

Management of Unix System Services/HFS files in Endeavor

SUGE

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Management of Unix System Services/HFS files in Endeavor

Agenda

- History of managing hierarchical file system (HFS) files in Endeavor
- Directories and element types
- Security
- New Process
- Conversion process
- Notes and Disclosures
- DEMO
- Q&A

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Agenda

History of managing HFS files in Endeavor

- Limit of 8 char name in upper case
- Manually upload HFS file to MVS pds member in binary in FB80 format.
- Developer required ALL access to the target Endeavor directory when adding HFS file to Endeavor

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History of managing HFS files in Endeavor

Directories and element types

- **Endeavor Baseline directories**

- `/products_shared/dvpnv/base/SSSS/UU/TYPE`, where *SSSS* represents the stage (UNIT/SYST etc), *UU* represents the 2 character application identifier (J1,MR,SQ) and *TYPE* represents the Endeavor element type (PROVIDER,JAVA,TEMPLATE) in uppercase.

- **Application Development directories**

- `/products_shared/dvpnv/ssss/uu/type`, where *ssss* represents the stage (unit/syst etc), *uu* represents the 2 character application identifier (j1/mr/sq) and *type* represents the Endeavor element type (provider/java/template) in lowercase.

- **Application Production directories**

- `/products_shared/syspl/uu/type`, where *uu* represents the 2 character application identifier (j1/mr/sq) and *type* represents the Endeavor element type (provider/java/template) in lowercase.

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Directories and element types

Directories and element types cont'd

- **elementtypes**

- Length up to 13,992. Although the maximum allowable value is 32,000, the value must not exceed maximum physical record length in the delta library definition.
- Format – binary or text
- Language is WEBDATA
- Baseline saved in USS under directory /products_shared/dvprv/base/
- Name of elements can be up to 60 characters (including suffix qualifier) in upper, lower or mixed case

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Directories and element types cont'd

Security

- **Baseline directories**

- Endeavor has all access. Application developers have read access, unless stricter rule is requested at the application identifier level.

- **Application directories**

- Endeavor has all access. Application developers have read/execute access to their application directories as needed.

- **Production directories**

- Endeavor has all access. Application programs need the authority to read/execute/update as necessary. Application developers may request read access as needed.

New Process

- **Add (Update), Delete, Retrieve or Move USS HFS file**
 - 1 - Use Option "H" from the *Endeavor Selection Menu*
 - 2 - Use Eclipse
- **Package USS HFS file**
 - 1 - Use Option "H" from the *Endeavor Selection Menu*

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New Process

Manage USS HFS file example

```
----- WELLS FARGO ENDEVOR SELECTION MENU -----  
  
OPTION ==> H_█  
  
1 ENDEVOR      - ENDEVOR CHANGE MANAGER          DATE   - 2012/08/28  
2 QUICKEDIT   - ENDEVOR QUICK EDIT              JULIAN  - 2012.241  
3 PDM         - PARALLEL DEVELOPMENT MANAGER     TIME    - 09:49  
H HFS         - USS HFS ELEMENT MANAGER          SYSTEM  - SDV21/22  
4 FAQ'S       - ENDEVOR FREQUENTLY ASKED QUESTIONS  NODE    - TEMPED  
5 HOT NEWS    - REVIEW EUS NOTIFICATIONS
```

Endevor User Support (EUS) SharePoint site:

<http://tis.homestead.wellsfargo.com/sites/EHS-MMS/rmp/Enterprise%20Version%20Control/Endevor%20Documentation/Forms/AllItems.aspx>

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Manage USS HFS file example

Add/Update USS HFS file example

```
----- Endeavor HFS SCL generation -----
COMMAND ==>

LOCATION:
  ENVIRONMENT ==> TEST
  SYSTEM      ==> INTERN
  SUBSYSTEM   ==> PL
  TYPE        ==> HFS2
  STAGE       ==> U
  SUBMIT JOB   ==> Y
ACTION OPTIONS:
  ACTION       ==> A
  CCID         ==> R2247
  COMMENT      ==> Add hfs file for demo
  PROC GROUP   ==>
  ELEMENT NME  ==> LongNamedElement.txt
  TO/FRM PATH  ==> /products_shared/dvppl/work/
OPTIONAL -Enter source hfs name if different than Endeavor element name
  TO/FRM NAME  ==>
JOB CARD INFORMATION: (verify before proceeding)
  ==> //R2247HFS JOB (PLT),'ENDEAVOR HFS',NOTIFY=R2247,
  ==> //      MSGCLASS=A,CLASS=R
  ==> /**
```

