#### VGHD Data FOLDER - MODELS.LST Another mystery solved by WyldAnimal

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models.lst structure New Version  $00\ 00\ 01\ 14 = 276 -$ Some New Stuff This Version start of file

4 bytes of code ? (possibly a version number ?)  $00\ 00\ 01\ 14 = 276$ 

4 bytes of code - hex - total number of cards in all collections, purchased or not, in the Models folder.

Now using Big-Endian

(Hex numbers are High byte Low byte ordered, read H1 H2 L1 L2)

#### **CARDLOOP:**

loop for number of cards

Start of cards

4 bytes of code - hex - length of card name a0001 = 5

next bytes - this will be the card name, use the hex above to determine how many bytes to read.

4 bytes of code - hex - length of Model name(s)

next bytes - this is the model(s) name - number of bytes from hex above

4 bytes of code - hex - length of Outfit name

next bytes - this is the outfit name

next 4 bytes of code - this is the date the card was added to your collection -  $00\ 25\ 79\ 25 = 10\ 2011\ 11$ 

Only the First two bytes are used. Total number of days past 11/13/1926

- birth of Max Vernon Mathews - Father of Computer / Digital Music

7925 hex = 31,013 days added to 11/13/1926 = 10/11/2011 - Subtract one Day so it is <math>10/10/2011

4 bytes of code - card status - See \*\*\* Status codes only last two bytes used

4 bytes of code - hex - Sum Total in bytes of total size of all clips for this card \*\*\* See Duration

New for 276

4 bytes of code 00 25 79 25 – Date card was last played

4 bytes of code ff ff ff ff - Time Card was Last played - Milliseconds Past midnight

1 Byte ff - don't know what it is for - Always ff

4 bytes of Code 00 00 00 00 - Number of times card has been played - Doesn't always get updated??

4 bytes of Code 00 00 00 00 - Current Card resolution Downloaded

4 bytes of Code 00 00 00 00 - What Resolution are Available - Bit Set

4 bytes of Code 00 00 00 00 – Set when a new resolution is Available

**End of New for 276** 

4 bytes of code - hex - number of clips you have rights for in this card set including demo clips

#### **CLIPLOOP:**

using clip (a0001\_64412.vghd) for all the examples.

loop for number of clips in card

Start of Clips

4 bytes of code - hex - length of clip file name

next bytes - this is the clip filename - number of bytes from above (a0001\_64412.vghd)

- 4 bytes of code hex last two digits of the clip filename then CLIP NUMBER (0c hex or 12 dec)
- 4 bytes of code hex the clip level of explicitness from 00 to 05 (04 hex)
- 4 bytes of code hex bit sum for type of clip. add 80hex or 128dec for non-demo clip

(type 64 = c0 hex or 192 dec)

2nd byte is a 01 for new clip style (progressive hotness) - New

- 4 bytes of code hex Actual size of clip file in bytes
- 4 bytes of code hex 1st byte is clip series for the progression of erotic levels New (c0148\_sc4\_33503.vghd) the first byte would be 04 from the sc4
- 4 bytes 00 00 00 01 is clip active in clip list 00 00 00 01 Active 00 00 00 00 Not Active

4 bytes 00 00 00 00 - card weight - last days - number of times played - ???

Repeat CLIPLOOP: for all clips in this card

Repeat CARDLOOP: for all cards in all collections, or until end of file is found.

