NAGRAVISION
KUDELSKI GROUP

System Engineering

Descriptor Creation

EMC

07/07/2005

Document Change History

Date	Version	Author	Modification
10-06-2005	Draft	Chooi Mee LEE	First Document
10-06-2005	1.0	Chooi Mee LEE Yanick IMHOF	Reviewed
07-07-2005	1.1	Sarah CHANG	Update document. Promo private descriptor is created in channel element instead of service level element. This will include the descriptor in the s2xml_wrapper output file as well.

Table of Contents

1 Introduction

1.1 Scope of the Document

The purpose of the Descriptor Creation document is to specifically define the method of creating the private descriptor in the Toplogy Definition GUI (TopD)

1.2 Related Documents

#	Title	Revision	Date
[1]	20050602-EMC Ch gp-pr-hd-km solution	1.2	
[2]			

2 Creation of Private Descriptor

Step 1:

Login to the Topology Definition GUI (TopD)

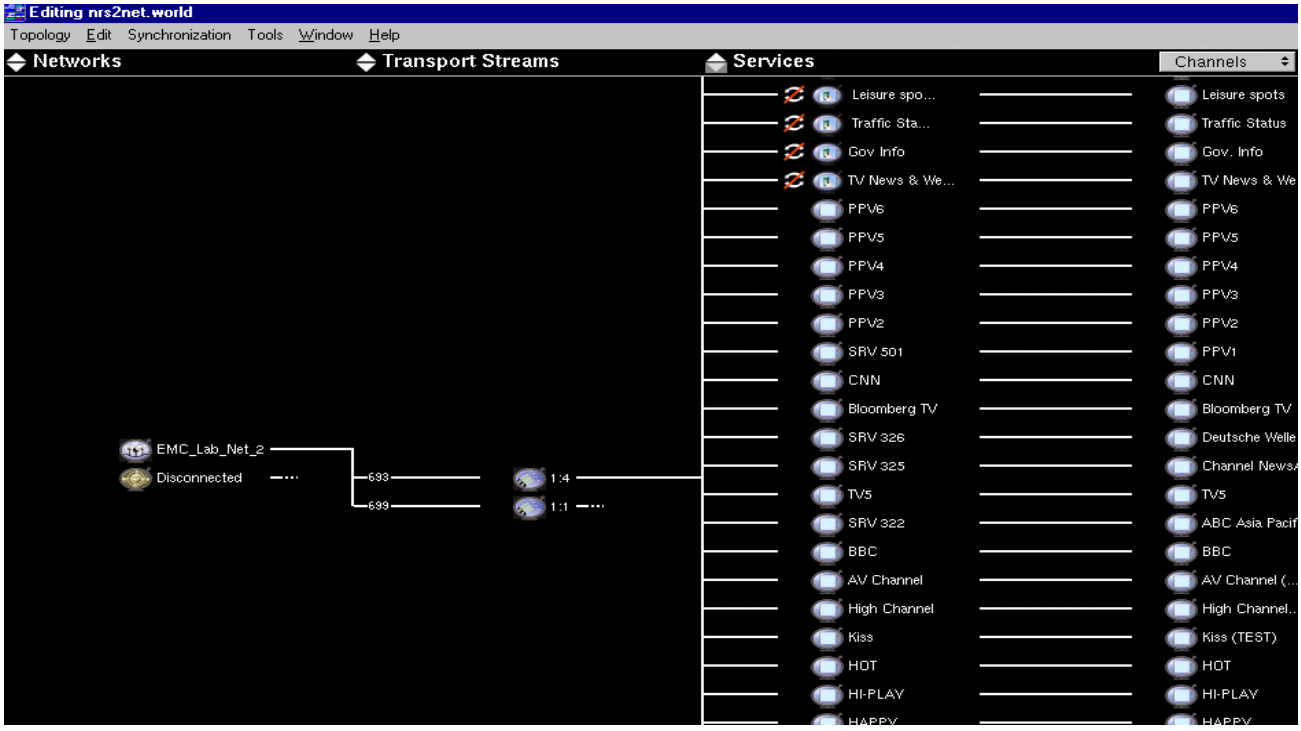

Figure 1: TopD overview

Step 2:

Select the channel you would like to add the private Descriptor, for example Channel Bloomberg TV. Right click on the channel and a menu will appear. Then select “Private Descriptors”

