Software Defined Networking with OpenFlow at Marist College

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**IBM Group:** STG- STG University Alliance and the Marist/IBM Joint Study Program

**Category** (Hardware, Software, Services, Manufacturing/ISC, or Solutions.): Solution (Software Defined Networking)

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**Background and Problem:** In the recent years Software Defined Networking has grown to establish itself as a promising and emerging technology. Since SDN is in its early stages, industry leaders are performing research and development in hopes of progressing the adaptiveness of the protocol in modern networks.

**Solution:** IBM has partnered with Marist through funding from the STG University Alliance to build an OpenFlow research environment to test the features, problems, and limitations of the OpenFlow protocol. Under the guidance of faculty and engineers (IBM, Big Switch Networks), the Marist student team has been working through test cases, programming modules, and ultimately contributing their findings to the open source community. This partnership has provided the student team with an incredibly unique opportunity to contribute to the progression of SDN. This session will provide background on our activities to build a test environment and describe the open source tools we have contributed to the OpenFlow Community.