

Korean Access Federation; 2017' Update

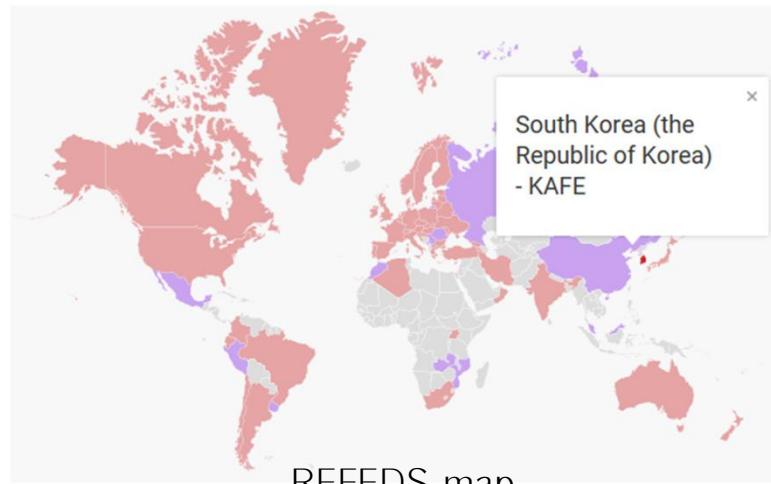
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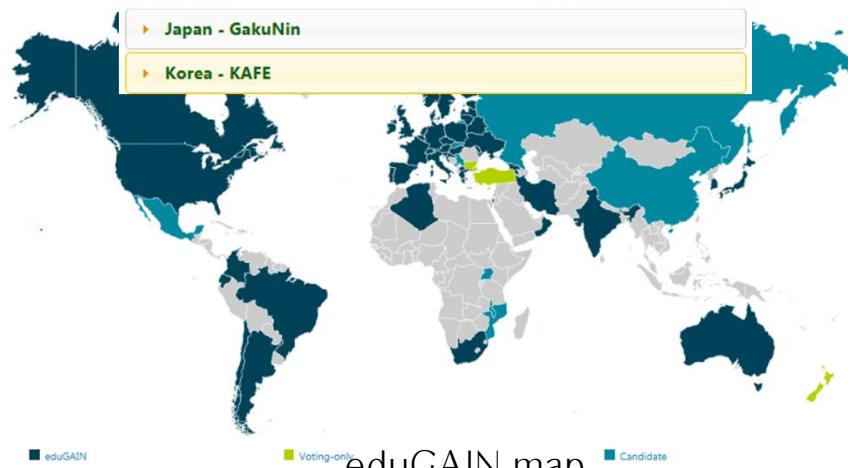
IAM-KR Meeting/KREONET WS, 2017

KAFE 소개

- ID Federation Initiative in Korea(2016~)
 - PoC 학습(2014-15')
 - 정책(1 main, 2 profiles) 수립 및 파일럿(2016)
 - eduGAIN 정회원 자격 확보(2016, 12; 2nd in Asia)
 - 테스트/프로덕션 페더레이션 유지
 - 프로덕션(2017 ~)
- 한국과학기술정보연구원에서 관리/운영(3.5 FTE)
- 국내 연구/교육기관 및 R&ED 응용서비스 대상



