We have done this in our test env. The following are the steps we followed to do this.   
  
1) Backup 5.3 SP3 Docbase’s File Stores, Database, server.ini and aek.key   
2) Stop Docbase and Docbroker using Documentum Server Manager and stop Java Method Server using Windows Services.   
7) Install 6.5 SP1 on the new system with the same drive as of 5.3 SP3   
CoolCreate a Docbroker with the same name and ID as in 5.3 SP3   
9) Create a Docbase with same name , ID, repository owner name and password as in the 5.3 SP3 (check the backup server.ini to see the old Docbase’s Name and ID, Note that you have to have Temporary Database for this)   
10) Stop repository   
11) Copy back the File Stores from the backup and change the new server.ini so that it uses the old database (change the database\_conn =OLD Repositorie's Database's SID ).   
12) Run script to clear crypo information and generate aek.key (Check below for more info)   
13) Start repository   
14) Modify the SigManifest dm\_location object to point to 6.5\fusion\fusion.exe. This Object currently points to 5.3\fusion\fusion.exe (Check below for more info)   
15) Deactivate all jobs by changing the is\_inactive attribute on all job objects to TRUE.   
16) Run the Docbase upgrade of 5.3 SP3 to 6.5 SP1 (Remember, Repository version is still 5.3 SP3)   
17) Check and make sure that the below attributes got the correct values   
a)r\_host\_name in dm\_server\_config\_s   
b)host\_name in dm\_mount\_point\_s   
c)target\_server in dm\_job\_s   
d)projection\_targets in dm\_server\_config\_r   
e)user\_os\_domain of dm\_user\_s objects   
f)file\_system\_path of dm\_location\_s objects   
g)file\_system\_path of dm\_mount\_point\_s objects   
(Check below for more info)

Rebuild Docuemntum Views (Check below for more info)

**Scripts for Step – 12**

1. Shutdown all the repositories on the target server   
   2. Backup the database   
   3. Rename the AEK file or rename it and move it some where else   
   4. Login to the Database using Docbase Owner User Name and Password   
   5. From sql on the database update dm\_docbase\_config\_s set i\_crypto\_key = ' ' - A space is required between the ' '   
   6. From sql on the database update dm\_docbase\_config\_s set i\_ticket\_crypto\_key = ' ' - A space is required between ' '   
   7. from sql: SQL> select r\_object\_id from dmi\_vstamp\_s where i\_application = 'dm\_docbase\_config\_crypto\_key\_init';   
   8. delete from dmi\_object\_type where r\_object\_id = 'returned r\_object\_id from above';   
   9. SQL> commit;   
   10. SQL> delete from dmi\_vstamp\_s where r\_object\_id = 'returned r\_object\_id from step above'   
   11. SQL> commit;   
   12. SQL> select r\_object\_id from dmi\_vstamp\_s where i\_application = ‘dm\_docbase\_config\_ticket\_crypto\_key\_init’;   
   13. SQL> delete from dmi\_object\_type where r\_object\_id = 'returned r\_object\_id from above';   
   14. SQL> delete from dmi\_vstamp\_s where r\_object\_id = 'returned r\_object\_id from step above'   
   15. truncate table dm\_public\_key\_certificate\_s   
   l6. truncate table dm\_cryptographic\_key\_s   
   17. SQL> commit   
   18. run this file from $DM\_HOME/bin: dm\_crypto\_create   
   19. - To re-encrypt the dbpasswd.txt file do the following cd $DM\_HOME/bin   
   20. dm\_encrypt\_password -docbase <repository name> -rdbms -encrypt <database password>   
   21. You need to do all modification on the database for each repository!!   
   22. Startup the repositories.

