

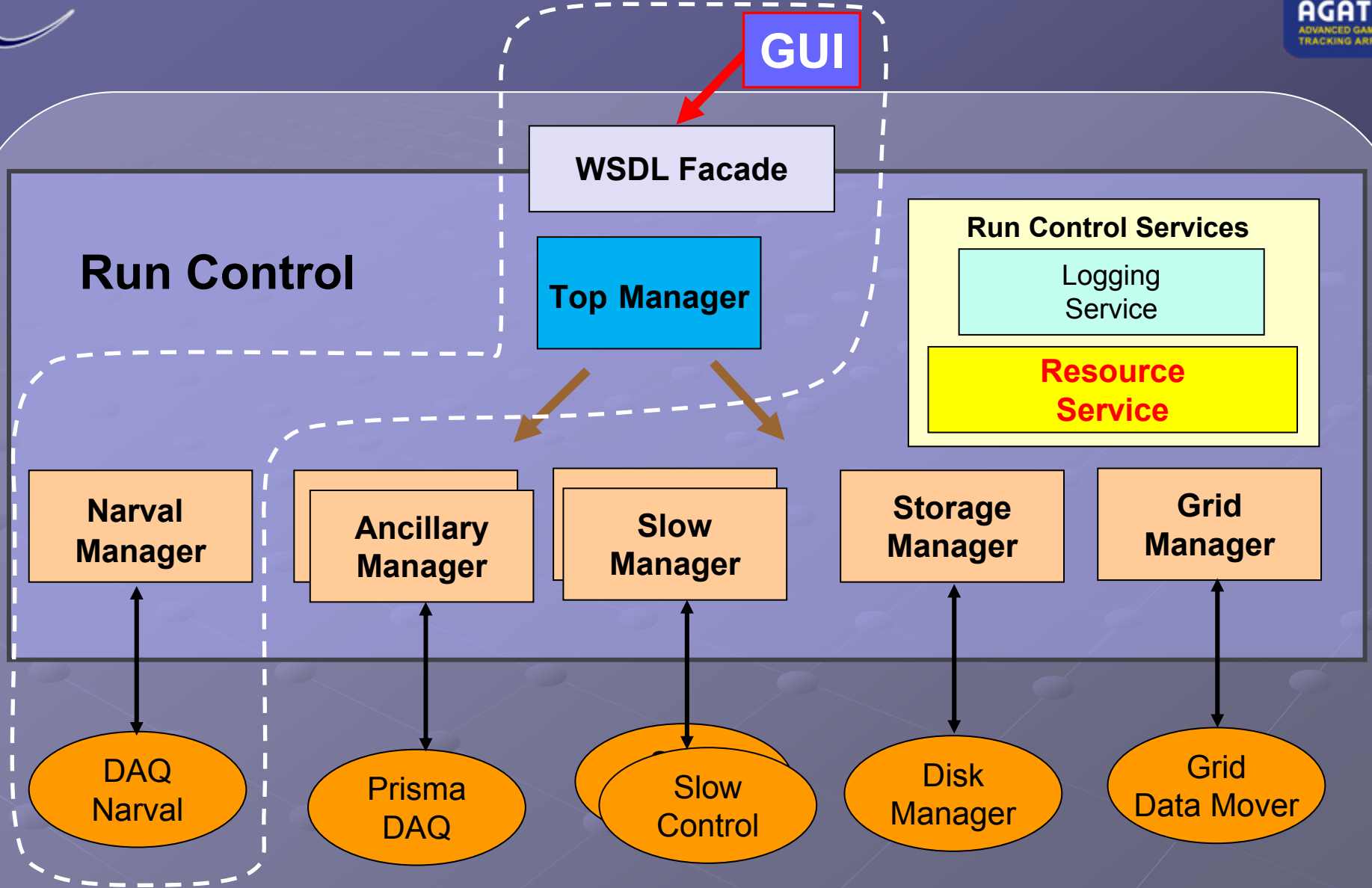
Run Control Status

Pietro Molini

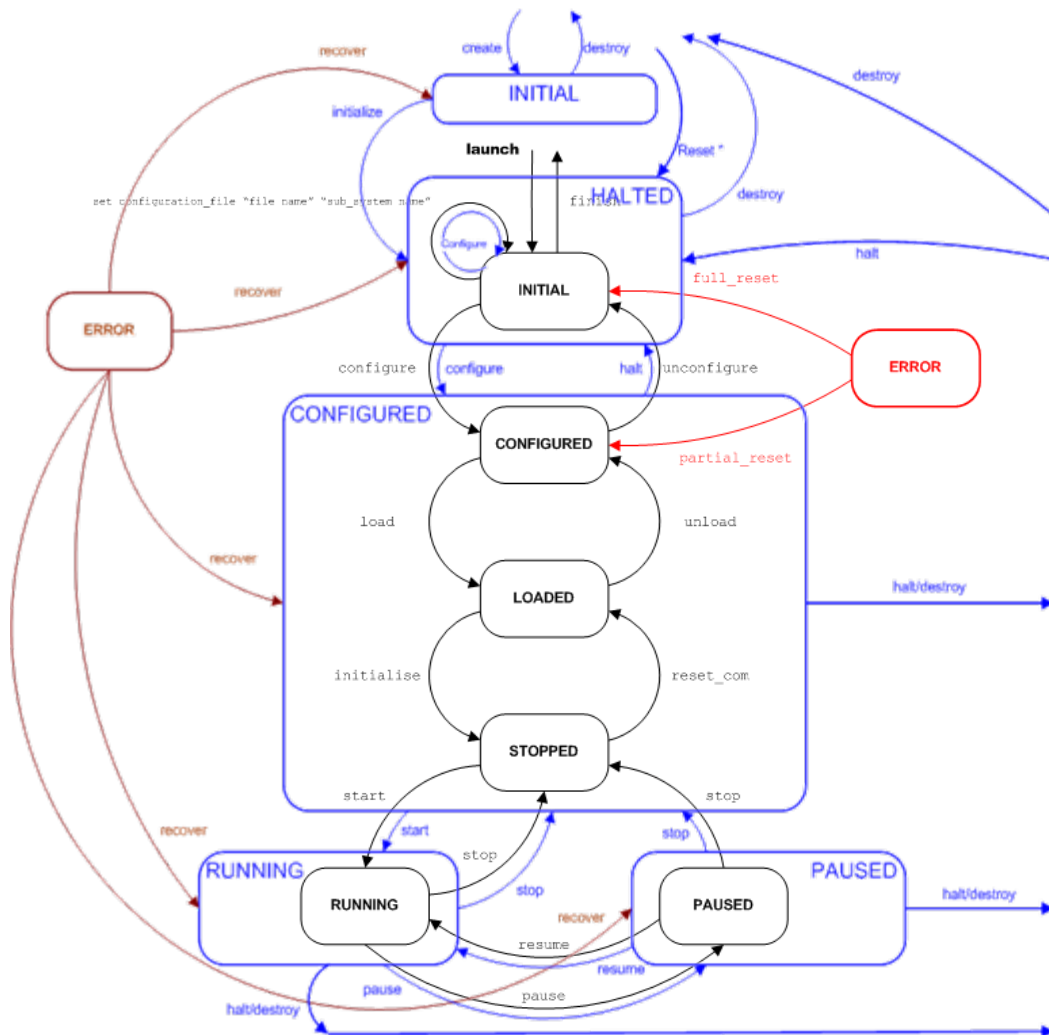
Laboratori Nazionali di Legnaro
INFN

- Run Control Structure
- RC and Narval
- RC and Prisma Xdaq
- Global Configuration Key
- Log Book
- Data Movement
- Work in Progress

Run Control Structure



Narval and Run Control



State Machines

- Narval
- Narval errors
- Function Manager
- FM Errors

* Reset command can be sent from all the FM States but "INITIAL"

- NarvalWrapper ⇔ aws_shell
- LogCollector ⇔ central_log
- State Machine

- Prisma Xdaq application readout prototype integrated in Run Control
 - It uses the same state machine used for Narval
- Prisma is not in Data Flow yet

Global Configuration Key

- Every subsystem has its set of configurations, e.g.:
 - Narval
 - Prisma
 - Slow Controls
 - ...
- A **key** (name) is used to gather configurations of the different subsystems
- Subsystems' users modify only their own configuration
- Each subsystem registers its particular configuration to a given **key**
 - RSManager
- RC configure subsystems accordingly to the loaded **key**

Log Book

- Chosen tool: ELOG (<https://midas.psi.ch/elog/>)
