SARnet Impact
Ciena perspective

Rodney G. Wilson
Chief Technologist, Research Networks
It starts with people.
...and a willingness to advance networking.
Can be pretty boring

There's a really cool photo of our exoGENI rack in CSC that goes here, but it's a bit of a pig files size speaking, so I cut it out and left this note in it's place.

Multi-100GE DWDM SDN enabled 2Tb/s switching fabric

Federated with NSF GENI

Ciena’s modified exoGENI rack

Multi-100GE DWDM SDN enabled 2Tb/s switching fabric

Ciena Research Labs Ottawa Canada
Amsterdam

Ottawa

Chicago

Hanover MD
Secure Autonomous Response Network

Software defined networking

By using the latest techniques in Software Defined Networking and Network Function Virtualisation, a SARNET can use **advanced methods** to defend against cyber attacks and return the network to its normal state.

SARNET Alliance

The **subject** of the SARNET alliance research is the value of **collaboration** between alliance members in terms of **risk reduction**, **cost benefit** and **revenue impact**.

The aim is to **provide** a-priori insight into the rationale of **collaboration**. Based on the Service Provider Group framework, the SARNET alliance institutionalises **trust** by arranging common **rules**, its **execution** and **judgment**. The research builds distributed computational models of an alliance that analyses the **policies** each autonomous member constructs from the common set of **rules**.

The models can become part of an Information Security Management System that establishes, reviews, maintains, and **improves information security** amongst alliance members.

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