



GakuNin experience

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Eko-Konnnect Repository Workshop and eduID Policy meeting, 27 Jan 2020



GakuNin

GakuNin History

2008

- Feasibility Study
- Connection using test account

2009

- Pilot Operation
- Connection using real account under campus policies

2010

- Production Operation
- Production operation with real account and service

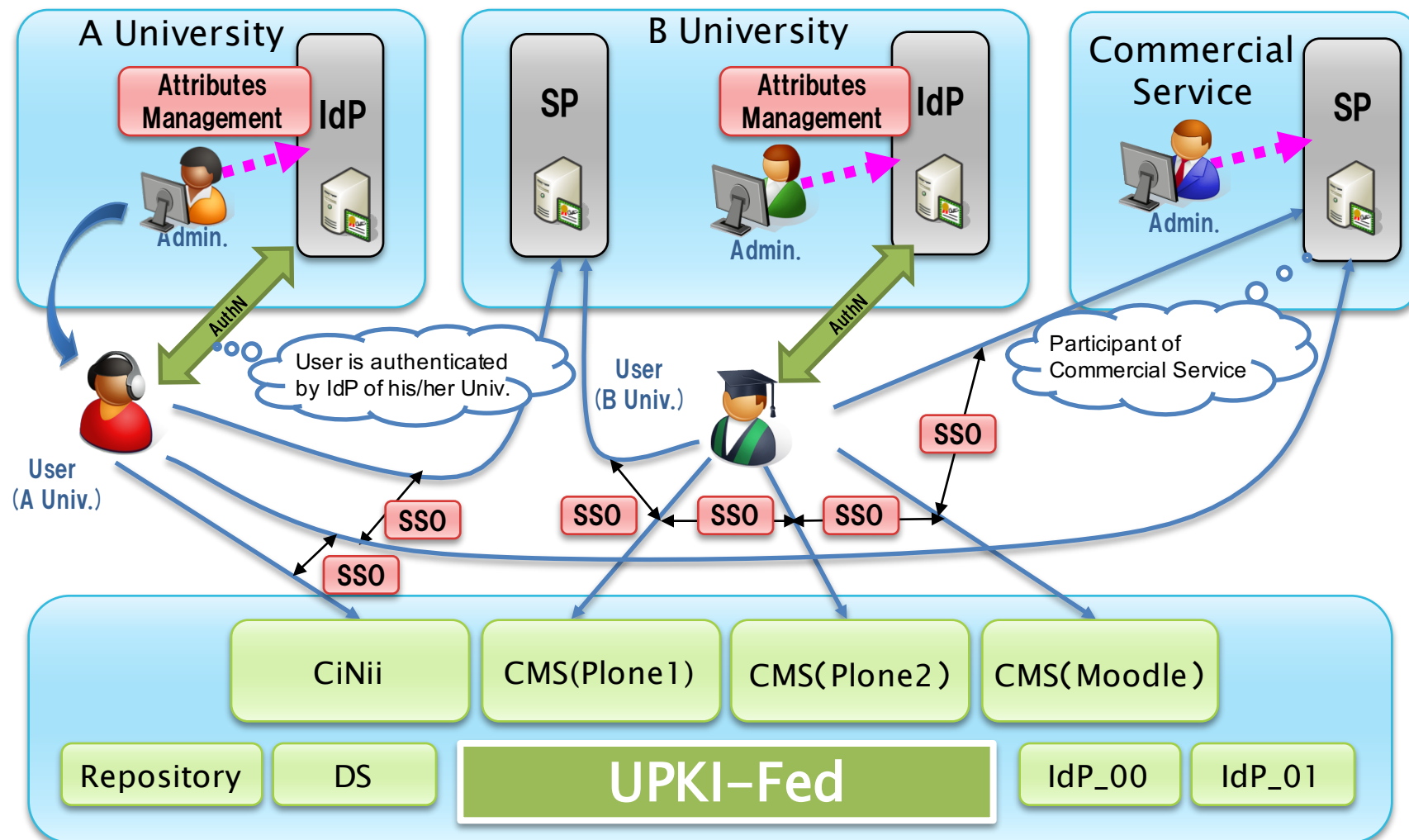
2020

- Production Operation ten year

2008 Feasibility Study: What we did

- ▶ Preparation
 - ▶ Setup documents
 - ▶ VMWare Image for IdP
 - ▶ test-bed including DS, repository (see next slide)
- ▶ Explanatory meeting
 - ▶ Ask to attend both IT people and librarians from each institutes
- ▶ Development
 - ▶ setup test SP
 - ▶ support institutes to setup IdP, SP
 - ▶ metadata distribution
 - ▶ feasibility test instruction
 - ▶ share information by wiki, mailing-list, mail magazine
- ▶ Participants meeting
 - ▶ report status from all institutions
- ▶ Preparation for next step
 - ▶ discussion and development of policy for pilot operation