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How to read the Models.lst file for version 00\ 00\ 01\ 14 = 276
all hex numbers are in 4 byte order Big Endian
(hex numbers are High byte Low byte ordered, read H1 H2 L1 L2)
(H1 * 2^24) + (H2 * 2^16) + (L1 * 2^8) + (L2 * 2^1)
(H1 * 16,777,216) + (H2 * 65,536) + (L1 * 256) + L2
Largest number is - ff ff ff ff = 4,294,967,295
Open the models.lst file in binary read only
read in 4 bytes of code = version 00\ 00\ 01\ 14 = 276
read in 4 bytes of code = convert to number = Total Number of CARDS
       *Card loop - Repeat this loop for total number of cards
       Read 4 Bytes and convert to a number = Length of card name (L)
       Read in (L) Bytes = Card name in ASCII
       Read in 4 Bytes and convert to a number = Length of Model name (L)
       Read in (L) Bytes = Model name in ASCII
       Read in 4 Bytes and convert to a Number = Length of Outfit (L)
       Read in (L) Bytes = Outfit in ASCII
       Read in 4 Bytes = DATE in HEX - when card was added to the collection
       See Date Codes below for how to read it.
       Read in 4 Bytes of Code = Card Status - See Status code description
       Read in 4 Bytes and convert to a Number = Total Size of all clips for this card in Bytes.
       Read in 4 Bytes of Code – Date last played
       Read in 4 Bytes of Code – Time Last played
       Read in 1 Byte - ff
       Read in 4 Bytes of Code – Number of times played
       Read in 4 Bytes of Code - Current Resolution
       Read in 4 Bytes of Code - Resolution Bits
       Read in 4 Bytes of Code - New Resolution
       Read in 4 Bytes and convert to a Number = How man Clips there are for this card
                                             Including Demo clips.
               **Clip loop - Repeat for total number of clips in this card
               Read 4 Bytes and convert to a Number = Length of Clip Name (L)
              Read (L) Bytes of Code = Clip Name
               Read 4 Bytes = 1st byte = Clip Number (last 2 digits of clip name)
               Read 4 Bytes = 1st byte = Erotic Level of Clip
              Read 4 Bytes = 1st byte = Type of Clip (128 is added to Purchased clips)
                                      2nd byte = 01 for new series with progression
              Read 4 Bytes and convert to a number = Size of clip in Bytes
              Read 4 Bytes = 1st byte = Progression Series number
              Read 4 Bytes = 00 00 00 01 - 1st byte = card Active or Not 01=active 00=not
              Read 4 Bytes of Code - not yet sure what it is for? weight of clip? - how often it has been played?
              End of Clip Loop
       End of Card Loop
End of Models.lst file
Close the File.
******** END NEW VERSION 1.1.0.62 Version 276 **********************************
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****** BITS Version 1.1.0.62 and up	**********
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\*\*\* Card Status codes described.

first two bytes of the 4 are used

BOLD Values are KNOWN TO BE USED. Some Bits are not yet knows or reserved use.

