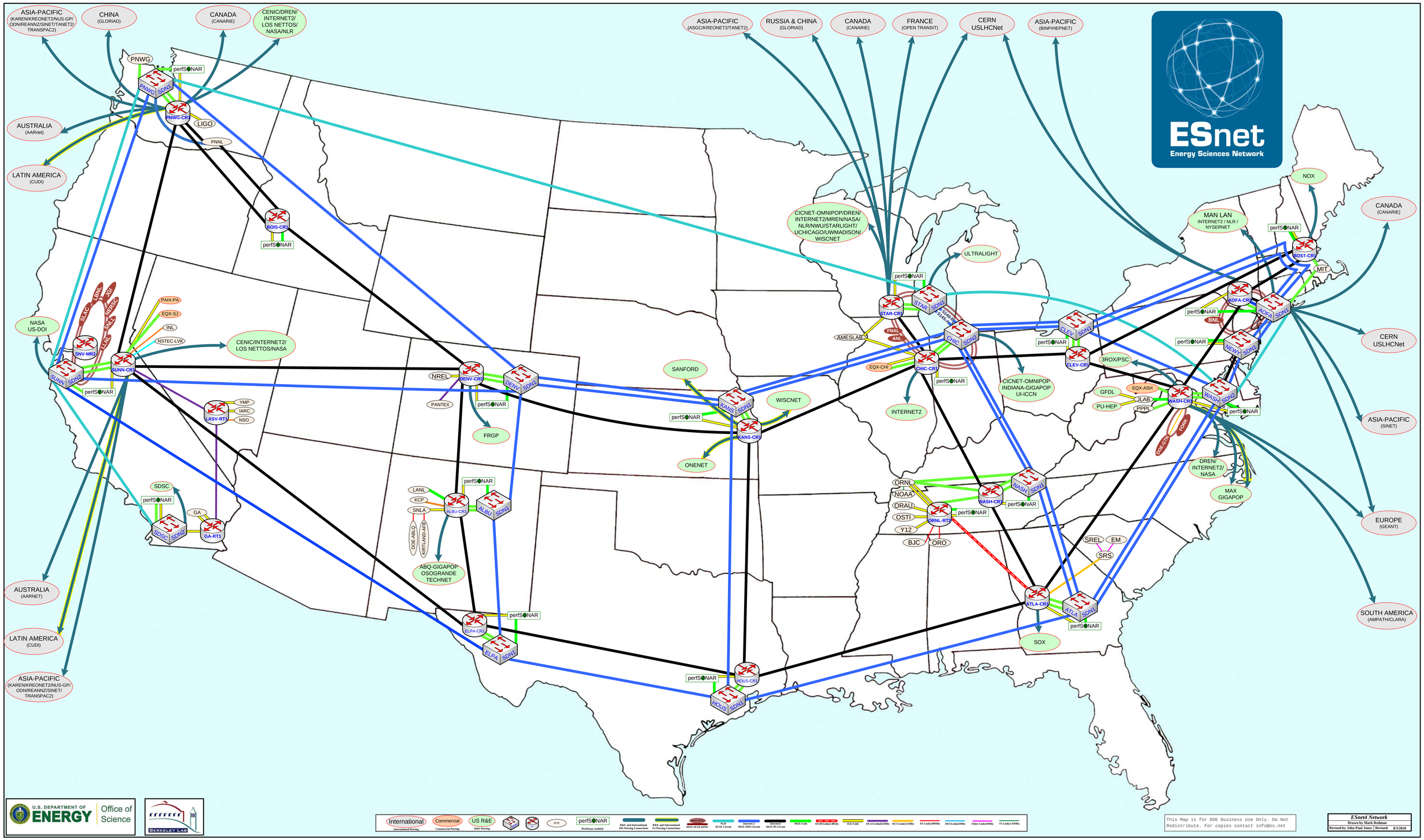
ESnet
Energy Sciences Network
ASIA-PACIFIC
(KAREN/KREONET2/NUS-GP/ ODN/REANNZ/SINET/TANET2/ TRANSPAC2)
CHINA
(GLORIAD)
CANADA
(CANARIE)
CENIC/DREN/ INTERNET2/ LOS NETTOS/ NASA/NLR
ASIA-PACIFIC
(ASGC/KREONET2/TANET2)
RUSSIA & CHINA
(GLORIAD)
CANADA
(CANARIE)
FRANCE
(OPEN TRANSIT)
CERN USLHCNet
ASIA-PACIFIC
(BINP/HEPNET)
PNWG
perfSONAR
PNWG-CR1
PNWG SDN1
LIGO
PNNL
AUSTRALIA
(AARnet)
LATIN AMERICA
(CUDI)
BOIS-CR1
perfSONAR
CICNET-OMNIPOP/DREN/ INTERNET2/MREN/NASA/ NLR/NWU/STARLIGHT/ UCHICAGO/UWMADISON/ WISCNET
ULTRALIGHT
perfSONAR
STAR-CR1
STAR SDN1
STAR-SDN2
STAR-SDN3
AMESLAB
FNAL
ANL
CHIC SDN2
CHIC-CR1
EQX-CHI
perfSONAR
CICNET-OMNIPOP INDIANA-GIGAPOP UI-CCN
INTERNET2
MAN LAN
INTERNET2 / NLR / NYSERNET
NOX
CANADA
(CANARIE)
perfSONAR
BOST-CR1
MIT
BOFA-CR1
AOFA SDN1
perfSONAR
BNL
CERN USLHCNet
CLEV SDN1
CLEV-CR1
perfSONAR
3ROX/PSC
perfSONAR
NEWY SDN1
NEWY-CR1
GFDL
EQX-ASH
PU-HEP
JLAB
PPPL
WASH-CR1
WASH SDN1
perfSONAR
ASIA-PACIFIC
(SINET)
NASA
US-DOI
SLAC
LBNL
JGI
NERSC
SNLL
LLNL
SNV-MR2
SUNN-CR1
SUNN SDN2
perfSONAR
PAIX-PA
EQX-SJ
INL
NSTEC-LVK
CENIC/INTERNET2/ LOS NETTOS/NASA
NREL
DENV-CR1
DENV SDN1
perfSONAR
PANTEX