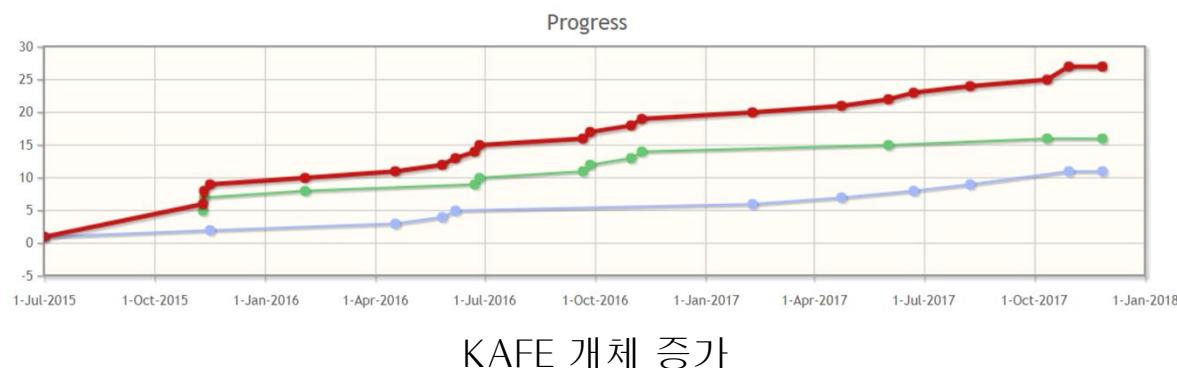
(<https://refeds.org/federations/federations-map>)



(<https://technical.edugain.org/status.php>)

2017 Update #1

- 서비스규모 확대(40개체/eduGAIN 포함)
 - 18 KAFE 개체(2016말) → 27 개체(2017말)
 - 테스트 페더레이션 기준
 - 13 eduGAIN SP 제공(0 IdP)
 - 총 1,772 중 250여 서비스 허용
(KAFE metadata import policy 적용),
13 서비스 제공
 - CERN, LIGO, TERENA SP, Openstack VM,
Textmining 응용 등



2017 Update #1 (Contd.)

- # of IAM-enabled users: 5만(현재 기준)
 - DGIST, POSTECH, GIST, UNIST, KOREATech, UST, CNU, KISTI 등 10개 IdP 참여
 - NTIS (National Science & Technology Information Service) 가입 중: 총 18만 예상(12월 기준)
 - 서울대 의대 진행 중
- SP 진행 상황
 - EDISON next, KIRD e-learning
 - <https://coreen.kreonet.net/collaboration> 참조



2017 Update #2

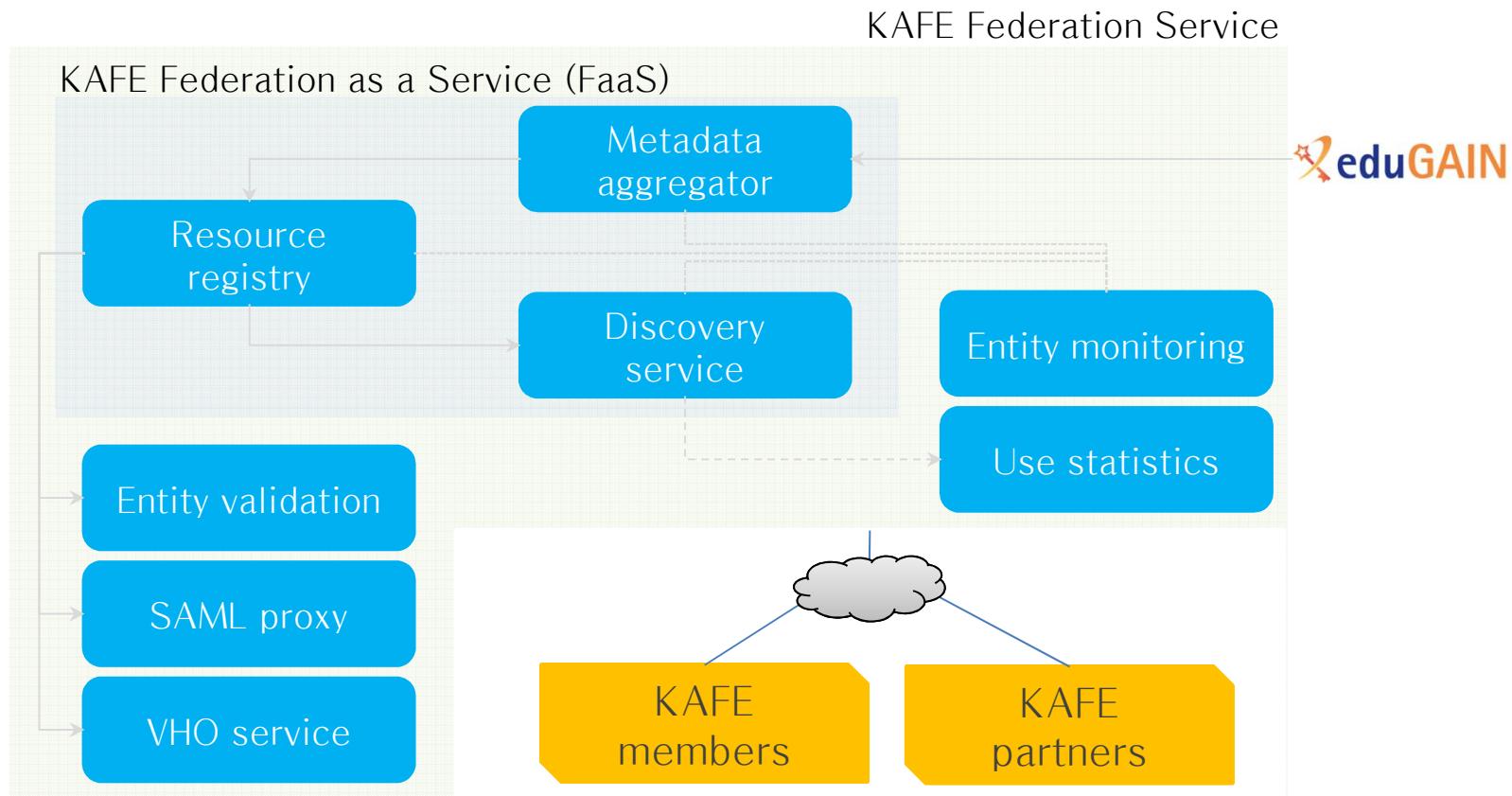
- 페더레이션 시스템 개발
 - Federation as a Service (Discovery Service, Metadata Registry, Metadata Aggregation)
 - Use Statistics, Entity Monitoring, Entity Validation, User Consent 등

