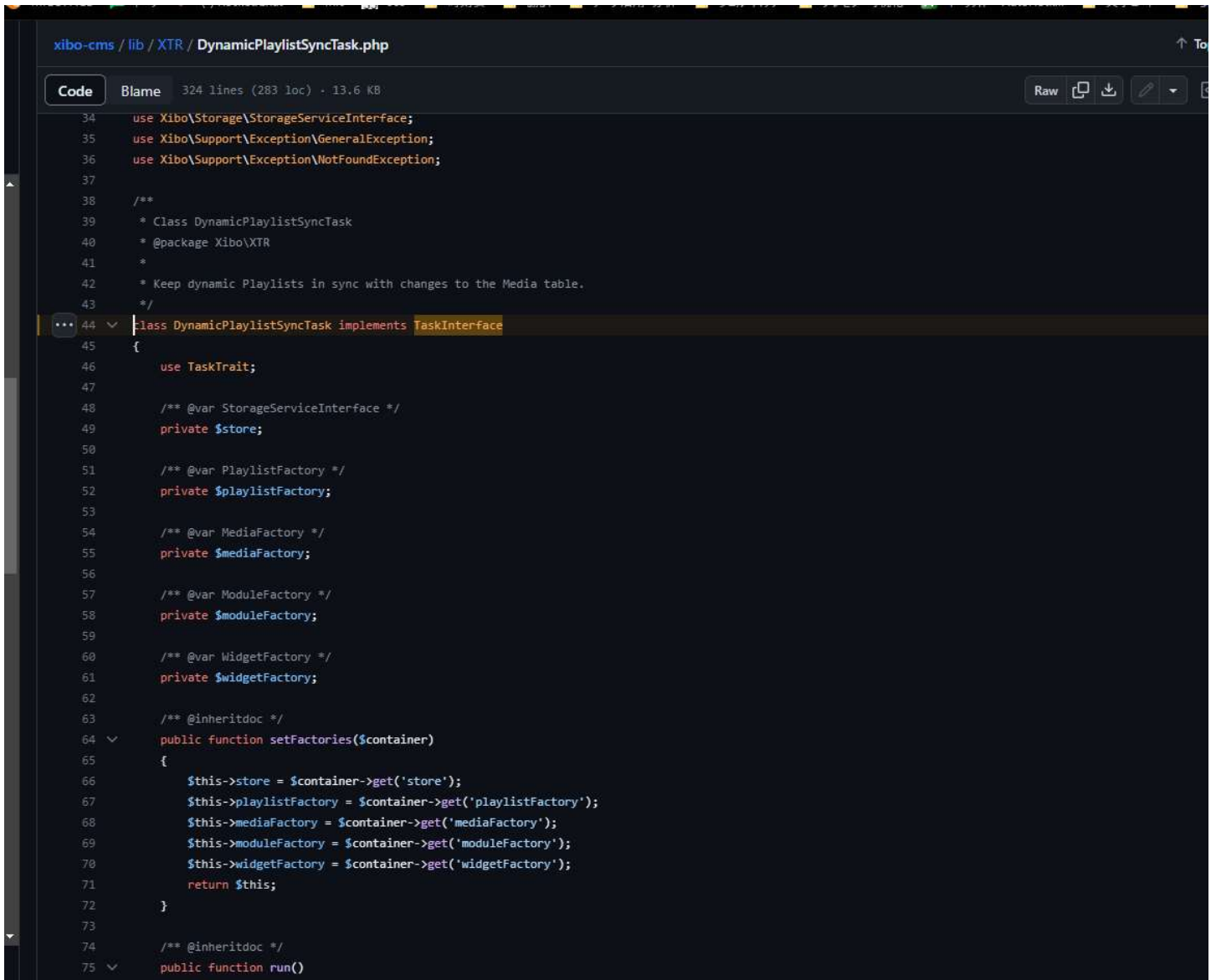
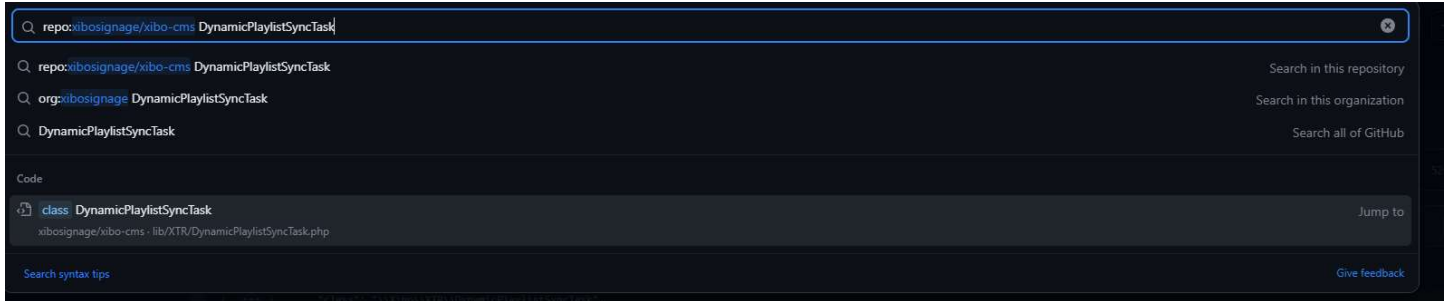
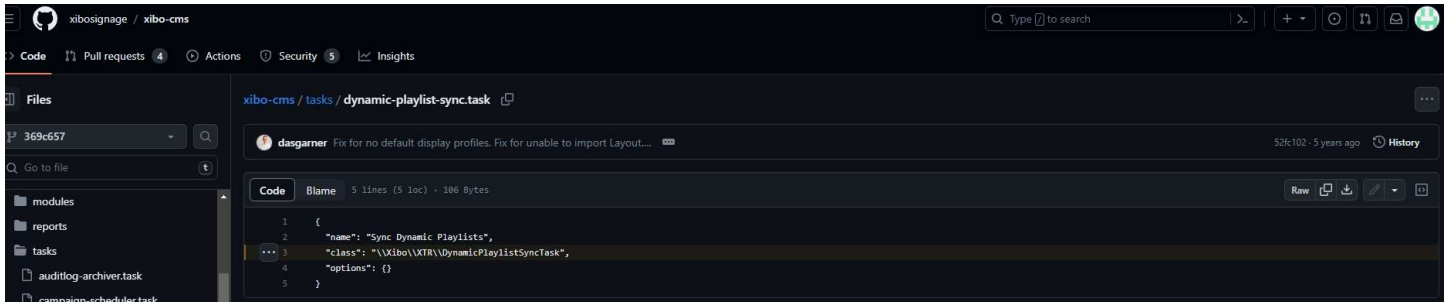
## SyncDynamicPlaylist source code

