

**EXHIBIT D — STINGRAY CLAIM CHART**  
**U.S. Patent No. 12,075,116 B2 — UBIQUICAST SYSTEM**

<p><b>U.S. Patent No. 12,075,116 B2 Claim Language</b></p>	<p align="center"><b>UBIQUICAST SYSTEM Evidence of Infringement</b></p>
<p>A method of providing a media stream from a computing system comprising a caching unit and at least one multicasting server, the method comprising:</p>	<p>Provides a media stream from a computing system having a caching unit and at least one multicasting server, that includes AWS storage and processing for server requests made from the caching unit and the one multicast server at a MVPD head end.</p>
<p>receiving, at the caching unit, a request from the at least one multicasting server for at least one media stream for playback on a broadcast media channel, wherein the request comprises a requested format;</p>	<p>The Multicast Unit uses Multicast Addresses and has a Caching unit that stores a media stream and receives requests for playback on a broadcast media channel in a particular format.</p> <div data-bbox="389 819 1266 1701" style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p><b>Kabelfernsehen Bödeli - Ubiquicast</b> in list Closed</p> <p><b>Description</b></p> <p>They like to have 128Kbps AAC. They will not use OSE at first but he likes to have a configuration WITH OSE so he can test this on his settop boxes. His boxes have the same 'problem' as in Holland that when you choose a radioservice, then the video will not be displayed by the settopbox. On March 1 he will only send 'blackscreen' audio to the customers and he will use OSE for testing internally.</p> <p>At first he liked to have the main server on IP and the backup server on ASI. He presumed that both servers would have different IP/PID configurations but after talking about possible backup scenario's we decided to have both Ubi's configured with an identical IP output.</p> <p>As output he requires a MPTS. Multicast IP address: 239.51.100.4:1234</p> <p>He will make arrangements for a public IP number for the VPN connection, he will send details when this is available. We probably are able to use a connection of 100Mbps up and down so that's nice</p> <p>Output still needs to be confirmed</p> <p>Customer: Kabelfernsehen Bödeli Street: Weissenaustr. 56 Town: Unterseen ZIP: 3800 Country: Switzerland</p> <p>#</p> <p>Jira Issue Link : <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-765">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-765</a></p> <p><b>Activity</b></p> <p><b>deployment57</b> added this card to Closed Jan 15, 2019 at 11:21 AM</p> </div> <p>Source: <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-765">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-765</a></p>
<p>obtaining, at the caching unit, content from the internet corresponding to a</p>	<p>The caching unit obtains from the web, different resources e.g. cover art and other internet-based items that are in a 1st format (e.g. Images/PNG) which correspond to multimedia items as shown herein, links to <a href="https://mediafile.galaxie.ca/">https://mediafile.galaxie.ca/...</a> and other links tracked by AlienVault.com regarding Stingray's Ubiquicast.</p>

