Factsheet

Factsheet for Norwegian National Broadcast Networks

In December 2017, Norway became the first country to completely switch off national FM services, completing a year-long process of switching off region by region. 99.7% of the population has access to DAB+ reception, 6 million receivers have been sold to date, and 100% of new cars have DAB+ fitted as standard.

Manufacturers of DAB+ radio receivers can use the information provided in this factsheet to test their devices. ETI Files from NRK are always up to date with the latest ensemble configuration and can be downloaded from WorldDAB's ETI library.

There are also several local ensembles on-air all over Norway. More info about the local ensembles can be found here: https://www.wohnort.org/dab/norway.html

Håvard Wien

Head of radiodistribution, NRK,

13.10.2022

Factsheet

worlddab

DAB+ Broadcast NRK

Broadcast	SFN network		
	Ensemble	**Channel**	**EID**
	NRK Reg1 Oslo Vik	12C	F701
Radiostations	NRK P1 NRK P1 Østlandssendingen NRK P1 Østfold NRK P1 Buskerud NRK P1+ NRK P1+ Østlandssendingen NRK P1+ Østfold NRK P1+ Buskerud NRK P2 NRK P3 NRK P13 NRK mP3 NRK Klassisk NRK Nyheter NRK Sport NRK Super / Folkemusikk (NRK Super from 06:00 – 21:00. Same SId) NRK Jazz NRK Sàpmi NRK Trafikk 1 NRK YR 1		
Audio	Encoding exclusive DAB+ / AAC+ datarates from 24 to 80 kbit/s		
Programme Type PTY	Yes		
DLS /DL+	0,5 kbit/s dynamic as integrated PAD. DL+ Tags: Info.traffic, Phone.Hotline, SMS.Studio, Programme.Now, Item.Title, Item.Artist, Info.Weather		
Slideshow	Yes, per radiostation 6 kbit/s dynamic as integrated PAD.		
Station Logos	Yes, use of SPI in a Packet Mode Data Service in NPAD as service information.		
Traffic Information	Yes. One traffic station (NRK Trafikk) in each region and Traffic and Transport announcement		
Announcement (TA)	Yes. "Road Traffic flash" and "Transport flash" in all regions. In addition, one region also carries "Alarm" announcements. (FIG 0/18 + FIG 0/19)		
Other Ensemble Announcement (OE)	No		
Service Information	• Yes, frequency information (FIG 0/21) • Yes, other ensemble (FIG 0/24)		
Service Following	Yes. Implicit linking. FIG 0/24 + FIG 0/21 are being used to determine which frequencies to check when a receiver loose reception. For softlinking please see below.		
Hardlinks	NO		

Factsheet

Softlinks	Yes, for the services NRK Trafikk and NRK YR
Service Configuration	Yes, FIG 0/7 changes of configurations
	No, FIG 0/20 stations list info for DAB+ receivers
Adaption of DAB+ standard EN300401 from 2006-06 V 1.4.1 to 2017 V 2.1.1 partially	

Broadcast	SFN network		
	Ensemble	**Channel**	**EID**
	NRK Reg2 VeTeVik	13A	F901
Radiostations	NRK P1 NRK P1 Buskerud NRK P1 Vestfold NRK P1 Telemark NRK P1+ NRK P1+ Buskerud NRK P1+ Vestfold NRK P1+ Telemark NRK P2 NRK P3 NRK P13 NRK mP3 NRK Klassisk NRK Nyheter NRK Sport NRK Super / Folkemusikk (NRK Super from 06:00 – 21:00. Same SId) NRK Jazz NRK Sàpmi NRK Trafikk 2 NRK YR 2		
Audio	Encoding exclusive DAB+ / AAC+ datarates from 24 to 80 kbit/s		
Programme Type PTY	Yes		
DLS /DL+	0,5 kbit/s dynamic as integrated PAD. DL+ Tags: Info.traffic, Phone.Hotline, SMS.Studio, Programme.Now, Item.Title, Item.Artist, Info.Weather		
Slideshow	Yes, per radiostation 6 kbit/s dynamic as integrated PAD.		
Station Logos	Yes, use of SPI in a Packet Mode Data Service in NPAD as service information.		
Traffic Information	Yes. One traffic station (NRK Trafikk) in each region and Traffic and Transport announcement		
Announcement (TA)	Yes. "Road Traffic flash", "Transport flash" and Alarm" announcements. (FIG 0/18 + FIG 0/19)		
Other Ensemble Announcement (OE)	No		
Service Information	• Yes, frequency information (FIG 0/21) • Yes, other ensemble (FIG 0/24)		
Service Following	Yes.		