Follow the git

[https://github.com/xibosignage/xibo-](https://github.com/xibosignage/xibo-cms/blob/369c6570d8fa28db1907a6302e5a0069781eb551/lib/XTR/DynamicPlaylistSyncTask.php#L44)

[cms/blob/369c6570d8fa28db1907a6302e5a0069781eb551/lib/XTR/DynamicPlaylistSyncTask.php#L44](https://github.com/xibosignage/xibo-cms/blob/369c6570d8fa28db1907a6302e5a0069781eb551/lib/XTR/DynamicPlaylistSyncTask.php#L44)





I had GPT4 explain the operational specifications.

The order is determined by "the query parts circled in red below".

This was the same in the latest version of the file (in other words, it is an unresolved problem)



このPHPコードは、Xiboデジタルサイネージシステムのタスクである`DynamicPlaylistSyncTask`を定義しています。このタスクは、メディアテーブルの変更に合わせて動的プレイリストを同期します。新しいメディアアイテムがプレイリストに追加される「追加順序」に関する動作仕様を以下に述べます。

#### 1. データベースのクエリと最終更新日の確認

タスクが実行される際に、最後に更新されたメディアとプレイリストの日時が確認されます。前回のタスク実行以後に変更があった場合にのみ、プレイリストの評価と更新が行われます。