<p><b>U.S. Patent No. 12,075,116 B2 Claim Language</b></p>	<p><b>UBIQUICAST SYSTEM Evidence of Infringement</b></p>																																																																																																																																																												
<p>plurality of multimedia items from at least one website offering the content in at least one first format, wherein the obtaining comprises:</p>	<div style="border: 1px solid #ccc; padding: 10px;"> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <span>Analysis</span> <span>Related Pulses</span> <span>Comments (0)</span> </div> <h3>Passive DNS</h3> <p>Show <span>100</span> entries <span style="float: right;">Search: <input type="text"/></span></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>STATUS</th> <th>HOSTNAME</th> <th>QUERY TYPE</th> <th>ADDRESS</th> <th>FIRST SEEN</th> <th>LAST SEEN</th> <th>ASN</th> <th>COUNTRY</th> </tr> </thead> <tbody> <tr> <td>Unknown</td> <td>23.23.109.245</td> <td>A</td> <td>galaxie.ca</td> <td>2014-05-29 10:00</td> <td>2014-05-29 10:00</td> <td>AS14618 AMA-ZON-AES</td> <td>United States of America</td> </tr> </tbody> </table> <p>SHOWING 501 TO 501 OF 501 ENTRIES <span style="float: right;">◀ PREVIOUS 1 ... 2 3 4 5 6</span></p> <h3>Associated Urls</h3> <p>Show <span>100</span> entries</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE CHECKED</th> <th>URL</th> <th>HOSTNAME</th> <th>SERVER RESPONSE</th> <th>IP</th> <th>GOOGLE SAFE BROWSING</th> <th>ANTIVIRUS RESULTS</th> </tr> </thead> <tbody> <tr><td>Mar 22, 2021</td><td>https://private-mediafile.galaxie.ca</td><td>private-med...</td><td>403</td><td>99.84.79.14</td><td></td><td></td></tr> <tr><td>Mar 22, 2021</td><td>http://private-mediafile.galaxie.ca</td><td>private-med...</td><td>403</td><td>99.84.79.25</td><td></td><td></td></tr> <tr><td>Mar 22, 2019</td><td>http://vip-api.galaxie.ca/api/GetF...</td><td>vip-api.gala...</td><td>200</td><td>107.2194.182</td><td></td><td></td></tr> <tr><td>Mar 22, 2019</td><td>http://vip-api.galaxie.ca/api/GetPr...</td><td>vip-api.gala...</td><td>200</td><td>54.225.105.46</td><td></td><td></td></tr> <tr><td>Jan 3, 2019</td><td>http://galaxie.ca/</td><td>galaxie.ca</td><td>200</td><td>208.94.108.15</td><td></td><td></td></tr> <tr><td>Sep 30, 2018</td><td>http://www.galaxie.ca/playerAPI/...</td><td>www.galaxie...</td><td>200</td><td>107.20141.209</td><td></td><td></td></tr> <tr><td>Aug 23, 2018</td><td>http://mediafile.galaxie.ca/data/0...</td><td>mediafile.ga...</td><td>200</td><td>13.32.205.25</td><td></td><td></td></tr> <tr><td>Aug 23, 2018</td><td>http://mediafile.galaxie.ca/data/0...</td><td>mediafile.ga...</td><td>200</td><td>13.33.148.78</td><td></td><td></td></tr> <tr><td>Aug 9, 2018</td><td>http://mediafile.galaxie.ca/data/0...</td><td>mediafile.ga...</td><td>200</td><td>13.32.205.38</td><td></td><td></td></tr> <tr><td>Apr 20, 2018</td><td>http://covers.galaxie.ca/song/G27...</td><td>covers.galax...</td><td>200</td><td>107.20193.169</td><td></td><td></td></tr> <tr><td>Apr 18, 2018</td><td>http://covers.galaxie.ca/song/G4...</td><td>covers.galax...</td><td>200</td><td>107.20193.169</td><td></td><td></td></tr> <tr><td>Apr 18, 2018</td><td>http://covers.galaxie.ca/song/G4...</td><td>covers.galax...</td><td>200</td><td>107.20193.169</td><td></td><td></td></tr> <tr><td>Apr 18, 2018</td><td>http://covers.galaxie.ca/song/G4...</td><td>covers.galax...</td><td>200</td><td>107.20193.169</td><td></td><td></td></tr> <tr><td>Mar 28, 2018</td><td>http://www.galaxie.ca/galaxie/pla...</td><td>www.galaxie...</td><td>200</td><td>107.20197.28</td><td></td><td></td></tr> <tr><td>Jun 7, 2017</td><td>http://www.galaxie.ca/mobile</td><td>www.galaxie...</td><td>200</td><td>107.22.213.198</td><td></td><td></td></tr> <tr><td>Jun 4, 2017</td><td>http://covers.galaxie.ca/</td><td>covers.galax...</td><td>200</td><td>208.94.108.15</td><td></td><td></td></tr> <tr><td>Apr 9, 2017</td><td>http://vip-resource.galaxie.ca/</td><td>vip-resourc...</td><td>200</td><td>52.84.24.205</td><td></td><td></td></tr> <tr><td>Apr 9, 2017</td><td>http://mediafile.galaxie.ca/</td><td>mediafile.ga...</td><td>403</td><td>52.84.24.181</td><td></td><td></td></tr> <tr><td>Apr 5, 2017</td><td>http://www.galaxie.ca/</td><td>www.galaxie...</td><td>200</td><td>208.94.108.15</td><td></td><td></td></tr> </tbody> </table> <p>SHOWING 1 TO 19 OF 19 ENTRIES</p> <p>Source: <a href="https://otx.alienvault.com/indicator/domain/galaxie.ca">https://otx.alienvault.com/indicator/domain/galaxie.ca</a></p> </div>	STATUS	HOSTNAME	QUERY TYPE	ADDRESS	FIRST SEEN	LAST SEEN	ASN	COUNTRY	Unknown	23.23.109.245	A	galaxie.ca	2014-05-29 10:00	2014-05-29 10:00	AS14618 AMA-ZON-AES	United States of America	DATE CHECKED	URL	HOSTNAME	SERVER RESPONSE	IP	GOOGLE SAFE BROWSING	ANTIVIRUS RESULTS	Mar 22, 2021	https://private-mediafile.galaxie.ca	private-med...	403	99.84.79.14			Mar 22, 2021	http://private-mediafile.galaxie.ca	private-med...	403	99.84.79.25			Mar 22, 2019	http://vip-api.galaxie.ca/api/GetF...	vip-api.gala...	200	107.2194.182			Mar 22, 2019	http://vip-api.galaxie.ca/api/GetPr...	vip-api.gala...	200	54.225.105.46			Jan 3, 2019	http://galaxie.ca/	galaxie.ca	200	208.94.108.15			Sep 30, 2018	http://www.galaxie.ca/playerAPI/...	www.galaxie...	200	107.20141.209			Aug 23, 2018	http://mediafile.galaxie.ca/data/0...	mediafile.ga...	200	13.32.205.25			Aug 23, 2018	http://mediafile.galaxie.ca/data/0...	mediafile.ga...	200	13.33.148.78			Aug 9, 2018	http://mediafile.galaxie.ca/data/0...	mediafile.ga...	200	13.32.205.38			Apr 20, 2018	http://covers.galaxie.ca/song/G27...	covers.galax...	200	107.20193.169			Apr 18, 2018	http://covers.galaxie.ca/song/G4...	covers.galax...	200	107.20193.169			Apr 18, 2018	http://covers.galaxie.ca/song/G4...	covers.galax...	200	107.20193.169			Apr 18, 2018	http://covers.galaxie.ca/song/G4...	covers.galax...	200	107.20193.169			Mar 28, 2018	http://www.galaxie.ca/galaxie/pla...	www.galaxie...	200	107.20197.28			Jun 7, 2017	http://www.galaxie.ca/mobile	www.galaxie...	200	107.22.213.198			Jun 4, 2017	http://covers.galaxie.ca/	covers.galax...	200	208.94.108.15			Apr 9, 2017	http://vip-resource.galaxie.ca/	vip-resourc...	200	52.84.24.205			Apr 9, 2017	http://mediafile.galaxie.ca/	mediafile.ga...	403	52.84.24.181			Apr 5, 2017	http://www.galaxie.ca/	www.galaxie...	200	208.94.108.15		