Sample scripts and SQL

update dm\_docbase\_config\_s set i\_crypto\_key = ' '   
update dm\_docbase\_config\_s set i\_ticket\_crypto\_key = ' '   
  
delete from dmi\_object\_type where r\_object\_id in (   
select r\_object\_id from dmi\_vstamp\_s where i\_application = 'dm\_docbase\_config\_crypto\_key\_init')   
  
delete from dmi\_vstamp\_s where r\_object\_id in (   
select r\_object\_id from dmi\_vstamp\_s where i\_application = 'dm\_docbase\_config\_crypto\_key\_init')   
  
delete from dmi\_object\_type where r\_object\_id in   
(select r\_object\_id from dmi\_vstamp\_s where i\_application = 'dm\_docbase\_config\_ticket\_crypto\_key\_init')   
  
delete from dmi\_vstamp\_s where r\_object\_id in   
(select r\_object\_id from dmi\_vstamp\_s where i\_application = 'dm\_docbase\_config\_ticket\_crypto\_key\_init')   
  
delete from dm\_cryptographic\_key\_s   
delete from dm\_public\_key\_certificate\_s   
  
dm\_crypto\_create   
  
dm\_encrypt\_password -docbase YOUR\_DOCBASE\_NAME -rdbms -encrypt YOUR\_DOCBASE\_OWNER\_PASSWORD

**Instructiosn for Step – 14**

**Fusion File System Path Issue**   
  
Default signature creation method   
  
The default signature creation method is a Docbasic method named esign\_pdf.ebs, stored   
in %DM\_HOME%\bin ($DM\_HOME/bin). The method uses the PDF Fusion library   
to generate signature pages. The PDF Fusion library and license is installed during Content Server installation. The Fusion libraries are installed in %DM\_HOME%\fusion   
($DM\_HOME/fusion). The license is installed in the Windows directory on Windows   
hosts and in $DOCUMENTUM/share/temp on UNIX platforms.   
  
The signature creation method uses the location object named SigManifest to locate the Fusion library. The location object is created during repository configuration.   
  
The signature creation method checks the number of signatures supported by the   
template page. If the maximum number is not exceeded, the method generates a   
signature page and adds that page to the content file stored in the temporary location by Content Server. The method does not read the content from the repository or store the signed content in the repository.   
  
Location object SigManifest’s file\_system\_path attribute is set to C:\Documentum\product\5.2\fusion\fusion.exe and it is not changed during Docbase upgrade. We should change it manually by running a DQL/API.   
  
During the Upgrade of the Docbase from 5.2.5 to 5.3 and 5.3 to 6.5 the installer tries to do the following and fails because of the wrong file system path.   
  
Connect to docbase D65TEST.D65TST as user dmadmin.   
Start running dm\_CAS\_install.ebs script on docbase D65TEST.D65TEST   
method object esign\_pdf exists   
Location SigManifest exists   
[DM\_LOCATION\_E\_SAVE]error: "Save of DM\_LOCATION (SigManifest) failed."   
[DM\_LOCATION\_E\_FILE\_EXISTENCE]error: "File System file specified in DM\_LOCATION (SigManifest) does not exist. Operating System failed to validate existence of the file (C:\Documentum\product\5.2\fusion\fusion.exe). Operating System error was (The system cannot find the path specified.)"   
Failed to update location SigManifest   
  
To confirm this try the follow the below steps   
  
Run this in DQL editor - SELECT object\_name, r\_object\_id, file\_system\_path FROM dm\_location where object\_name= 'SigManifest'   
  
UPDATE dm\_location OBJECT   
SET file\_system\_path='C:\Documentum\product\5.3\fusion\FUSION.EXE'   
WHERE object\_name= 'SigManifest' AND r\_object\_id='OBJECT\_ID\_FROM\_PREVIOUS\_STATEMENT'   
  
OR Change the file\_system\_path using SQL

**Instructiosn for Step – 16**

**Files Path and Host/Domain Attributes**

SELECT r\_host\_name FROM dm\_server\_config\_s   
SELECT host\_name FROM dm\_mount\_point\_s   
SELECT target\_server FROM dm\_job\_s   
SELECT projection\_targets FROM dm\_server\_config\_r   
SELECT user\_os\_domain FROM dm\_user\_s   
SELECT file\_system\_path,path\_type FROM dm\_location\_s   
SELECT file\_system\_path FROm dm\_mount\_point\_s   
  
update dm\_user objects   
set user\_os\_domain ='new\_machine\_name'   
where user\_os\_domain ='old\_machine\_name'   
  
update dm\_location objects   
set file\_system\_path='newpath' where file\_system\_path='old path'   
update dm\_mount\_point objects   
set file\_system\_path='newpath' where file\_system\_path='old path'

If any of the above value are wrong use SQL to correct the values.

