MyAcademicID

Connecting services, building trust, empowering students

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MyAcademicID is/has been all about

- Outlining mobility related use cases
- Agreeing on the specficiations of the ESI
- Defining how the ESI can be best transported from A to B
- Building a first bridge with the citizen eID eIDAS
- Designing a single interface for authenticating students
- Implementing the authentication interface on some of the use cases

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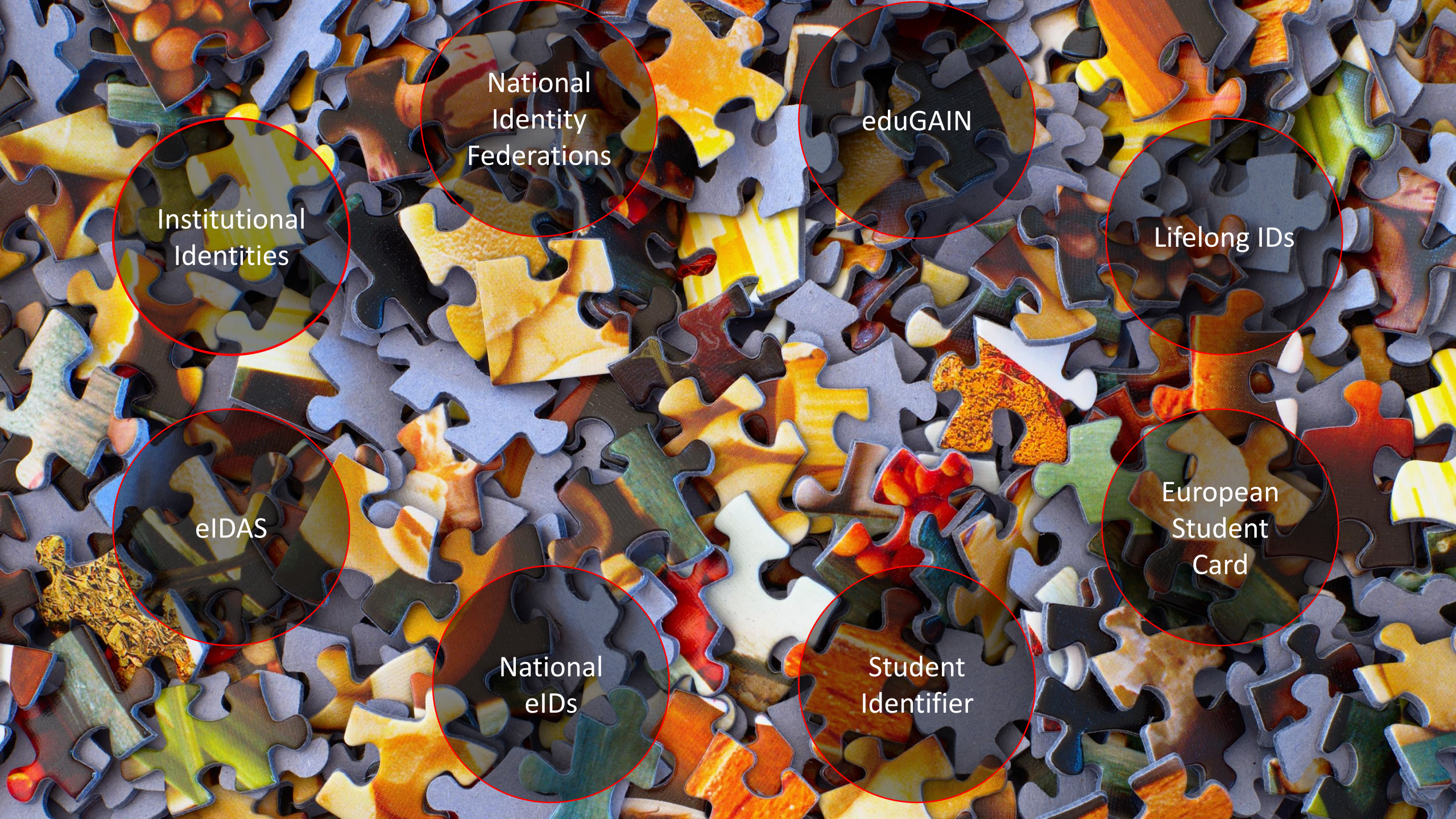
After numerous technical meetings on…


National Identity Federations
eduGAIN
Institutional Identities
Lifelong IDs
eIDAS
European Student Card
National eIDs
Student Identifier