## d1d2 c1c2 b1b2 a1a2

Shows Section					
Value		b1	b2		
a1 = 0 not Active, full shows not downloaded			bbbb		
a1 = 1 not Active, full shows downloaded			bbbb		
a1 = 2 being downloaded- blacked out			bbbb		
a1 = 4 ?			bbbb		
a1 = 8 Active, full shows not downloaded			bbbb		
a1 = 9 Active, full shows downloaded	bits	bbbb	bbbb	1001	aaaa
Demos / Deleted Section					
Value		b1	b2	a1	a2
a2 = 0 demos not downloaded	bits	bbbb	bbbb	aaaa	0000
a2 = 1 free demos	bits	bbbb	bbbb	aaaa	0001
a2 = 2 Deleted	bits	bbbb	bbbb	aaaa	0010
a2 = 4 ?	bits	bbbb	bbbb	aaaa	0100
a2 = 8 demos downloaded	bits	bbbb	bbbb	aaaa	1000
<pre>a2 = 3 Free demos not downloaded and Delete?</pre>	bits	bbbb	bbbb	aaaa	0011
de de la					
Rights Section			h2	a 1	a ?
Rights Section Value	hits	b1			
Rights Section Value b1 = 0 not purchased		b1 <b>0000</b>	bbbb	aaaa	aaaa
<pre>Rights Section     Value b1 = 0 not purchased b1 = 1 ???</pre>	bits	b1 <b>0000</b> 0001	<b>bbbb</b> bbbb	<b>aaaa</b> aaaa	aaaa aaaa
<pre>Rights Section    Value b1 = 0 not purchased b1 = 1 ??? b1 = 2 ???</pre>	bits bits	b1 <b>0000</b> 0001 0010	<b>bbbb</b> bbbb bbbb	aaaa aaaa aaaa	<b>aaaa</b> aaaa aaaa
<pre>Rights Section     Value b1 = 0 not purchased b1 = 1 ??? b1 = 2 ??? b1 = 4 purchased</pre>	bits bits <b>bits</b>	b1 <b>0000</b> 0001 0010 <b>0100</b>	<b>bbbb</b> bbbb	<b>aaaa</b> aaaa <b>aaaa</b>	<b>aaaa</b> aaaa <b>aaaa</b>
<pre>Rights Section    Value b1 = 0 not purchased b1 = 1 ??? b1 = 2 ???</pre>	bits bits bits bits	b1 0000 0001 0010 0100 1000	bbbb bbbb bbbb	<b>aaaa</b> aaaa <b>aaaa aaaa</b>	<b>aaaa</b> aaaa <b>aaaa aaaa</b>
Rights Section Value  b1 = 0 not purchased  b1 = 1 ???  b1 = 2 ???  b1 = 4 purchased  b1 = 8 Update Available  b1 = 12 purchased & Update	bits bits bits bits	b1 0000 0001 0010 0100 1000	bbbb bbbb bbbb	<b>aaaa</b> aaaa <b>aaaa aaaa</b>	<b>aaaa</b> aaaa <b>aaaa aaaa</b>
Rights Section Value  b1 = 0 not purchased  b1 = 1 ???  b1 = 2 ???  b1 = 4 purchased  b1 = 8 Update Available  b1 = 12 purchased & Update  Favorites Section	bits bits bits bits	b1 0000 0001 0010 0100 1000	bbbb bbbb bbbb bbbb	<b>aaaa</b> aaaa <b>aaaa aaaa aaaa</b>	aaaa aaaa aaaa aaaa aaaa
Rights Section Value b1 = 0 not purchased b1 = 1 ??? b1 = 2 ??? b1 = 4 purchased b1 = 8 Update Available b1 = 12 purchased & Update  Favorites Section Value	bits bits bits bits	b1 0000 0001 0010 0100 1100	bbbb bbbb bbbb bbbb bbbb	<b>aaaa</b> aaaa <b>aaaa aaaa aaaa</b>	<b>aaaa</b> aaaa <b>aaaa aaaa aaaa aaaa</b>
Rights Section Value b1 = 0 not purchased b1 = 1 ??? b1 = 2 ??? b1 = 4 purchased b1 = 8 Update Available b1 = 12 purchased & Update  Favorites Section Value b2 = 0 not favored	bits bits bits bits	b1 0000 0001 0010 0100 1100 b1 bbbb	bbbb bbbb bbbb bbbb bbbb	<b>aaaa</b> aaaa <b>aaaa aaaa</b> aaaa aaaa	aaaa aaaa aaaa aaaa aaaa aaaa
Rights Section Value  b1 = 0 not purchased  b1 = 1 ???  b1 = 2 ???  b1 = 4 purchased  b1 = 8 Update Available  b1 = 12 purchased & Update  Favorites Section Value  b2 = 0 not favored  b2 = 1 ???	bits bits bits bits bits	b1 0000 0001 0010 0100 1100 b1 bbbb bbbb	bbbb bbbb bbbb bbbb bbbb	<b>aaaa</b> aaaa <b>aaaa aaaa</b> aaaa aaaa aaa	aaaa aaaa aaaa aaaa aaaa aaaa aaaa
Rights Section Value  b1 = 0 not purchased b1 = 1 ??? b1 = 2 ??? b1 = 4 purchased b1 = 8 Update Available b1 = 12 purchased & Update  Favorites Section Value b2 = 0 not favored b2 = 1 ??? b2 = 2 ???	bits bits bits bits bits bits	b1 0000 0001 0010 0100 1100 b1 bbbb bbbb	bbbb bbbb bbbb bbbb bbbb 0000 0001 0010	aaaa aaaa aaaa aaaa aaaa aaaa aaaa	aaaa aaaa aaaa aaaa aaaa aaaa aaaa
Rights Section Value  b1 = 0 not purchased  b1 = 1 ???  b1 = 2 ???  b1 = 4 purchased  b1 = 8 Update Available  b1 = 12 purchased & Update  Favorites Section Value  b2 = 0 not favored  b2 = 1 ???	bits bits bits bits bits bits	b1 0000 0001 0010 0100 1100 b1 bbbb bbbb	bbbb bbbb bbbb bbbb bbbb	aaaa aaaa aaaa aaaa aaaa aaaa aaaa aaaa	aaaa aaaa aaaa aaaa aaaa aaaa aaaa aaaa