**Instructiosn for Step - 17**   
  
**Rebuild Documentum Views**   
  
Set the server to rebuild the Documentum views with this SQL Server statement:   
update dm\_type\_s set views\_valid=0   
  
**If you have Docbase startup issues check the below notes**   
  
Docbase Startup issue

|  |  |
| --- | --- |
| [Post](http://documentum.s2.bizhat.com/documentum-post-292.html#292)Posted: Thu Apr 30, 2009 2:58 pm Post subject: Docbase Clone, then upgrade to 65 SP1 from 5.3 SP3 | [Reply with quote](http://documentum.s2.bizhat.com/posting.php?mode=quote&p=292) |
|  | |
| We have done this in our test env. The following are the steps we followed to do this.   1) Backup 5.3 SP3 Docbase’s File Stores, Database, server.ini and aek.key  2) Stop Docbase and Docbroker using Documentum Server Manager and stop Java Method Server using Windows Services.  7) Install 6.5 SP1 on the new system with the same drive as of 5.3 SP3  CoolCreate a Docbroker with the same name and ID as in 5.3 SP3  9) Create a Docbase with same name , ID, repository owner name and password as in the 5.3 SP3 (check the backup server.ini to see the old Docbase’s Name and ID, Note that you have to have Temporary Database for this)  10) Stop repository  11) Copy back the File Stores from the backup and change the new server.ini so that it uses the old database (change the database\_conn =OLD Repositorie's Database's SID ).  12) Run script to clear crypo information and generate aek.key (Check below for more info)  13) Start repository  14) Modify the SigManifest dm\_location object to point to 6.5\fusion\fusion.exe. This Object currently points to 5.3\fusion\fusion.exe (Check below for more info)  15) Deactivate all jobs by changing the is\_inactive attribute on all job objects to TRUE.  16) Run the Docbase upgrade of 5.3 SP3 to 6.5 SP1 (Remember, Repository version is still 5.3 SP3)  17) Check and make sure that the below attributes got the correct values  a)r\_host\_name in dm\_server\_config\_s  b)host\_name in dm\_mount\_point\_s  c)target\_server in dm\_job\_s  d)projection\_targets in dm\_server\_config\_r  e)user\_os\_domain of dm\_user\_s objects  f)file\_system\_path of dm\_location\_s objects  g)file\_system\_path of dm\_mount\_point\_s objects  (Check below for more info)  1Cool Rebuild Docuemntum Views (Check below for more info)   **Scripts for Step - 12**   Clear crypo information and generate aek.key   |  | | --- | | **Code:** | | 1. Shutdown all the repositories on the target server  2. Backup the database  3. Rename the AEK file or rename it and move it some where else  4. Login to the Database using Docbase Owner User Name and Password  5. From sql on the database update dm\_docbase\_config\_s set i\_crypto\_key = ' ' - A space is required between the ' '  6. From sql on the database update dm\_docbase\_config\_s set i\_ticket\_crypto\_key = ' ' - A space is required between ' '  7. from sql: SQL> select r\_object\_id from dmi\_vstamp\_s where i\_application = 'dm\_docbase\_config\_crypto\_key\_init';  8. delete from dmi\_object\_type where r\_object\_id = 'returned r\_object\_id from above';  9. SQL> commit;  10. SQL> delete from dmi\_vstamp\_s where r\_object\_id = 'returned r\_object\_id from step above'  11. SQL> commit;  12. SQL> select r\_object\_id from dmi\_vstamp\_s where i\_application = ‘dm\_docbase\_config\_ticket\_crypto\_key\_init’;  13. SQL> delete from dmi\_object\_type where r\_object\_id = 'returned r\_object\_id from above';  14. SQL> delete from dmi\_vstamp\_s where r\_object\_id = 'returned r\_object\_id from step above'  15. truncate table dm\_public\_key\_certificate\_s  l6. truncate table dm\_cryptographic\_key\_s  17. SQL> commit  18. run this file from $DM\_HOME/bin: dm\_crypto\_create  19. - To re-encrypt the dbpasswd.txt file do the following cd $DM\_HOME/bin  20. dm\_encrypt\_password -docbase <repository name> -rdbms -encrypt <database password>  21. You need to do all modification on the database for each repository!!  22. Startup the repositories. |   Sample Scripts   |  | | --- | | **Code:** | | update dm\_docbase\_config\_s set i\_crypto\_key = ' '  update dm\_docbase\_config\_s set i\_ticket\_crypto\_key = ' '   delete from dmi\_object\_type where r\_object\_id in (  select r\_object\_id from dmi\_vstamp\_s where i\_application = 'dm\_docbase\_config\_crypto\_key\_init')   delete from dmi\_vstamp\_s where r\_object\_id in (  select r\_object\_id from dmi\_vstamp\_s where i\_application = 'dm\_docbase\_config\_crypto\_key\_init')   delete from dmi\_object\_type where r\_object\_id in  (select r\_object\_id from dmi\_vstamp\_s where i\_application = 'dm\_docbase\_config\_ticket\_crypto\_key\_init')   delete from dmi\_vstamp\_s where r\_object\_id in  (select r\_object\_id from dmi\_vstamp\_s where i\_application = 'dm\_docbase\_config\_ticket\_crypto\_key\_init')   delete