GÉANT
Networks • Services • People

30 May 2017

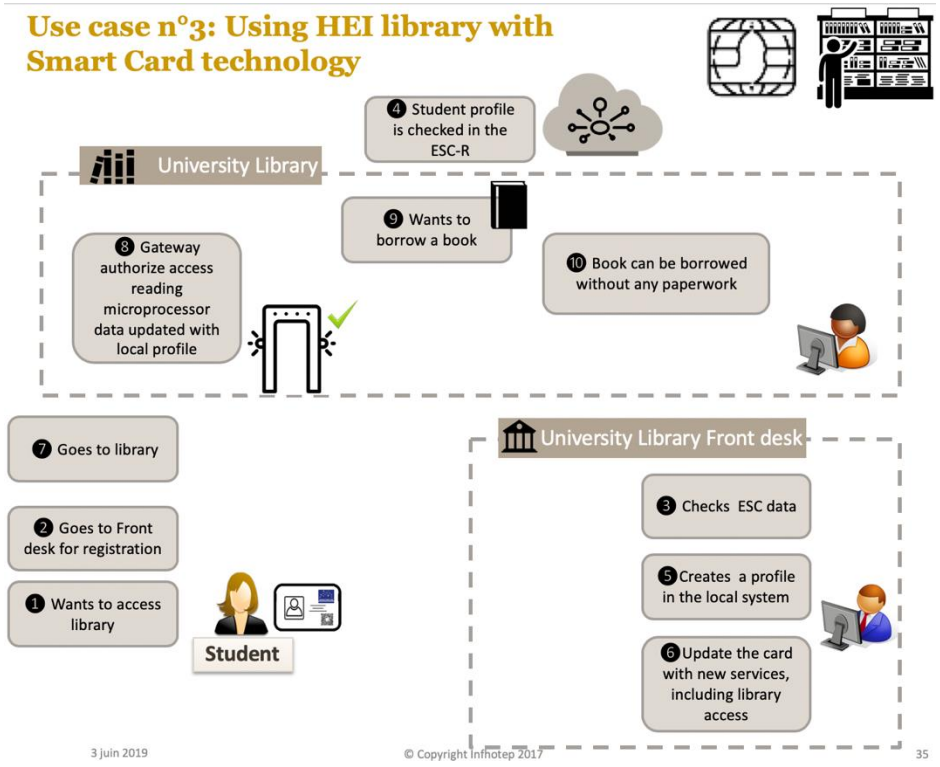
eduGAIN - eIDAS Comparison

European Commission

Feasibility Study on Cross-border Use of eID and Authentication Services (eIDAS compliant) to support Student Mobility and Access to Student Services in Europe