	Implicit linking. FIG 0/24 + FIG 0/21 are being used to determine which frequencies to check when a receiver loose reception. For softlinking please see below.
Hardlinks	NO
Softlinks	Yes, for the services NRK Trafikk and NRK YR
Service Configuration	Yes, FIG 0/7 changes of configurations No, FIG 0/20 stations list info for DAB+ receivers
Adaption of DAB+ standard EN300401 from 2006-06 V 1.4.1 to 2017 V 2.1.1 partially	

Broadcast	SFN network
	<table><tr><td>**Ensemble**</td><td>**Channel**</td><td>**EID**</td></tr><tr><td>NRK Reg3 SørRog</td><td>13F</td><td>F801</td></tr></table>
Radiostations	NRK P1 NRK P1 Sørlandet NRK P1 Rogaland NRK P1 Hordaland NRK P1+ NRK P1+ Sørlandet NRK P1+ Rogaland NRK P1+ Hordaland NRK P2 NRK P3 NRK P13 NRK mP3 NRK Klassisk NRK Nyheter NRK Sport NRK Super / Folkemusikk (NRK Super from 06:00 – 21:00. Same SId) NRK Jazz NRK Sàpmi NRK Trafikk 3 NRK YR 3
Audio	Encoding exclusive DAB+ / AAC+ datarates from 24 to 80 kbit/s
Programme Type PTY	Yes
DLS /DL+	0,5 kbit/s dynamic as integrated PAD. DL+ Tags: Info.traffic, Phone.Hotline, SMS.Studio, Programme.Now, Item.Title, Item.Artist, Info.Weather
Slideshow	Yes, per radiostation 6 kbit/s dynamic as integrated PAD.
Station Logos	Yes, use of SPI in a Packet Mode Data Service in NPAD as service information.
Traffic Information	Yes. One traffic station (NRK Trafikk) in each region and Traffic and Transport announcement
Announcement (TA)	Yes. "Road Traffic flash" and "Transport flash" in all regions. In addition, one region also carries "Alarm" announcements. (FIG 0/18 + FIG 0/19)
Other Ensemble Announcement (OE)	No

Service Information	• Yes, frequency information (FIG 0/21) • Yes, other ensemble (FIG 0/24)
Service Following	Yes. Implicit linking. FIG 0/24 + FIG 0/21 are being used to determine which frequencies to check when a receiver loose reception. For softlinking please see below.
Hardlinks	NO
Softlinks	Yes, for the services NRK Trafikk and NRK YR
Service Configuration	Yes, FIG 0/7 changes of configurations No, FIG 0/20 stations list info for DAB+ receivers
Adaption of DAB+ standard EN300401 from 2006-06 V 1.4.1 to 2017 V 2.1.1 partially	

Broadcast	SFN network		
	Ensemble	**Channel**	**EID**
	NRK Reg4 Vest	12B	F401
Radiostations	NRK P1 NRK P1 Hordaland NRK P1 Sogn og Fjordane NRK P1 Møre og Romsdal NRK P1+ NRK P1+ Hordaland NRK P1+ Sogn og Fjordane NRK P1+ Møre og Romsdal NRK P2 NRK P3 NRK P13 NRK mP3 NRK Klassisk NRK Nyheter NRK Sport NRK Super / Folkemusikk (NRK Super from 06:00 – 21:00. Same SId) NRK Jazz NRK Sàpmi NRK Trafikk 4 NRK YR 4		
Audio	Encoding exclusive DAB+ / AAC+ datarates from 24 to 80 kbit/s		
Programme Type PTY	Yes		
DLS /DL+	0,5 kbit/s dynamic as integrated PAD. DL+ Tags: Info.traffic, Phone.Hotline, SMS.Studio, Programme.Now, Item.Title, Item.Artist, Info.Weather		
Slideshow	Yes, per radiostation 6 kbit/s dynamic as integrated PAD.		
Station Logos	Yes, use of SPI in a Packet Mode Data Service in NPAD as service information.		
Traffic Information	Yes. One traffic station (NRK Trafikk) in each region and Traffic and Transport announcement		