from dm\_cryptographic\_key\_s  delete from dm\_public\_key\_certificate\_s   dm\_crypto\_create   dm\_encrypt\_password -docbase YOUR\_DOCBASE\_NAME -rdbms -encrypt YOUR\_DOCBASE\_OWNER\_PASSWORD |   **Instructiosn for Step - 14**   **Fusion File System Path Issue**   Default signature creation method   The default signature creation method is a Docbasic method named esign\_pdf.ebs, stored  in %DM\_HOME%\bin ($DM\_HOME/bin). The method uses the PDF Fusion library  to generate signature pages. The PDF Fusion library and license is installed during Content Server installation. The Fusion libraries are installed in %DM\_HOME%\fusion  ($DM\_HOME/fusion). The license is installed in the Windows directory on Windows  hosts and in $DOCUMENTUM/share/temp on UNIX platforms.   The signature creation method uses the location object named SigManifest to locate the Fusion library. The location object is created during repository configuration.   The signature creation method checks the number of signatures supported by the  template page. If the maximum number is not exceeded, the method generates a  signature page and adds that page to the content file stored in the temporary location by Content Server. The method does not read the content from the repository or store the signed content in the repository.   Location object SigManifest’s file\_system\_path attribute is set to C:\Documentum\product\5.2\fusion\fusion.exe and it is not changed during Docbase upgrade. We should change it manually by running a DQL/API.   During the Upgrade of the Docbase from 5.2.5 to 5.3 and 5.3 to 6.5 the installer tries to do the following and fails because of the wrong file system path.   Connect to docbase D65TEST.D65TST as user dmadmin.  Start running dm\_CAS\_install.ebs script on docbase D65TEST.D65TEST  method object esign\_pdf exists  Location SigManifest exists  [DM\_LOCATION\_E\_SAVE]error: "Save of DM\_LOCATION (SigManifest) failed."  [DM\_LOCATION\_E\_FILE\_EXISTENCE]error: "File System file specified in DM\_LOCATION (SigManifest) does not exist. Operating System failed to validate existence of the file (C:\Documentum\product\5.2\fusion\fusion.exe). Operating System error was (The system cannot find the path specified.)"  Failed to update location SigManifest   To confirm this try the follow the below steps   Run this in DQL editor - SELECT object\_name, r\_object\_id, file\_system\_path FROM dm\_location where object\_name= 'SigManifest'   UPDATE dm\_location OBJECT  SET file\_system\_path='C:\Documentum\product\5.3\fusion\FUSION.EXE'  WHERE object\_name= 'SigManifest' AND r\_object\_id='OBJECT\_ID\_FROM\_PREVIOUS\_STATEMENT'   OR Change the file\_system\_path using SQL   **Instructiosn for Step - 16**   **Files Path and Host/Domain Attributes**   |  | | --- | | **Code:** | | SELECT r\_host\_name FROM dm\_server\_config\_s  SELECT host\_name FROM dm\_mount\_point\_s  SELECT target\_server FROM dm\_job\_s  SELECT projection\_targets FROM dm\_server\_config\_r  SELECT user\_os\_domain FROM dm\_user\_s  SELECT file\_system\_path,path\_type FROM dm\_location\_s  SELECT file\_system\_path FROm dm\_mount\_point\_s   update dm\_user objects  set user\_os\_domain ='new\_machine\_name'  where user\_os\_domain ='old\_machine\_name'   update dm\_location objects  set file\_system\_path='newpath' where file\_system\_path='old path'  update dm\_mount\_point objects  set file\_system\_path='newpath' where file\_system\_path='old path' |   If any of the above value are wrong use SQL to correct the values.   **Instructiosn for Step - 17**   **Rebuild Documentum Views**   Set the server to rebuild the Documentum views with this SQL Server statement:  update dm\_type\_s set views\_valid=0   **If you have Docbase startup issues check the below notes**   Docbase Startup issue   Why am I seeing an error like "[DM\_SESSION\_E\_INIT\_FAILURE1]error: "Failure to complete Distributed Content Digital Signatures initialization."" when starting the docbase after an upgrade from 5.3 to 6.0?   Symptoms   After performing an upgrade from 5.3 to 6.0, you may see the following error in the docbase log on docbase startup:   I am seeing an error like "[DM\_SESSION\_E\_INIT\_FAILURE1]error: "Failure to complete Distributed Content Digital Signatures initialization."" when starting the docbase after an upgrade from 5.3 to 6.0.   Note that even if you have already performed the steps from esg74708, you may also have to perform the steps below for version 6.0 now.  Cause  This is likely seen in an environment that has been cloned or copied from another environment. The ACS crypto key is referencing the cloned system.   Resolution  The following in SQLPlus will remove the public/private ACS keys. Make sure you have a backup before you make any directly modifications against the database in SQLPlus.   Stop your repository: | |

