Factsheet for French DAB+ Broadcast Networks

Information to date available for DAB+ Services broadcast by TDF

- There are two national DAB+ multiplexes (named M1 and M2) in France that have been launched in October 2021 on the Paris-Lyon-Marseille road axis. Coverage will be extended step by step to cover a large part of the road network of Metropolitan (mainland) France by the end of 2027 (national roads, motorways and cities served by this road network).
  - Next extension on air by the end of 2023.

- There are also several local multiplexes - on-air or planned – all over France. These are known as:
  - Etendu: coverage of several departments around a large city
  - Local: coverage of one conurbation
  - Intermédiaire: larger coverage around one conurbation

- Each multiplex / ensemble consists of 13 radio services

Arcom\(^1\) Deployment plan: see page 5.

Manufacturers of DAB+ radio receivers can use the information provided in this factsheet to test their devices.

Béatrice LETHIELLEUX
TDF
DTT and Radio Platforms Marketing Manager

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\(^1\) ARCOM: French Audio-visual Regulator: [https://www.arcom.fr](https://www.arcom.fr)
## DAB+ Broadcast M1

### Broadcast

<table>
<thead>
<tr>
<th>Multiplex Name</th>
<th>Arcom ID to date (on air)</th>
<th>Channel</th>
<th>EID</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1</td>
<td>N1_National_12</td>
<td>7A</td>
<td>F043</td>
</tr>
<tr>
<td></td>
<td>N1_National_13</td>
<td>10B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N1_National_4</td>
<td>9D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N1_National_7</td>
<td>6C</td>
<td></td>
</tr>
</tbody>
</table>

### SFN network for M1

![Map of SFN network for M1](image)

### Radio stations (13)

- Air Zen
- Chérie FM
- Fun Radio
- Latina
- M Radio
- Nostalgie
- NRJ
- Radio Classique
- Rire et Chansons
- RTL
- RTL 2
- Skyrock
- Skyrock Klassiks

### Audio

Encoding exclusive DAB+ / AAC+ bitrates at 88 kbit/s

### Programme Type PTY

No

### DLS

0.5 to 1 kbit/s dynamic as integrated PAD.

### Slideshow

Yes, per radio station 8 to 16 kbit/s dynamic as integrated PAD.

### Station Logos

Yes: Slideshow

### Traffic Information

No

### Announcement (TA)

No

### Other Ensemble Announcement (OE)

No

### Service Information

- Minimal signalling to display and decode is broadcasted FIG 0/0, 0/1, 0/2; 0/8, 0/9, 0/10; 0/13; 0/17; 1/0, 1/1
- Service following are not broadcasted FIG 0/6 and 0/21
- Other multiplex (ensemble) information is not broadcasted FIG 0/24

### Service Following

No specific signalling for Service Following is broadcasted as of today. Implicit linking for DAB > FM continuity occurs by default when the code PI (FM) = SID (DAB).

### Hard links

No

### Soft links

No

### Service Configuration

No

### DAB+ standard EN300401
### DAB+ Broadcast M2

<table>
<thead>
<tr>
<th>Broadcast</th>
<th>MFN network</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiplex Name</td>
<td>Arcom ID to date (on air)</td>
</tr>
<tr>
<td>M2</td>
<td>N2_National_1</td>
</tr>
<tr>
<td></td>
<td>N2_National_15</td>
</tr>
<tr>
<td></td>
<td>N2_National_2</td>
</tr>
<tr>
<td></td>
<td>N2_National_9</td>
</tr>
</tbody>
</table>

#### SFN network for M2

![](image)

#### Radio stations (13)

- BFM Business
- BFM Radio
- Europe 1
- Europe 2
- FIP
- France Culture
- France Info
- France Inter
- France Musique
- KTO Radio (new, on-air)
- Mouv’
- RFM
- RMC

#### Audio

- Encoding exclusive DAB+ / AAC+ bitrates at 88 kbit/s

#### Programme Type PTY

No

#### DLS

0.5 to 1 kbit/s dynamic as integrated PAD.

#### Slideshow

Yes, per radio station 8 to 16 kbit/s dynamic as integrated PAD.

#### Station Logos

Yes: Integrated in Slideshow

#### Traffic Information

No

#### Announcement (TA)

No

#### Other Ensemble Announcement (OE)

No

#### Service Information

- Minimal signalling to display and decode is broadcasted FIG 0/0, 0/1, 0/2; 0/8, 0/9, 0/10; 0/13; 0/17; 1/0, 1/1
- Frequency information is not broadcasted FIG 0/21
- Other multiplex (ensemble) information is not broadcasted FIG 0/24

#### Service Following

No specific signalling for Service Following is broadcasted as of today. Implicit linking for DAB > FM continuity occurs by default when the code PI (FM) = SID (DAB).

#### Hard links

No

#### Soft links

No

#### Service Configuration

No

DAB+ standard EN300401
DAB+ Broadcast Local multiplexes

<table>
<thead>
<tr>
<th>Broadcast</th>
<th>SFN network</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio</td>
<td>Encoding exclusive DAB+ / AAC+ bitrates from 64 to 80 kbit/s</td>
</tr>
<tr>
<td>Programme Type PTY</td>
<td>No</td>
</tr>
<tr>
<td>DLS</td>
<td>0.5 to 1 kbit/s dynamic as integrated PAD.</td>
</tr>
<tr>
<td>Slideshow</td>
<td>Yes, per radio station 8 to 16 kbit/s dynamic as integrated PAD.</td>
</tr>
<tr>
<td>Station Logos</td>
<td>Yes: Integrated in Slideshow</td>
</tr>
<tr>
<td>Traffic Information</td>
<td>No</td>
</tr>
<tr>
<td>Announcement (TA)</td>
<td>No</td>
</tr>
<tr>
<td>Other Ensemble Announcement (OE)</td>
<td>No</td>
</tr>
</tbody>
</table>
| Service Information        | • Minimal signalling to display and decode is broadcasted FIG 0/2; 0/5; 0/8; 0/13; 0/17; 1/1  
|                            | • Service following are not broadcasted FIG 0/6 and 0/21  
|                            | • Frequency information is not broadcasted FIG 0/21  
|                            | Other multiplex (ensemble) information is not broadcasted FIG 0/24  |
| Service Following          | No specific signalling for Service Following is broadcasted as of today  
|                            | Implicit linking for DAB > FM continuity occurs by default when the code PI (FM) = SID (DAB).  |
| Hard links                 | No                                               |
| Soft links                 | No                                               |
| Service Configuration      | No                                               |
| DAB+ standard EN300401     |                                                  |

Arcom Etendu multiplexes plan

![Arcom Etendu multiplexes plan](image-url)