Axis MPEG-4 GOV header – User data

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DOCUMENT HISTORY

2005-May-25 1.00	Initial version.

1. OVERVIEW

This document specifies the format of the user data in the MPEG-4 GOV header from MPEG-4 streams generated from Axis video products.

The user data can contain for example product information, time stamp and trigger data.

2. MPEG-4

2.1 User data

The user data in firmware versions higher than 4.20 is optional and can be enabled/disabled by setting the parameter Image.I#.MPEG.UserDataEnabled to yes or no. In version 4.20 the user data is always present.

Axis ID	Description
0x0A,0x00	Product information user data
0x0A,0x01	Time stamp user data
0x0A,0x03	Trigger data

2.1.1 Product Information

The product information user data field contains information such as Hardware ID, firmware version and serial number.

Value	Size (bits)	Description
0x00,0x00,0x01,0xB2	32	User data start code
0x0A	8	Axis ID (10)
0x00	8	Product Information ID (0)
0x##,0x##	16	Hardware ID (0...65535)
0x##,0x##	16	Firmware Version (0x##.0x##)
0x##	8	Firmware Bulid Nbr (0...255)
0x00,0x40,0x8c,0x##,0x##,0x##	48	SerialNbr(00:40:8c:##:##:##)

2.1.2 Time Stamp

The time stamp user data field contains information about the user as well as the unit time.

Value	Size (bits)	Description
0x00,0x00,0x01,0xB2	32	User data start code
0x0A	8	Axis ID (10)
0x01	8	Time Stamp ID (1)
0x##,0x##	16	User Time (high word) - seconds since EPOC
'1'	1	Marker Bit (1)
0x##,0x##	16	User Time (low word)
'1'	1	Marker Bit (1)
0x##	8	User Time – 1/100 seconds (0…99)
'1'	1	Marker Bit (1)
0x##,0x##	16	Unit Time (high word) - seconds since the unit was produced
'1'	1	Marker Bit
0x##,0x##	16	Unit Time (low word)
'1'	1	Marker Bit
0x##	8	Unit Time - 1/100 seconds (0…99)
'1'	1	Marker Bit
0x##	8	Unit Time - invalid (1), valid (0)
'01'	2	Stuffing for byte alignment (next_start_code())

2.1.3 Trigger Data (optional)

The trigger data field is an optional field included in some products. See Trigger Data document for more information.

Value	Size (bytes)	Description
0x00,0x00,0x01,0xB2	4	User data start code
0x0A	1	Axis ID (10)
0x03	1	Trigger Data ID (0x03)
1…256	Length of trigger data	The trigger data