



WP4

RINGGrid

REMOTE INSTRUMENTATION IN NEXT-GENERATION GRIDS

Franco Davoli, CNIT

<http://www.ringrid.eu/>

Outline

- **Kick-off**
- **Resources**
- **Input and outcomes**
- **Tasks**
- **Workplan**
- **Conclusions**

WP4 Kick-Off

- WP4 has started since April 2007. The first action on April 5, 2007, has been the diffusion over the RINGrid mailing list (ringrid-wp4@lists.man.poznan.pl) of a tentative list of topics to be discussed and treated in the Deliverables.
- The list was prepared by Partner CNIT (D. Adami, L. Caviglione, F. Davoli, D. Dardari) as a preliminary action.
- During the Ingrid 07 Conference, a meeting regarding WP4 has taken place, where the topics and their possible organization have been discussed.

Partners Involved in WP4

CLMC

CNIT

GUP

PSNC

REUNA

RNP

CLARA

UNIS

36 PM

3 deliverables

WP4 Inputs/Outcomes

- **WP4** relies on Inputs from **WP2** and **WP3**.
- The main outcomes of **WP4** will be the following:
 - **Recommendations** for the development of **new user access solutions to Remote Instrumentation** environments.
 - **Recommendations** for the development of **grid infrastructures for Remote Instrumentation** environments.
 - **Evaluation** of the **impact of access and core network** evolution on Remote Instrumentation services.

WP4 Task Composition

- WP4 is composed by **three** main tasks. Specifically:
 - Recommendations and guidelines for the development and use of access methodologies for remote instrumentation services.
 - AAA, User-Friendly Interfaces, GUIs, 3D.
 - Use of recommendations and guidelines for the evolution of grid infrastructures for remote instrumentation services.
 - Middleware, convergence, hiding heterogeneity.
 - Analysis of access and core network evolution with respect to remote instrumentation services.
 - QoS, IPv6, Gèant2 (BoD, VPNs, ...).

WP4 Topics Breakdown

- WP4 has started relatively close to this meeting.
- So far, the discussion among WP4 members has concentrated about the topics to be covered in the **three** deliverables:
 - **D4.1**: Virtual research laboratories in Europe and third-party countries: from the current state of the art towards future technologies, according to users' expectations
 - **D4.2**: Influence of the remote instrumentation trends on the development of the network infrastructure and grid services.
 - **D4.3**: Final Report.

WP4: Scientific Organization

- The deliverables are tightly coupled to one another. Thus, we define **5** Research Areas:
 1. Applicable Standards;
 2. The role of the Network in future Grids and Remote Instrumentation;
 3. Software Engineering applied to Remote Instrumentation;
 4. Availability and Usability;
 5. Future Scenarios.

WP4 – Knowledge Collection

- After the 5 areas have been defined, the Team focused on finding-out interesting topics to be discussed in the deliverables.
- Among others:
 - SIP
 - BPEL4WS
 - Other projects (e.g., CIMA, GRIDCC, results and impact)
 - IPv6
 - Gèant2
 - Sensor Arrays
 - Person in the Loop Avoidance
 - 3D Visualization in RT mode

Main philosophy to approach topics addressed

- All topics identified as relevant for the WP should be investigated with respect to
 - Their relative importance
 - The current status, as reported by WP3
 - The incremental developments to be expected in the short term and their impact on Remote Instrumentation
 - The possible suggestions to standards development in this area that would be beneficial to Remote Instrumentation

Management Aspects

- Main communication channels:
 - E-mails (personal, WP4-ML);
 - Skype;
 - Marratech (provided for free by ISTI)/VRVS;
- Main contact person: F. Davoli.
- Meetings:
 - “kick-off” meeting in Santa Margherita Ligure (co-located with Ingrid 07).
 - Next virtual meeting on April 30, jointly with WP3, should concentrate on the contents of the first deliverable (due on May 30).

Conclusions

- WP4 is operative
- A first action to minimize possible risks has been the strict coordination with WP3, taking advantage of a slight overlapping period and of the great intersection of the partners of both WPs
- The main topics to be investigated have been identified
- Writing parts of the first deliverable will start in the beginning of May