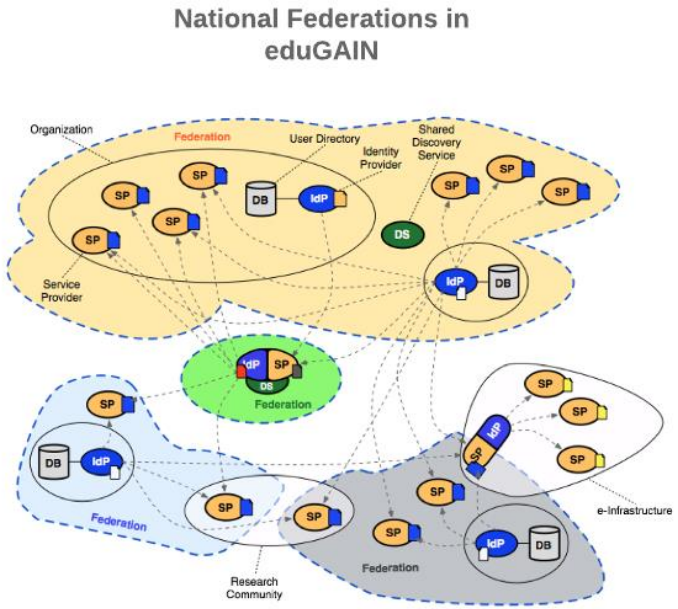
Identification & Authentication

THE EUROPEAN STUDENT CARD

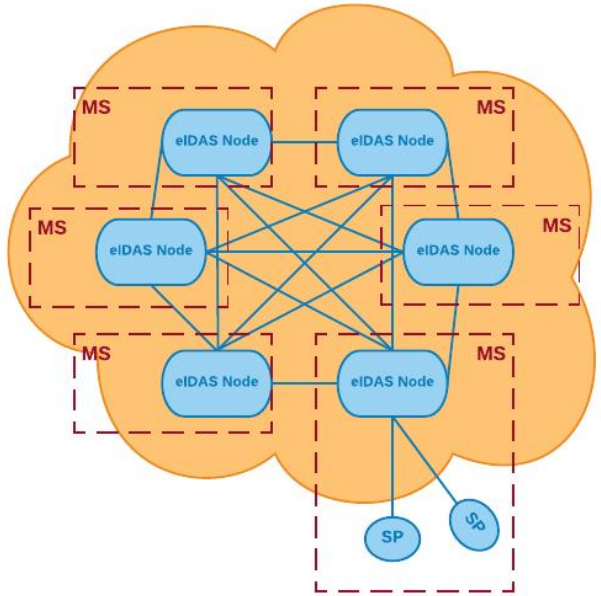


eduGAIN

InAcademia
ONLINE STUDENT VALIDATION



eIDAS



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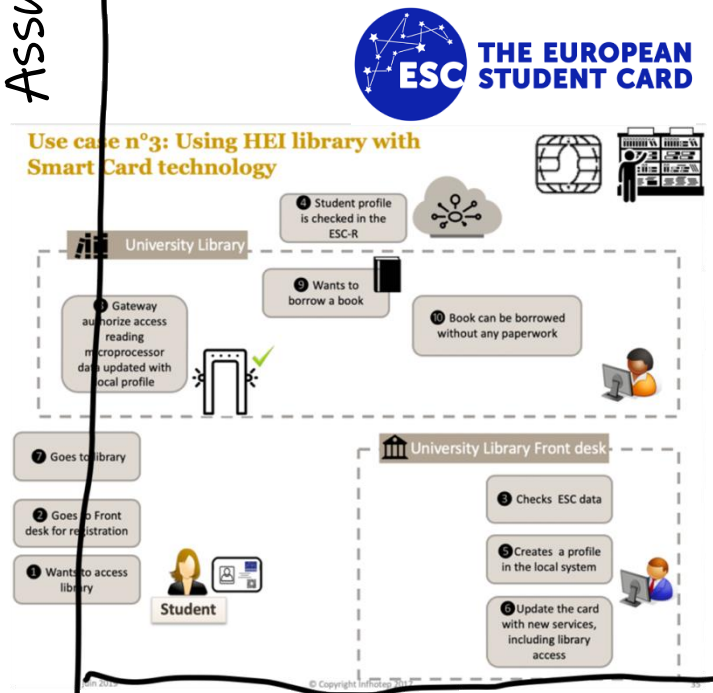
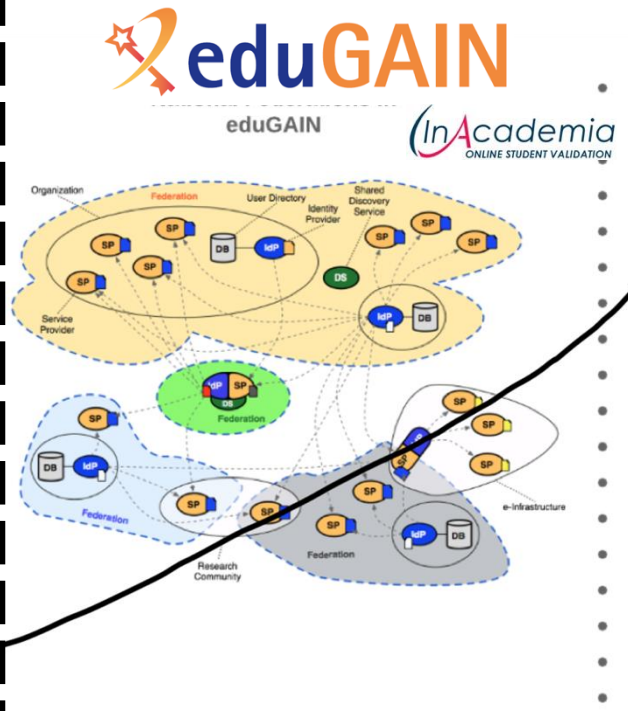
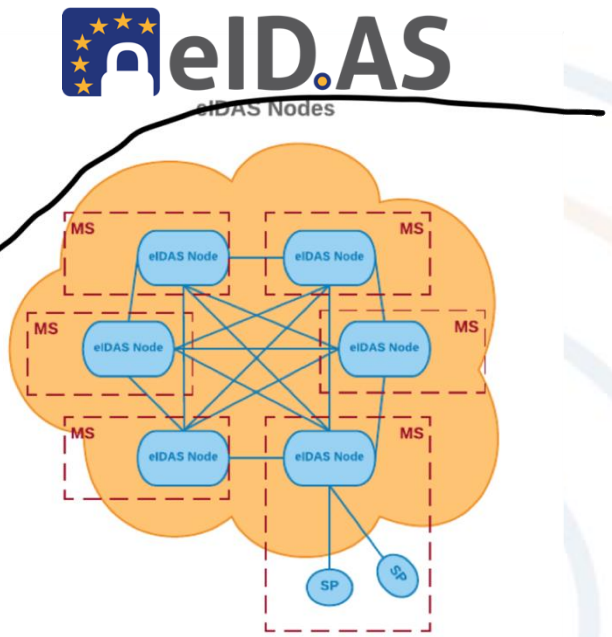
Identification & Authentication