2008 Feasibility Study: System Environment

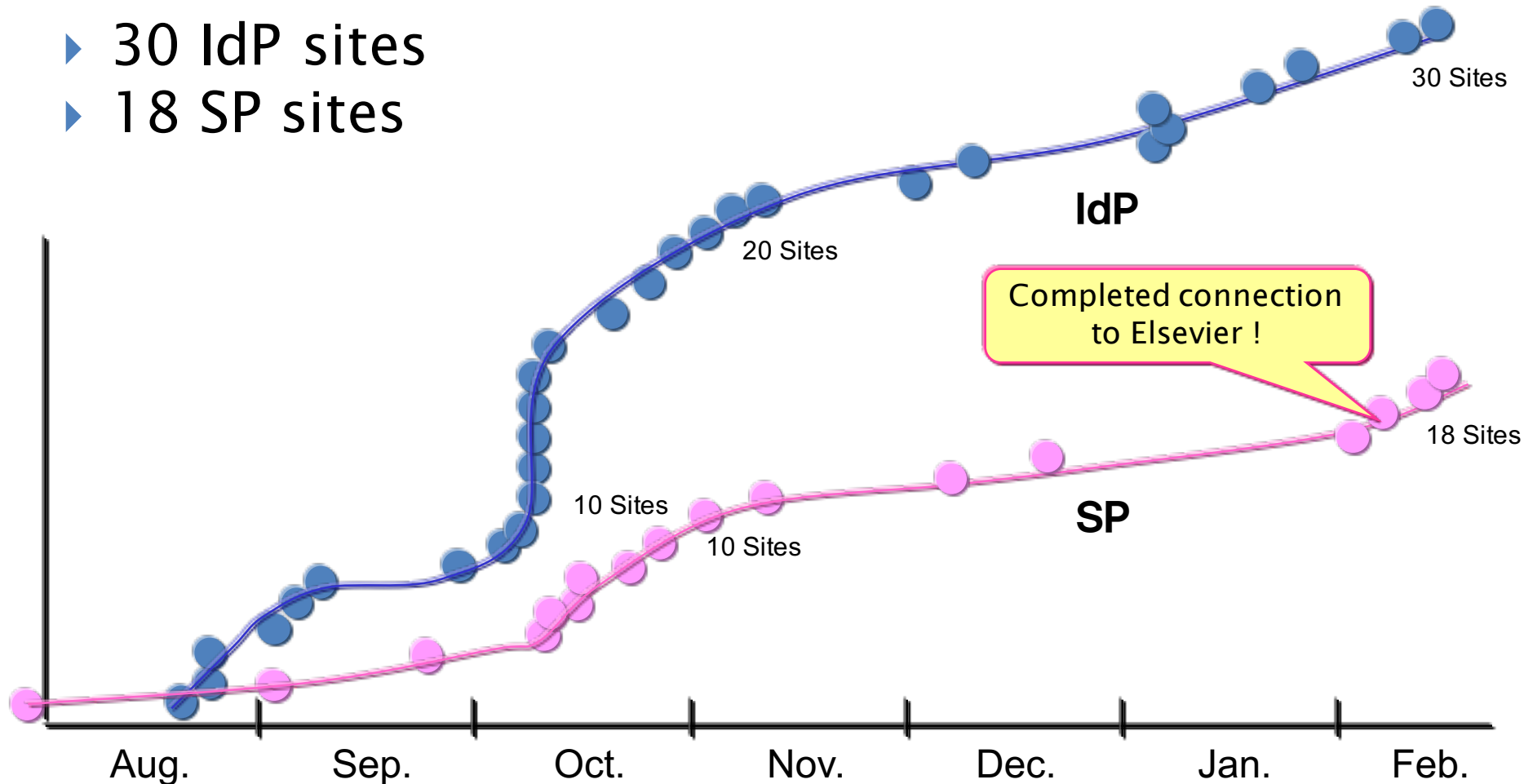




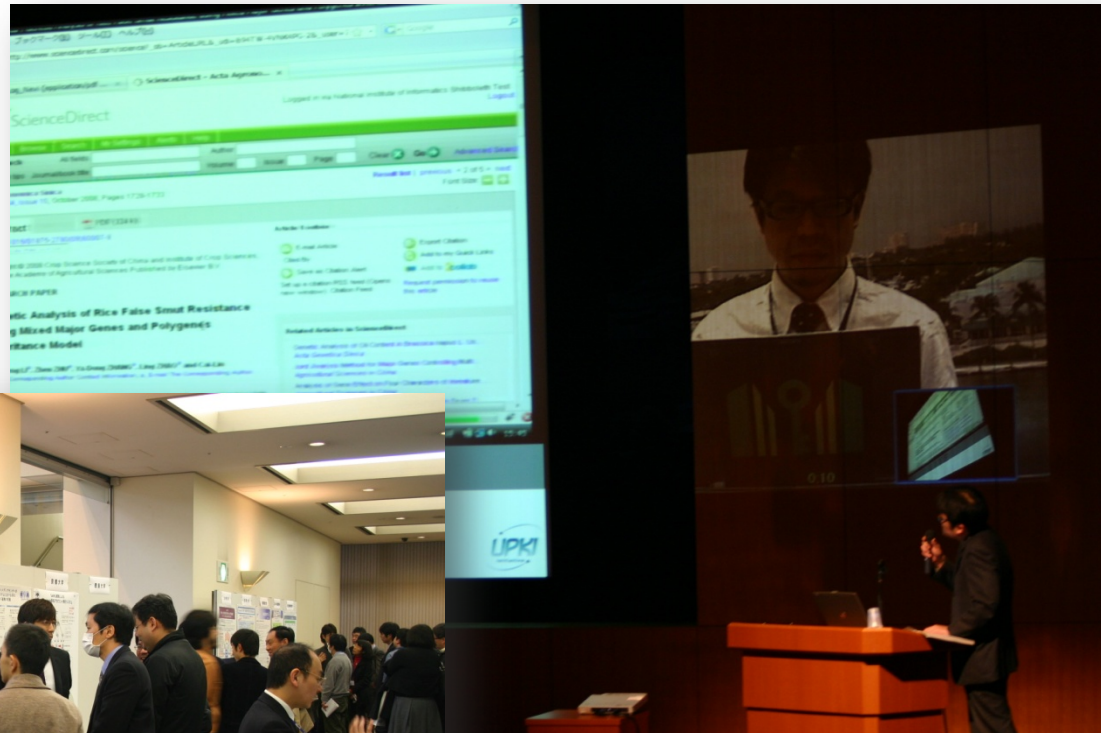
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2008 Feasibility Study: Participants

- ▶ 27 Institutions
- ▶ 30 IdP sites
- ▶ 18 SP sites



2008 Feasibility Study: UPKI Symposium (February 23, 2009)





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2009 Pilot Operation: What we did

- ▶ Documents
 - ▶ Federation Policy, System Specification
- ▶ Event and Training
 - ▶ IdP and SP implementation
 - ▶ Discussion among IT people and Librarians
- ▶ Recruiting
 - ▶ IdP: University, College
 - ▶ SP: Major Publishers, Domestic Services

Test Federation

IdPs provides test account

Repository

DS

SPs from academic and
commercial side



requirement



Practical Federation

IdPs provides with real account

Repository

DS

SPs from academic and
commercial side

2009 Pilot Operation: 16 Attributes

