Grid enabled access to rich media content

Gredia Middleware Architecture

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- Distributed applications compliant with international grid standards (OGSA-WSRF)
- Indexing of multi-attribute data using DHT and Space Filling Curves
- BitTorrent-like storage and retrieval of large files from multiple locations using GridTorrent
- Load balancing techniques for efficient and decentralized server load distribution

GREDIA data middleware will:

- Extend the existing centralized grid data middleware with innovative, distributed and p2p enabled grid services
- Provide a complex attribute-based search mechanism for the allocation of annotated multimedia objects
- Speed up transfer of large files using parallel data retrieval from multiple locations with the GridTorrent data transfer protocol
- Provide a reliable data and metadata distributed storage system using dynamic data replication strategies
- Be able to scale up to a large number of heterogeneous and geographically disperse peers around the globe

www.gredia.eu

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