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Add/Update USS HFS file example

Add/Update USS HFS file example cont'd

C1MSG52

ENDEAVOR ACTION SUMMARY REPORT									
BY: R2247									
ACTION	ELEMENT	PROC RC	NDVR RC	ENVIRONMENT	FROM SYSTEM	INFORMATION	SUBSYSTEM	TYPE	
ADD	(LongH...)	0000	0000	PATH	/products_shared/dvpp1/work/ret/				

Job Listing

```
***** ADD *****
**
**      USER ID..... R2247
**      DATE..... 06AUG12 10:10
**      ENDEAVOR RC..... 0000
**
**      ENVIRONMENT..... TEST
**      STAGE..... UNIT
**      SYSTEM..... INTERN
**      SUBSYSTEM..... PL
**      ELEMENT..... (LongH...)
**      VV.LL..... 01.00
**      TYPE..... HFS2
**      PROC GROUP..... DEFAULT
**
**      PROC NAME..... GHFS
**      PROC LIBRARY..... TESTM/ADMIN.ADMN.PRELOAD
**      PROC ENV..... ADMIN
**      PROC SYS..... ADMIN
**      PROC SGG..... PROCESS
**      PROC STG #..... 1
**      PROC TYPE..... PROCESS
**      PROC VV.LL..... 01.06
**      PROC DATE..... 06AUG12 10:23
**
**      PROCESSOR STEP INFORMATION
**      INIT .....RC=0000
**      HFSPROC .....RC=0000
**
*****
cmdstrtrngmap /products_shared/dvpp1/base/UNIT/PL/HFS2/LongNameElement.txt /prod
FILE ADDED TO: /products_shared/dvpp1/unit/pl/hfs2/LongNameElement.txt
***** BOTTOM OF DATA *****
```

Add/Update USS HFS file example cont'd

Add/Update USS HFS file example cont'd

```

----- Element Selection List ----- Bracketed Names N/A
COMMAND ===>                                SCROLL ===> CSR
ELEMENT OPTIONS:
  E EDIT      H HISTORY  # DELETE      LC LIST INS/OUTS  SI SIGNIN
  B BROWSE    M MASTER  BX COMP LIST  LI LIST INPUTS   SX COMP SUMMARY
  C CHANGES  O MOVE    CX COMP CHANGES  LL LIST LISTING
  G GENERATE  S SUMMARY  HX COMP HISTORY  LO LIST OUTPUTS

                                          MORE====>
  ELEMENT  MESSAGE  TYPE  ENVIRONMENT STAGE SYSTEM  SUBSYSTEM VV.LL
-----
  B {LongN...} *Name N/A  HFS2  TEST      U  INTERN  PL      0101
  --- {LongN...}          HFS2  TEST      S  INTERN  PL      0100
  --- {LongN...}          HFS2  INTERIM   R  INTERN  PL      0100
  --- {LongN...}          HFS2  INTERIM   I  INTERN  PL      0100
  --- {RedyA...}          HFS2  INTERIM   R  INTERN  PL      0100
  --- {RedyA...}          HFS2  INTERIM   I  INTERN  PL      0100
  --- {TestR...}          HFS2  TEST      U  INTERN  PL      0100
  --- TestRexx            HFS2  TEST      U  INTERN  PL      0100
  --- TestRexx            HFS2  TEST      S  INTERN  PL      0100
  --- TESTHFS             HFS2  TEST      U  INTERN  PL      0100
  --- V151a.hfs2          HFS2  INTERIM   I  INTERN  PL      0100
  --- V151a.hfs2          HFS2  PROD      P  INTERN  PL      0100
----- Bottom of the List -----

```

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Add/Update USS HFS file example cont'd

