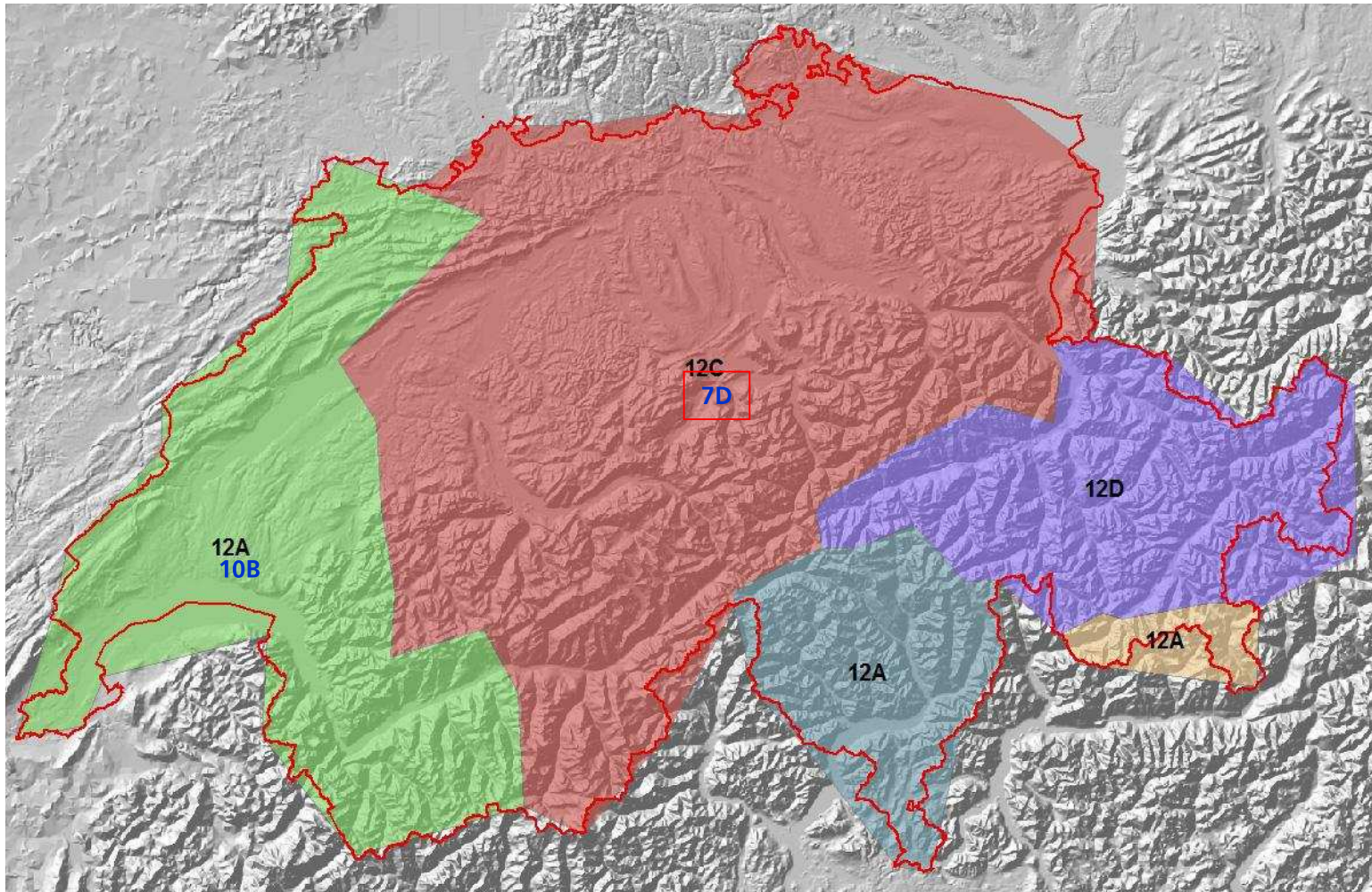




SRG SSR idée suisse

Digital Radio Services and Plans in Switzerland
Thomas Saner

Swiss DAB/DAB+ Topology



Timetable for the introduction of Digital Radio in Switzerland

- First Layer German Speaking Region and Bassin Lémanique, mob 2000
- First Layer Italian Speaking Region, indoor (12A) 2005
- Relaunch First Layer German Speaking Region, indoor (12C) 2006
- Relaunch First Layer French Speaking Region, indoor (12A) 2007
- First Layer Grisons, indoor (12D DAB+) 2008
- Second Layer German Speaking Region (7D DAB+) Q4 2009
- First Layer German Speaking Region (12C DAB/DAB+) Q4 2009
- First Layer French Speaking Region (12A DAB/DAB+) Q4 2009
- First Layer Italian Speaking Region (12A DAB/DAB+) Q4 2009
- Second Layer French Speaking Region (10B DAB+) 2010

Coverage

- First Layer SRG SSR idée suisse above 90% portable indoor
- First Layer SRG SSR idée suisse nearly 100% mobile
- Second Layer German Speaking Region planned for more than 60% portable indoor

Ensemble Grisons 2009

Program	Audio [kb/s]	Data [kb/s]	Services	Mode
Radio Rumantsch	56	0	DLS	DAB mono
DRS Musikwelle	56	0	DLS	DAB mono
DRS Virus	72	8	DLS, SLS	DAB+ stereo
DRS 1	72	8	DLS, SLS	DAB+ stereo
DRS 2	88	8	DLS, SLS	DAB+ stereo
DRS 3	72	8	DLS, SLS	DAB+ stereo
DRS 4 News	64	8	DLS, SLS	DAB+ stereo
DRS Musikwelle	72	8	DLS, SLS	DAB+ stereo
Swiss Classic	88	8	DLS, SLS	DAB+ stereo
