R&S®DV-ASC
Advanced Stream Combiner

Specifications

The advanced stream combiner enables the user to easily generate MPEG-2 transport streams for DVB (including time slicing for DVB-H), ATSC and ISDB-T. The user selects the video, audio and data contents wanted. The software supplements all additional data required in order to generate an error-free and standard-compliant MPEG-2 transport stream. All data added by the software can be modified if needed. The Rohde & Schwarz website offers demo software for download that contains all functions of the original software. However, the transport stream file can only be generated by using the original software.

Supported TS characteristics

TS format		MPEG-2 transport stream (ISO/IEC 13818-1)
Standard specific characteristics		DVB
		DVB-H
		ATSC
		ISDB-T
Elementary stream types	video	SD and HD MPEG-2, MPEG-4 part 10/AVC/H.264 ISO/IEC 13818-2
	audio	MPEG-1 L2 (ISO/IEC 13818-3, ISO/IEC 11172-3)
		Dolby AC-3 (ATSC-A52)
		AAC, AAC+, HE-AACv2 (ISO/IEC 13818-7)
		ADTS
		LATM/LOAS
	data	IP content for DVB-H
		DVB subtitling
		DVB teletext
		data streaming
		user data sections (DSM-CC, MHP, SSU)
		PES packets
		transport packets
Tables and descriptors		all that are prescribed by the standard and optional ones, in total more than 28 tables and 128 descriptors
		user-specific definition of additional private tables and descriptors (hex entry or from file)
Maximum number of programs		10
Maximum number of elements per program		10
TS file format	Rohde & Schwarz proprietary file format for Rohde & Schwarz TS generators	Gts
	binary file format (TS-compatible)	Trp

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Supported functions

Definition of TS	DTV standard	selected by the user
	elementary steam files and data content	selected by the user (from Rohde & Schwarz libraries or provided by the user)
	SI, PSI and PSIP data	automatically added by the software in line with the standard
Modification of TS definition by adding, removing or modifying the following elements	program	number
		name
	elementary stream	delay
		PID
		PTS offset, PTS repetition
		stream_id
	table (automatic calculation of length and CRC)	repetition
		data fields (IDs, flags, text)
		loop elements
		descriptors
	descriptor	data fields (IDs, flags, text)
		loop elements
TS file generation	automatic and standard-compliant generation at the push of a button and based on the TS definition	generation of: TS file (Trp/Gts) log files SI info (SI, PSI and PSIP data) ES info timing info table data as file (copy)
Saving and loading of TS definitions		All TS definitions can be saved to be modified or extended later.
Help		built-in

System requirements

Operating system		Windows XP/Vista
Processor		Pentium, 500 MHz
RAM		≥ 512 Mbyte
Hard disk space		≥ 1 Gbyte
DVD drive		1
USB or parallel printer port	for dongle	1
Display size		min. 1024 × 768 pixel

Equipment supplied

Dongle (for USB or parallel printer port)
DVD with software, elementary streams/data and manual
Printed manual

Ordering information

Designation	Type	Order No.
Advanced Stream Combiner	R&S®DV-ASC	
Dongle for parallel printer port		2085.8804.02
Dongle for USB port		2085.8804.03