Publish/Subscribe Scientific Workflow Interoperability Framework (PS-SWIF) Architecture and Design

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Abstract : This paper describes Publish/Subscribe Scientific Workflow Interoperability Framework (PS-SWIF) architecture and its components that collectively provide interoperability between heterogeneous scientific workflow systems. Requirements to achieve interoperability are identified. This paper also provides a detailed investigation and design of models and solutions for system requirements, and considers how workflow interoperability models provided by Workflow Management Coalition (WfMC) can be achieved using the PS-SWIF system.