Assurance

Complementarity







Identification

Authentication

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So after numerous meetings…

A blueprint architecture was approved and released for the higher education community

A bridge between the Swedish eIDAS node and eduGAIN was established and moved into production

An authentication proxy linking to eduGAIN, eIDAS (and other OIDC IdPs) was created

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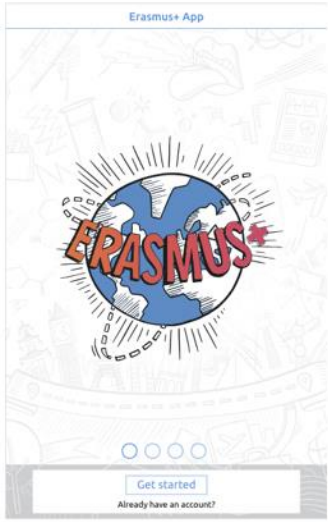
That’s all very well, but how does it work?

learning-agreement.eu

ERASMUS DASHBOARD



phdhub
CONNECT · RESEARCH · INNOVATE

E-service providers

Use cases

erasmus without paper

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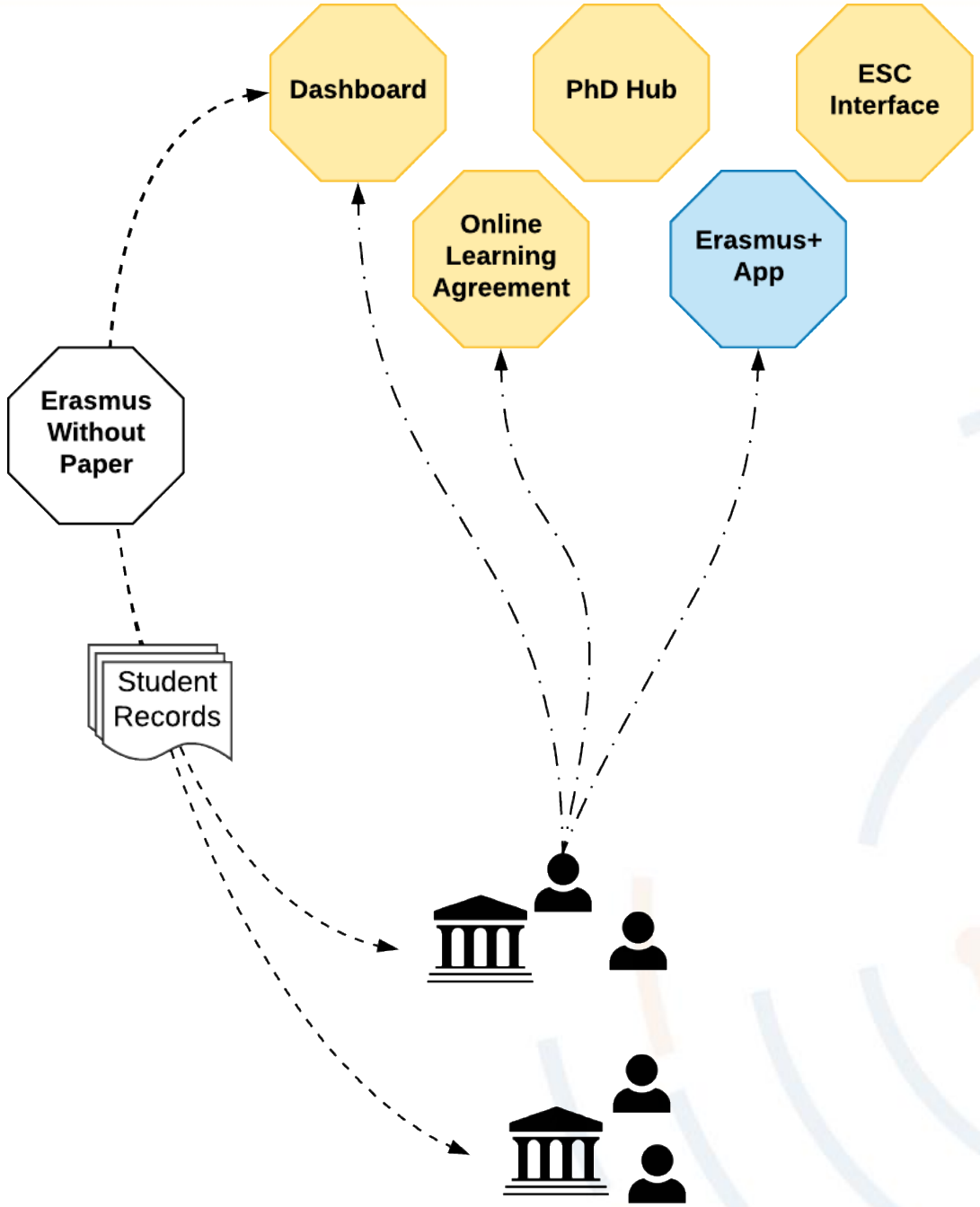