- Developed at PSI (Paul Scherrer Institut – Switzerland)
 - Web log
 - Advantages: simple to install, simple to use, versatile
 - No DB backend, configuration and log entries on flat file
- Version 2.7.2 installed on “run-control” machine
- Available at <http://agata-0.inl.infn.it:8989>

Current configuration:

- Guests can read messages
- Self registration mechanism
- Registered users can submit new log entries
 - Plain text mode
 - HTML mode : allows for nice formatting, picture resize, etc. (FCK Editor)
- Automatic email notifications supported

Log Book (II)

- Log entries can be organised in groups and subgroups
- Please use the “Comments” subgroup to provide your feedbacks



Welcome to Agata Elog

Logbook	Entries	Last submission
General		
Shift	12	Mon Apr 7 17:24:00 2008 by Michele Gulmini, mailto:Michele.Gulmini@lnl.infn.it
Technical Incidents	0	-
Subsystems		
DAQ	0	-
Run Control	0	-
Prisma	0	-
Slow Control	0	-
Test		
Test	9	Tue Jul 1 10:57:49 2008 by Michele Gulmini, mailto:Michele.Gulmini@lnl.infn.it
Comments and suggestions to improve Agata elog	1	Thu Jul 3 12:57:31 2008 by Michele Gulmini, mailto:Michele.Gulmini@lnl.infn.it

● Why?

