InfoSphere DataStage

Relocating InfoSphere DataStage projects
version 8.1 through version 9

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This presentation will discuss how to relocate a DataStage® project. The information in this presentation is only valid for DataStage version 8.1 and higher. These steps will not work on DataStage version 8.0.

The objectives of this presentation are to discuss where SyncProject is located as it is needed for project relocation, what files need to be backed up, how to relocate the project, and files to be moved manually.

SyncProject

- SyncProject is needed
- Started to ship with Information Server at version 8.5
  – Before version 8.5 obtained by way of customer support
- Newest versions of ISALite include SyncProject
  – Need to be at version 8.5 or higher to use it from ISALite
- Can run from ISALite at version 8.5 and higher or from command line
- Script located in <InformationsServer_home>/ASBNode/bin

SyncProject is required to relocate a project. At version 8.5 and later, SyncProject is shipped with Information Server and is located in the Information Server home directory under the ASBNode/bin subdirectory. If version 8.1 is being used, the SyncProject utility can be obtained through customer support.

Backup key files

- Backup UV.ACCOUNT
  cd <IS_Home>/Server/DSEngine
  cp UV.ACCOUNT UV.ACCOUNT.save

- Backup UV_SCHMEA
  cd $DSHOME/sql/catalog
  cp –R UV_SCHEMA UV_SCHEMA.save

The first thing that needs to be completed before attempting to relocate the project is a backup of key files. This backup is required so that it is possible to go back to the original state if necessary. Change directories to the DSEngine directory and make a copy of the UV.ACCOUNT file. Next, cd into the DSEngine/sql/catalog directory and make a copy of the UV_SCHEMA directory.

Relocate project (1 of 5)

- Example will use DSProd as project name
- Rename project directory
  mv <projectpath>/DSProd <projectpath>/DSProd.bak
- Start uvsh prompt
  - cd into DSEngine directory
  - Source dsenv file and run uv shell
    . ./dsenv
    bin/uvsh

This presentation will use DSProd as the example project to be relocated. After backing up the key files, the next step is to rename the current project directory using the mv command in UNIX® and Linux®. Do not delete the project directory yet because there are files in that directory that are needed later. Next, cd into the DSEngine directory, source the dsenv file and start a uvsh shell by executing bin/uvsh.

Relocate project (2 of 5)

- Remove project entry in UV.ACCOUNTS file

```
>DELETE UV.ACCOUNT DSProd

1 records DELETEd.
>_
```

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Next, remove the project entry in the UV.ACCOUNT file by executing DELETE UV.ACCOUNT ProjectName. In this example, the project name is DSProd.

Relocate project (3 of 5)

- Remove entry from UV_SCHEMA
  VERIFY.SQL SCHEMA DSProd FIX

```
>VERIFY.SQL SCHEMA DSProd FIX
Checking permission.
* '/opt/IBM/InformationServer/Server/Projects/DSProd' is not a DataStage
    account.
* Deleting catalog data for schema 'DSProd'.
* Deleting table data for 'EXAMPLE1'.
* Deleting columns data for 'CODE'.
* Deleting columns data for 'DATE'.
* Deleting columns data for 'QTY'.
* Deleting columns data for 'PRODUCT'.
* Deleting ownership record for user 'dsadm' on table 'EXAMPLE1'.

2 errors fixed.

Items marked with a '!' are information messages only.
Items marked with a '*' have been fixed.
Items marked with a '**' are situations where VERIFY.SQL could not continue.
>_
```

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Next, remove the entries from UV_SCHEMA by running the command VERIFY.SQL SCHEMA DSProd FIX. It should return a message that two errors were fixed.

Relocate project (4 of 5)

- Create new 'empty' server-side project directory
    - Project name must remain the same
    - Set environment variable
      DS_SKIP_DSR_CREATE_PROJECT=1
      export DS_SKIP_DSR_CREATE_PROJECT
    - Run QUICKADD to add project just on server-side
        - **Version 8.5 – 9.1**
          ./bin/uvsh "RUN BP DSR_QUICKADD.B XXXXX DSProd <NewProjectPath>/DSProd CREATE
            - Example:
            - ./bin/uvsh "RUN BP DSR_QUICKADD.B XXXXX DSProd /opt/DSProjects/DSProd CREATE"
        - **Version 8.1**
          ./bin/uvsh "RUN BP DSR_QUICKADD.B 60806\999\01/01/2500\ServerName\0 DSProd
          <NewProjectPath>/DSProd CREATE"
        - Be sure to change "ServerName" to DataStage server name
            - Example:
            - ./bin/uvsh "RUN BP DSR_QUICKADD.B 60806\999\01/01/2500\DSServer\0 DSProd
              /opt/DSProjects/DSProd CREATE"

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The next step is to relocate the project. In order to do this, a new project with the same name as the original must be created in the location that you want on the local repository side only. Set the environment variable DS_SKIP_DSR_CREATE_PROJECT=1. When this variable is set and DSR_QUICKADD.B is run, the project will only be created on the local repository. The quickadd program will not check if the project is already in xmeta. If this variable is not set, the quickadd program will end with an error that the project already exists in xmeta. Next, run DSR_QUICKADD.B as displayed on this slide.

Relocate project (5 of 5)

- Unset environment variable
  unset DS_SKIP_DSR_CREATE_PROJECT

- Run SyncProject
  SyncProject.sh -ISHost ServicesHost:ServicesPort -ISUser username -ISPassword
  password -DSHost DataStageHost:DataStagePort -Project DSProd –FIX
    – ISUser must be a suite administrator

- Can also run SyncProject by way of ISALite
    – Select "Utilities" option
    – Select "Detect, view, and fix issues ....."
    – Select "Fix"

Next, unset the DS_SKIP_DSR_CREATE_PROJECT environment variable. Once this is unset, run the SyncProject command as displayed on this slide. Be sure the user specified for the ISUser has the suite administrator role. SyncProject can also be run from ISALite at version 8.5 and higher using the Utilities menu choice and the Fix option. This will sync everything in xmeta into the newly created local repository project directory.

Final Steps

- SyncProject only syncs what is in xmeta
- Files are not moved to new location
  - DSParams
  - Hashed files
  - Sequential files
- Need to move files manually
- All jobs must be recompiled
  - Open DataStage Designer
  - Click Tools => Multiple Job Compile
  - Select all appropriate job types
  - Select all jobs
  - Check Force compile
  - Click Start Compile

It is important to note that SyncProject will only sync what is in xmeta to the new project location. Once the relocation is done, go back to the renamed project directory and copy the DSParams file into the project directory. As with the alternative method of doing a project export, delete and re-create the project, and an import, hashed files, sequential files, and so on, are not moved. These files need to be moved or recreated in the new project directory.

The last step is to recompile all of the jobs in the project. Since xmeta does not store the compiled job code, it will be necessary to recompile all of the jobs in the project. Open the DataStage Designer in the newly relocated project and use the multiple job compiler to compile the jobs.

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