BelleDIRAC dev update

Command line tools and WebApp
b2dc_se_surl: List the full SURL of SE. [New feature purposed buy us].

- List the full SURL of SE.
- User don’t need this command. We want to separate the name of command from user and expert.
- We purposed ‘b2dc_’
- There is conflict in naming of the tool.
- Miyake-san’s comment:

  “I don't agree 'b2dc' naming convention. It could make confusion among BelleDIRAC users. Since "b2" is used by software group, we should not use similar prefix. Why do you want to create new naming scheme? “
Implementation:

- Get the protocol from CS(Configuration System).
- Full SURL:

```python
@userCreds
def pathSE(args =None):
    manager = Manager()
    result = manager.pathSE()
    keys = ['Protocol','Host','Port','WSUrl','Path']
    for dict in result:
        dict_keys = dict['Value'].keys()
        WSUrl = dict['Value'].get('WSUrl','')
        se_url = '%(Protocol)s://%(Host)s:%(Port)s' % dict['Value'] + WSUrl + '%(Path)s\n' % dict['Value']
        print(se_url)
    return ''
```
[apanta@cw08 BelleDIRAC]$ b2dc_se_surl
davs://dvnafed02.hepbc,uvic.ca:8443/uvic/
root://ntrq01.hepl.phys.nagoya-u.ac.jp:1094//xrootd
dips://ce01.ifj.edu.pl:9196/WorkloadManagement/SandboxStore
- b2dc_se_surl --host <Hostname>

```
[apanta@cw11 BelleDIRAC]$ b2dc_se_surl --host dynafed02.heprc.uvic.np
Unknown Host: dynafed02.heprc.uvic.np
```

```
[apanta@cw11 BelleDIRAC]$ b2dc_se_surl --host dynafed02.heprc.uvic.ca
davs://dynafed02.heprc.uvic.ca:8443/uvic/
```
• `b2dc_se_surl --se <SEname>`

```
[apanta@cwl1 BelleDIRAC]$ b2dc_se_surl --se LAL-DATA-SE

[apanta@cwl1 BelleDIRAC]$ b2dc_se_surl --se KISTI-TMP-SE
srm://belle-se-head.sdfarm.kr:8446/srm/managerv2?SFN=/dpm/sdfarm.kr/home/belle/TMP
```

```
[apanta@cwl1 BelleDIRAC]$ b2dc_se_surl --se KISTI-TMP-
Path /Resources/StorageElements/KISTI-TMP-/AccessProtocol.1 does not exist or it's not a section
Recheck the name of the SE
```
New Project: gb2_ds_get : BIIDCD-944

- Currently, shows LFN of failed files.

- Only shows the reason of failing on debug level. --vv

- We want the reason for failure to show as an error message.
Some research into it:

```python
# BelleDIRAC/cinvesTest/tau_etapi0nu_tagLeptonic_IM-01.mdst.root
{"OK": True, 'Value': {'Successful': {}, 'Failed': {'/belle/user/michmx/cinvesTest/tau_etapi0nu_tagLeptonic_IM-01.mdst.root': "Communication error on send ( 70 : Failed to determine file size.. GError('srm-ifce err: Communication error on send, err: [SE][Ls][] http://jaguar-se.fis.cinvestav.mx:8446/srm/managerv2: CGSI-gSOAP running on cw09. "cc.kek.jp reports could not open connection to jaguar-se.fis.cinvestav.mx:8446\n\n', 70))"}, 'Skipped': []}}
```

Successfully downloaded files:

Failed files:

```
/belle/user/michmx/cinvesTest/tau_etapi0nu_tagLeptonic_IM-01.mdst.root in /gpfs/home/belle2/apanta/gbasf2dev/Bell
```

```
[apanta@cw09 BelleDIRAC]$ emacs Client/controllers/datasetCLController.py -nw
[apanta@cw09 BelleDIRAC]$ emacs Client/controllers/datasetCLController.py -nw
[apanta@cw09 BelleDIRAC]$ emacs Client/controllers/datasetCLController.py -nw
```

● Asked Miyake-san to work on gb2_prod tools.

● Miyake-san’s comment:

“ Probably it is rather Production System topic than gb2 command, since such authority management should be performed on DIRAC server. Therefore this modification itself would be better to be handled by me. ”
WebApp: File Transfer

- Setup at linuxfarmb done. We can run WebApp server. (Thanks to Michel)
- Have been working on understanding the framework for frontend. (Feeling Confident in this)
- Backend connection is not available to continue with the work because of database access.

  Two possibility for database.

1. Copy database at @KEK to here @Olemiss
2. access database at @KEK to make development on WebAPP.
Summary:

- `gb2_ds_list`: pull request done, review ongoing.
- `gb2_se_list`: pull request done.
- `b2dc_se_surl`: Code ready, waiting for name resolution.
- `gb2_ds_get`: Just started today to work on this.
- WebApp development can start after B2GM.

Taking Expert shift this week starting today.
For B2GM: (My thoughts)

- To take comments on these tools.
- Ask for database access or copy the database to olemiss.
- The workflow is slow. Sometimes weeks for a comment.
- Miyake-san says one stuff, i work and Ueda-san comes in with different stuff and have to start again.
- **For FUTURE**: I think we on path for other project on BelleDIRAC development(not the tools but systems) if computing group want us too. This can be next step to think about after webApp development.
Any suggestions, comments, or thoughts?