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a1 a2 b1 b2

# version 1.1.0.0 added some new bits I haven't taken the time to decipher their meaning yet.

\*\*\* Card Status codes described. first two bytes of the 4 are used

#### a1a2 b1b2 c1c2 d1d2

a1 a2 01 02
bits 0000 aaaa bbbb bbbb
bits 1000 aaaa bbbb bbbb
bits 0001 aaaa bbbb bbbb
bits 1001 aaaa bbbb bbbb
bits 0010 aaaa bbbb bbbb
bits 0100 aaaa bbbb bbbb

a2 = 0 demos not downloaded	bits aaaa 0000 bbbb bbbb
a2 = 8 demos downloaded	bits aaaa 1000 bbbb bbbb
a2 = 3 Free demos not downloaded and Delete?	bits aaaa 0011 bbbb bbbb
a2 = 1 free demos	bits aaaa 0001 bbbb bbbb
a2 = 2 Deleted	bits aaaa 0010 bbbb bbbb
a2 = 4?	bits aaaa 0100 bbbb bbbb

b1 = 0 not purchased	bits aaaa aaaa 0000 bbbb
b1 = 4 purchased	bits aaaa aaaa 0100 bbbb

b2 = 0 not favored bits aaaa aaaa bbbb 0000 b2 = 4 selected for favorites bits aaaa aaaa bbbb 0100

#### examples:

 $80\ 40\ 00\ 00 =$  need demos and full shows, checked in collection  $88\ 40\ 00\ 00 =$  checked, demos downloaded, purchased, not favored

98 44 00 00 = checked, full shows downloaded, demos downloaded, purchased, on favorites list

18 40 00 00 = not checked, full shows downloaded, demos downloaded, purchased, not favored

## Note - Possible bug in VGHD software

When Full Card is Downloaded before the Demos / trailers, a2 bit 3 is set, along with a1 bit 1 a2 bit 3 should not be set until the Demos / trailers are downloaded.

If a card has an error during download, reset the 4 byte pattern to 00 40 00 00 Shows not downloaded, demos not downloaded, owned, not checked, not favorite

If Shows and Demos ARE fully downloaded set the pattern to  $18\ 40\ 00\ 00$  If Demos are downloaded but full shows are needed  $08\ 40\ 00\ 00$ 

