

STARnet Gateway Federation

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Nowadays the Astrophysics community typically deals with big data coming from real-world observations or large numerical simulations that are impractical to be processed on standalone computers, thus requiring distributed computing infrastructures (DCIs). Science Gateway (SG) technologies are offering a framework to realize and operate DCI applications with little concern for the technical details on how and where the underlying computation actually takes place. A SG allows researchers to store, manage, catalogue, and share data collections or evolving apps which otherwise would be confined in specialized institutes. STARnet Gateway Federation is a network of SG operated by different EU Institutes that bring together their expertise. The focus of the federation is to foster research collaboration and advance scientific research by means of developing services, such as authentication, infrastructure access, handling of big data archives and workflow repositories.

Wider impact and conclusions

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Description of work

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