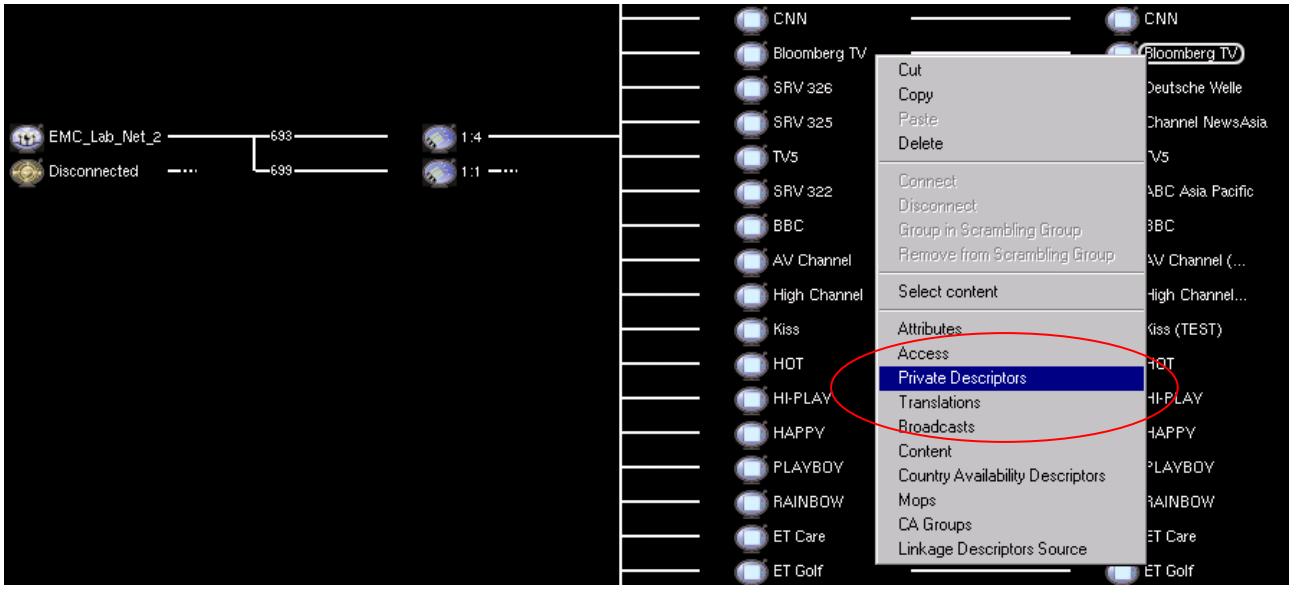

Figure 2: Private descriptor for Channel selection

Step 3:

After selecting the option “Private Descriptors”, a channel Inspector for Bloomberg TV will appear. Click on the “New” button to allow adding new private descriptor.

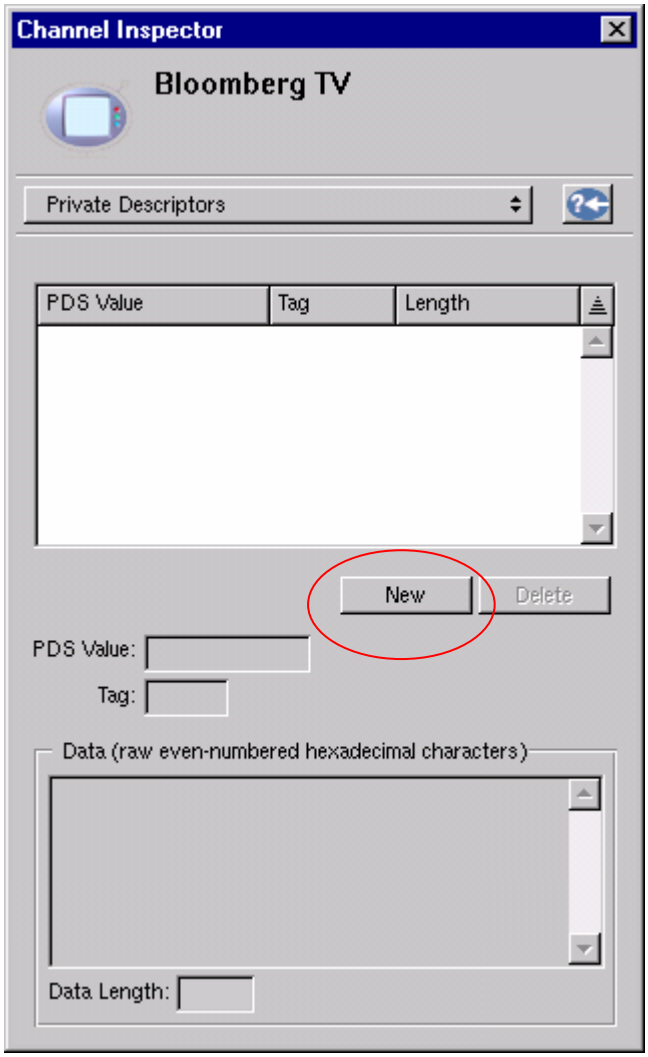

Figure 3: Private Descriptor editor

Step 4:

Enter the PDS Value, Tag, and Data. You May click on "Delete" button to cancel the descriptor you have just added.