If Full shows are downloaded but demos needed 10 40 00 00

#### Known Clip types:

```
acccc 0Enn.vghd → Standing
acccc 1Enn.vghd → In Front of / On the Taskbar
acccc 2Enn.vghd → Behind the Taskbar
acccc_3Enn.vghd → Duo One In front, one In back of task bar Only One clip.
acccc_4Enn.vghd →Pole
acccc_32Enn.vghd → with an Accessory
acccc_33Enn.vghd →In Front of Taskbar + Accessory
acccc 34Enn.vghd → Behind Taskbar + Accessory
acccc 64Enn.vghd → Enter/Exit Side of Screen (older clips it was used for any Enter/Exit)
acccc_66Enn.vghd → Behind Taskbar + Enter/Exit
acccc_68Enn.vghd → Pole + Enter/Exit
acccc_82Enn.vghd → Behind Taskbar + with a Sign + Enter/Exit (Card a0002 only)
acccc_96Enn.vghd → Accessory + Enter/Exit
acccc_98Enn.vghd → Behind Taskbar + Accessory + Enter/Exit
acccc 100Enn.vghd → Pole + Accessory + Enter/Exit
acccc_512Enn.vghd → Cage
acccc 544Enn.vghd → Cage + Accessory
acccc_576Enn.vghd → Cage + Enter/Exit
acccc_608Enn.vghd → Cage + Accessory + Enter/Exit
acccc_1024Enn.vghd →Swing
acccc 1056Enn.vghd → Swing + Accessory
acccc_1088Enn.vghd → Swing + Enter/Exit
acccc_1120Enn.vghd →Swing + Accessory + Enter/Exit
acccc 320Enn.vghd --> by error - only one clip
Reserved:
acccc_16Enn.vghd → with a Sign not yet used
acccc_17Enn.vghd --> with Sign not yet used
acccc_18Enn.vghd --> with Sign not yet used
acccc_20Enn.vghd --> with Sign not yet used
acccc 80Enn.vghd --> with Sign not yet used
acccc 81Enn.vghd --> with Sign not yet used
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The type is the Sum of the following bits.

acccc 84Enn.vghd --> with Sign not yet used

Bits:	value	IF SET IT MEANS
None	0	Standing
0	1	On the Taskbar – In front
1	2	Behind the Task bar
2	4	Pole Dance
3	8	reserved
4	16	Has a Sign
5	32	With an accessory
6	64	Enter / Exit side of screen ONLY
7	128	Reserved – in models.lst is set if Not a Demo
8	256	Reserved
9	512	Cage Clips
10	1024	Swing Clips

A Value of 0 means Full View with No Enter / Exit

## What is the Enn part? New Wording Same-Level Criteria

- E = Explicit level Levels are from 0 to 5
- 0 =all audience never used...
- 1 = No Nudity
- 2 = Topless
- 3 =Nudity
- 4 = Full Nudity
- 5 = X rated

## nn = clip number of that Explicit Level.

## **OLD WORDING**

What is the Enn part?

E = Explicit level - Levels are from 0 to 5

- 0 =all audience never used...
- 1 = Light Sexy
- 2 = Topless
- 3 = Full Nudity / Bottomless
- 4 = Explicit
- 5 = X rated

nn = clip number of that Explicit Level.

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How to figure out the models.lst date codes:
For VG Models.lst version 1.0.6.4 and up use this formula: The date the card was added to your collection 00 25 HH LL - 00 25 79 25 = 10 2011 11 Only the First two bytes are used. Total number of days past 11/13/1926 - birth of Max Vernon Mathews - Father of Computer / Digital Music 7925 hex = 31,013 days added to 11/13/1926 = 10/11/2011 Subtract one day for Correct Date 10/10/2011
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Time is recorded as milliseconds Past midnight
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*********************	**************
****** Clip Duration Timing	************

It is now possible to Calculate Individual Clip Duration in Seconds.

You will need to Parse the Data Folder XML file and Get the Shows Duration Value.

This value is the Total number of Animation Frames for the Entire Card. All cards recoded at Totems Paris Studio are 25 frames per second. Note: The Cards recorded at Totems LA Studio were 24 Frames per second.

From the Models.lst file, each card has total Byte Size value. And Each Clip has a total Clip size in Bytes.

To find Clip Duration in seconds.

# Little Endian and Big Endian byte ordering:

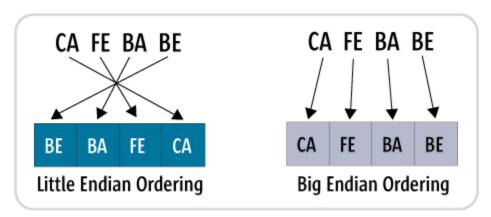


Figure 2 Byte ordering