Community Engagement: The Campus Internet2 NET+ Connection
Internet2 NET+ Service Provider Ecosystem

- Infrastructure-as-a-Service
- Software-as-a-Service
- Communications-as-a-Service
- Other Services

Logos of various companies including:
- HP
- Shi
- Merit
- Aastra
- Duo
- Box
- Dell
- Level(3)
- SDG
- CenturyLink
- Duraspace
- Adobe
- Microsoft
- Cenic
- Desire2Learn
Internet2 NET+ Portfolio Growth

One year ago, Internet2 NET+ was announced with 2 services and 13 participating campuses

Six months ago, there were 20 services and 23 participating campuses

Today, there are 29 services and 87 participating campuses…
Internet2 NET+ Portfolio Growth

...plus service trials already underway means over 150 campuses now involved in Internet2 NET+!
Internet2 NET+ Portfolio Growth

Regional Partners Program extends the benefits of Internet2 NET+ services to more communities

A new Global Partners Program to follow in the near future
Internet2 NET+ service lifecycle

Research Incubator
Research-driven activity incubates very early stage solutions and technical concepts

Evaluation
Internet2, service provider and university study offering to determine if it is suitable

Service Validation
Sponsor, group of universities work with service provider, Internet2 to define service
Internet2 NET+ service lifecycle

Early Adopter

Universities begin using the service and work with Internet2 and provider to further develop it.

General Availability

The Internet2 NET+ service is open to all eligible universities.

Quarterly Advisory Board meetings continue to inform the service roadmap.
Internet2 NET+ Canvas

Area: IaaS/PaaS
Solution: Open learning management system
Provider: Instructure
Sponsor: University of Washington

Next Steps
Open to early adopters on November 1, 2012

Status
• SV Participation Full
• Pricing finalized
• SAML2 implementation complete
• Technical integrations with other NET+ services being scoped
• Documentation being developed

Service Validation

INSTRUCTURE

canvas
Service Validation

**Status**
- SV Participation Open
- Business model being developed
- Legal agreement review
- Technical and functional validation beginning

**Next Steps**
Service Validation kick-off meeting in October 2012
Area: SaaS
Solution: Cloud-based email, conferencing, sharing, and Office Web Apps
Provider: Microsoft
Sponsor: Colorado State University & University of Florida

Service Validation

Status
- SV Participation Full
- Standard agreement under review
- BAA complete
- InCommon integration being scoped

Next Steps
Technical, functional validation continues; SharePoint community to exchange best practices, use cases will be established
Internet2 NET+ LectureTools

Area: SaaS
Solution: Platform for in-class instruction that compliments LMS solutions with tools for student engagement, particularly in large lecture classes
Provider: LectureTools
Sponsor: University of Michigan

Service Validation

Status
• SV Participation Open

Next Steps
Service validation kick-off in October, 2012
Area: SaaS
Solution: Collects, indexes and analyzes machine data
Provider: Splunk Inc.
Sponsor: University of Utah

Internet2 NET+ Splunk

Service Validation

Status
• SV Participation Full
• Business model being developed
• Legal agreement review
• Technical and functional validation beginning

Next Steps
Service Validation kick-off meeting in October 2012
Internet2 NET+ Vidyo

Area: CaaS
Solution: Video conferencing and personal telepresence
Provider: Vidyo
Sponsor: Arizona State University

Service Validation

Status
- SV Participation Open
- Business model and pricing being developed
- Legal agreement review
- InCommon integration underway

Next Steps
Technical and functional validation continues; Early Adopters Q1 2013
Internet2 NET+ VCL Services

Area: IaaS
Solution: Open source “Virtual Computing Lab” services (cycles and management) for the Internet2 community
Provider: NCSU and IBM
Sponsor: George Mason University

Status
- Participation is open

Next Steps
Service Validation kick-off in October 2012
Internet2 NET+ ICE Dental

Area: SaaS
Solution: Dental system for higher education
Provider: ICE Health Systems
Sponsor: University of Michigan

Service Validation

Status
- SV Participation Closed
- Kick-off on September 21, 2012

Next Steps
All-day retreat in November to do a gap analysis and build roadmap for the service validation effort
Internet2 NET+ eContent

Area: Other Services
Solution: Pilot series to evaluate technology and business models as textbooks evolve from paper to electronic form
Provider: Several
Sponsor: N/A

Evaluation

Status
• 27 universities engaged in Fall 2012 Pilot
• Kick-off on September 21, 2012

Next Steps
Spring 2013 Pilot enrollment open this week—multiple options
Internet2 NET+ eduroam!

