

EPG SERVER **EPG VS**

ISDB-T INTERNATIONAL STANDARD

► **Adaptable to different
environments and needs**

► **Own and scalable
development**

USER INTERFACE

INSTANCE / NETWORK

AVAILABLE TRANSPORTS BASED ON NETWORK

AVAILABLE SERVICES BASED ON TRANSPORT

CURRENT EVENTS BASED ON SERVICE

SERVICIOS

Servicio ID	Canal Lógico	Nombre Transporte	Nombre Servicio	Proveedor	Tipo Servicio	Scrambling	One Seg	Tipo Transmisión	EIT P/F	EIT Schedule
59200	10.01	1850	Servicio 1		[Dx01] Digital Television...			Type 'a' (Fixed Serv...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
59201	10.02	1850	Servicio 2		[Dx01] Digital Television...			Type 'a' (Fixed Serv...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
59202	10.03	1850	Servicio 3		[Dx01] Digital Television...			Type 'a' (Fixed Serv...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
59203	10.04	1850	Servicio 4		[Dx01] Digital Television...			Type 'a' (Fixed Serv...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
59224	10.31	1850	Servicio OS 1		[Dx00] Data Service		<input checked="" type="checkbox"/>	Type 'c' (Portable Ser...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

EVENTOS

Fecha Comienzo	Hora Comienzo	Duración	Nombre Evento	Descripción	Scrambling	Tipo Componente	Tipo Contenido	Parental Rating
9/10/2015	12:00:00 AM	02:05:00	Pueblo chico, pistola...	Después de que Albert se e...	<input checked="" type="checkbox"/>	Sin definir	[Dx0F] Other	Sin definir
9/10/2015	2:05:00 AM	01:45:00	Pesadilla en la calle d...	Un fantasma macabro entra...	<input checked="" type="checkbox"/>	Sin definir	[Dx0F] Other	Sin definir
9/10/2015	3:50:00 AM	00:40:00	El hipnotizador: los se...	Descubre los secretos detrás...	<input checked="" type="checkbox"/>	Sin definir	[Dx0F] Other	Sin definir
9/10/2015	4:30:00 AM	02:00:00	La sombra	En la ciudad de Nueva Yor...	<input checked="" type="checkbox"/>	Sin definir	[Dx10] Sports	Sin definir
9/10/2015	6:30:00 AM	01:45:00	Zafura: una aventur...	Cuando su padre se va a tr...	<input checked="" type="checkbox"/>	Sin definir	[Dx0F] Other	Sin definir
9/10/2015	8:15:00 AM	02:25:00	El pescador de ilusión...	El comentario de un locutor...	<input checked="" type="checkbox"/>	Sin definir	[Dx10] Sports	Sin definir
9/10/2015	10:40:00 AM	02:05:00	Palabras y colores	Comedia dramática que ver...	<input checked="" type="checkbox"/>	Sin definir	[Dx0F] Other	Sin definir
9/10/2015	12:45:00 PM	02:20:00	Jersey Boys: Persegui...	Cuenta la historia de cuatro...	<input checked="" type="checkbox"/>	Sin definir	[Dx10] Sports	Sin definir
9/10/2015	3:05:00 PM	00:35:00	El hipnotizador: los se...	Descubre los secretos detrás...	<input checked="" type="checkbox"/>	Sin definir	[Dx0F] Other	Sin definir
9/10/2015	3:40:00 PM	01:42:00	La colonia	En un futuro alrededor del a...	<input checked="" type="checkbox"/>	Sin definir	[Dx0F] Other	Sin definir
9/10/2015	5:22:00 PM	01:50:00	La próxima generación	Un joven de 14 años está o...	<input checked="" type="checkbox"/>	Sin definir	[Dx0F] Other	Sin definir
9/10/2015	7:12:00 PM	01:48:00	La leyenda de Hércules	Hércules es exiliado y vendi...	<input checked="" type="checkbox"/>	Sin definir	[Dx0F] Other	Sin definir
9/10/2015	9:00:00 PM	01:00:00	El hipnotizador / T.T.E...	Narra la historia de Arenas...	<input checked="" type="checkbox"/>	Sin definir	[Dx0F] Other	Sin definir
9/10/2015	10:00:00 PM	02:00:00	Caminando entre las t...	Matt Scudde es un ex policí...	<input checked="" type="checkbox"/>	Sin definir	[Dx0F] Other	Sin definir

