Thanks for the update Larfier.

-David

On Jan 10, 2014, at 2:10 AM, "Larfier" <[lfr@hkpermaisuri.com](mailto:lfr@hkpermaisuri.com)> wrote:

Hi David,

We prefer option 2, but after communicated with Melissa today all files from 2.49 is the same as dropbox, you don’t need upload the file to us; we will start copy the data from common share folder 2.49 Volume 2 to China tomorrow.

China will build the relationship and rename all pictures by HM# and create 200\*200 thumbnails file, the reason why we prefer option 2 is even US team finished the work like option 1 and send to China Team, and we still need do some work to insert into CMS system.

We will work in 2 steps:

1. Batch processed all pictures can matched or builds the relationship first.

2. Manual deal with remain pictures which can’t build the relationship

As we talked before, we store all pictures in local server for temporary, after that we will start research stored to cloud server for long term.

Brgds!

Larfier

**From:** David Eike [<mailto:david@davideike.com>]   
**Sent:** 2014年1月10日 7:24  
**To:** Lee; Larfier  
**Cc:** Melissa Lim; oliver; [mke@hkpermaisuri.com](mailto:mke@hkpermaisuri.com); [mil@hkpermaisuri.com](mailto:mil@hkpermaisuri.com) Wu; Kat Nadler; John Halloran  
**Subject:** media/image file import options

Hi Lee and Larfier,

As we discussed yesterday, I now have a complete directory of all of the pre-existing e-commerce images for all SKUs. The total size is about **24GB**, and the individual files are anywhere from 200KB (compressed) to 2MB (high-resolution). There are approximately **14,000 images.**

Correct me if I am wrong, but these are the options we have now as I understand them:

**OPTION 1: USA team writes script that loops through the images directory and creates data file that links the images, their SKUs and their HM#s.**

* First, USA team imports HM-all SKU/HM relationships into a local SKU\_HM cross-reference database table
* Next, USA team writes PHP script that loops through the SKU image folders, reads the image names, looks up the HM value from the new table, creates a 200x200 thumbnail file and inserts new record into a new HM\_Media table for each image (including the path/URL).
* Next, we send China the new database for the media files so you can import it into CMS database
* At the same time, USA team uploads the image archive to a file server where China can download and extract them to your local system.
* Finally, China decides how to store the images where they can be easily and efficienty read by 3rd party websites and CMS system and uploads images to appropriate directories

**OPTION 2: USA team sends China the files and China writes program to create media database records**

* First, we upload media file archive (24GB) to a file server
* Next, China imports HM-all SKU/HM relationships into a new SKU\_HM cross-reference database table (unless you already have this data)
* Next, China decides how to store the images where they can be easily and efficiently read by 3rd party websites and CMS system
* Next, China writes program that loops through the SKU image folders, reads the image names, looks up the HM value from the new table, creates a 200x200 thumbnail file, and inserts new record into a new HM\_Media table (in CMS database) for each image (including the path/URL)
* Finally, China uploads files to appropriate directories on servers

**NOTES**:

* As you know our preference is for cloud storage on Amazon S3 or Google Cloud, but I've been told you have unspecified concerns about doing that. So I am assuming you will be storing them locally on CMS servers in the short term.
* There are additional data fields you will probably want in the media table, including "ALT tags", "primary image" bit flag, file type, file size, datestamp, etc.
* All of the items above refer to the **one-time** load of legacy files into the system. The ongoing media file uploading and data management will be handled internally by CMS system.

Please let me know if you have a different understanding about how we should proceed.

Thanks!

David

Larfier,

I don't have access to that drive you linked to, so I don't know if it is complete or accurate. As far as I know, the correct and current file repository is on Dropbox, here:

<https://www.dropbox.com/sh/wwqpv93a8ugbfcy/cpTeiNKzd6?n=26182396>

We are working on getting these files into a single archive for you.

-David

On Dec 30, 2013, at 6:43 PM, Larfier wrote:

Hi David,

OK, so currently the image files are named used the SKU value, so do you want us to modify each filename to use the HM# for that SKU instead? Also, shoudl we also provide you with a data file (spreadsheet) that connects the HM images to the SKUs?