Area: IaaS/PaaS
Solution: International solution for guest access to wireless networks on participating campuses
Provider: Anyroam LLC
Sponsor: University of Tennessee, Knoxville

Status
• Service is open to Internet2 members at NO COST
• Signups for early adopters can begin immediately
• Email netplus-eduroam@internet2.edu

Next Steps
Internet2 will move forward to General Availability by end of year.
Area: IaaS
Solutions: (1) Dell Cloud VMware® datacenter
(2) Dell Community HPC
(3) Dell Big Data as a Service

Status
- First two in Service Validation, BDaaS in Evaluation
- Open for Participants
It’s the community that makes it grow!
Internet2 Campus Members are NET+

**Campus Members:**

- Identify challenges they need solved
- Start *Research* and exploration
- *Evaluate* proposed solutions
- Partner with commercial providers
- *Sponsor* Service Validation phase
- Participate in collaboration to facilitate *Adoption*
- Work with Internet2, Participating Campuses, and Providers to decide when services are ready for *General Availability*
NET+ Service Progression Expectations

- Research Incubator: Higher percentage of experimentation and early shutdown before reaching Service Validation
- Evaluation: Higher percentage of production usage and likelihood of General Availability
- Service Validation
- Early Adopter
- General Availability
So what does a NET+ Campus look like?
Sharing Specialization with the Community

- Long standing relationship with provider
- Deep expertise with a product
- Seat at the table to design roadmap going forward

Sponsored SV Adobe Connect
Trial GA Box
Subscribed GA Comodo Cert
Setting the Path for the Future

- Strategic project to evaluate cloud offerings
- Focus on campus-wide solutions
- Partnership with peers to create solution for functional community

Charter Member Internet2 NET+
Participated in SV Box
Sponsoring SV ICE Dental
Subscribed Comodo Cert
Setting the Direction

- Goal to play lead role in design phase
- Join larger campuses to partner on solution design

Participated In SV Box
Sponsoring SV ICE Dental
Subscribed Comodo Cert
Participated In GA Trial Box
Participated in Eval eContent
Subscribing GA Comodo Certs

- Commitment to cloud strategy
- Engagement of campus in exploring options
- Sharing results with the community
Solving a Problem Once for Many – RFP

- Needed a solution in a specific area, developed RFP
- Approached Internet2 about benefits of expanding service at scale
Community Participation
150+ schools in Internet2 NET+ program
What’s a campus to do? **Start now!**

1. Create a campus strategy for internal & external cloud services.

2. Shift from a culture of central or departmental to one of sharing, reuse, and value added differentiation.

3. Evaluate NET+ opportunities. Examine your own portfolios and consider which projects could benefit from NET+ scale.
What’s a campus to do? **Start now!**

1. Develop a campus identity solution built on open standards. Join the 300+ campuses in InCommon.org.

2. Support competition for services so there are choices—but *constrained*, not *unlimited* choices.

3. Develop positions that focus on Cloud Product Management: Create new or reposition existing positions to get started.
What’s a campus to do? **Start now!**

Create a “cloud first” culture by partnering with your legal and procurement teams. Restructure internal processes and policies with cloud in mind.
Internet2 NET+ Can Help You Get There!

Thomas Trappler: Leading Author, Speaker, Trainer, Cloud Computing: Negotiations, Vendor, and Risk Management

Monthly Webinars: “Contracting for Internet2 NET+ Services"

- Webinars no cost to any Internet2 campus
- Additional in-person trainings for procurement legal and technology teams on request.
- Special discount for any NET+ campuses for upcoming 10/29–10/30 Washington DC training
- Email netplus-training@internet2.edu
Internet2 NET+ Impact

**Generally Available Services**
- Over one million accounts
- Hundreds of thousands of certificates
- Minimal administration
- All tailored to the unique needs of research and education

**Commercial Value of Over $400 Million**
- For community investment of $4 million
Higher Education Islands

"They built HUTS! We must build huts."

"Fire, fire, we need FIRE!"

"SWINGS! They've built SWINGS! We're gonna need Swings."

Building Solutions Together

Internet2NET+ 2012 Vince Cannon