Swiss Jazz	72	8	DLS, SLS	DAB+ stereo
Swiss Pop	72	8	DLS, SLS	DAB+ stereo
La Première	72	0	DLS	DAB+ stereo
Rete Uno	72	0	DLS	DAB+ stereo
Radio Rumantsch	72	16	DLS, SLS	DAB+ stereo
WRS	64	0	DLS	DAB+ stereo
EPG		0		
TPEG		0		

Migration DAB -> DAB+

Jahr	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
1. Layer										
DRS 1	DAB	DAB	DAB	DAB	DAB	DAB Mono	DAB Mono	DAB Mono		
DRS 1						DAB+	DAB+	DAB+	DAB+	DAB+
DRS 2	DAB	DAB	DAB	DAB	DAB					
DRS 2						DAB+	DAB+	DAB+	DAB+	DAB+
DRS 3	DAB	DAB	DAB	DAB	DAB					
DRS 3						DAB+	DAB+	DAB+	DAB+	DAB+
DRS Musikwelle	DAB	DAB	DAB	DAB	DAB	DAB Mono	DAB Mono	DAB Mono		
DRS Musikwelle						DAB+	DAB+	DAB+	DAB+	DAB+
DRS 4 News	DAB Mono	DAB Mono	DAB Mono	DAB Mono	DAB Mono	DAB Mono	DAB Mono	DAB Mono		
DRS 4 News						DAB+	DAB+	DAB+	DAB+	DAB+
DRS Virus	DAB	DAB	DAB	DAB	DAB					
DRS Virus						DAB+	DAB+	DAB+	DAB+	DAB+
Radio Rumantsch	DAB Mono	DAB Mono	DAB Mono	DAB Mono	DAB Mono					
Radio Rumantsch						DAB+	DAB+	DAB+	DAB+	DAB+
Swiss Classic	DAB	DAB	DAB	DAB	DAB					
Swiss Classic						DAB+	DAB+	DAB+	DAB+	DAB+
Swiss Jazz	DAB	DAB	DAB	DAB	DAB					
Swiss Jazz						DAB+	DAB+	DAB+	DAB+	DAB+
Swiss Pop	DAB	DAB	DAB	DAB	DAB					
Swiss Pop						DAB+	DAB+	DAB+	DAB+	DAB+
La Première	DAB Mono	DAB Mono	DAB+ Mono	DAB+ Mono	DAB+ Mono					
Rete Uno	DAB Mono	DAB Mono	DAB+ Mono	DAB+ Mono	DAB+ Mono					
WRS			DAB+ Mono	DAB+ Mono	DAB+ Mono	DAB+ Mono	DAB+ Mono	DAB+ Mono		