--LFR: I saw there is a local directory “ [\\192.168.2.49\Volume\_2\Ecommerce\BEST\Pictures](file:///\\192.168.2.49\Volume_2\Ecommerce\BEST\Pictures)” stored the lifestyle picture, I just want to make sure this is the complete and correct data, if so we can download by ourselves and rename relate HM#, if not, we still you send the complete picture file and named as HM#, we need a data file about the relation of HM#->SKU Order-> Picture file name. It better to send the picture in rar or zip file.

Brgds!

Larfier

**From:** David Eike [mailto:david@davideike.com]   
**Sent:** 2013年12月31日 6:07  
**To:** [Olv@hkpermaisuri.com](mailto:Olv@hkpermaisuri.com)  
**Cc:** Lee; lfr@hkpermaisuri.com; John Halloran; jin@heavymetalinc.com  
**Subject:** Re: Reply: media file upload, storage and retrieval  
**Importance:** High

Hi Oliver,

My responses are in red below…

Thanks,

David

On Dec 30, 2013, at 2:13 AM, [Olv@hkpermaisuri.com](mailto:Olv@hkpermaisuri.com) wrote:

Hi David,

I want summarize the concerns between china and USA in recent:

1.About the picture location, we talked with Larfier and bonnie and Lee weeks ago, using Stockkey or HM# to name the picture will suit for our system, but finally we decide to use HM# to name the picture as Stock Key is only an inner link with difference systems, both USA and China user don't very familar with this number. the benifit of using HM# is Both China Team and most of USA Team are very familar with HM#, it's easy for users to manage or search pictures.Other vise, for SKU order in different website, we will build a connection between each SKU with specific picture, which makes user easy to search.

      OK

2. Regarding the lifestyle picture stored at cloud server, we want to save picture to lccal server first, then we find a way to save to cloud server,no matter save to cloud server or not, we still need a local copy in our own server, that why we want save local first. Right now the picture location problem stop system initial data, we don't want stop CMS system online time as picture locate problem, we want push this project online ASAP, after that we will plan to research the cloud server API relate info.

            OK

3.Regarding the HM# update problem, the finally decision is yes we did update, but we will not only auto update by system, we will setting some function/flow to achieve new HM# update:

  a. CMS system offer multi HM# in one Stock Key search, system auto pop-up new record for user reference and shows all record search(sort by update time or after the specific period)

  b. CMS system offer Audit function before udpate New HM# to real database, the auditor need check and audit the new update info before click "Update" button, any update will record by log in system for search,we recommond he HM# update only replace the HM#, but keep all relate data

  c. If user finally decide the HM# update function is unnecessary, we can just hide this function

4. Regarding initial Lifestyle picture problem, as there is no any lifestyle picture in china, we hope USA team can offer all pictures which need initialled, by each SKU and by different website, we know there are many size lifestyle picture but we don't know which is for which website.

 OK, so currently the image files are named used the SKU value, so do you want us to modify each filename to use the HM# for that SKU instead? Also, shoudl we also provide you with a data file (spreadsheet) that connects the HM images to the SKUs?

Our Goal: CMS system will be  online ASAP, and all users and company business can get benefits from it .

Any questions please let us know.

Thank you!

Oliver

**发件人：** [David Eike](mailto:david@davideike.com)

**发送时间：** 2013-12-30 15:01

**收件人：** [Lee](mailto:lee@noblehousehome.com)

**抄送：** ['Larfier'](mailto:lfr@hkpermaisuri.com); ['John Halloran'](mailto:JOHN@bestsellingfurnitureonline.com); ['oliver'](mailto:olv@hkpermaisuri.com); ['Jin Jin'](mailto:jin@heavymetalinc.com)

**主题：** Re: Reply: media file upload, storage and retrieval

Hi Lee -

 I responded to your comments in red below...

On Dec 29, 2013, at 7:24 PM, Lee wrote:

Hi All:

    It is my faulty, I should communicate with you earlier, sorry David. About the media is : we should add images displaying from other system( webPO, eCom, etc.) on CMS relative model.  we have designed, completed and published it to living server last week, just as you see on my  email.

     But the most difficulty is still that we are not very sure  that does all those designed whether suit for our business logic?  After I have discussed to Sale Supported department,  I found CMS media uploading may not very suit for current business logical on some special situation. Let me explain it more detail here , it is a long story, make me confuse some time.