delete dm\_sysobject\_s where r\_object\_id =   
(select r\_object\_id from dm\_public\_key\_certificate\_s where key\_type = 1);   
  
delete dm\_sysobject\_r where r\_object\_id =   
(select r\_object\_id from dm\_public\_key\_certificate\_s where key\_type = 1);   
  
delete dm\_public\_key\_certificate\_s where key\_type = 1;   
  
delete dm\_sysobject\_s where r\_object\_id =   
(select r\_object\_id from dm\_cryptographic\_key\_s where key\_type = 1);   
  
delete dm\_sysobject\_r where r\_object\_id =   
(select r\_object\_id from dm\_cryptographic\_key\_s where key\_type = 1);   
  
delete dm\_cryptographic\_key\_s where key\_type = 1;

Restart your repository. The error should no longer appear in the docbase log and the docbase should start up normally now.   
  
Why I'm getting the following error while starting up the docbase after applied .....   
  
Why I'm getting the following error while starting up the docbase after applied SN 27127 [DM\_SESSION\_E\_INIT\_FAILURE1]error: "Failure to complete Server Configuration initialization."?   
  
  
In Step 4 from the support note shows that you need to perform this:   
  
  
4. From sql on the database update dm\_docbase\_config\_s set i\_crypto\_key = ' '.   
  
  
If for some reason you add another space to the update like for example two spaces instead one you will get the error while starting up the docbase   
  
Solution:   
  
update with only ONE space and that will fix the issue.

<https://community.emc.com/servlet/JiveServlet/previewBody/2859-102-1-6876/Migrating%20EMC%20Documentum%20Products%20from%20D5.3%20to%20D6.5%20and%20Beyond.pdf>   
  
<https://powerlink.emc.com/nsepn/webapps/btg548664833igtcuup4826/km/live1/en_US/Offering_Technical/Technical_Documentation/300-007-225.pdf>   
  
<http://dm-book.com/downloads/ContentMigrationApproaches.pdf>