Name

mail

sn

o

ou

givenName

displayName

OIDs

0.9.2342.19200300.100.1.3

2.5.4.4

2.5.4.10

2.5.4.11

2.5.4.42

2.16.840.1.113730.3.1.241

Name

eduPersonAffiliation

eduPersonPrincipalName

eduPersonEntitlement

eduPersonScopedAffiliation

eduPersonTargetedID

eduPerson OIDs

1.3.6.1.4.1.5923.1.1.1.1

1.3.6.1.4.1.5923.1.1.1.6

1.3.6.1.4.1.5923.1.1.1.7

1.3.6.1.4.1.5923.1.1.1.9

1.3.6.1.4.1.5923.1.1.1.10

Name

jasn

jaGivenName

jaDisplayName

jao

jaou

UPKI-Fed OIDs

1.3.6.1.4.1.32264.1.1.1

1.3.6.1.4.1.32264.1.1.2

1.3.6.1.4.1.32264.1.1.3

1.3.6.1.4.1.32264.1.1.4

1.3.6.1.4.1.32264.1.1.5

2 bytes
Japanese
Characters

2009 Pilot Operation: Communicating with Major SPs

- ▶ Practical Federation
 - ▶ Elsevier: Science Direct and SCOPUS
- ▶ Test Federation (connecting test)
 - ▶ Refworks
 - ▶ Thomson Web of Knowledge and EndNote Web
 - ▶ Springer SpringerLink
 - ▶ LWW/Ovid OvidSP
 - ▶ NII CiNii
 - ▶ ...