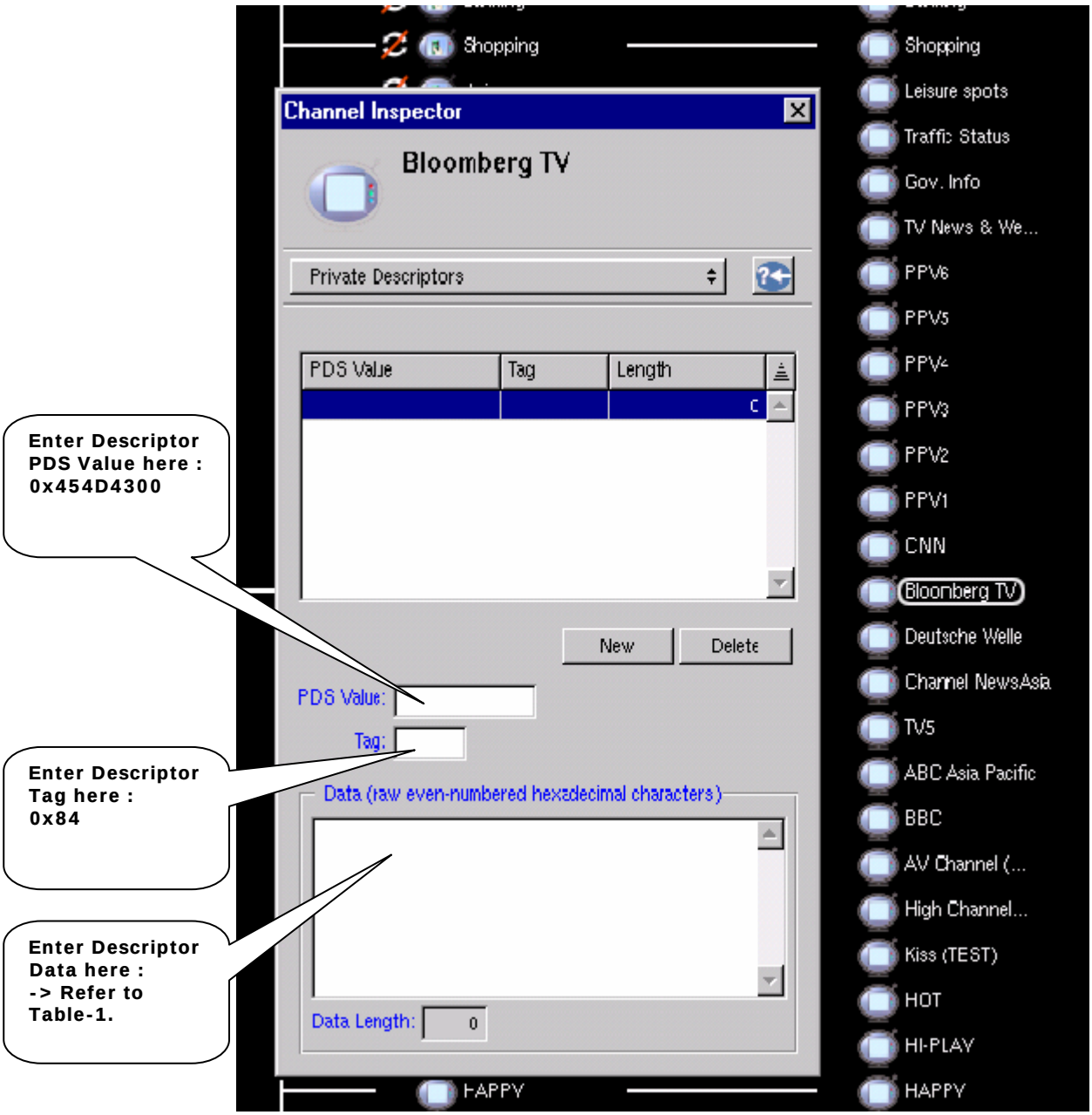

Figure 4: Private descriptor editor

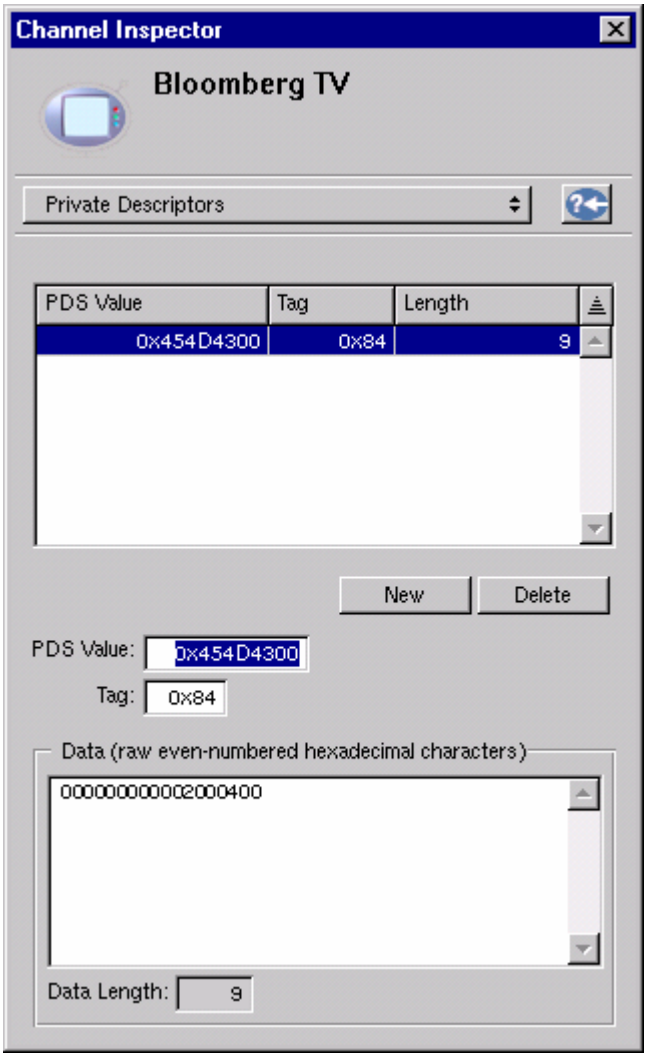

Figure 5: New descriptor (EMC)

3 Examples of Private Descriptor

The description of this descriptor is defined as below:

private_data_specifier_descriptor(): 0x454D4300 ("EMC"\0)
Location: Each channel
Function: Category, promotion, Function Key Mapping flag of each service

Syntax	No. of bits	Identifier	Content/Description
EMC_cpghk_descriptor ( ) {			
descriptor_tag	8	uimsbf	0x84
descriptor_length	8	uimsbf	Always 9
promo_level1	16	uimsbf	Promotion Flag Level1
promo_level2	16	uimsbf	Promotion Flag Level2
category_level1	16	uimsbf	Category Flag Level1
category_level2	16	uimsbf	Category Flag Level2
keymap_flag	8	uimsbf	Key mapping flag
}			

Table below define all the possibilities of descriptor:

Promo_level1		Promo_level2		Category_level1		Catetory_level2		Keymap_flag	
16bit		16bit		16bit		16bit		8bit	
0x0000	Not promo	0x0000	Not promo	0x0000	Not categorized will be hidden	0x0000	Not categorized	0x00	Not map to function key
0x0001	Basic	0x0001	Kids	0x0001	Basic	0x0001	Kids	0x01	Map to F1 key
0x0002	Premium	0x0002	Education	0x0002	Premium	0x0002	Education	0x02	Map to F2 key