STATUS	HOSTNAME	QUERY TYPE	ADDRESS	FIRST SEEN	LAST SEEN	ASN	COUNTRY																																																																																																																																																						
Unknown	23.23.109.245	A	galaxie.ca	2014-05-29 10:00	2014-05-29 10:00	AS14618 AMA-ZON-AES	United States of America																																																																																																																																																						
DATE CHECKED	URL	HOSTNAME	SERVER RESPONSE	IP	GOOGLE SAFE BROWSING	ANTIVIRUS RESULTS																																																																																																																																																							
Mar 22, 2021	https://private-mediafile.galaxie.ca	private-med...	403	99.84.79.14																																																																																																																																																									
Mar 22, 2021	http://private-mediafile.galaxie.ca	private-med...	403	99.84.79.25																																																																																																																																																									
Mar 22, 2019	http://vip-api.galaxie.ca/api/GetF...	vip-api.gala...	200	107.2194.182																																																																																																																																																									
Mar 22, 2019	http://vip-api.galaxie.ca/api/GetPr...	vip-api.gala...	200	54.225.105.46																																																																																																																																																									
Jan 3, 2019	http://galaxie.ca/	galaxie.ca	200	208.94.108.15																																																																																																																																																									
Sep 30, 2018	http://www.galaxie.ca/playerAPI/...	www.galaxie...	200	107.20141.209																																																																																																																																																									
Aug 23, 2018	http://mediafile.galaxie.ca/data/0...	mediafile.ga...	200	13.32.205.25																																																																																																																																																									
Aug 23, 2018	http://mediafile.galaxie.ca/data/0...	mediafile.ga...	200	13.33.148.78																																																																																																																																																									
Aug 9, 2018	http://mediafile.galaxie.ca/data/0...	mediafile.ga...	200	13.32.205.38																																																																																																																																																									
Apr 20, 2018	http://covers.galaxie.ca/song/G27...	covers.galax...	200	107.20193.169																																																																																																																																																									
Apr 18, 2018	http://covers.galaxie.ca/song/G4...	covers.galax...	200	107.20193.169																																																																																																																																																									
Apr 18, 2018	http://covers.galaxie.ca/song/G4...	covers.galax...	200	107.20193.169																																																																																																																																																									
Apr 18, 2018	http://covers.galaxie.ca/song/G4...	covers.galax...	200	107.20193.169																																																																																																																																																									
Mar 28, 2018	http://www.galaxie.ca/galaxie/pla...	www.galaxie...	200	107.20197.28																																																																																																																																																									
Jun 7, 2017	http://www.galaxie.ca/mobile	www.galaxie...	200	107.22.213.198																																																																																																																																																									
Jun 4, 2017	http://covers.galaxie.ca/	covers.galax...	200	208.94.108.15																																																																																																																																																									
Apr 9, 2017	http://vip-resource.galaxie.ca/	vip-resourc...	200	52.84.24.205																																																																																																																																																									
Apr 9, 2017	http://mediafile.galaxie.ca/	mediafile.ga...	403	52.84.24.181																																																																																																																																																									
Apr 5, 2017	http://www.galaxie.ca/	www.galaxie...	200	208.94.108.15																																																																																																																																																									
<p>retrieving, for each multimedia item of the plurality of multimedia items, at least one audio file corresponding to an audio component of the multimedia item and a plurality of screen captures corresponding to a video component of the multimedia item;</p>	<p>An audio track is retrieved, and matched with the content corresponding to the multimedia items (As shown the ASSET ID is 265998).</p>																																																																																																																																																												