Add/Update USS HFS file example cont'd

Directory List

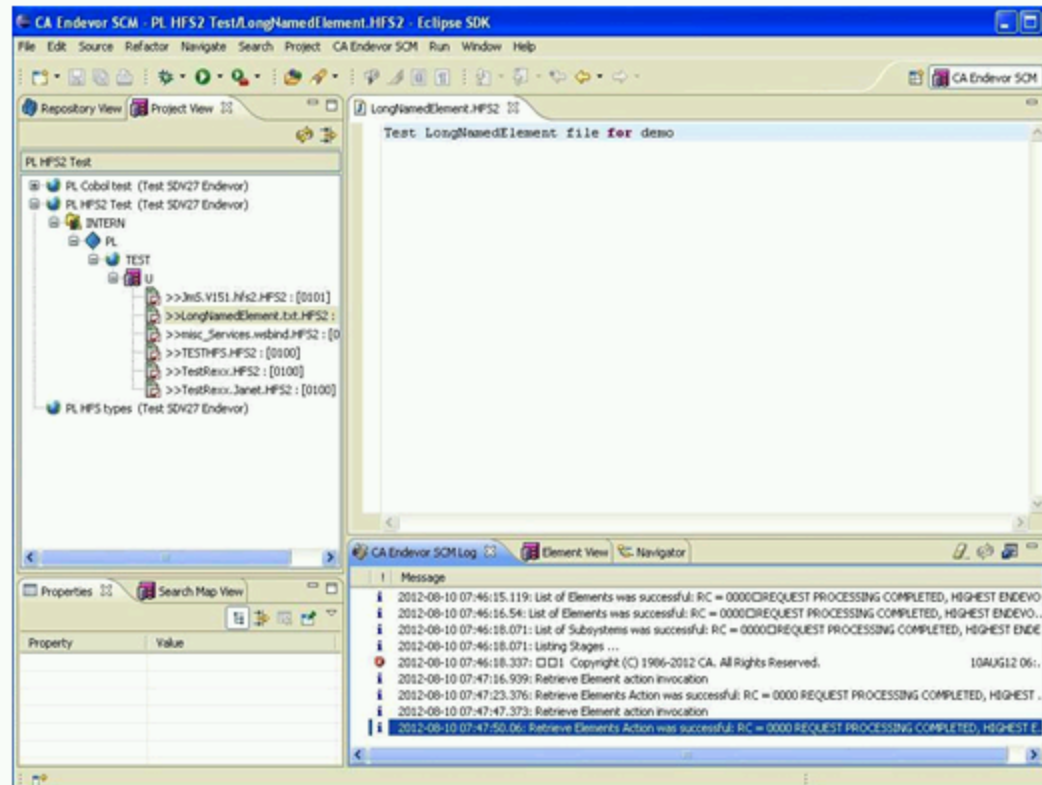
Select one or more files with / or action codes. If / is used also select an action from the action bar otherwise your default action will be used. Select with S to use your default action. Cursor select can also be used for quick navigation. See help for details.

EUID=3000821 /products_shared/dvppl/unit/pl/hfs2/

Type	Changed	CST6CDT	Owner	Filename	Row 1 of 4
Dir	2012-08-09 10:10		R2247	.	
Dir	2012-08-08 14:34		R2247	..	
File	2012-08-07 08:07		NVENDVRT	JmS.V151.hfs2	
File	2012-08-09 10:10		NVENDVRT	LongNamedElement.txt	

Add/Update USS HFS file example cont'd

Add/Update USS HFS file example cont'd



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Add/Update USS HFS file example cont'd

Retrieve USS HFS file example

```

----- Endeavor HFS SCL generation -----
COMMAND ==>

LOCATION:
  ENVIRONMENT ==> PROD
  SYSTEM      ==> INTERN
  SUBSYSTEM   ==> PL
  TYPE        ==> HFS2
  STAGE       ==> P
  SUBMIT JOB   ==> Y
ACTION OPTIONS:
  ACTION       ==> R
  CCID         ==> R2247
  BYPASS DELETE ==> Y
  COMMENT      ==> Retrieve hfs file for demo
  PROC GROUP   ==>
  ELEMENT NME  ==> LongNamedElement.txt
  TO/FRM PATH  ==> /products_shared/dvppl/work/
OPTIONAL -Enter source hfs name if different than Endeavor element name
  TO/FRM NAME  ==> jmsLongNamedElement.txt
JOB CARD INFORMATION: (verify before proceeding)
  ==> //R2247HFS JOB (PLT),'ENDEAVOR HFS',NOTIFY=,
  ==> //      MSGCLASS=A,CLASS=R
  ==> /**