Announcement (TA)	Yes. "Road Traffic flash" and "Transport flash" in all regions. In addition, one region also carries "Alarm" announcements. (FIG 0/18 + FIG 0/19)
Other Ensemble Announcement (OE)	No
Service Information	• Yes, frequency information (FIG 0/21) • Yes, other ensemble (FIG 0/24)
Service Following	Yes. Implicit linking. FIG 0/24 + FIG 0/21 are being used to determine which frequencies to check when a receiver loose reception. For softlinking please see below.
Hardlinks	NO
Softlinks	Yes, for the services NRK Trafikk and NRK YR
Service Configuration	Yes, FIG 0/7 changes of configurations No, FIG 0/20 stations list info for DAB+ receivers
Adaption of DAB+ standard EN300401 from 2006-06 V 1.4.1 to 2017 V 2.1.1 partially	

Broadcast	6 SFN networks and 1 MFN network		
	Ensemble	**Channel**	**EID**
	NRK Reg5 Innland	13E	F501
Radiostations	NRK P1 NRK P1 Østlandssendingen NRK P1 Innlandet NRK P1 Trøndelag NRK P1+ NRK P1+ Østlandssendingen NRK P1+ Innlandet NRK P1+ Trøndelag NRK P2 NRK P3 NRK P13 NRK mP3 NRK Klassisk NRK Nyheter NRK Sport NRK Super / Folkemusikk (NRK Super from 06:00 – 21:00. Same SId) NRK Jazz NRK Sàpmi NRK Trafikk 5 NRK YR 5		
Audio	Encoding exclusive DAB+ / AAC+ datarates from 24 to 80 kbit/s		
Programme Type PTY	Yes		
DLS /DL+	0,5 kbit/s dynamic as integrated PAD. DL+ Tags: Info.traffic, Phone.Hotline, SMS.Studio, Programme.Now, Item.Title, Item.Artist, Info.Weather		

Slideshow	Yes, per radiostation 6 kbit/s dynamic as integrated PAD.
Station Logos	Yes, use of SPI in a Packet Mode Data Service in NPAD as service information.
Traffic Information	Yes. One traffic station (NRK Trafikk) in each region and Traffic and Transport announcement
Announcement (TA)	Yes. "Road Traffic flash" and "Transport flash" in all regions. In addition, one region also carries "Alarm" announcements. (FIG 0/18 + FIG 0/19)
Other Ensemble Announcement (OE)	No
Service Information	• Yes, frequency information (FIG 0/21) • Yes, other ensemble (FIG 0/24)
Service Following	Yes. Implicit linking. FIG 0/24 + FIG 0/21 are being used to determine which frequencies to check when a receiver loose reception. For softlinking please see below.
Hardlinks	NO
Softlinks	Yes, for the services NRK Trafikk and NRK YR
Service Configuration	Yes, FIG 0/7 changes of configurations No, FIG 0/20 stations list info for DAB+ receivers
Adaption of DAB+ standard EN300401 from 2006-06 V 1.4.1 to 2017 V 2.1.1 partially	

Broadcast	SFN network
	Ensemble / **Channel** / **EID** — NRK Reg6 TrøMøRo / 12C / F301
Radiostations	NRK P1 NRK P1 Innlandet NRK P1 Møre og Romsdal NRK P1 Trøndelag NRK P1+ NRK P1+ Innlandet NRK P1+ Møre og Romsdal NRK P1+ Trøndelag NRK P2 NRK P3 NRK P13 NRK mP3 NRK Klassisk NRK Nyheter NRK Sport NRK Super / Folkemusikk (NRK Super from 06:00 – 21:00. Same SId) NRK Jazz NRK Sàpmi NRK Trafikk 6 NRK YR 6
Audio	Encoding exclusive DAB+ / AAC+ datarates from 24 to 80 kbit/s

The Broadcast table's inner table:

Ensemble	Channel	EID
NRK Reg6 TrøMøRo	12C	F301

Programme Type PTY	Yes
DLS /DL+	0,5 kbit/s dynamic as integrated PAD. DL+ Tags: Info.traffic, Phone.Hotline, SMS.Studio, Programme.Now, Item.Title, Item.Artist, Info.Weather
Slideshow	Yes, per radiostation 6 kbit/s dynamic as integrated PAD.
Station Logos	Yes, use of SPI in a Packet Mode Data Service in NPAD as service information.
Traffic Information	Yes. One traffic station (NRK Trafikk) in each region and Traffic and Transport announcement
Announcement (TA)	Yes. "Road Traffic flash" and "Transport flash" in all regions. In addition, one region also carries "Alarm" announcements. (FIG 0/18 + FIG 0/19)
Other Ensemble Announcement (OE)	No
Service Information	• Yes, frequency information (FIG 0/21) • Yes, other ensemble (FIG 0/24)
Service Following	Yes. Implicit linking. FIG 0/24 + FIG 0/21 are being used to determine which frequencies to check when a receiver loose reception. For softlinking please see below.
Hardlinks	NO
Softlinks	Yes, for the services NRK Trafikk and NRK YR
Service Configuration	Yes, FIG 0/7 changes of configurations No, FIG 0/20 stations list info for DAB+ receivers
Adaption of DAB+ standard EN300401 from 2006-06 V 1.4.1 to 2017 V 2.1.1 partially	

Broadcast	**MFN- network**			
	Ensemble	**Channel**	**EID**	
	NRK Reg7 NoTroFi	12B+ 13E	F601	
Radiostations	NRK P1 NRK P1 Nordland NRK P1 Troms NRK P1 Finnmark NRK P1+ NRK P1+ Nordland NRK P1+ Troms NRK P1+ Finnmark NRK P2 NRK P3 NRK P13 NRK mP3 NRK Klassisk NRK Nyheter NRK Sport NRK Super / Folkemusikk (NRK Super from 06:00 – 21:00. Same SId)			

	NRK Jazz NRK Sàpmi NRK Trafikk 7 NRK YR 7
Audio	Encoding exclusive DAB+ / AAC+ datarates from 24 to 80 kbit/s
Programme Type PTY	Yes
DLS /DL+	0,5 kbit/s dynamic as integrated PAD. DL+ Tags: Info.traffic, Phone.Hotline, SMS.Studio, Programme.Now, Item.Title, Item.Artist, Info.Weather
Slideshow	Yes, per radiostation 6 kbit/s dynamic as integrated PAD.
Station Logos	Yes, use of SPI in a Packet Mode Data Service in NPAD as service information.
Traffic Information	Yes. One traffic station (NRK Trafikk) in each region and Traffic and Transport announcement
Announcement (TA)	Yes. "Road Traffic flash" and "Transport flash" in all regions. In addition, one region also carries "Alarm" announcements. (FIG 0/18 + FIG 0/19)
Other Ensemble Announcement (OE)	No
Service Information	• Yes, frequency information (FIG 0/21) • Yes, other ensemble (FIG 0/24)
Service Following	Yes. Implicit linking. FIG 0/24 + FIG 0/21 are being used to determine which frequencies to check when a receiver loose reception. In region 7, the ensemble NRK Reg7 NoTroFi is a MFN network which is signalled with FIG 0/21. The channel 13E is used in the southern part and the channel 12B is used in the northern part. For softlinking please see below.
Hardlinks	NO
Softlinks	Yes, for the services NRK Trafikk and NRK YR
Service Configuration	Yes, FIG 0/7 changes of configurations No, FIG 0/20 stations list info for DAB+ receivers
Adaption of DAB+ standard EN300401 from 2006-06 V 1.4.1 to 2017 V 2.1.1 partially	

Broadcast	SFN network		
	Ensemble	**Channel**	**EID**
	RIKS	12D	F201
Radiostations	KISS N`DANCE NORSK POP P24-7 FUN P24-7 KOS P24-7 MIX POPPLAY RADIONORGE		

	RADIO ROCK TOPP 40 VINYL NRJ NORGE P4 LydenAvNorge P5 Hits P6 Rock P7 Klem P8 Pop 80s & 90s P9 Retro P10 Country
Audio	One station in DAB 128 kbit/s (P4 LydenAvNorge). All other stations in DAB+ datarates from 40 to 72 kbit/s
Programme Type PTY	Yes
DLS /DL+	0,5 kbit/s dynamic as integrated PAD. DL+ Tags: Item.Title, Item.Artist,
Slideshow	Yes, per radiostation 6 kbit/s dynamic as integrated PAD.
Station Logos	Yes, use of SPI in a Packet Mode Data Service in NPAD as service information. There are two different SPI services.
Traffic Information	Yes. TPEG
Announcement (TA)	No
Other Ensemble Announcement (OE)	No
Service Information	No
Service Following	No
Hardlinks	No
Softlinks	No
Service Configuration	No
Adaption of DAB+ standard EN300401 from 2006-06 V 1.4.1 to 2017 V 2.1.1 partially	