#### 2. 動的プレイリストの取得

データベースから動的プレイリストを取得します。それぞれのプレイリストが個別に評価されます。

#### 3. メディアアイテムの取得と差分の確認

各プレイリストに対して、新たに割り当てられるべきメディアアイテムを取得します。プレイリストに現在割り当てられているウィジェットの数と新たに割り当てるべきメディアアイテムの数を比較し、異なる場合は更新が必要と判断されます。さらに詳細な確認が行われ、メディアIDと持続時間に違いがあるかどうかを確認します。

#### 4. プレイリストの更新

プレイリストに差分が検出された場合、以下のステップが実行されます:

- 既存のウィジェットが新しいメディアアイテムリストに存在しない場合、それらは削除されます。
- 新しいメディアアイテムがプレイリストにまだ存在しない場合、それらは追加されます。
- メディアアイテムの持続時間が変更された場合、ウィジェットの持続時間も更新されます。

#### 5. ウィジェットの作成と割り当て

新しいメディアアイテムがプレイリストに追加される際、`createAndAssign`メソッドが呼び出されます。このメソッドは、新しいウィジェットを作成し、メディアアイテムをウィジェットに割り当て、ウィジェットをプレイリストに割り当てます。ウィジェットの`displayOrder`プロパティは、`\$count`パラメータに基づいて設定されますが、このパラメータはプレイリストの更新カウンターとして機能し、実際のディスプレイ順序を決定するわけではありません。ディスプレイ順序は、メディアアイテムがデータベースから取得される順序に依存します。この順序は、`filterMediaName`と`filterMediaTags`パラメータに基づいたクエリによって決定されます。

以上がコード内の「追加順序」に関する基本的な動作仕様です。重要な点は、新しいメディアアイテムがデータベースクエリの結果として取得される順序でプレイリストに追加され、ウィジェットの作成時にディスプレイ順序が設定されることです。

```

108 // Get all Dynamic Playlists
109 foreach ($this->playlistFactory->query(null, ['isDynamic' => true]) as $playlist) {
110     try {
111         // We want to detect any differences in what should be assigned to this playlist
112         $playlist->load();
113
114         $this->log->debug('Assessing Playlist: ' . $playlist->playlistId);
115
116         // Query for media which would be assigned to this playlist
117         $media = [];
118         $mediaIds = [];
119         foreach ($this->mediaFactory->query(null, [
120             'name' => $playlist->filterMediaName,
121             'tags' => $playlist->filterMediaTags
122         ]) as $item) {
123             $media[$item->mediaId] = $item;
124             $mediaIds[] = $item->mediaId;
125         }
126
127         // Work out if the set of widgets is different or not
128         // This is only the first loose check
129         $different = (count($playlist->widgets) !== count($mediaIds));
130
131         $this->log->debug('There are ' . count($media) . ' items currently assigned. First check difference');
132
133         if (!$different) {
134             // Try a more complete check, using mediaIds
135             $compareMediaIds = $mediaIds;
136
137             // ordering should be the same, so the first difference is the one to check
138             foreach ($playlist->widgets as $widget) {
139                 try {
140                     $widgetMediaId = $widget->getPrimaryMediaId();
141                     if ($widgetMediaId !== $compareMediaIds[$widget->widgetId]) {
142                         $different = true;
143                         break;
144                     }
145                 } catch (NotFoundException $notFoundException) {
146                     $this->log->error('Playlist ' . $playlist->playlistId . ' widget ' . $widget->widgetId . ' not found');
147                 }
148             }
149
150             // We ought to recalculate
151             $different = true;
152         }
153     } catch (Exception $e) {
154         $this->log->error('Error assessing playlist ' . $playlist->playlistId . ': ' . $e->getMessage());
155     }
156 }

```

The method query() used here is the following function

```

xibo-cms-2.3.3 > lib > Factory > MediaFactory.php > MediaFactory > query

```

(For the latest git source <https://github.com/xibosignage/xibo-cms/blob/369c6570d8fa28db1907a6302e5a0069781eb551/lib/Factory/MediaFactory.php>

query execution part, debug statement was added to the current source of 2.3.3

. Task side (Dynamic...php)