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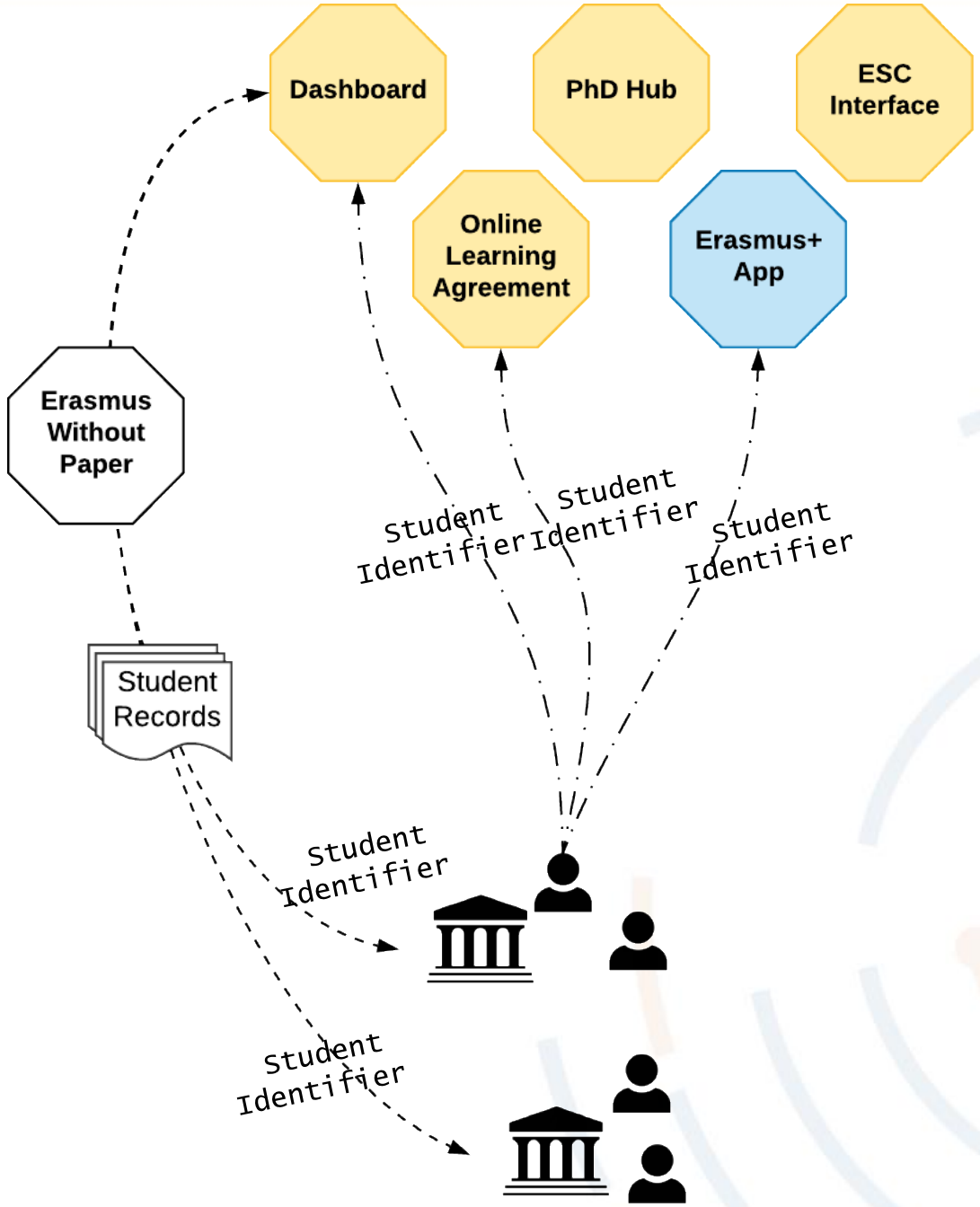