FRGP
SANFORD
KANS SDN1
KANS-CR1
perfSONAR
WISCNET
ONENET
ASH-CR1
ESNET-SDN
ESNET-MAN
DOE-SSN
DREN/ INTERNET2/ NASA
MAX GIGAPOP
EUROPE
(GEANT)
SOUTH AMERICA
(AMPATH/CLARA)
SOX
ATLA-CR1
ATLA SDN1
perfSONAR
SREL
EM
SRS
ORNL
NOAA
ORAU
OSTI
Y12
BJC
ORO
ORNL-RT1
perfSONAR
NASH-CR1
NASH SDN1
perfSONAR
LASV-RT1
YMP
IARC
NSO
SDSC
perfSONAR
SDSC SDN2
GA
GA-RT1
LANL
KCP
SNLA
DOE-ALB
AIRTLAND-AFB
perfSONAR
ALBU-CR1
ALBU SDN1
ABQ-GIGAPOP
OSOGRANDE
TECHNET
perfSONAR
ELPA-CR1
ELPA SDN1
perfSONAR
HOUS-CR1
HOUS SDN1
AUSTRALIA
(AARNET)
LATIN AMERICA
(CUDI)
ASIA-PACIFIC
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U.S. DEPARTMENT OF ENERGY
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Commercial Peering
US R&E
R&E Peering
SITE
perfSONAR
PerfSonar enabled
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MAN 10 GE RING
NLR 10 GE Circuit
Internet2 10GE-SDN-Circuit
Internet2 10GE-IP-Circuit
10GE-Link
OC48 Link(2.4Gb)
1GE-Link
OC12 Link(622Mb)
OC3 Link(155Mb)
FE-Link(100Mb)
DS3-Link(45Mb)
Ether-Link(10Mb)
T1-Link(1.45Mb)
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ESnet4 Network
Drawn by Mark Redman
Revised by John Paul Jones | Revised: 8/3/2010