```

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Retrieve USS HFS file example

Retrieve USS HFS file example cont'd

```
Directory List

Select one or more files with / or action codes. If / is used also select an
action from the action bar otherwise your default action will be used. Select
with S to use your default action. Cursor select can also be used for quick
navigation. See help for details.
EUID=3000821 /products_shared/dvppl/work/
Type Changed-CST6CDT Owner Filename Row 1 of 25
_ Dir 2012-09-04 10:26 R2247 .
_ Dir 2012-07-11 14:22 R2379 ..
_ File 2012-08-08 14:32 R2247 borrower.css
_ Dir 2012-05-04 12:30 R2247 development
_ File 2012-05-04 12:30 R2247 httpd.conf
_ File 2012-09-04 10:26 R2247 jmsLongNamedElement.txt
_ Dir 2012-05-04 12:30 R2247 logs
_ File 2012-08-08 09:23 R2247 miscellaneous_Services.wsbind
_ File 2012-05-04 12:30 R2247 nvbackup
_ File 2012-05-07 12:57 R2247 nvcopy
_ File 2012-05-04 12:30 R2247 nvduss
_ File 2012-05-04 12:30 R2247 nvdussmr
_ File 2012-08-08 13:26 R2247 nvhfsc
```

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Retrieve USS HFS file example cont'd

Delete USS HFS file example

```
----- Endeavor HFS SCL generation -----  
COMMAND ==>  
  
LOCATION:  
  ENVIRONMENT ==> TEST  
  SYSTEM      ==> INTERN  
  SUBSYSTEM   ==> PL  
  TYPE        ==> HFS2  
  STAGE       ==> U  
  SUBMIT JOB   ==> y  
ACTION OPTIONS:  
  ACTION      ==> #  
  CCID        ==> R2247  
  COMMENT     ==> Delete hfs file for demo  
  PROC GROUP  ==>  
  ELEMENT NME ==> LongNamedElement.txt  
  TO/FRM PATH ==>  
  
OPTIONAL -Enter source hfs name if different than Endeavor element name  
  TO/FRM NAME ==>  
  
JOB CARD INFORMATION: (verify before proceeding)  
  ==> //R2247HFS JOB (PLT),'ENDEAVOR HFS',NOTIFY=,  
  ==> //      MSGCLASS=A,CLASS=R  
  ==> /**
```

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Delete USS HFS file example

Move USS HFS file example

```
----- Endeavor HFS SCL generation -----  
COMMAND ==>  
  
LOCATION:  
  ENVIRONMENT ==> TEST  
  SYSTEM      ==> INTERN  
  SUBSYSTEM   ==> PL  
  TYPE        ==> HFS2  
  STAGE       ==> U  
  SUBMIT JOB   ==> y  
ACTION OPTIONS:  
  ACTION      ==> O  
  OCID        ==> R2247  
  COMMENT     ==> Move hfs file for demo  
  PROC GROUP  ==>  
  ELEMENT NME ==> LongNamedElement.txt  
  TO/FRM PATH ==>  
  
-----  
OPTIONAL -Enter source hfs name if different than Endeavor element name  
  TO/FRM NAME ==>  
  
-----  
JOB CARD INFORMATION: (verify before proceeding)  
  ==> //R2247HFS JOB (PLT),'ENDEAVOR HFS',NOTIFY=,  
  ==> //      MSGCLASS=A,CLASS=R  
  ==> /**
```

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Move USS HFS file example

Move USS HFS file example cont'd

```

----- Element Selection List ----- Row 7 to 18 of 18
COMMAND ===>
SCROLL ===> CSR
ELEMENT OPTIONS:
  E EDIT      H HISTORY  # DELETE      LC LIST INS/OUTS  SI SIGNIN
  B BROWSE    M MASTER  BX COMP LIST    LI LIST INPUTS   SX COMP SUMMARY
  C CHANGES  O MOVE    CX COMP CHANGES LL LIST LISTING
  G GENERATE  S SUMMARY HX COMP HISTORY LO LIST OUTPUTS

                                          MORE===>
  ELEMENT    MESSAGE    TYPE    ENVIRONMENT STAGE SYSTEM  SUBSYSTEM VV.LL
  -----
  {LongN...}          HFS2    TEST      U    INTERN  PL    0101
  B {LongN...}          HFS2    TEST      S    INTERN  PL    0100
  {LongN...}          HFS2    INTERIM   R    INTERN  PL    0100
  {LongN...}          HFS2    INTERIM   I    INTERN  PL    0100
  {RedyA...}          HFS2    INTERIM   R    INTERN  PL    0100
  {RedyA...}          HFS2    INTERIM   I    INTERN  PL    0100
  {TestR...}          HFS2    TEST      U    INTERN  PL    0100
  TestRexx            HFS2    TEST      U    INTERN  PL    0100
  TestRexx            HFS2    TEST      S    INTERN  PL    0100
  TESTHFS             HFS2    TEST      U    INTERN  PL    0100
  V151a.hfs2          HFS2    INTERIM   I    INTERN  PL    0100
  V151a.hfs2          HFS2    PROD      P    INTERN  PL    0100
  ----- Bottom of the List -----

