



SARnet Impact

Ciena perspective

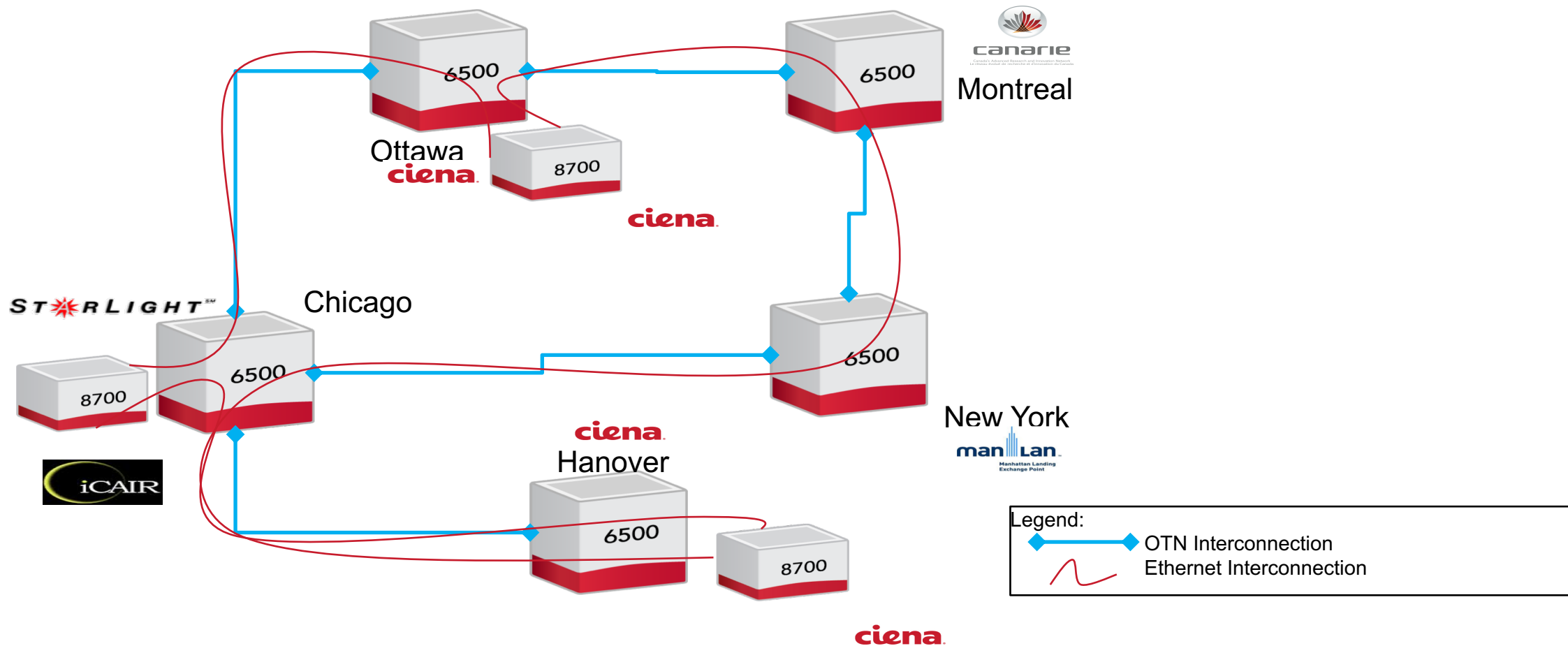
Rodney G. Wilson
Chief Technologist, Research Networks

make [transformation] **possible**

It starts with people.