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European Student Identifier

- **Globally Unique**: Each student should be uniquely identified across organizational and national boundaries
- **Persistent**: The identifier should follow the student during her/his time of studies
- **Non-targeted**: The identifier should be the same for all services involved in the student mobility processes
- **Protocol neutral**: The identifier should not change value depending on the protocol used. For example, it should be the same regardless is SAML or OpenID Connect is used
- **Data transport neural**: The identifier should not change value depending on how it is transported.
- **Privacy preserving:** The identifier should not be used to track the students' activities across services

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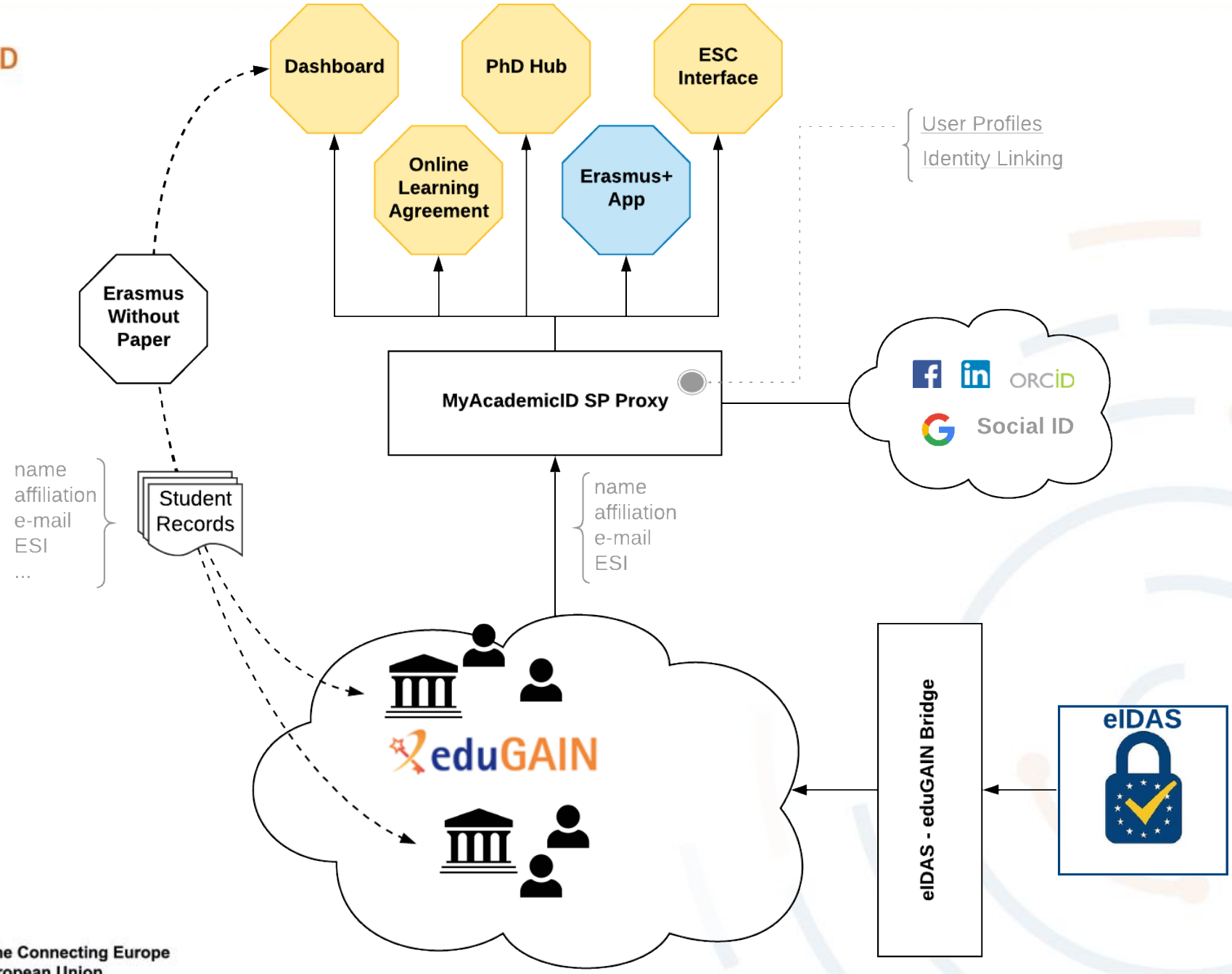