<p><b>U.S. Patent No. 12,075,116 B2 Claim Language</b></p>	<p><b>UBIQUICAST SYSTEM Evidence of Infringement</b></p>
	<div style="border: 1px solid #ccc; padding: 10px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 60%;"> <p><b>Hurontel2: AudioEngine no playout since Oct 6</b></p> <p>in list Closed</p> <p><b>Description</b></p> <p>AudioEngine error log: {quote}</p> <p>...</p> <p>2015-10-07 04:20:29: [INPUT_ERROR] asset:265998: INVALID_TRACK ERROR - The track was listed in the playlist, but the file doesn't exist on the system</p> <p>2015-10-07 04:20:29: [INPUT_ERROR] asset:898710: INVALID_TRACK ERROR - The track was listed in the playlist, but the file doesn't exist on the system</p> <p>2015-10-07 04:20:29: [INPUT_ERROR] asset:267288: INVALID_TRACK ERROR - The track was listed in the playlist, but the file doesn't exist on the system</p> <p>2015-10-07 04:20:29: [INFO] [016] Loaded playlist 2015-Sep-29 to fill air time for period [2015-Oct-06 22:51:21.004598/2015-Oct-06 23:59:59.999999]. {quote}</p> <p>AudioEngine stillpic log: {quote}</p> <p>...</p> <p>2015-10-08 11:21:26,941 INFO [GalaxieStillPicGenerator] - Generating new /data/video_realtime//0161735.tar</p> <p>2015-10-08 11:21:26,941 ERROR [MediaGenerator] - Could not read Logo file</p> <p>2015-10-08 11:21:26,942 ERROR [MediaGenerator] - Could not read Ads URL Too many open files</p> <p>2015-10-08 11:21:26,942 ERROR [MediaGenerator] - High level exception: Too many open files</p> <p>2015-10-08 11:21:26,943 ERROR [GalaxieStillPicGenerator] - Could not generate fallback for /data/video_realtime//0161735.tar, deleting output file {quote}</p> <p><b>#</b></p> <p>Jira Issue Link : <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552</a></p> </div> <div style="width: 35%; text-align: right;"> <p>ACTIONS</p> <p>Share</p> </div> </div> <p><i>Source:</i> <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552</a></p> </div>
<p>rendering a webpage by a browser using the content;</p>	<p>A webpage is rendered by a browser, as shown by the above log, a browser is used to “load a logo file” and “Ads URL” where URL is a Universal Resource Locator, and as shown AlienVault includes URLs to “mediafiles” such as logos and album’s cover art.</p>