/Query execution side (MediaFactory.php)

```

119 $mediaIds = [];
120
121 //debug
122 error_log("動的プレイリストからのクエリ呼び出し↓");
123 foreach ($this->mediaFactory->query(null, [
124     'name' => $playlist->filterMediaName,
125     'tags' => $playlist->filterMediaTags
126 ]) as $item) {
127     $media[$item->mediaId] = $item;
128     $mediaIds[] = $item->mediaId;
129 }

```

```

C: > Users > MIC1287.KK-MIC > Downloads > MediaFactory.php.debug
772     }
773
774     $sql = $select . $body . $order . $limit;
775     //debug
776     error_log("-----select");
777     error_log($select);
778     error_log("-----body");
779     error_log($body);
780     error_log("-----order");
781     error_log($order);
782     error_log("-----limit");
783     error_log($limit);
784     error_log('-----params');
785     error_log(json_encode($params));
786     foreach ($this->getStore()->select($sql, $params) as $row) {

```

```

1 [13-Sep-2023 12:49:02 Asia/Tokyo] 動的プレイリストからのクエリ呼び出し↓
2 [13-Sep-2023 12:49:02 Asia/Tokyo] -----select
3 [13-Sep-2023 12:49:02 Asia/Tokyo]
4     SELECT media.mediaId,
5         media.name,
6         media.type AS mediaType,
7         media.duration,
8         media.userId AS ownerId,
9         media.fileSize,
10        media.storedAs,
11        media.valid,
12        media.moduleSystemFile,
13        media.expires,
14        media.md5,
15        media.retired,
16        media.isEdited,
17        IFNULL(parentmedia.mediaId, 0) AS parentId,
18        `media`.released,
19        `media`.apiRef,
20        `media`.createdDt,
21        `media`.modifiedDt,
22        `media`.enableStat,
23        (SELECT GROUP_CONCAT(DISTINCT tag) FROM tag INNER JOIN lktagmedia ON lktagmedia.tagId = tag.tagId WH
24            FROM `permission`
25            INNER JOIN `permissionentity`
26            ON `permissionentity`.entityId = permission.entityId
27            INNER JOIN `group`
28            ON `group`.groupId = `permission`.groupId
29        WHERE entity = :entity
30            AND objectId = media.mediaId
31            AND view = 1
32        ) AS groupsWithPermissions, media.originalFileName AS fileName
33 [13-Sep-2023 12:49:02 Asia/Tokyo] -----body
34 [13-Sep-2023 12:49:02 Asia/Tokyo] FROM media LEFT OUTER JOIN media parentmedia ON parentmedia.editedMediaId
35 [13-Sep-2023 12:49:02 Asia/Tokyo] -----order
36 [13-Sep-2023 12:49:02 Asia/Tokyo] ORDER BY name
37 [13-Sep-2023 12:49:02 Asia/Tokyo] -----limit
38 [13-Sep-2023 12:49:02 Asia/Tokyo]

```



```
39 [13-Sep-2023 12:49:02 Asia/Tokyo] -----params
40 [13-Sep-2023 12:49:02 Asia/Tokyo] {"entity":"Xibo¥¥Entity¥¥Media", "search1":"TestRenban_"}
```

Organized into an executable format

```
1 SELECT media.mediaId,
2        media.name,
3        media.type AS mediaType,
4        media.duration,
5        media.userId AS ownerId,
6        media.fileSize,
7        media.storedAs,
8        media.valid,
9        media.moduleSystemFile,
10       media.expires,
11       media.md5,
12       media.retired,
13       media.isEdited,
14       IFNULL(parentmedia.mediaId, 0) AS parentId,
15       `media`.released,
16       `media`.apiRef,
17       `media`.createdDt,
18       `media`.modifiedDt,
19       `media`.enableStat,
20       (SELECT GROUP_CONCAT(DISTINCT tag) FROM tag INNER JOIN Iktagmedia ON Iktagmedia.tagId = tag.tagId WHERE Ikt
21       (SELECT GROUP_CONCAT(IFNULL(value, 'NULL')) FROM tag INNER JOIN Iktagmedia ON Iktagmedia.tagId = tag.tagId W
22       `user`.UserName AS owner,
23       (SELECT GROUP_CONCAT(DISTINCT `group`.group)
24         FROM `permission`
25         INNER JOIN `permissionentity`
26         ON `permissionentity`.entityId = permission.entityId
27         INNER JOIN `group`
28         ON `group`.groupId = `permission`.groupId
29         WHERE entity = 'Xibo¥¥Entity¥¥Media'
30         AND objectId = media.mediaId
31         AND view = 1
32        ) AS groupsWithPermissions,
33       media.originalFileName AS fileName
34
35 FROM media
36 LEFT OUTER JOIN media parentmedia
37 ON parentmedia.editedMediaId = media.mediaId
38 LEFT OUTER JOIN `user` ON `user`.userId = `media`.userId
39 WHERE 1 = 1
40 AND `media`.userId IN (SELECT userId FROM user WHERE userTypeId <> 4)
41 AND media.type <> 'module'
42 AND ( media.name RLIKE 'TestRenban_' )
43 AND media.isEdited = 0
44 ORDER BY name;
```