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Criteria	European Student Identifier (ESI)	eduPerson Principal Name (ePPN)	eduPerson Targeted ID (ePTID)	schac Personal Unique Code	schac Personal Unique ID	subject ID	ORCID ID
Target audience	Student	R&E Community	R&E Community	R&E Community	R&E Community	Security subjects (generally but not exclusively people)	Researchers
Adoption rate	limited to ESC pilot institutions	commonly used in eduGAIN	commonly used in eduGAIN	not commonly used in eduGAIN but more within boundaries of federations and/or institutions	not commonly used in eduGAIN but more within boundaries of federations and/or institutions	low adoption (new identifier)	high adoption (7,218,074 ORCID iDs)
Sustainability	ESI institution part (PIC Code) is about to be replaced	eduPerson specification (201602)	eduPerson specification (201602)	SCHAC specification (version 1.5.0)	SCHAC specification (version 1.5.0)	SAML V2.0 Subject Identifier Attributes Profile Version 1.0	ISO 27729 compatible
Direct link with student unique code in student record	ESI right part directly matches the student unique code in HEI at enrollment	Depends on the value used for the user ID in the left part (name-based generally)	opaque identifier	Yes if the <iNSS> part contains the student unique code in HEI	Must contain a legal unique identifier	Depends on the value used for the user ID in the left part	no reference to student unique code (https URI with 16 digits number)
Globally unique	Same principle as IBAN banking format (guarantee of uniqueness)	Globally unique in a federation context	Globally unique in a federation context	Yes but the value of the <INSS> part must be defined accordingly	globally unique by design	suitable for use as a globally-unique external key	globally unique by design
Persistent (stable over time)	institution part potentially subject to change case of student mobility : a student will have as many ESI that he is enrolled to different HEIs	subject to change or reassignement	persistent by design but bound to institution (case of student mobility)	can potentially be bound to institution depending on the value of INSS	persistent by design	persistent by design but bound to institution (scope part)	persistent by design
Non-targeted	services independent	services independent	service specific its value will change from one service to another	services independent	services independent	services independent	services independent
Protocol neutral	specification of R&E claims and scope for OIDC needed	SAML specific (scoped attribute)	SAML specific	specification of R&E claims and scope for OIDC needed	specification of R&E claims and scope for OIDC needed	SAML specific	specification of R&E claims and scope for OIDC needed
Data transport neutral	no tied to a transport mechanism	Federation specific (not necessarily stored in user directory, can be generated on-the-fly by the IdP)	Federation specific (generally not stored in user directory and generated directly by the IdP)	no tied to a transport mechanism	no tied to a transport mechanism	Federation specific	no tied to a transport mechanism