**U.S. Patent No. 12,075,116 B2 Claim Language** **UBIQUICAST SYSTEM Evidence of Infringement**

Analysis Related Pulses Comments (0)

**Passive DNS**

Show 100 entries Search:

STATUS	HOSTNAME	QUERY TYPE	ADDRESS	FIRST SEEN	LAST SEEN	ASN	COUNTRY
Unknown	23.23.109.245	A	galaxie.ca	2014-05-29 10:00	2014-05-29 10:00	AS14618 AMA-ZON-AES	United States of America

SHOWING 501 TO 501 OF 501 ENTRIES < PREVIOUS 1 ... 2 3 4 5 6

**Associated Urls**

Show 100 entries

DATE CHECKED	URL	HOSTNAME	SERVER RESPONSE	IP	GOOGLE SAFE BROWSING	ANTIVIRUS RESULTS
Mar 22, 2021	https://private-mediafile.galaxie.ca	private-med...	403	99.84.79.14		
Mar 22, 2021	http://private-mediafile.galaxie.ca	private-med...	403	99.84.79.25		
Mar 22, 2019	http://vip-api.galaxie.ca/api/GetF...	vip-api.gala...	200	107.21.94.182		
Mar 22, 2019	http://vip-api.galaxie.ca/api/GetPr...	vip-api.gala...	200	54.225.105.46		
Jan 3, 2019	http://galaxie.ca/	galaxie.ca	200	208.94.108.15		
Sep 30, 2018	http://www.galaxie.ca/playerAPI/...	www.galaxie...	200	107.201.41.209		
Aug 23, 2018	http://mediafile.galaxie.ca/data/0...	mediafile.ga...	200	13.32.205.25		
Aug 23, 2018	http://mediafile.galaxie.ca/data/0...	mediafile.ga...	200	13.33.148.78		
Aug 9, 2018	http://mediafile.galaxie.ca/data/0...	mediafile.ga...	200	13.32.205.38		
Apr 20, 2018	http://covers.galaxie.ca/song/G27...	covers.galax...	200	107.20193169		
Apr 18, 2018	http://covers.galaxie.ca/song/G4...	covers.galax...	200	107.20193169		
Apr 18, 2018	http://covers.galaxie.ca/song/G4...	covers.galax...	200	107.20193169		
Apr 18, 2018	http://covers.galaxie.ca/song/G4...	covers.galax...	200	107.20193169		
Mar 28, 2018	http://www.galaxie.ca/galaxie/pla...	www.galaxie...	200	107.2019728		
Jun 7, 2017	http://www.galaxie.ca/mobile	www.galaxie...	200	107.22.213.198		
Jun 4, 2017	http://covers.galaxie.ca/	covers.galax...	200	208.94.108.15		
Apr 9, 2017	http://vip-resource.galaxie.ca/	vip-resourc...	200	52.84.24.205		
Apr 9, 2017	http://mediafile.galaxie.ca/	mediafile.ga...	403	52.84.24.181		
Apr 5, 2017	http://www.galaxie.ca/	www.galaxie...	200	208.94.108.15		

SHOWING 1 TO 19 OF 19 ENTRIES

Source: <https://otx.alienvault.com/indicator/domain/galaxie.ca>

generating a plurality of screen captures of the rendered web page using a headless rendering engine;

The GalaxieStillPic generator generates a plurality of screen captures without displaying any of the images, hence a headless rendering engine via Media Generator and GalaxieStillPicGenerator.

```
many open files
2015-10-08 11:21:26,943 ERROR [GalaxieStillPicGenerator] - Could not generate fallback for /data/video_realtime//0161735.tar, deleting output file {quote}
```




Source: <https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552>

generating, at the caching unit, the plurality of multimedia items in the requested format based on the content from the internet, the generating



The caching unit receives the web content and generates multimedia items in the requested format.



```
many open files
2015-10-08 11:21:26,943 ERROR [GalaxieStillPicGenerator] - Could not generate fallback for /data/video_realtime//0161735.tar, deleting output file {quote}
```