The collage displays several user interface components related to the development of a Federation as a Service system:

- LOGIN to COREEN Teatime:** A dashboard showing user statistics (e.g., 26.5% ID by KAFE, 34.0% COREEN PMS) and a list of Identity Providers with access.
- User Information:** A page for managing user details, including fields for User ID, Display name, Organization name, Mail, and Persistent pseudonymous ID.
- FED INFO:** A landing page for the Federation Information System, featuring a logo and a brief description in Korean.
- KAFE Test IDP:** A registration form for creating a test Identity Provider, requiring fields such as Username, Password, Confirm Password, Name, Surname, Gender, Email, Organization name, and Organization type.

2017 System Arch.

- Missing part
 - Attribute Authority (e.g., grouper)



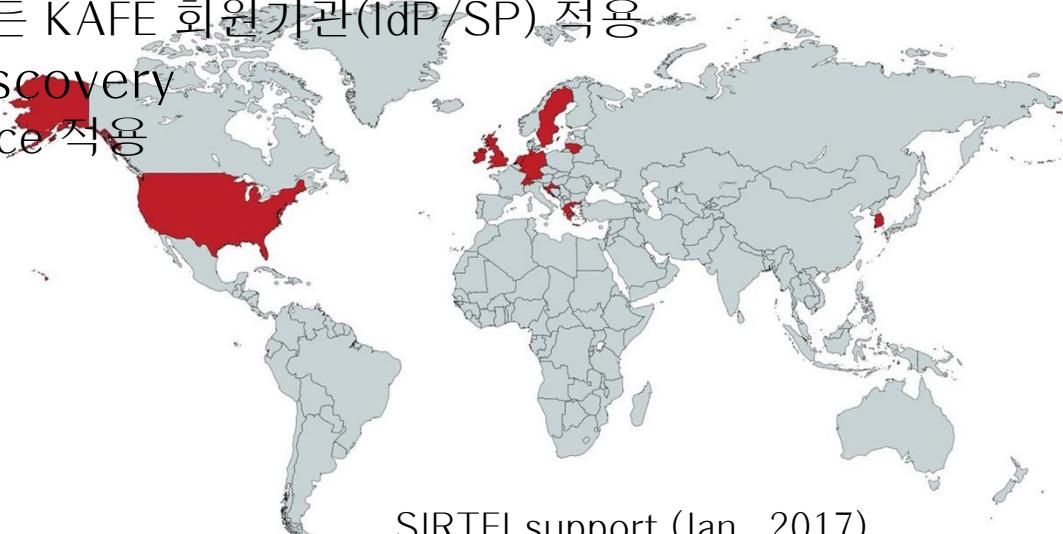
2017 Update #2 (Contd.)

