BiG Grid Virtualization of Worker Nodes proposal

Objectives:
- Phase 1: Provide a design and Proof-of-Concept for virtualized worker nodes that fulfil requirements of different user communities (Q2 and Q3 2009). Take into account the different efforts already under way in this respect.
- Phase 2: focus on attainable first implementation in Q4 of 2009

Resources (working group members):
- Sander Klous (NIKHEF, chair)
- Pieter van Beek, Ron Trompert (SARA),
- Marc van Driel (NBIC)
- Ronald Starink (NIKHEF)

Other users and communities must be part of this effort but not necessarily part of the working group

'Opdrachtgevers':
- BiG Grid Executive team

Boundary conditions:
- System must function on the type of BiG Grid resources available now

Planning:
- start: March 1, 2009
- end Phase 1: June 1, 2009
- end Phase 2: December 31,2009

Activities:
- Phase 1:
    o Attain requirements form different user communities and use cases.
    o Take into account different efforts on worker node virtualisation in Europe and check their applicability with repect to the above use cases.
    o Write up of first design
- Phase 2:
    o Implementation of Proof-of-Concept on a dedicated resource at NIKHEF, SARA or Life Science Grid.
    o Build customized virtual machine Images for one or two selected application domains.

Deliverable:
- Phase 1: design for a Proof-of-Concept
- Phase 2: Implementation of Proof-of-Concept