Source: <https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552>

U.S. Patent No. 12,075,116 B2 Claim Language	UBIQUICAST SYSTEM Evidence of Infringement
<p>comprising, for each of the plurality of multimedia items:</p>	
<p>assembling a video component of a multimedia item using the plurality of screen captures,</p>	<p>Multimedia items are combined to create a media stream in the requested format.</p> <p>A video is assembled by GalaxieStillPic Generator, as the “still picts” are captured comprising logo, ads URL, and others to create screen captures to be multiplexed (see Track ASSET ID: 265998 above).</p> <div data-bbox="389 583 1266 1659" style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <p> <b>Hurontel2: AudioEngine no payout since Oct 6</b></p> <p>in list Closed</p> <p style="text-align: right;">ACTIONS</p> <p> Share</p> <p> <b>Description</b></p> <p>AudioEngine error log: {quote}</p> <p>...</p> <p>2015-10-07 04:20:29: [INPUT_ERROR] asset:265998: INVALID_TRACK ERROR - The track was listed in the playlist, but the file doesn't exist on the system</p> <p>2015-10-07 04:20:29: [INPUT_ERROR] asset:898710: INVALID_TRACK ERROR - The track was listed in the playlist, but the file doesn't exist on the system</p> <p>2015-10-07 04:20:29: [INPUT_ERROR] asset:267288: INVALID_TRACK ERROR - The track was listed in the playlist, but the file doesn't exist on the system</p> <p>2015-10-07 04:20:29: [INFO] [016] Loaded playlist 2015-Sep-29 to fill air time for period [2015-Oct-06 22:51:21.004598/2015-Oct-06 23:59:59.999999]. {quote}</p> <p>AudioEngine stillpic log: {quote}</p> <p>...</p> <p>2015-10-08 11:21:26,941 INFO [GalaxieStillPicGenerator] - Generating new /data/video_realtime//0161735.tar</p> <p>2015-10-08 11:21:26,941 ERROR [MediaGenerator] - Could not read Logo file</p> <p>2015-10-08 11:21:26,942 ERROR [MediaGenerator] - Could not read Ads URL Too many open files</p> <p>2015-10-08 11:21:26,942 ERROR [MediaGenerator] - High level exception: Too many open files</p> <p>2015-10-08 11:21:26,943 ERROR [GalaxieStillPicGenerator] - Could not generate fallback for /data/video_realtime//0161735.tar, deleting output file {quote}</p> <p>#</p> <p>Jira Issue Link : <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552</a></p> </div> <p>Source: <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552</a></p>
<p>combining the plurality of screen captures and the at least one audio file, thereby creating the</p>	<p>The audio file is combined with the content retrieved from the internet to generate the video stream (via ASSET ID: 265998 and TRACK or music track).</p>

U.S. Patent No. 12,075,116 B2 Claim Language	UBIQUICAST SYSTEM Evidence of Infringement
multimedia item, and	<div data-bbox="402 304 1263 1360"> <p><b>Hurontel2: AudioEngine no playout since Oct 6</b> in list Closed</p> <p><b>Description</b></p> <p>AudioEngine error log: {quote} ... 2015-10-07 04:20:29: [INPUT_ERROR] asset:265998: INVALID_TRACK ERROR - The track was listed in the playlist, but the file doesn't exist on the system 2015-10-07 04:20:29: [INPUT_ERROR] asset:898710: INVALID_TRACK ERROR - The track was listed in the playlist, but the file doesn't exist on the system 2015-10-07 04:20:29: [INPUT_ERROR] asset:267288: INVALID_TRACK ERROR - The track was listed in the playlist, but the file doesn't exist on the system 2015-10-07 04:20:29: [INFO] [016] Loaded playlist 2015-Sep-29 to fill air time for period [2015-Oct-06 22:51:21.004598/2015-Oct-06 23:59:59.999999]. {quote}</p> <p>AudioEngine stillpic log: {quote} ... 2015-10-08 11:21:26,941 INFO [GalaxieStillPicGenerator] - Generating new /data/video_realtime//0161735.tar 2015-10-08 11:21:26,941 ERROR [MediaGenerator] - Could not read Logo file 2015-10-08 11:21:26,942 ERROR [MediaGenerator] - Could not read Ads URL Too many open files 2015-10-08 11:21:26,942 ERROR [MediaGenerator] - High level exception: Too many open files 2015-10-08 11:21:26,943 ERROR [GalaxieStillPicGenerator] - Could not generate fallback for /data/video_realtime//0161735.tar, deleting output file {quote}</p> <p>#</p> <p>Jira Issue Link : <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552</a></p> </div> <p>Source: <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552</a></p>
saving the multimedia item at the caching unit;	<p>The video stream is saved into the caching unit (See references to /data above).</p> <div data-bbox="402 1486 1263 1665"> <p>many open files 2015-10-08 11:21:26,943 ERROR [GalaxieStillPicGenerator] - Could not generate fallback for /data/video_realtime//0161735.tar, deleting output file {quote}</p> </div> <p>Source: <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-552</a></p>
providing at least one media stream to a content provider for multicasting on the broadcast	<p>The content retrieved from the internet is combined with the audio file to create the media stream provided via a multicast channel. Content is provided to AT&amp;T and other customers.</p>