     1: CMS uploading file by HM#.

     2: For the same HM#, it can be changed by some department on some time. BUT, for the same SKU which  have associated to this HM#, just treat its HM# as the old HM#.

     Assumption here have a SKU ”sku001” ,it associate to a HM# “HM001\_old”. And we have all uploaded medias for this “HM#001”. After a period of time, they (webPO operator) changed HM# from “HM001\_old” to “HM001\_new”.  On the occasion, CMS have some questions about it:

    1): Does we need to upload an entirely new images for this “HM001\_new”? I talk it to Sale Supported department, they suggested CMS should refer to the old images of old HM# ( or copy all images from old HM# to new HM#).

OK, if I understand you correctly, in this type of scenario it should not matter because the image file will not need to be changed, only the HM identity value in the data record must be updated. The image filename remains the same even if HM # is changed. However, the value in the data record in the media table must change to reflect the new HM#.  In other words, the media files themselves should be "decoupled" from the HM number system and only linked together via a data record (which can be edited over time).

2): Should CMS update to the latest HM# automatically? If yes, should add new function to make sure CMS operator to know ? Or CMS operator need to re-audit all over  it again?

Yes, CMS should update the data record to reflect the new HM#, but the image filename remains unchanged.

Also, how often does this happen? It seems like an HM # should normally remain unchanged after it is created since it describes a real, physical object. Maybe this is an operational issue that we can address?

For your proposal, I think all is OK. But  here we need re-confirm it:

P: For file naming, I don't think it is necessary to rename the original files using HM#s.

A:So if operator uploading  same file name to  a same HM#, should CMS cover old file by new one? Or need some other way to deal.

**发件人:** David Eike [mailto:david@davideike.com]   
**发送时间:** 2013年12月30日 4:29  
**收件人:** Larfier  
**抄送:** John Halloran; Lee; oliver; Jin Jin  
**主题:** media file upload, storage and retrieval

Hi Larfier,

Lee mentioned that I should speak to you further about the media file management for CMS before executing any tasks on our end. I'm not sure what concerns you might have, so please review my proposal and let me know if this is problematic.

Thanks!

David

-------------------------------------------------------------------------------

My proposal is this:

1. **For Existing Media Files** (one time creation only)

* Collect all existing media files into a master directory
* Write script to loop through all files in directory (which are currently organized in subfolders by SKU)
* For each file, insert data record into a database "media" table that records the file name, size (KB), file type, HM source #, HM Group # (if applicable), and timestamp
* Since the associated SKUs for existing image files are known in this case, we can also add a new record to a MediaSKU table that associates the new Media id to an existing SKU id
* For each image file, generate a companion 200x200 thumbnail\* image with an appended "\_th" to the end of the file name\*\*
* For each file, upload original file and the new thumbnail to the Noble House Amazon S3 directory (or Google cloud) \*\*\*

2. **For New Media Files** (ongoing, to be handled by CMS application)

* CMS Method 1: Raw file upload - in this case, the HM# is still required to perform uploads but the SKU is not yet known. This is done in bulk from the Media section of the CMS.
* CMS Method 2: SKU file upload - in this case, the media file is uploaded from the Product (SKU) Configuration page and the current SKU id can be referenced and recorded as part of the file storage process.
* In both cases, the 200x200 thumbnail\* is generated and both files are uploaded to Amazon S3 (or Google cloud)

Notes:

\*\*\* storing files locally may be easier at first, but my opinion is that it would be better to do the work once rather than revisit it later. Also, a local storage solution would mean that we would not be able to syndicate our image URLs with third party websites until we have moved all of the files permanently to the cloud at a later date. This seems unnecessarily complicated. Here is the .NET SDK for moving files up to Amazon S3: <http://aws.amazon.com/sdkfornet/>

\*\* For file naming, I don't think it is necessary to rename the original files using HM#s, as long as the database records for each file record the HM key. The existing files are named using keywords for SEO and for uniqueness, so we should retain that benefit.

\* For thumbnails: the image dimensions should be 200x200, but for non-square images they should be proportionally sized to the largest dimension first and then superimposed on square background (transparent or white). This way there should be no image distortion in the thumbnails.