- Permanent Storage
- Backup
- Possibility to retrieve data

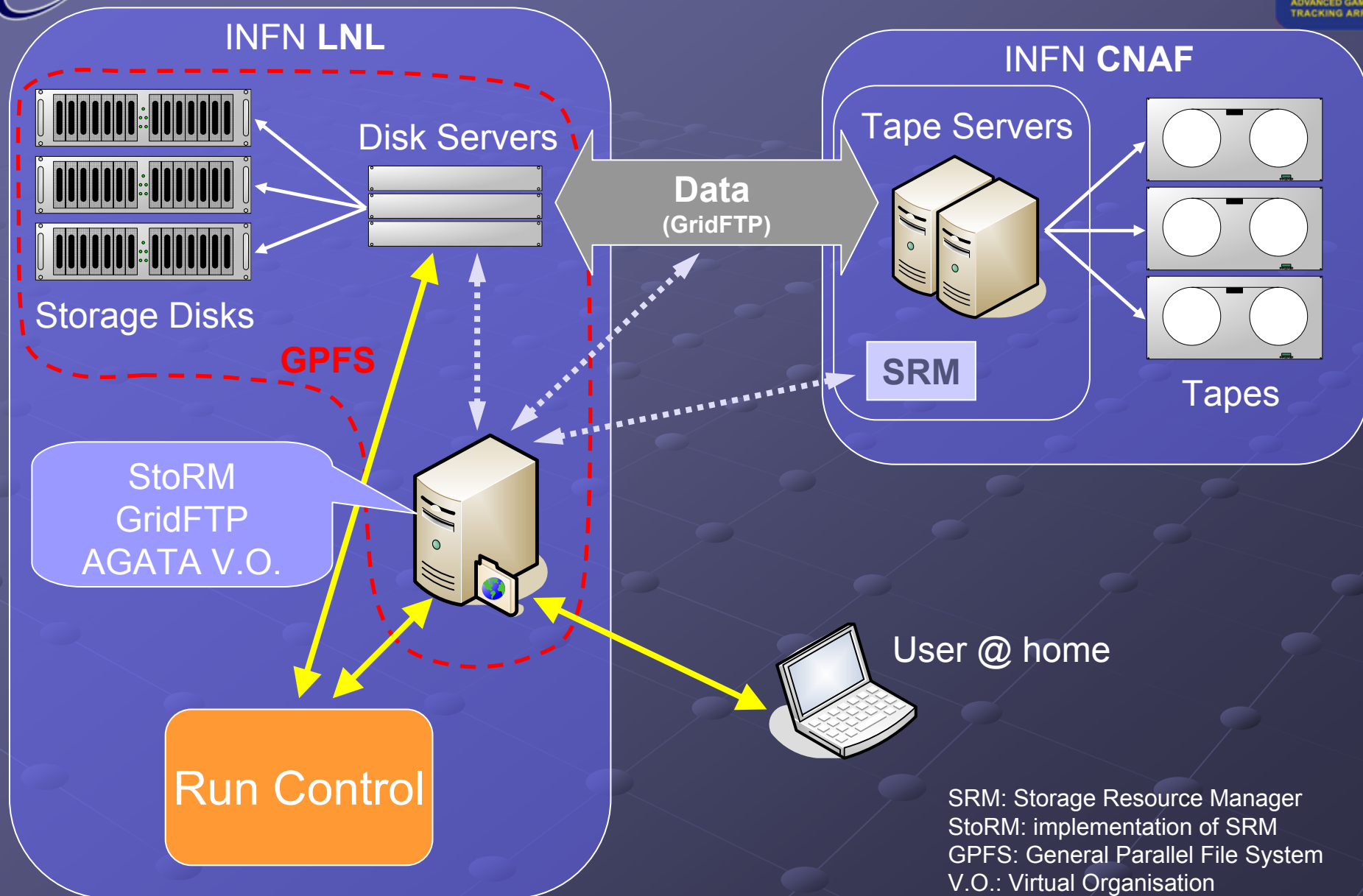
● Storage resources

- GPFS Disks @ INFN - LNL
- Tapes @ INFN - CNAF

● Grid Approach

- Storage Resource Manager (SRM)
- GridFTP

Data Movement II



- PRISMA Xdaq
 - Integration in Data Flow
- LogBook integration
 - How often automatic logs are sent from RC?
 - Define group and user policy
- SRM for Data Movement
 - StoRM installation and configuration
 - V.O. and Grid security issues
 - Tests between LNL and CNAF
- Slow Control
 - Tests with digitizers' WSDL made by Vic Pucknell
- All-in-one configuration tool:
 - Global Configuration Key
 - Subsystems' configuration (narval, prisma...) in the Resource Service DB
 - Narval topology handler
 - Xdaq configurations
 - ...

The End

Thank you