

Aug-11



EN 300-707 Electronic Programme Guide (EPG); NexTView ™

"Protocol for a TV Guide using electronic data Transmission"

Work started in 1993-4 First and until well into C21 the only open standard EPG.

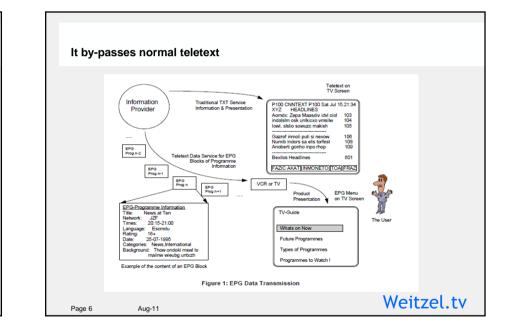
Had to explain what an EPG was and how it could be used-- It reads a bit quaintly these days -

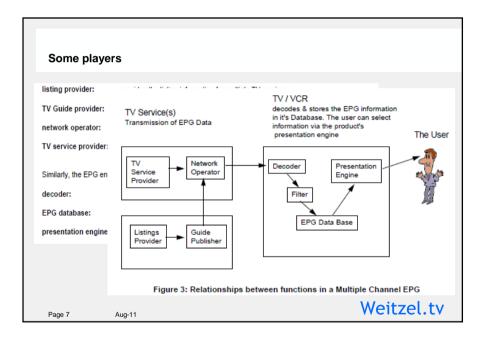
And its target platform was a TV set with 8 bit "PIC type" processor (but the Thomson bottom end TV only had 4 bits – hence a simple EPG) And a normal teletext display – (but Siemens had the Megatext chip set)

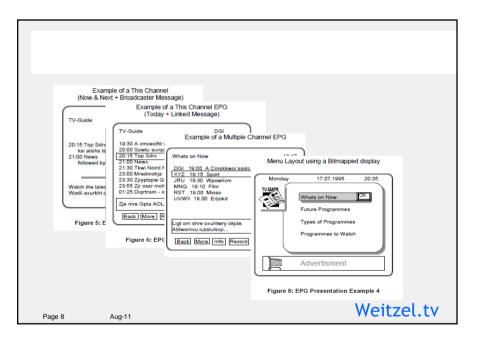
And it was inherently multi channel - and thus NOT Broadcaster friendly

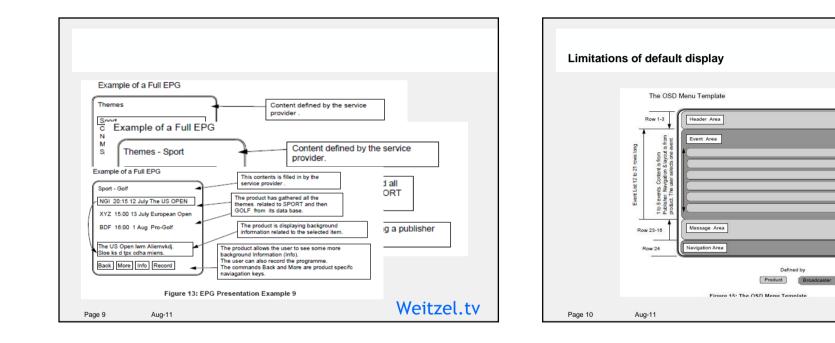
Written by teletext group of EBU- ETSI JTC co chaired by Jan van Lier Phillips and Peter Weitzel BBC

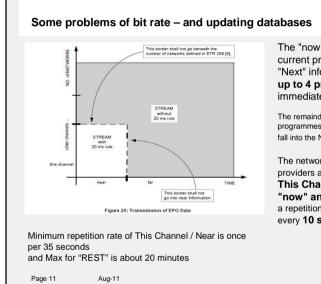
Page 5 Aug-11











The "now" information is the current programme or blank. "Next" information comprises up to 4 programmes

immediately after the "now" one.

The remainder includes the other programmes classified as Near that do not fall into the Now and Next categories.

The network operators or service providers are obliged to transmit the This Channel "now" and "next" information with a repetition rate of at least once per every 10 seconds.

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PDC - EN 300 231 Merging German VPS and UK led "PDC"

Tell the VCR to look out for a transmitted a label = unique ID

And the easiest is the "channel /date/ original billed time"

Preselection Manually - channel date time (but this may not be actual transmitted time) Via Teletext page PDC normal listings page plus additional info off screen "packet X/28" Makes "Ceefax "an Comms Act 2003 EPG? VPS special page By NexTView™ By Video+ Show view -GEMSTAR efficient coding By bar code Toshiba

Aug-11

Page 12

Record control

At the appropriate time send out the labels 4 label Channels - max 4 label/sec (packet 8/30 format2)

This requires some clairvoyance and an intimate link with play out automation even on non reactive channels - which in the 1990s was NOT there and was not in 2000 either (so we made our own) Or but is coming perhaps in 2010 +++

PDC implementation

Need to ask some fundamental questions

What does the broadcaster want to deliver to the time shifted viewer?

What is a programme? How are you going to use genres?

Where in the workflow do you set the PDC code ? How do you get the PDC code to the viewer?

What triggers the PDC code?

Page 13 Aug-11

BBC Starting rule 40 sec before start send "Record Pause" At start of last junc item go RECORD. (Gets network branding and Health warning)

BBC Stopping rule

At end of first junction item send STOP for 10 Seconds (min) or until a starting rule starts (Gets "If you are affected" or Book etc Promo)

BBC "One programme on air at one time" rule (well almost!)

BBC "interrupted Programme system" - can bridge news on Saturday nights

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Other points

Gemstar

Holds lots of patents on EPG and thus licensed interactive program guide technology to multichannel operators, such as cable and satellite television providers, and consumer electronics manufacturers

– and owns Video Plus[™] – Show view[™]
for Video Recording preselecting

was bought by Macrovison (jul2009) who are now called Rovi

TV anytime

International Forum for specifying interoperable standards to enable local persistent storage . Founded 1999 and fizzled out in 2005 main contribution is meta data specification and Schema – including the CRID.

Other Standards

Specification du Systeme D2-MAC/Paquet included Network Name Prog name, genre. Short info etc And dates from1985

Page 14 Aug-11

Sum up to current EPG		The key points	
There are many fundamental issues which you need to consider Many of these were explored about 25 to 15 Years ago – Before digital TV. These are still as valid if not more so The answers may be a bit different now What is the Business case for having an EPG What features makes it more (or less) attractive.	What does the EPG contain? •Basic (meta) data • Machine readable – AD S genre • Editorial – "blurbs" •Cast lists • Recommendations •Age restrictions •CA/DRM ?? Links to recording	Live TV Viewing broadcasting live is to access an ethereal & ephemeral medium What and how do you access the information Who are the players in value chain How up to date? •Update rate – reactive channels •Non reactive channels •Now And next near and far information •This channel or "others" •Remote database management	And if you can record it ?? What do you want to have as the "Programme" on the recorder? Pre-selection Record control Bear in Mind - Regulation! Due prominence - ND and F&R terms EPG gateway to Digital TV viewi Are you on the first few pages ?? But how much of what was thought in 1 implemented ? .Peter@weitzel.com
Page 15 Aug-11	Weitzel.tv	Page 16 Aug-11	Weitzel