



EO Applications Security Use Cases

DataGrid WP9

Final DataGrid Conference

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Groups within VOs

- The EO VO has different groups of investigators working on different parts of the same application (GOME use case)
 - 1. Data production (e.g. KNMI, ESA produce different datasets to be validated)
 - 2. Data validation (e.g. IPSL accesses the datasets and produces validation results)
 - 3. End-users (e.g. Scientists request validation results may trigger Grid production "on demand")
- Expect many, many more in future (Tens of EO VOs, hundreds of groups / Users)



The main issues (1)

- Creation / management of groups in VOs
 - creating the groups
 - defining / controlling data access among the groups
 - adding members
 - requires VO database administration tools
- Controlled, secure access to datasets shared among different groups in the VO
 - User may belong to more than one group and/or VO
 - At grid login: user selects VO; then selects group within the VO
 - Data access control only as far as group level



Flexibility to make changes

- add / remove VOs
- add / remove groups in the VOs
- add / remove members in the groups
- modify members' group (add /remove / change)
- modify groups' data access rights
- speed of propagation to sites resources

Roles are basically instances of groups

- Solve the group issues first
- Roles functionality can then be implemented in terms of group control



Test case scenario

- Create an EO VO with 3 Groups
 - Data production (e.g. KNMI, ESA produce different datasets to be validated)
 - dataset: Level1, Level2, Level2b
 - Data validation (e.g. IPSL accesses the datasets and produces validation results)
 - dataset: Validation
 - End-User / Portal (e.g. Scientist, demonstration)
 - browse all datasets

Datasets VO Members	Level1	NNO	OPERA	Validation
IPSL	-	R	R	RW
KNMI	R	-	RW	RW
ESA	RW	RW	-	R
End-User / Portal	R	R	R	R

EO Application Security Use Cases TN

https://edms.cern.ch/file/398262/1/DataGrid-wp9-TN_security_usecases_v0_0_2.doc