Difficulties

Need to ask to modify the SP setup which is practically operating

2009 Pilot Operation: Communicating with IdPs and Domestic SPs

- ▶ IdPs
 - ▶ Benefit to University Manager, IT section and Libraries
 - ▶ Prepared GakuNin Case Study by getting experience from early adaptors
 - ▶ From test IdP to practical IdP
 - ▶ Facilitate “consensus building effort” among the institution
- ▶ Domestic SPs
 - ▶ IdP first? or SP first? The chicken and the egg



So far

1. Obtain number of test IdPs in feasibility study
2. Communicate with major overseas SPs

Future

3. Facilitate to operate practical IdPs
4. Recruits domestic SPs



Produce Positive Feedback



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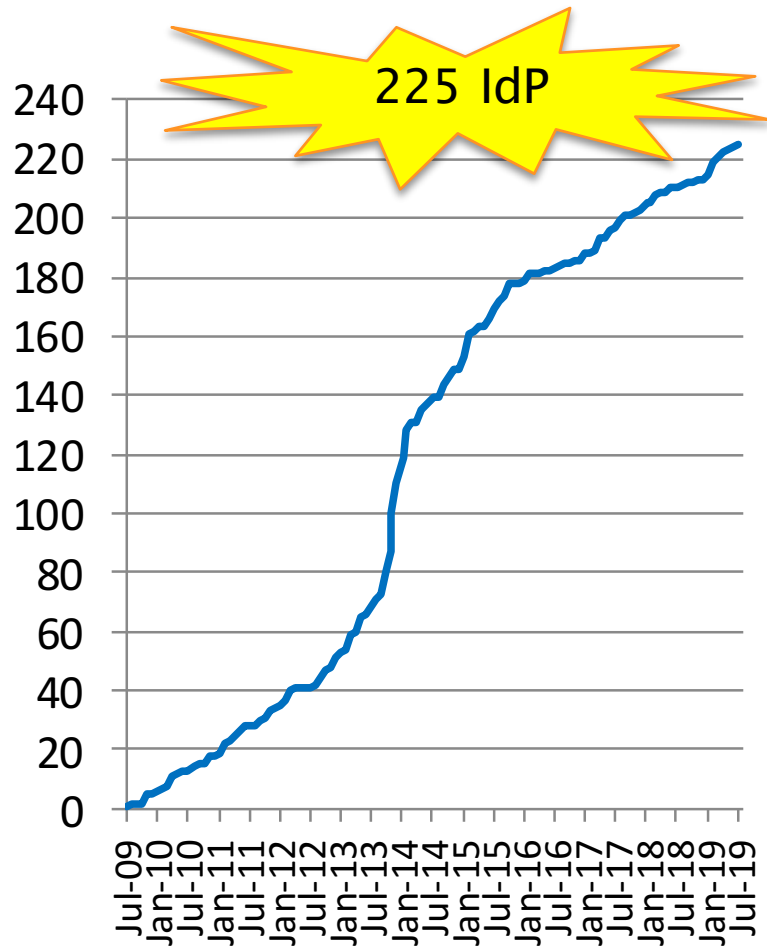
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2020