mediaId	name	mediaType	duration	ownerId	fileSize	storedAs	valid	moduleSystemFile	expires	md5	retired	isEdited	parentId	released	apiRef	cre
487	TestRenban_0.jpg	image	15	10	10892	487.jpg	1	0	0	492becff341ff297449bafef1340ec869	0	0	0	1	NULL	202:
488	TestRenban_1.jpg	image	15	10	6404	488.jpg	1	0	0	9d2f84696c384caba2edca90fea8816f	0	0	0	1	NULL	202:
497	TestRenban_2.jpg	image	15	10	11903	497.jpg	1	0	0	efead21eff44d81d29b43fd7ba69213	0	0	0	1	NULL	202:
498	TestRenban_3.jpg	image	15	10	14114	498.jpg	1	0	0	a91f2440549598e1404826facffbfef	0	0	0	1	NULL	202:
499	TestRenban_4.jpg	image	15	10	9853	499.jpg	1	0	0	194b13a48d238efb9751661f055dcb02	0	0	0	1	NULL	202:
492	TestRenban_5.jpg	image	15	10	11530	492.jpg	1	0	0	9e4e1f1e96b723a2c48984aaa9f53036	0	0	0	1	NULL	202:
493	TestRenban_6.jpg	image	15	10	9637	493.jpg	1	0	0	ca4c161d0916d284b77e2ed9fc256fe	0	0	0	1	NULL	202:
494	TestRenban_7.jpg	image	15	10	8575	494.jpg	1	0	0	f7cda477ff3d9f3be56a8925b494fb98	0	0	0	1	NULL	202:
495	TestRenban_8.jpg	image	15	10	10206	495.jpg	1	0	0	60bb3e5484733996ed89726b06ff25ab	0	0	0	1	NULL	202:
496	TestRenban_9.jpg	image	15	10	10662	496.jpg	1	0	0	c1c930a9e80dfa2a465bf04faa36ce3f	0	0	0	1	NULL	202:

I see, no problem. In other words, MediaFactory, which is responsible for extracting media, is innocent.

If so, create a widget that corresponds to **the media** (SyncDynamicPlaylist is still the cause).

The point is that the count below is an integer that determines the displayOrder, but let's take a look at the array before this for.

```

DynamicPlaylistSyncTask.php x { } 番号が狂ってる状態.json
C:\Users\MIC128~1.KK->AppData\Local\Temp\scp43184\var\www\xibo233\admin\lib\XTR\DynamicPlaylistSyncTask.php
204         $playlist->deleteWidget($widget);
205     }
206 }
207
208 //検証用
209 error_log(["動的プレイリストの順序".$playlist->name]);
210 error_log(json_encode($media));
211
212 // Do we have any mediaId's left which should be assigned and aren't?
213 // Add the ones we have left
214 foreach ($media as $item) {
215     if (in_array($item->mediaId, $mediaIds)) {
216         $assignmentMade = true;
217         $this->createAndAssign($playlist, $item, $count);
218     }
219 }
220
221 if ($assignmentMade) {