U.S. Patent No. 12,075,116 B2 Claim Language	UBIQUICAST SYSTEM Evidence of Infringement
media channel, wherein the providing comprises:	
assembling the at least one media stream in the requested format using the plurality of the multimedia items saved at the caching unit;	<p>Multimedia items are combined to create a media stream in the requested format (shows that 6 Mbps MPEG 4 HIGH@L4 generated for Main unit and a backup server, with MC or Multicast at 225.202.47.5:2000 and 225.202.47.6:2000).</p> <p> <b>MX1 - Uplink C-MUSIC on Measat 3A</b></p> <p>in list IN PROGRESS</p> <p> <b>Description</b></p> <p>Content is ready on the servers:</p> <p>6 Mbps MPEG 4 High @L4</p> <p>Server#1 Main : 10.202.47.5/28    MC: 225.202.47.5:2000            Server#2 BU : 10.202.47.6/28    MC: 225.202.47.6:2000</p> <p>Need the following:</p> <p>(/) Window to deploy -- DONE Programs deployed on both servers.</p> <p>#</p> <p>Jira Issue Link : <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-2368">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-2368</a></p> <p>Source: <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-2368">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-2368</a></p>
detecting a change at the at least one website corresponding to at least one of the plurality of multimedia items saved at the caching unit;	<p>Content obtained from the internet is monitored to detect any changes, as the new song is detected an update is made to the playlist or a particular song. Each song has a cover art defined by part of the link to <b>song/L:2129124/showCoverORgenericCover/size_103_574.jpg</b>.</p>

<p><b>U.S. Patent No. 12,075,116 B2 Claim Language</b></p>	<p><b>UBIQUICAST SYSTEM Evidence of Infringement</b></p>
	<p> <b>Ubimetaserver - Internal Errors</b></p> <p>in list Closed</p> <p> <b>Description</b></p> <p>This was seen today across all servers at the same time:</p> <pre>{code} [ERROR] Cache - internal error: expected to get a state from key [/song/L:2129124/showCoverORgenericCover/size_103_574.jpg] [ERROR] Cache - internal error: expected to get a state from key [/song/L:1835012/showCoverORgenericCover/size_103_574.jpg] {code}</pre> <p>Below is the snippet from that time:</p> <pre>{code} 2016-05-20 07:24:30,837 INFO [SQSMetadataPush] - [014] Push success 2016-05-20 07:24:30,925 INFO [SQSMetadataPush] - [189] Pushing file to SQS: /data/metadata/GX189_NT.xml &lt;Playlist DeviceId="accesscommunication1" FileName="GX189_NT.xml" Now="Fri May 20 07:24:30 2016" TimezoneId="America/Regina"&gt;</pre> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <pre>[PLAYING] &lt;Entry Event="12" Type="Playing" Category="020" Id="1123" Title="Veinte anos" Artist="Buena Vista [NEXT] &lt;Entry Event="13" Type="Not Played" Category="M17" Id="1372" Title="Eres Mi Cancion" Artist="Rubén</pre> </div> <p>Source: <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-1183">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-1183</a></p>
<p>in response to the detecting the change, retrieving a new plurality of screen captures from the at least one website for the at least one of the plurality of multimedia items; and</p>	<p>If the content changes, new content from the internet is retrieved, as shown a song with L:2129124 is retrieved followed by song L:1835012 for playlist GX189_NT.xml, and as playlists are updated, a change is detected for a new update to occur.</p> <pre>2016-05-13 19:51:48,700 INFO [request] - Sending Request: POST https://queue.amazonaws.com //008306160229/GalaxieMetadataPushQueue Parameters: (MessageBody: &lt;feff&gt;&lt;?xml version="1.0" encoding="utf-8"?&gt; &lt;Playlist DeviceId="maxtrax1" FileName="GX45_NT.xml" Now="Fri May 13 19:51:48 2016"&gt;</pre> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <pre>&lt;Entry Event="00" Type="Played" Category="200" Id="7054" Title="Stingray ID.045.Eclectic Electronic.v1.v &lt;Entry Event="01" Type="Played" Category="211" Id="2467" Title="Calm Down" Artist="Katy B, Four Tet &amp; &lt;Entry Event="02" Type="Played" Category="201" Id="7825" Title="Blind Heart" Artist="Cazette &amp; Terri &lt;Entry Event="03" Type="Played" Category="212" Id="9133" Title="Lies" Artist="Jane X0" Album="" Compose &lt;Entry Event="04" Type="Played" Category="211" Id="7174" Title="You&amp;apos;re Good but I&amp;apos;m Better" Ar &lt;Entry Event="05" Type="Played" Category="203" Id="7490" Title="Latch" Artist="Disclosure feat. Sam Smi &lt;Entry Event="06" Type="Played" Category="211" Id="7177" Title="Castles" Artist="Project 46 &amp; Bynon' &lt;Entry Event="07" Type="Played" Category="200" Id="7078" Title="Stingray ID.045.Eclectic Electronic.v2.v &lt;Entry Event="08" Type="Played" Category="210" Id="1210" Title="Running Out" Artist="Matoma &amp; Astric &lt;Entry Event="09" Type="Played" Category="212" Id="5230" Title="Tremble" Artist="Nicole Millar" Album="T</pre> </div> <p>Source: <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-1183">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-1183</a></p>