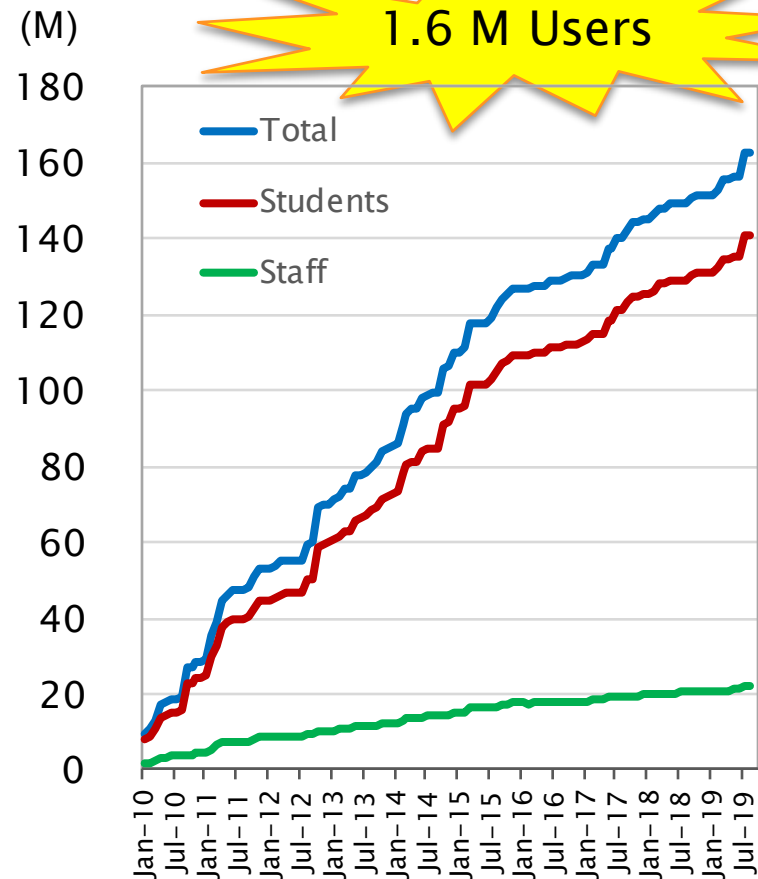
- Production Operation ten year

Number of IdPs (As of Sep 2019)