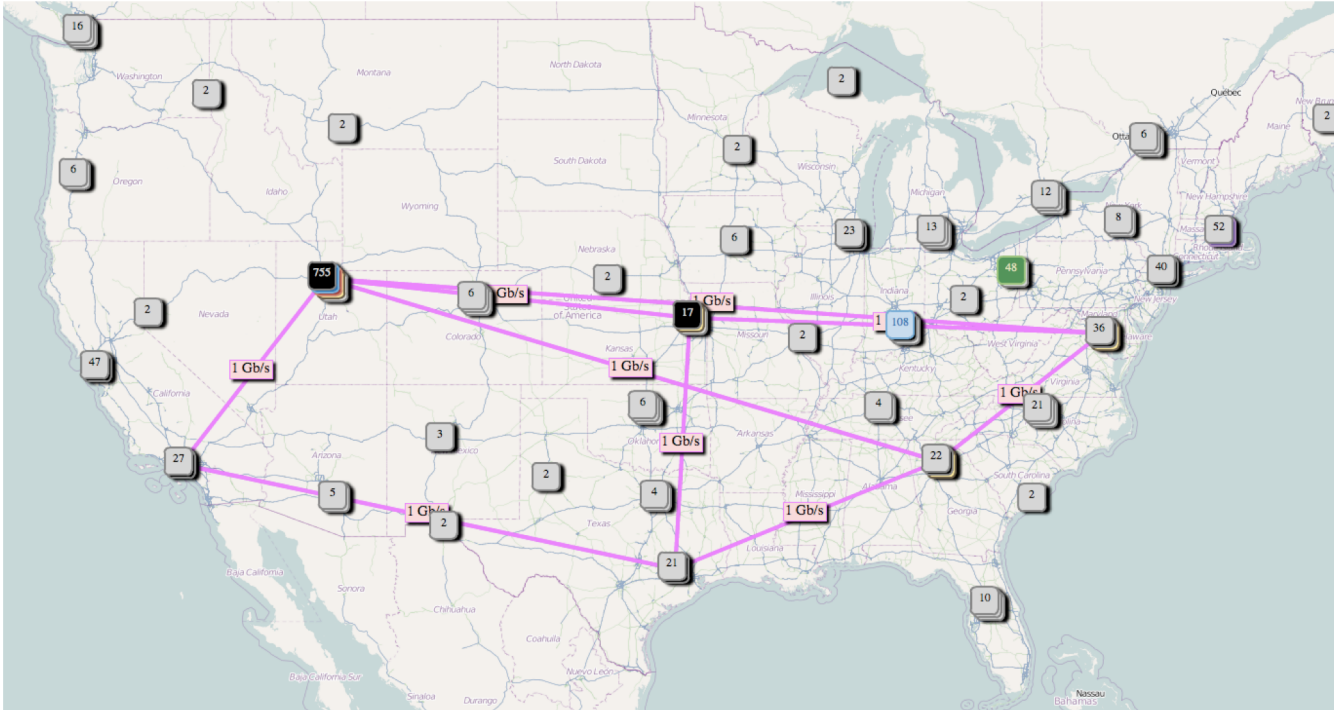
...and a willingness to advance networking.



