

Factsheet for Swiss DAB+ broadcast networks

DigiMig Planners Roundtable

Digital radio via DAB+ is becoming increasingly popular. FM frequencies in Switzerland will be switched off by the end of 2024 at the latest.

Better listening quality, wider range of radio stations, larger broadcast area: thanks to these advantages, DAB+ technology has now replaced analogue FM-broadcast as the standard for radio listening in Switzerland.

DAB+ is a technology which allows further improvements and additions to increase the benefit to the audience. This is done through further implementations of standardized applications and functions.

This document shows the current status in Switzerland, indicates future developments, and provides information on the next planned steps.

Manufacturers of DAB+ radio receivers can use the information provided in this factsheet to test their devices. Their customers are keen to benefit from new functions.

Rmo, 16.03.2022

June 2022 Page **1** of **5**

Factsheet



DAB+ Broadcast SRG SSR

	SRG SSR				
Broadcast	1 ensemble per language region (total 4)				
	SFN network				
	Ensemble	Channel	EID		
	D01	12C	4001		
	F01	12A	4041		
	I01	12A	4081		
	R01	12D	40C1	22	
Radiostations				www.broadcast.ch	
Network ID Service ID	According ID-concept of Swiss regulator OFCOM				
Audio	Encoding exclusive DAB+ / AAC+ datarates from 48 to 96 kbit/s				
Programm Type PTY	Yes				
Station Name	According to DAB+ ensemble configuration				
Song Title / Links	DLS, DLplus, per radiostation 1.2 kbit/s (configuration «short») over				
	PAD / X-PAD				
Artist / Composer	DLS, DLplus, per radiostation 1.2 kbit/s (configuration «short») over PAD / X-PAD				
Station Logos	Yes, use of SPI in a Packet Mode Data Service in NPAD as service information, no program information on SPI				
Traffic Information	TPEG, TEC and TFP without encryption				
Announcement (TA)	Yes (Announcement Typ 1 "Road Traffic Flash) (FIG 0/19) with Cluster (FIG 0/18)				
Other Ensemble	Yes				
Announcement (OE)	(FIG 0/25 und FIG 0/26)				
Service Information	Yes, frequency information (FIG 0/21)				
	 Yes, other 	er ensemble ((FIG 0/24)		
	F0/09 marking of country if original abroad				
Service Following	Service Linking Hardlinks (switch between two data sets) FIG 0/6				
Hardlinks	Yes				
Softlinks	No				
Service	Yes, FIG 0/7 changes of configurations				
Configuration	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					

June 2022 Page **2** of **5**



DAB+ Broadcast SwissMediaCast AG

	SwissMediaCast						
Broadcast	1 language regional ensemble in Swiss German part						
	4 regional ensembles in Swiss German part						
	1 language regional ensemble in Ticino						
	1 language regional ensemble in Swiss German part (planned)						
	Total 6 SFN networks and 1 planned SFN network						
	Ensemble Channel EID						
	SMC DCH 02	07D	4200				
	SMC DCH 03-N	07A	4201				
	SMC DCH 03-O	09B	4202				
	SMC DCH 03-	08B	4203				
	BEFR						
	SMC DCH 03-VS	11C	4204				
	SMC ICH 03	08C	4284				
Radiostations	Composition of enser	mbles accor	rdina: www	/.swissmediacast.ch			
Network ID							
Service ID	According ID-concept of Swiss regulator OFCOM						
Programm Type	Yes						
PTY							
Audio	Encoding DAB+ / AAC+ datarates of 48 - 96 kbit/s; actual datarates at 64 kbit/s and 32kbit/s						
Station Name	According to DAB+ ensemble configuration						
Song Title	DLS, DLplus planned, per radiostation between 1.2 kbit/s and						
	4kbit/s over PAD / X-PAD						
Artist / Composer	DLS, DLplus planned, per radiostation 1.2 kbit/s and 4kbit/s						
DAB+ Slideshow	(configuration «short») over PAD / X-PAD MOT Slideshow in X-PAD, trigger time = now						
DAD+ Slideshow							
	(visual display ads and images with station logos are provided by						
	DAB+ slideshow)						
Station Logos via	No. No use of SPI in NPAD due to lack of capacity units.						
SPI in NPAD							
Traffic Information	no						
Announcement (TA)	Yes (announcement type 1 "road traffic flash") (FIG 0/19)						
Other Francisco	clustered according (riG 0/18)					
Other Ensemble	Yes (planned)						
Announcement (OE)	(FIG 0/25 und FIG 0/26)						
Service Information	Yes, frequency information (FIG 0/21)						
	Yes, other ensem	•	,				
	F0/09 marking of country if original abroad						
Service Following	Service Linking Hardlinks (switch between two datasets) FIG 0/6						
Hardlinks	Yes						
Softlinks	No						
Service	Yes, FIG 0/7 changes of configuration						
Configuration	No, FIG 0/20 station list info for receiver						
Adaption of DAB+ standard EN300401 from 2006-06 V 1.4.1 to 2017 V 2.1.1 partially							