TELEVISION CHANNEL

DATA ENTRY

EPG SERVER

ELECTRONIC PROGRAM GUIDE

TV VIEWER

MAIN FEATURES

- EPG and SI (Service Information) Tables generation for ISDB-T International
- Transmission and control of Ginga applications via Web Scheduler
- System to update the software of receivers via OAD (On-Air Download)
- Closed Caption for the hearing impaired
- ASI and IP outputs: TCP, UDP, Unicast and Multicast
- Configurable output bit rate
- Automatic reading of scheduled program data with configurable times
- Critical error message via email
- Manual loading of the programming guide
- Configurable number of days
- User-friendly and simple user interface

- Tables and Descriptors Generator based on Service Information in ISDB-T International standards.
- It creates and generates static and dynamic tables in compliance with specifications ARIB STD-B10, TR-B14 and ABNT NBR 15603, NBR 15608.
- It generates a TS on an ASI or IP output interface, through pre-configurable PIDs mapping for each table and transport.
- It generates the NIT (Network Information Table), BIT (Broadcaster Information Table), SDT (Service Description Table), EIT (Event Information Table), TDT (Time & Date Table), TOT (Time Offset Table), AIT (Application Information Table), and SDTT (Software Download Trigger Table), with their respective descriptors.
- Generation of H-EIT (Fixed Receiver), M-EIT (Mobile Receiver), and L-EIT (Portable Receiver), P/F (Present / Following) tables, as well as S (Schedule), both for actual transport (Actual), and for other transports (Other).
- Possibility of configuring which tables to generate, as well as controlling the repetition rate of each one independently, thus accomplishing a better bandwidth use.
- Flexible configuration of the range of days in which the EPG is generated, starting at 1 to 7 days and, optionally, up to a maximum of 32 days.
- Possibility of configuring the maximum number of characters to be included in the text fields of EIT tables in a dynamic way, thus enabling the adjustment of the generated data volume, and also for adapting it to the memory requirements of receiving devices.
- Import EPG of scheduled program data as XML files and other formats (optional) through multiple access devices (e.g.: LAN, FTP, DVD, USB, etc.).
- Configuration of programming import filters, which can detect overlappings and discontinuities of the events imported for each service.
- Scheduling via Web, Generation and Transmit control of Ginga Applications and Software updates over the air (OAD - On-Air Download), through DSM-CC carousels according to specifications ABNT NBR 15606, NBR 15608, ARIB STD-B21, STD-B23, TR-B14, ISO/IEC 13818-6.
- Closed Caption generation for the hearing impaired from the local keyboard (USB), Closed Caption Client Remote (IP), or a Closed Caption Decoder (RS-232/IP) for the case of signals existing CC video embedded, according to specifications ABNT NBR 15606, NBR 15608, ARIB STD-B24, TR-B14.
- Client/Server Architecture, with a centralized Database, and optionally, one or multiple remote editing terminals.
- 1:1 Redundant server option with automatic switching and error messages via email.
- User management and user action log.
- Dynamic and intuitive graphic interface.
- Scalable and configurable.
- Support virtualized environments.
- This system is part of the product offer of VideoSwitch transmission in the ISDB-T International standard, such as the Encoder 'ECD-3000' and the 'DMUX-3000/500' multiplexers.

EPG SERVER	
ISDB-T INTERNATIONAL	
CHARACTERISTICS	Compatible with ISDB-T International EPG, SI, Ginga, Software Update and Closed Caption Standards (ARIB, ABNT, ISO/IEC) Generate EIT-Present/Following and EIT-Schedule Tables Additionally can generate NIT, BIT, SDT, TDT, TOT, AIT, SDTT Tables, and DSM-CC carousels for Ginga and Software Updates (OAD) applications
INPUTS	XML files coming from the network (LAN, FTP) or from external devices (DVD, USB)
OUTPUTS	Interface: DVB-ASI (dual) / IP (UDP/TCP) Connectors: BNC, 75 Ohms / RJ45 Bit Rate Max.: 100 Mbps (UDP) / 20 Mbps (TCP)
PLATFORM PROPOSED SERVER	Dell Power Edge Server® (1U rack) or similar IP-ASI Converter for bitrate management, status monitoring and automatic redundancy

EPG
SERVER



© Dell is a registered trademark of Dell Inc