Always on. Ability to do networking research on demand

...or fabulously exciting

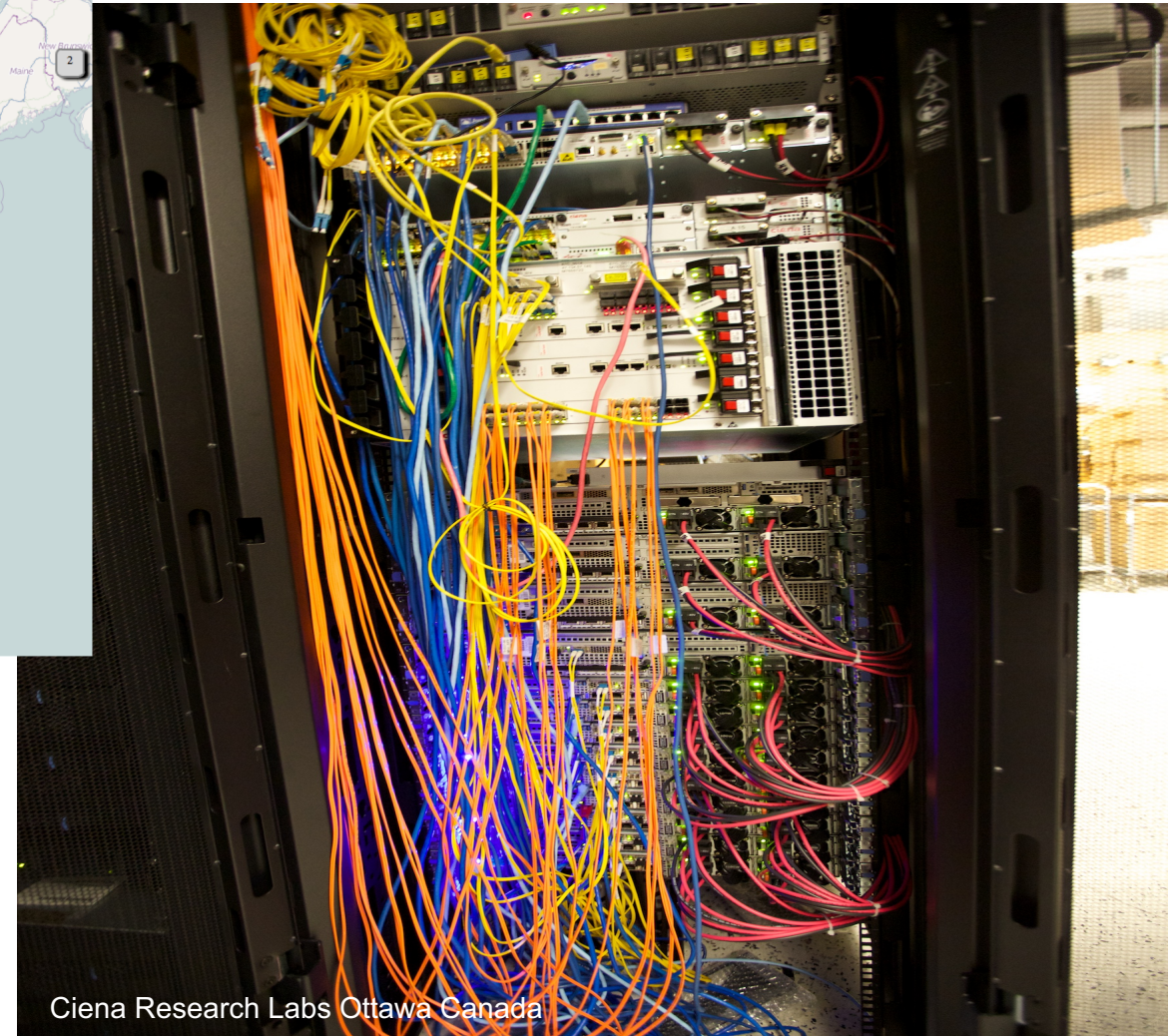
Federated with NSF GENI

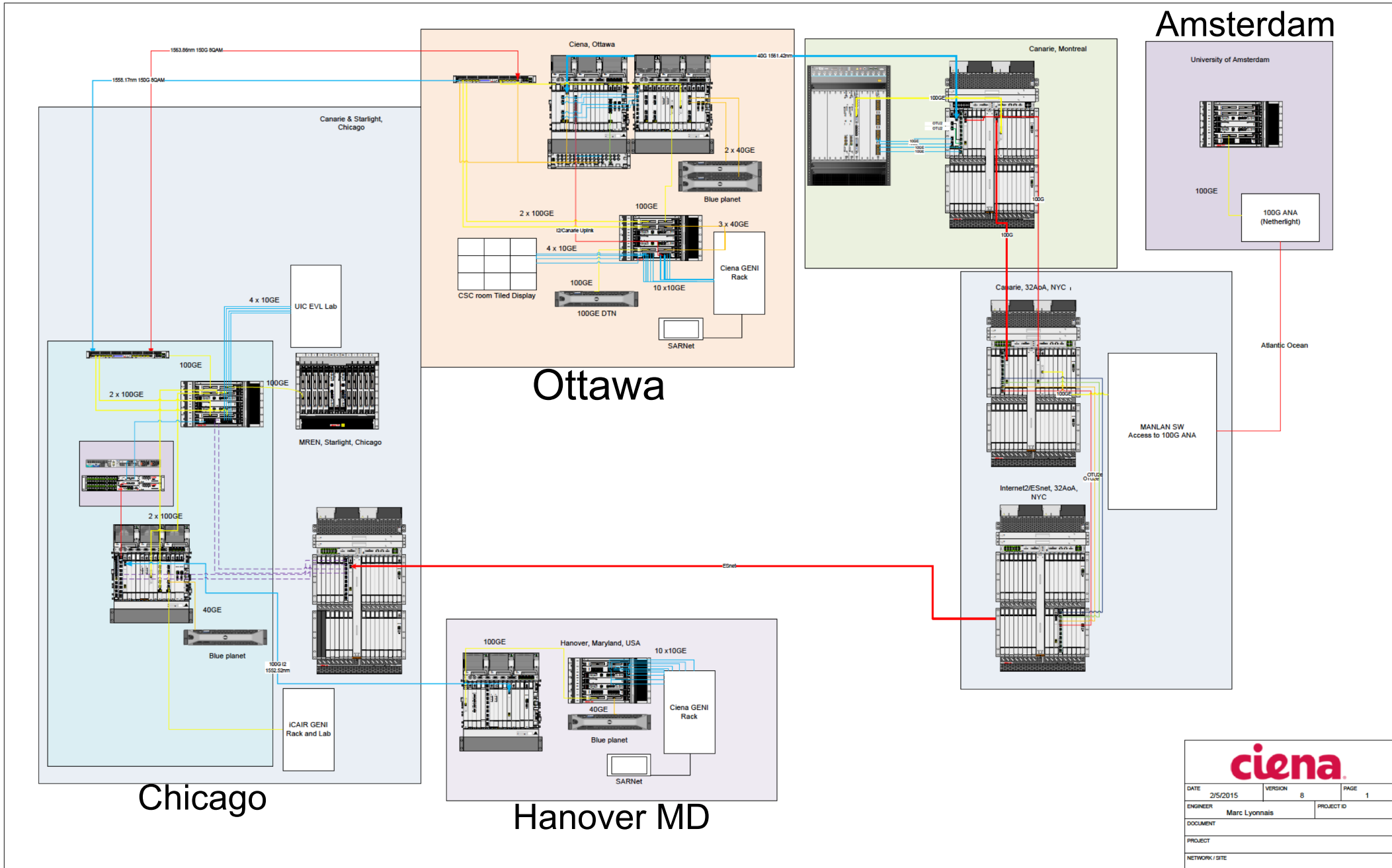


Multi-100GE DWDM SDN enabled 2Tb/s switching fabric



Ciena's modified exoGENI rack





ciena		
DATE	VERSION	PAGE
2/5/2015	8	1
ENGINEER	PROJECT ID	
Marc Lyonnais		
DOCUMENT		
PROJECT		
NETWORK / SITE		

Secure Autonomous Response Network

Software defined networking

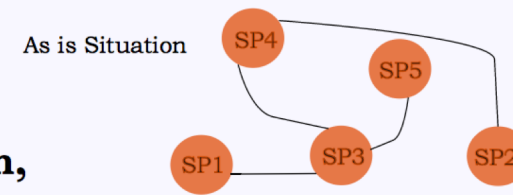
By using the latest techniques in Software Defined Networking and Network Function Virtualisation, a SARNET can use **advanced methods** to defend against cyber attacks and return the network to its normal state.

SARNET Alliance

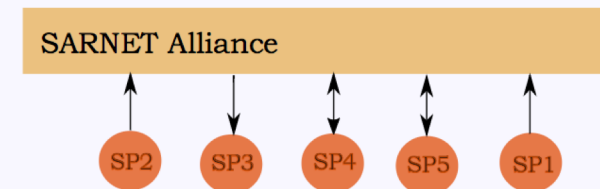
The **subject** of the SARNET alliance research is the value of **collaboration** between alliance members in terms of **risk reduction**, **cost benefit** and **revenue impact**.

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.



To be Situation



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