```

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Move USS HFS file example cont'd

Move USS HFS file example cont'd

Job Listing

```

**          -
**          PROC ENV..... ADMIN
**          PROC SYS..... ADMIN
**          PROC SBS..... PROCESS
**          PROC STG #..... 1
**          PROC TYPE..... PROCESS
**          PROC VV.LL..... 01.06
**          PROC DATE..... 08AUG12 13:23
**
**          PROCESSOR STEP INFORMATION
**          INIT .....RC=0000
**          HFSPROC .....RC=0000
**
*****
*****

cmdstring=cp /products_shared/dvppl/unit/pl/hfs2/LongNamedElement.txt /products_
FILE COPIED FROM: /products_shared/dvppl/unit/pl/hfs2/LongNamedElement.txt
TO: /products_shared/dvppl/syst/pl/hfs2/LongNamedElement.txt
*****
*****
BOTTOM OF DATA
*****
```

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Move USS HFS file example cont'd

Package USS HFS file example

```
----- Endeavor HFS SCL generation -----  
COMMAND ==> █  
  
LOCATION:  
  ENVIRONMENT ==> INTERIM_  
  SYSTEM      ==> INTERN_  
  SUBSYSTEM   ==> PL_  
  TYPE        ==> HFS2_  
  STAGE       ==> I  
  SUBMIT JOB   ==> Y  
  
ACTION OPTIONS:  
  ACTION      ==> P  
  OCID        ==> R2247  
  COMMENT     ==> Package hfs file for demo  
  PROC GROUP   ==>   
  ELEMENT NME ==> LongNamedElement.txt  
  TO/FRM PATH ==>   
  
OPTIONAL -Enter source hfs name if different than Endeavor element name  
  TO/FRM NAME ==>   
  
JOB CARD INFORMATION: (verify before proceeding)  
  ==> //R2247HFS JOB (PLT),'ENDEAVOR HFS',NOTIFY=,  
  ==> //      MSGCLASS=A,CLASS=R  
  ==> /**
```

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Package USS HFS file example

Package USS HFS file example cont'd

Job Listing

```
STATEMENT #1
MOVE ELE 'LongNamedElement.txt'
FROM ENVIRONMENT 'INTERIM'
      SYSTEM      'INTERN'
      SUBSYSTEM   'PL'
      TYPE        'HFS2'
      STAGE       'I'
OPTION CCID      'R2247'
COMMENT 'Package hfs file for demo'
BYPASS ELEMENT DELETE
.

STATEMENT #2
EOF STATEMENT GENERATED
14:55:36 C1Y0016I REQUEST CARDS SUCCESSFULLY PARSED

14:55:36 ENMP091I Successful creation of 'PLTCRHFSDEMO'
14:55:36 ENBP023I The DEFINE action has completed for package ID 'PLTCRHFSDEMO'
```

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Package USS HFS file example cont'd

Notes and Disclosures

- In Endeavor long name elements names are truncated. The format consists of a left bracket ({), the 1st 5 charactes of the element name, an ellipsis (...) and a right bracket (}). Example {Hfsna...}. The full long name elements can be viewed using native USS or the Eclipse tool.
- All support of HFS files for Endeavor functions in native Endeavor must be initiated in batch (SCL).
- Eclipse can be used to perform the Endeavor Add/Update, Generate, Retrieve, Move and Delete functions. Packaging elements can only be performed on the mainframe.

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Notes and Disclosures

DEMO

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DEMO



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Questions