

Casis

FROM EPG TO ACCESS CRITERIA MANAGEMENT
FOR DIGITAL TV NETWORKS

Smooth delivery of services to television viewers depends on crucial 'behind the scenes' information. As operators offer more digital services to consumers, the demand for open and flexible management solutions for EPG, PSI/SI and access criteria scheduling increases. Whether for cable, terrestrial, satellite, IP networks or a combination (hybrid) delivery network, our flexible **SeaChange® Casis™** solution drives your content delivery according to your chosen business model.

To meet your exact needs, Casis is available in Lite, Standard and Enterprise editions. Capable of handling up to 250 active services, the cost-effective Lite Edition is ideal for small to medium-sized operators. Standard Edition gives you full PSI/SI and access criteria management, while Enterprise Edition also offers a range of customizable add-ins as well.

Please consult your SeaChange Sales Manager or designated partner to explore the feature sets of Casis Lite, Standard and Enterprise editions available for your application.

FEATURES

- Balance an up-to-date and rich EPG with minimal bandwidth usage
- Accurate EPG through external event triggering
- Support for most character encodings including UTF-8
- Tools to manage regionalized variants of Service Information, including Logical Channel Numbers
- Full control over Table Version Numbers to avoid unnecessary re-scans by the receiver
- Full control over service signaling by selectively excluding sub-tables or loops
- Table Preview showing the generated tables down to bit-level
- Conditional Access Product signaling for Subscription or Pay-Per-View business models
- Signaling, preparation and playout of System Software according to DVB-SSU Simple Profile
- Modular deployment to support centralized and decentralized architectures
- Industry standard user interface, allowing even the largest configurations to be manageable

Customized Flexibility

Its unique add-in architecture means it can be easily extended with customer-specific functionality without interfering with the core program. More than 40 add-ins are available as standard (others available upon request), including:

- Mux configuration exchange and profile scheduling
- Dynamic behavior of static tables and descriptors; scheduled, triggered or slaved to an external source
- Specific descriptor packages, e.g. for third-party CA systems or middleware
- Text compression and other bandwidth optimization functions
- Signaling and playout of Interactive TV applications
- And many more

The screenshot shows the SeaChange Casis software interface. On the left is a tree view of the network structure, including 'Netw (12345)', 'Network2 (23456)', and 'Output channels'. The main window displays 'TableView' for 'TS1 (12345, 1) 585.8 kbps'. It features a table with columns for 'Table id', 'Name', 'Nu', 'Ver', and 'Len'. The table lists various tables and sub-tables, with '0x50 EIT sch actual (0-3)' selected. To the right of the table is a 'Content' pane showing the XML structure of the selected table, including fields like 'table_id', 'section_syntax_indicator', 'reserved_future_use', 'section_length', 'service_id', 'reserved', 'version_number', 'current_next_indicator', 'last_section_number', 'section_number', 'transport_stream_id', 'original_network_id', 'segment_last_section_number', 'last_table_id', and an extended event descriptor block.

Table id	Name	Nu	Ver	Len
0x00	PAT	0	1	18
0x01	CAT	8	1	18
0x02	PMT	16	1	18
0x40	NIT actual	24	1	18
0x41	NIT other	32	1	18
0x42	SDT actual	40	1	18
0x46	SDT other	48	1	39...
0x4A	BAT	49	1	27...
0x4E	EIT pf actual	56	1	39...
0x50	EIT pf++ actual	57	1	27...
0x50	EIT sch actual (0-3)	58	1	14...
	ABC (12345/1/101)	64	1	34...
	DEF (12345/1/101)	65	1	37...
	DEF (12345/1/102)	72	1	35...
	GHI (12345/1/12)	73	1	37...
	KLM (12345/1/13)	80	1	27...
	NOP (12345/1/14)	81	1	39...
	QRS (12345/1/15)	82	1	12...
	TUV (12345/1/16)	88	1	29...
	XYZ (12345/1/17)	89	1	37...
	MBC (12345/1/0)	90	1	14...
0x51	EIT sch actual (4-7)	96	1	40...
		97	1	34...
		104	1	40...
		105	1	30...
		106	1	12...
		112	1	36...
		113	1	39...
		120	1	39...
		121	1	27...
		122	1	14...

Casis with Table Preview

TECHNICAL SPECS AND STANDARDS COMPLIANCE

- All mandatory tables and descriptors according to both DVB-SI (ETSI EN 300 468) and MPEG-PSI (ISO/IEC 13818) are supported, and most optional
- Full support for EIS<>SCS interface according to DVB SimulCrypt/SCTE OpenCAS
- Support for (P)SIG<>MUX interface according to DVB SimulCrypt (ETSI TS 103 197)
- Specific TV-Anytime tables according to DVB-GBS (ETSI TS 102 323)
- Specific PSI/SI descriptors according to both DVB-SSU (ETSI TS 102 006)
- TS Full/Optional SI according to DVB-IPI (ETSI TS 102 034)
- Specific AIT descriptors according to DVB-IPTV (ETSI TS 102 809) and DVB-MHP (ETSI TS 102 812)



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