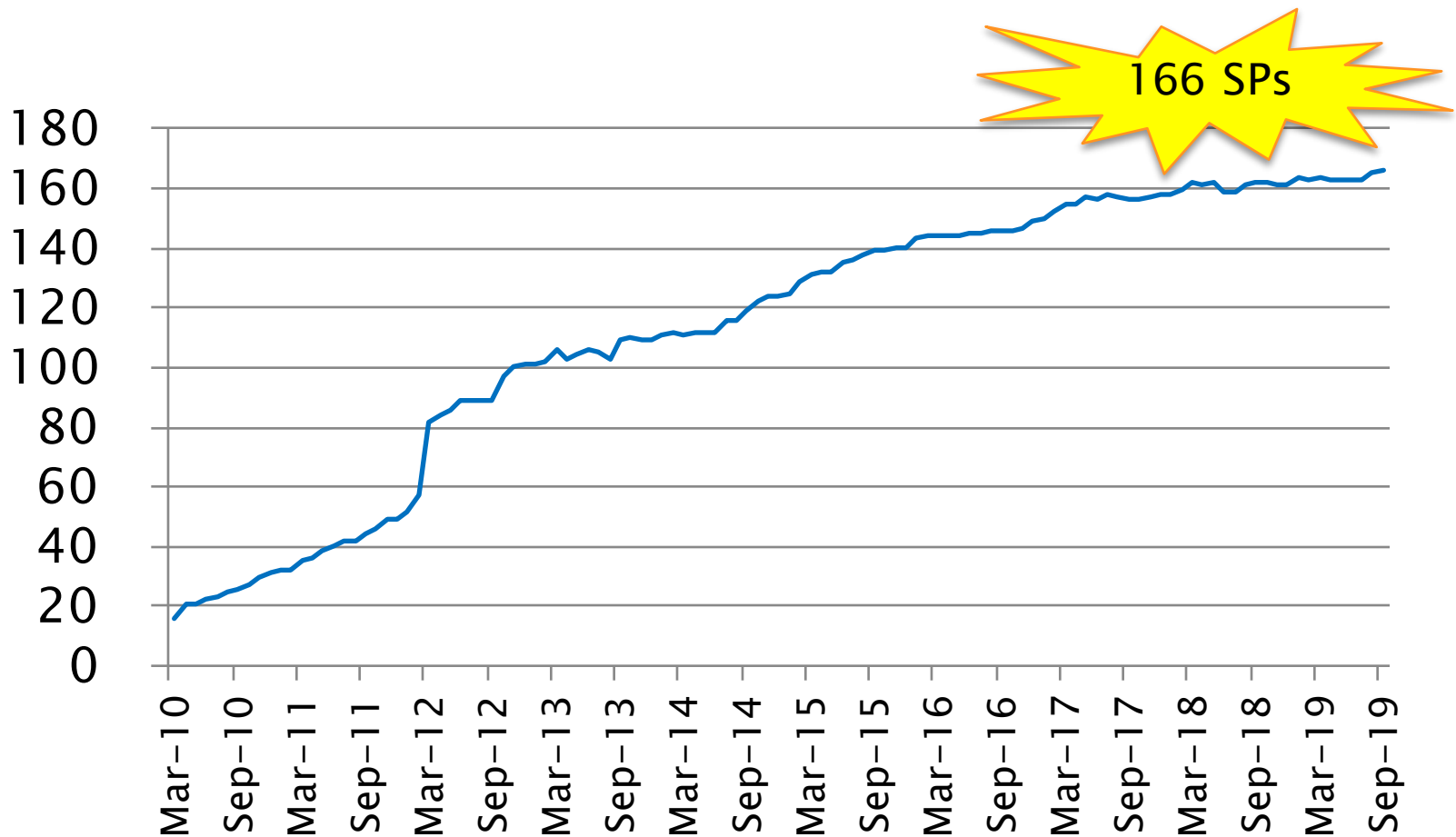
Number of Institutions



Number of Users



Number of SPs (As of Sep 2019)



Service List: E-Journal

Elsevier Science Direct	Elsevier SCOPUS
SpringerLink	Thomson Reuters Web of Knowledge
Ovid SP	ProQuest RefWorks
ProQuest RefWorks	ProQuest ebrary
Cambridge Journals Online	Atlases Pathology Images
Kenkyu-sya: KOD	NII: CiNii
EBSCO: EBSCO host	IEEE Xplore
Serials Solutions: 360 Search, 360 Link, Electronic Journal Portal	
IOP science	Royal Society of Chemistry RSC Publishing
S.Karger AG	BioOne
American Society of Clinical Oncology	American Society of Nephrology
BMJ Journals	Biologists.com Journals
Disaster Medicine and Public Health Preparedness	Journal Watch: Medical Journals and Research Articles
Journal of Bone and Joint	Duke University Press Journals
Lyell Collection: Geological Society Publications Online	Journals of the Royal College of Psychiatrists
Oxford Medicine	Oxford Journals
OxfordServices	Royal Society Publishing
RSM Press	Rockefeller University Press journals
SAGE Journals	Annual Reviews
Cengage Learning	Emerald
Sunmedia PierOnline (UniBio Press)	NII-REO

GakuNin has a collaboration with JUSTICE

- ▶ Japan Alliance of University Library Consortia for E-Resources
 - ▶ The highest priority mission is to negotiate consortium licensing agreements with publishers.

To member institutions of the Japan Alliance of University Library Consortia for E-Resources (JUSTICE)

Month Date, Year
Revised: Month Date, Year

Proposer [Name of Publisher]

Contract for: [Name of product for proposal]
[Period of Contract (example: 2014-2016)]

Form for Proposal to JUSTICE Consortium

▶ **Participation to archiving projects (required):**
Specify whether you are participating in any archiving preservation projects such as CLOCKSS and Portico.

▶ **Shibboleth authentication (required):**
Answer either 'Yes' or 'No' as to whether your system supports Shibboleth authentication. If support for Shibboleth authentication is under preparation or consideration, please describe specifically.

▶ **GakuNin (required):**
Answer either 'Yes' or 'No' as to whether your system supports GakuNin. If support for GakuNin is under preparation or consideration, please describe specifically. For further information on GakuNin, see <https://www.gakunin.jp/ja/>.



Service List: Education, Research and Collaboration

Microsoft: DreamSpark

UQ communications mobile WiMAX campus

NII FaMCUs (MCU for Video Conferencing)

NII FShare (File Sharing Service)

NII WebELS (Web-based e-Learning System)

GakuNin Registration System

NII meatwiki

Kanazawa Univ File Transfer Service

Kanazawa Univ ARCADE

Saga Univ Opengate

UNINETT, Foodle

Atware: Schedule Tool

JST ReaD&Researchmap

NII Eduroam-Shib (Temporary eduroam account issuing)

NII Research Cloud(Gunnii, tinii, colonii)

