The Adopt-A-GENI (AAG) Project

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Objectives

☐ Incorporate the SDNs into the GENI framework better to attract non-traditional users into the GENI community

☐ Make it easy for users to route and send their traffic across the SDN switches included in their slice without knowledge of complicated OpenFlow rules

☐ Integrate AAG controller with GENI Desktop to facilitate the interaction of users with the AAG controller, such as specifying user-defined routes

☐ Provide monitoring capability to verify correct connectivity and functioning of user-defined SDN-controller path

Approaches

☐ Develop an Adopt-A-GENI (AAG) controller to control the flow space associated with OpenFlow switches in a slice

☐ Develop software to allow users to specify user-defined routes that will be instantiated by the AAG controller

☐ Incorporate FOAM resource allocation functions into Jacks/Flack to include OpenFlow resources in a user slice

AAG Architecture