<p><b>U.S. Patent No. 12,075,116 B2 Claim Language</b></p>	<p><b>UBIQUICAST SYSTEM Evidence of Infringement</b></p>
<p>reassembling the at least one of the plurality of multimedia items using the new plurality of screen captures, thereby creating at least one updated multimedia item.</p>	<p>Once the new song is issued, multimedia items are reassembled to create an updated multimedia item; the outputs are assembled in audio + MPEG-2.</p> <div data-bbox="391 359 1463 913" style="border: 1px solid #ccc; padding: 10px; margin-bottom: 10px;"> <p><b>UbiquiCAST - Prepare AudioEngine config templates</b> <span style="float: right;">&gt;</span></p> <p>in list Closed</p> <div style="text-align: right;">ACTIONS</div> <div style="text-align: right; border: 1px solid #ccc; padding: 2px; display: inline-block;">Share</div> <p><b>Description</b></p> <p>Prepare audioengine config templates (shared task for Nadia and Mike)</p> <ul style="list-style-type: none"> <li>• audio + data</li> <li>• audio + OSE2 MPEG-2 + data</li> <li>• audio + OSE2 H.264 + data</li> <li>• Ambiance</li> <li>• LiteTV</li> </ul> <p>#</p> <p>Jira Issue Link : <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-379">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-379</a></p> </div> <p>Source: <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-379">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-379</a></p> <div data-bbox="391 976 1463 1850" style="border: 1px solid #ccc; padding: 10px;"> <p><b>Source Cable - Change the ambiance role</b></p> <p>in list Closed</p> <div style="text-align: right;">Actions</div> <div style="text-align: right; border: 1px solid #ccc; padding: 2px; display: inline-block;">Share</div> <p><b>Description</b></p> <pre style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> &lt;FillerInserter id="fillerInserter" use-mediainfo="1"  &lt;SimpleVideoLoader id="simpleVideoLoader" scope="prot db="galaxieDB" videopath="/data/video_linear/AV_MP2_15K" ffmpeg-path="/usr/local/bin/ffmpeg" seek-enabled="0" use-mediainfo="1" role-code="AV_MP2_15K" encoding="MPEG2VIDEO" extension="m2v" /&gt;                 </pre> <p>for both XML tag change AV_MP2_15K by AV_MP2_1080i30_15M</p> <p>contact: Calin Bisca <a href="mailto:Calin.Bisca@rci.rogers.com">Calin.Bisca@rci.rogers.com</a></p> <p>#</p> <p>Jira Issue Link : <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-462">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-462</a></p> </div> <p>Source: <a href="https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-462">https://jira-stage.corp.stingraydigital.com/browse/CUSTTS-462</a></p>