```

As shown below, 0 to 9 are in order. As gpt4 says, the order up to this point is determined on the SQL side, and it is maintained up to this point.

```

1 {
2     "520": {
3         "mediaId": 520,
4         "ownerId": 10,
5         "parentId": 0,
6         "name": "TestRenban_0.jpg",
7         "mediaType": "image",
8         "storedAs": "520.jpg",
9         "fileName": "TestRenban_0.jpg",
10        "tags": null,
11        "tagValues": null,
12        "fileSize": "12688",
13        "duration": 15,
14        "valid": 1,
15        "moduleSystemFile": 0,
16        "expires": 0,
17        "retired": "0",

```

```
18     "isEdited": 0,
19     "md5": "d93b428fb6736ce255f975387e171da6",
20     "owner": "xibo_provider",
21     "groupsWithPermissions": null,
22     "released": 1,
23     "apiRef": null,
24     "createdDt": "2023-09-13 15:49:03",
25     "modifiedDt": "2023-09-13 15:49:03",
26     "enableStat": "Inherit",
27     "isSaveRequired": null,
28     "isRemote": null,
29     "cloned": false,
30     "newExpiry": null,
31     "alwaysCopy": false
32 },
33 "521": {
34     "mediaId": 521,
35     "ownerId": 10,
36     "parentId": 0,
37     "name": "TestRenban_1.jpg",
38     "mediaType": "image",
39     "storedAs": "521.jpg",
40     "fileName": "TestRenban_1.jpg",
41     "tags": null,
42     "tagValues": null,
43     "fileSize": "7187",
44     "duration": 15,
45     "valid": 1,
46     "moduleSystemFile": 0,
47     "expires": 0,
48     "retired": "0",
49     "isEdited": 0,
50     "md5": "d2a80c1dcc65b029ac5bf614476d99c",
51     "owner": "xibo_provider",
52     "groupsWithPermissions": null,
53     "released": 1,
54     "apiRef": null,
55     "createdDt": "2023-09-13 15:49:03",
56     "modifiedDt": "2023-09-13 15:49:03",
57     "enableStat": "Inherit",
58     "isSaveRequired": null,
59     "isRemote": null,
60     "cloned": false,
61     "newExpiry": null,
62     "alwaysCopy": false
63 },
64 "522": {
65     "mediaId": 522,
66     "ownerId": 10,
67     "parentId": 0,
68     "name": "TestRenban_2.jpg",
69     "mediaType": "image",
70     "storedAs": "522.jpg",
71     "fileName": "TestRenban_2.jpg",
```

```
72     "tags": null,
73     "tagValues": null,
74     "fileSize": "11903",
75     "duration": 15,
76     "valid": 1,
77     "moduleSystemFile": 0,
78     "expires": 0,
79     "retired": "0",
80     "isEdited": 0,
81     "md5": "efead21eff44d81d29b43fdf7ba69213",
82     "owner": "xibo_provider",
83     "groupsWithPermissions": null,
84     "released": 1,
85     "apiRef": null,
86     "createdDt": "2023-09-13 15:49:03",
87     "modifiedDt": "2023-09-13 15:49:03",
88     "enableStat": "Inherit",
89     "isSaveRequired": null,
90     "isRemote": null,
91     "cloned": false,
92     "newExpiry": null,
93     "alwaysCopy": false
94 },
95 "523": {
96     "mediaId": 523,
97     "ownerId": 10,
98     "parentId": 0,
99     "name": "TestRenban_3. jpg",
100    "mediaType": "image",
101    "storedAs": "523. jpg",
102    "fileName": "TestRenban_3. jpg",
103    "tags": null,
104    "tagValues": null,
105    "fileSize": "14114",
106    "duration": 15,
107    "valid": 1,
108    "moduleSystemFile": 0,
109    "expires": 0,
110    "retired": "0",
111    "isEdited": 0,
112    "md5": "af91f2440549598e1404826facffbef",
113    "owner": "xibo_provider",
114    "groupsWithPermissions": null,
115    "released": 1,
116    "apiRef": null,
117    "createdDt": "2023-09-13 15:49:04",
118    "modifiedDt": "2023-09-13 15:49:04",
119    "enableStat": "Inherit",
120    "isSaveRequired": null,
121    "isRemote": null,
122    "cloned": false,
123    "newExpiry": null,
124    "alwaysCopy": false
125 },
```