NII edubase Cloud

NII GakuNin mAP

NII meatmail

Kanazawa Univ Opens non-Bibliographic Contents Service

Yamagata Univ Research wiki

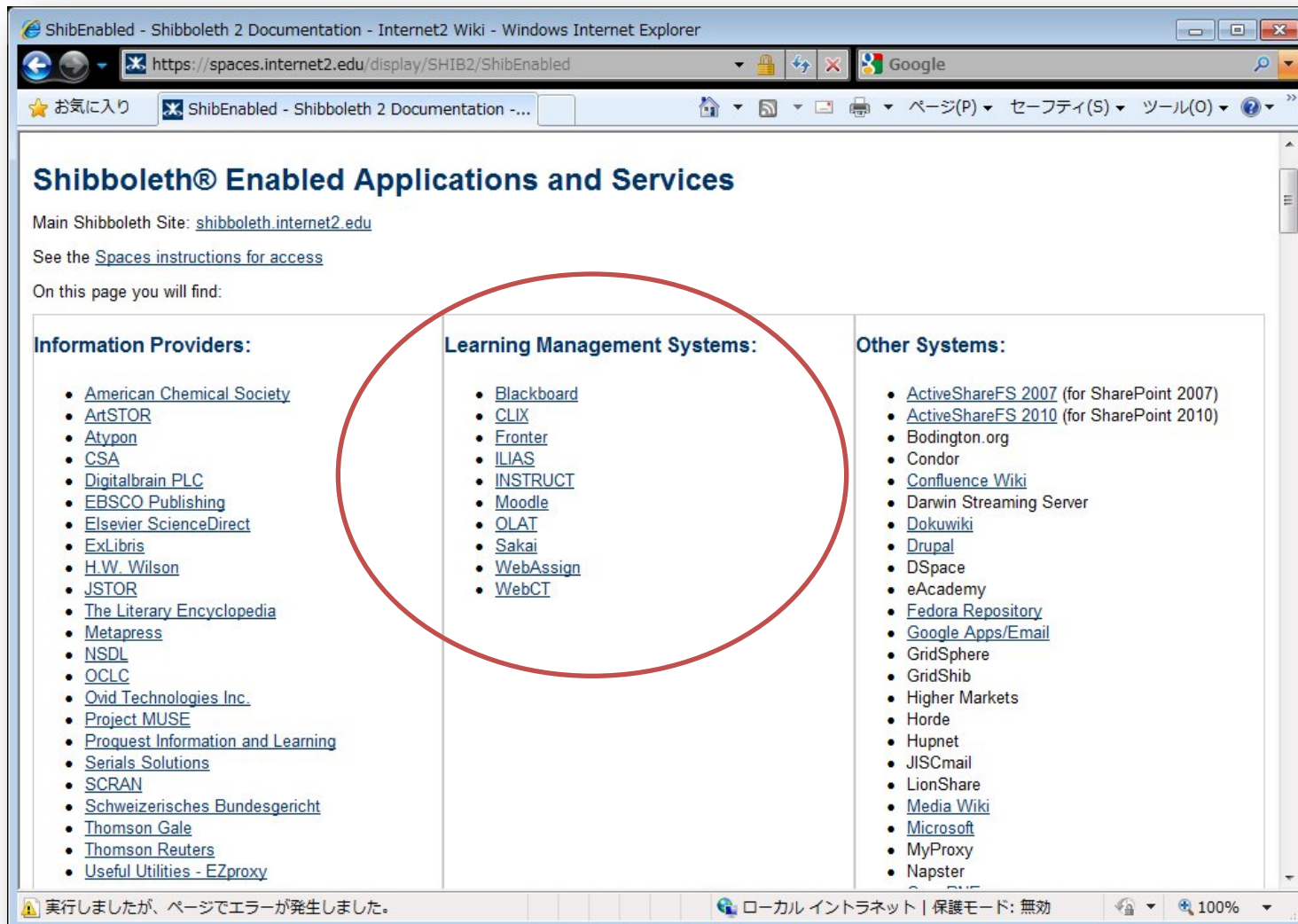
Hiroshima Univ HINET wlan guest service

E-learning and ID federation

- ▶ Some of local e-learning consortiums are now employ GakuNin federation in order to realize their credit transfer more scalable and reliable.
- ▶ University Consortium Ishikawa (20 Univ)
- ▶ The Consortium of Universities in Kyoto (50 Univ)
- ▶ E-Knowledge Consortium Shikoku (8 Univ)
- ▶ Cyber Campus Consortium TIES (83 Univ)
- ▶ Etc.



Federation (SAML) Ready LMS



ShibEnabled - Shibboleth 2 Documentation - Internet2 Wiki - Windows Internet Explorer

https://spaces.internet2.edu/display/SHIB2/ShibEnabled

お気に入り ShibEnabled - Shibboleth 2 Documentation - ...

