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A Proposed ESB Based Grid Computing

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Abstract - Literature review revealed that an enterprise Service bus (ESB) based architecture for grid computing exists . ESB is the back bone of Service Oriented Architecture (SOA) technology . Here the general ESB SOA concept are applied to grid computing and various advantages of ESB are utilized in grid computing . ESB is an extension of Enterprise Application Interface (EAI).The important functionalities of grid computing like work flow management , load balancing, resource sharing, processing clock cycle etc. can be implemented in simpler manner using the benefit of ESB. ESB uses extensible Markup Language (XML) as a standard communication language as well as it supports web services standards with various Message Exchange Patterns (MEPs). ESB adds several key functions like transformation , portability, load balancing or clustering , failover during the data exchange so grid computing can take benefit of these characteristics .