June 2022 Page **3** of **5**

Factsheet



DAB+ Broadcast Romandie Médias SA

	Romandie Médias SA			
Broadcast	1 Language regional ensemble in French-speaking part of			
	Switzerland			
Radiostations	Composition of ensembles according:			
	https://romandiemedias.ch/			
Network ID	According ID-concept of Swiss regulator OFCOM			
Service ID				
Programm Type PTY	Yes			
Audio	Encoding DAB+ / AAC+ with data rates of 64 - 72 kbit/s; currently all at 64 kbit/s			
Station Name	According to DAB+ ensemble configuration			
Song Title	DLS over PAD / X-PAD, per radiostation 8 kbit/s			
Artist / Composer	DLS over PAD / X-PAD, per radiostation 8 kbit/s			
DAB+ Slideshow	MOT Slideshow in X-PAD, trigger time = now			
	(visual display ads and images with station logos are provided by			
	DAB+ slideshow)			
Station Logos via	No. No use of SPI in NPAD due to lack of capacity units.			
SPI in NPAD	·			
Traffic Information	Not used			
Announcement (TA)	Yes, but not used			
Other Ensemble				
Announcement (OE)				
Service Information	FIG 0/9			
Service Following	FIG 0/6 (service linking)			
Hardlinks	Yes			
Softlinks	No			
Service	FIG 0/17			
Configuration	Programme Type (PTy)			
Adaption of DAB+ standard EN300401 from 2006-06 V 1.4.1 to 2017 V 2.1.1 partially				

June 2022 Page **4** of **5**



DAB+ Broadcast Digris

	digris					
Broadcast	DAB+ "island" single transmitter or small SFN areas.					
	Area	Channel				
	Genève	10D	4441 DIG F03 - GE			
	Lausanne	8C	4442 DIG F03 - LS			
	Bas Vallais					
	Ober Wallis	9D	4404 DIG D04 - HVS			
	Neuchatel - Yverdon	10A	4444 DIG F03 - NY			
	Bienne -Solothurn	10D	4408 DIG D04 - BISO			
	Bern	10A	4409 DIG D04 - BE			
	Bern Oberland	6C	4407 DIG D04 - BO			
	Olten - Aarau	5D	4402 DIG D04 - AG			
	Luzern – Zug - Stans	5D	4406 DIG D04 - ZS			
	Sargans Land	8B	440A DIG D04 - CS			
	Zurich	9D	4401 DIG D04 - ZH			
	St Gallen	9D	440B DIG D04 - SG			
	Winterthur – Shaffausen	5D	4403 DIG D04 - WS			
	Basel	10A	4405 DIG D04 - WS			
	Tessin Sopraceneri	10A	4281 DIG I02 - SOPRA			
	Tessin Sopraceneri	10C	••••••			
	Tessiii Sottocerieii	3 100	4282 DIG 102 - SOTTO			
Programme	https://www.digris.ch/verbreitung/programme/					
Network ID	According ID-concept of Swiss regulator OFCOM (extraction from					
Service ID	database possible)					
Programm Type	Yes					
PTY						
Audio	72kbit/s for stereo content, 48kbit/s for mono					
Station Name	According to DAB+ ensemble configuration					
Song Title	DLS, DLplus over PAD / X-PAD, dynamic allocation from 1.2 to					
oong mic	6kbit/s kbit/s					
Artist / Composer	DLS, DLplus over PAD / X-PAD, per radiostation from 1.2 to 6kbit/s					
7 ti tiot 7 Composor						
DAD L Clidochou	kbit/s					
DAB+ Slideshow	MOT Slideshow in X-PAD, trigger time = now					
PAD / X-PAD	Yes, dynamic allocation from 1.2 to 6kbit/s					
	- DLS, DLplus					
	- SLS (MOT) live and endless carousel					
01 11 1	- BWS, BIFS etc. no					
Station Logos	To be defined. No use of SPI in NPAD due to lack of capacity units					
NPAD	- Current 1-year test service provided for data receiver development					
T (C) 1 ()	but no commercial applica	ation.				
Traffic Information	No. hut not used					
Announcement (TA)	Yes, but not used					
Other Ensemble	Yes					
Announcement (OE)	FIG 0/04 FIG 0/04	10.0/0				
Service Information	FIG 0/21, FIG 0/24 and FIG 0/9					
Service Following	Yes					
Hardlinks	Yes					
Softlinks	No					
Service	Yes, for FIG 0/7					
Configuration	No, for FIG 0/20					
Adaption of DAB+ standard EN300401 from 2006-06 V 1.4.1 to 2017 V 2.1.1 partially						

June 2022 Page **5** of **5**