Shibboleth® Enabled Applications and Services

Main Shibboleth Site: shibboleth.internet2.edu

See the [Spaces instructions for access](#)

On this page you will find:

Information Providers:	Learning Management Systems:	Other Systems:
<ul style="list-style-type: none"> American Chemical Society ArtSTOR Atypon CSA Digitalbrain PLC EBSCO Publishing Elsevier ScienceDirect ExLibris H.W. Wilson JSTOR The Literary Encyclopedia Metapress NSDL OCLC Ovid Technologies Inc. Project MUSE Proquest Information and Learning Serials Solutions SCRAN Schweizerisches Bundesgericht Thomson Gale Thomson Reuters Useful Utilities - EZproxy 	<ul style="list-style-type: none"> Blackboard CLIX Frontier ILIAS INSTRUCT Moodle OLAT Sakai WebAssign WebCT 	<ul style="list-style-type: none"> ActiveShareFS 2007 (for SharePoint 2007) ActiveShareFS 2010 (for SharePoint 2010) Bodington.org Condor Confluence Wiki Darwin Streaming Server Dokuwiki Drupal DSpace eAcademy Fedora Repository Google Apps/Email GridSphere GridShib Higher Markets Horde Hupnet JISCmail LionShare Media Wiki Microsoft MyProxy Napster

実行しましたが、ページでエラーが発生しました。

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100%

NII Security Learning SP

- ▶ Platform: Planning to offered by the NII service
- ▶ Contents: based on the Princes of Ethics originally developed by the Gunma University

Faculty, Staff, Student



Security Learning System
By Moodle



Feed back records to
the University



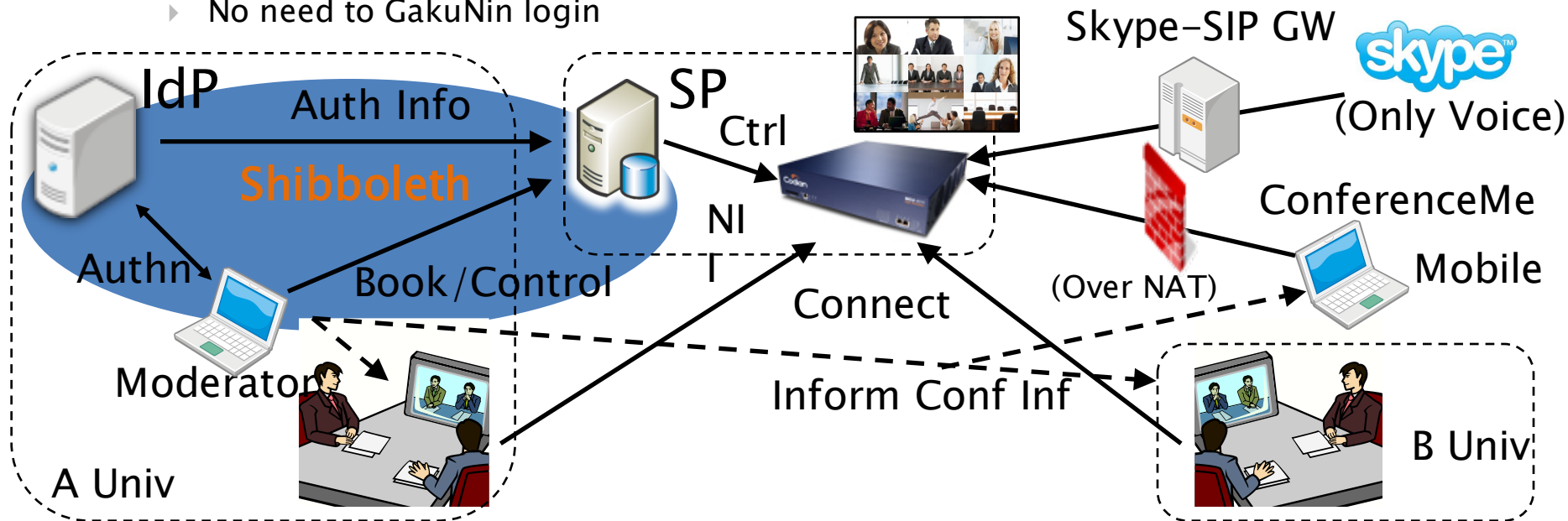
Each individual University don't have to develop the similar service



GakuNin

TV Conference System

- ▶ MCU (Multi Point Control Unit)
 - ▶ Tandberg Codian MCU 4512 (12 Connect)
 - ▶ Polycom RMX 2000 (12 Connect)
 - ▶ Will come from Kyoto University and Osaka University
- ▶ GakuNin Utility
 - ▶ Reservation
 - ▶ Staff and Faculty member can make the TV conference reservation
 - ▶ TV conference access
 - ▶ No need to GakuNin login



However
NO
Killer Service
for
Researchers



but **Now** we have



GakuNin RDM



RCOS
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