- 부가기술 개발
 - 2FA module for simpleSAMLphp (SAML 소프트웨어)
 - Google authenticator (OTP)
 - Standalone & User-configurable
 - MFA profile 지원
 - KAFE ID Management
 - 비가입기관 구성원을 위한 VHO 서비스
 - 2FA enabled, Persistent ID 지원 등 Assurance level 향상
 - Life-cycle management
- 응용서비스 업데이트
 - eduroam AND(Guest IdP), ownCloud(클라우드 스토리지)



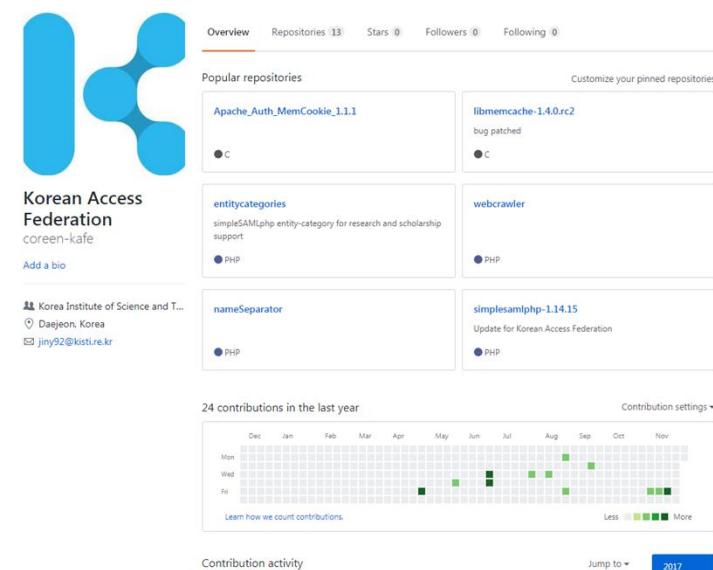
2017 Update #3

- Category/Profile support for interoperability/compliance
 - REFEDS Research and Scholarship
 - 모든 KAFE 회원기관(IdP) 적용
 - REFEDS SIRTFI(보안사고 대응프레임워크)
 - 모든 KAFE→eduGAIN 회원기관(IdP) 적용
 - REFEDS MFA Profile
 - KAFE ID Management(VHO) 대상 적용 진행 중
 - KAFE SP JURISDICTION
 - 정보통신망법 준용, 모든 KAFE 회원기관(IdP/SP) 적용
 - REFEDS Hide from Discovery
 - KAFE Discovery Service 적용



2017 Update #4

- KAFE Candidates Support
 - KAFE IdP Installer
(구성완료 1분 이하 소요/서버업데이트 제외)
 - simpleSAMLphp 기반 IdP 환경 구성 자동화
 - Interoperability with Shibboleth
 - KAFE Policy & 국가 법령 준용
 - SQL/LDAP DB 연동 지원
 - KAFE SP Integration 지원
 - simpleSAMLphp 및 Shibboleth
 - Spring security SAML ext.
 - Apache Proxying
- <https://github.com/coreen-kafe>를 통해 일부 패키지 배포



2018 To-Do List

- LoA baseline profile 수립
 - NIST, SWAMID, 관련 법령 및 지침 반영
- Steering committee 구성
- SAML proxying 프로토타입 시스템 개발
- Science/Library application 참여 확대