	DAB
	DAB Mono
	DAB+
	DAB+ Mono

SRG SSR 5.2.2009 (Änderungen vorbehalten)

1. Ensemble German Speaking Region 2009

Program	Audio [kb/s]	Data [kb/s]	Services	Mode
DRS1	120	8	DLS, SLS	DAB stereo
DRS2	152	8	DLS, SLS	DAB stereo
DRS3	120	8	DLS, SLS	DAB stereo
DRS Musikwelle	120	8	DLS, SLS	DAB stereo
DRS4News	56	0	DLS	DAB mono
DRS Virus	120	8	DLS, SLS	DAB stereo
Radio Rumantsch	56	0	DLS	DAB mono
Swiss Classic	120	8	DLS, SLS	DAB stereo
Swiss Jazz	104	8	DLS, SLS	DAB stereo
Swiss Pop	120	8	DLS, SLS	DAB stereo
La Première	56	0	DLS	DAB mono
Rete uno	56	0	DLS	DAB mono
EPG		0		
TPEG		0		

1. Ensemble German Speaking Region 2010

Programm	Audio [kb/s]	Daten [kb/s]	Services	Mode
DRS1	120	8	DLS, SLS	DAB stereo
DRS2	152	8	DLS, SLS	DAB stereo
DRS3	120	8	DLS, SLS	DAB stereo
DRS Musikwelle	120	8	DLS, SLS	DAB stereo
DRS4News	56	0	DLS	DAB mono
DRS Virus	120	8	DLS, SLS	DAB stereo
Radio Rumantsch	56	0	DLS	DAB mono
Swiss Classic	120	8	DLS, SLS	DAB stereo
Swiss Jazz	104	8	DLS, SLS	DAB stereo
Swiss Pop	120	8	DLS, SLS	DAB stereo
La Première	32	0	DLS	DAB+ mono
Rete uno	32	0	DLS	DAB+ mono
WRS	32	0	DLS	DAB+ mono
EPG		0		
TPEG		4		

Ensemble German Speaking Region 2013

Programm	Audio [kb/s]	Daten [kb/s]	Services	Mode
DRS1	56	0	DLS	DAB mono
DRS Musikwelle	56	0	DLS	DAB mono
DRS4News	56	0	DLS	DAB mono
Swiss Classic	88	0	DLS	DAB+ stereo
Swiss Jazz	72	0	DLS	DAB+ stereo
Swiss Pop	64	0	DLS	DAB+ stereo
DRS Virus	80	16	DLS, SLS	DAB+ stereo
DRS1	80	8	DLS, SLS	DAB+ stereo
DRS2	96	8	DLS, SLS	DAB+ stereo
DRS3	80	0	DLS	DAB+ stereo
DRS4News	64	16	DLS, SLS	DAB+ stereo
WRS	40	0	DLS	DAB+ mono
DRS Musikwelle	80	8	DLS, SLS	DAB+ stereo
Radio Rumantsch	64	0	DLS	DAB+ stereo
La Première	64	0	DLS	DAB+ stereo
Rete Uno	64	0	DLS	DAB+ stereo
EPG		8		
TPEG		4		

2. Layer German Speaking Switzerland

- Start Q4/2009
- Up to 18 Programs
- Some SRG SSR idée suisse programs with Visual Radio Elements.