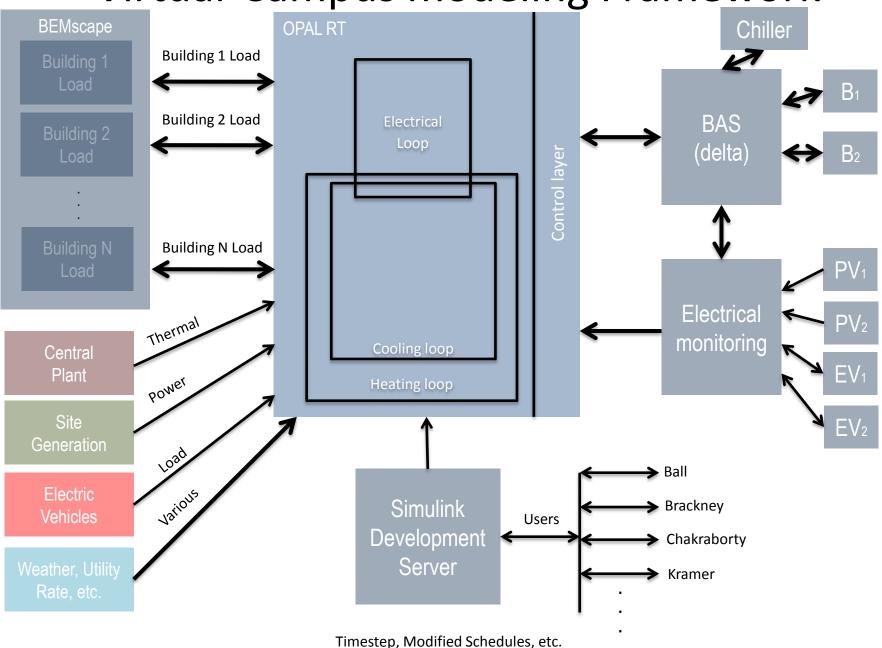


ESI Campus Modeling Platform

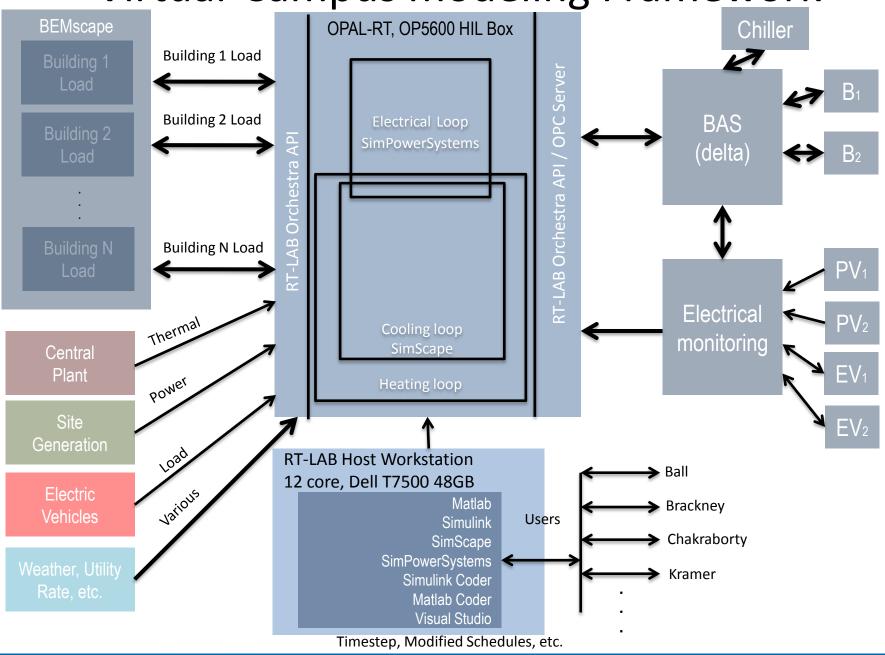


July 16, 2012

Virtual-Campus modeling Framework



Virtual-Campus modeling Framework



Virtual-Campus modeling cost

Required components

OPAL-RT Hardware

OP5600 HIL Box (6cores) \$13,147 Reconfig FPGA I/O system \$11,624

OPAL-RT Software

RT-Lab Host license \$10,063 RT-Lab HIL Target License(1core)\$22,217 RT-Lab Orchestra License \$4,448

OPAL-RT misc

Onsite training 2days \$2,649 Shipping & Handling \$1,995

OPAL-RT subtotal \$66,143

Possible Future Additions

RT-Lab OPC Server \$10,000 KepWare LinkMaster \$1,000 WonderWare Info Server Client ?? Extra I/O cards for HIL, Cables ?? Extra RT-Lab Target core licenses??

Option 1

Host Computer Hardware

Dell T7500 12core , 2.4GHz **\$9,000** 48 GB RAMM, 3 1TB RAID 5 HDs

Mathwork/Other Software

 MATLAB (x2)
 \$3,870

 Simulink (x2)
 \$5,850

 Simscape (x2)
 \$3,600

 SimPowerSystems (x1)
 \$2,700

 Simulink Coder (x1)
 \$2,925

 Matlab Coder (x1)
 \$5,850

 Visual Studio (x1)
 \$500

subtotal: **\$25,295**

Platform total: \$100,438

This option includes an extra Simulink/Simscape license for model Development off the Host workstation.

Option 2

Host Computer Hardware

Dell T7500 8core , 2.13GHz **\$6,000** 24 GB RAMM, 3 1TB RAID 5 HDs

Mathwork/Other Software

 MATLAB (x1)
 \$1,935

 Simulink (x1)
 \$2,925

 Simscape (x1)
 \$1,800

 SimPowerSystems (x1)
 \$2,700

 Simulink Coder (x1)
 \$2,925

 Matlab Coder (x1)
 \$5850

 Visual Studio (x1)
 \$500

subtotal: **\$18,635**

Platform total: \$90,778

This option includes only licenses for Host workstation and target HIL box. All model development done directly on The Host computer.