0x0004	IPPV	0x0004	News	0x0004	IPPV	0x0004	News	0x04	Map to F3 key
0x0008	Shopping	0x0008	Movie	0x0008	Shopping	0x0008	Movie	0x08	Map to F4 key
0x0010	Information	0x0010	Variety	0x0010	Information	0x0010	Variety	0x10	Map to F5 key
0x0020	(reserved)	0x0020	Music	0x0020	(reserved)	0x0020	Music	0x20	Map to F6 key
0x0040	(reserved)	0x0040	Adult	0x0040	(reserved)	0x0040	Adult	0x40	Map to F7 key
0x0080	(reserved)	0x0080	(reserved)	0x0080	(reserved)	0x0080	(reserved)	0x80	Map to F8 key
0x0100	(reserved)	0x0100	(reserved)	0x0100	(reserved)	0x0100	(reserved)		
0x0200	(reserved)	0x0200	(reserved)	0x0200	(reserved)	0x0200	(reserved)		
0x0400	(reserved)	0x0400	(reserved)	0x0400	(reserved)	0x0400	(reserved)		
0x0800	(reserved)	0x0800	(reserved)	0x0800	(reserved)	0x0800	(reserved)		
0x1000	(reserved)	0x1000	(reserved)	0x1000	(reserved)	0x1000	(reserved)		
0x2000	(reserved)	0x2000	(reserved)	0x2000	(reserved)	0x2000	(reserved)		
0x4000	(reserved)	0x4000	(reserved)	0x4000	(reserved)	0x4000	(reserved)		
0x8000	(reserved)	0x8000	(reserved)	0x8000	(reserved)	0x8000	(reserved)		
0xffff	Global promo								

Table 1: Descriptor data samples

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