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Globally unique	Same principle as IBAN banking format (guarantee of uniqueness)	Globally unique in a federation context	Globally unique in a federation context	Yes but the value of the <INSS> part must be defined accordingly	globally unique by design	suitable for use as a globally-unique external key	globally unique by design
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Protocol neutral	specification of R&E claims and scope for OIDC needed	SAML specific (scoped attribute)	SAML specific	specification of R&E claims and scope for OIDC needed	specification of R&E claims and scope for OIDC needed	SAML specific	specification of R&E claims and scope for OIDC needed
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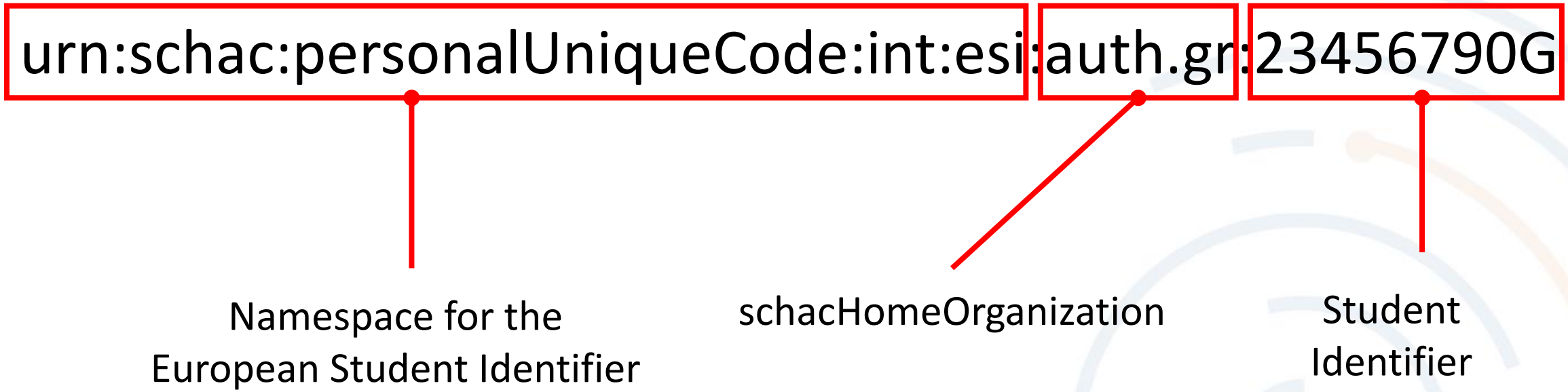
European Student Identifier

https://wiki.geant.org/display/SM/European+Student+Identifier



ESI with HEI-wide scope student code

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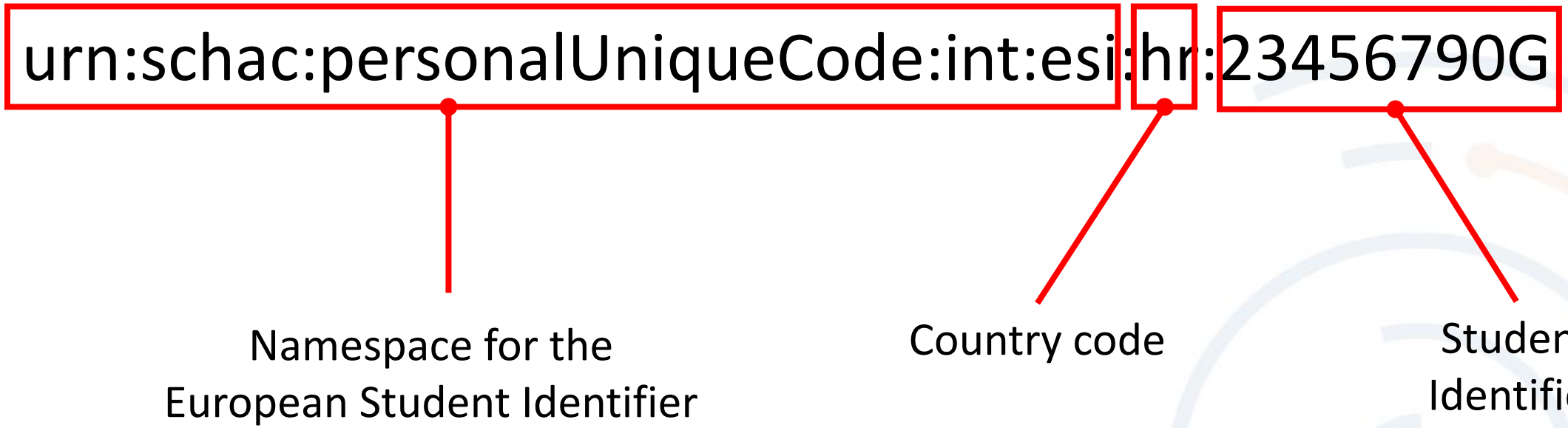
European Student Identifier

https://wiki.geant.org/display/SM/European+Student+Identifier



ESI with nation-wide (or region-wide) scope student code

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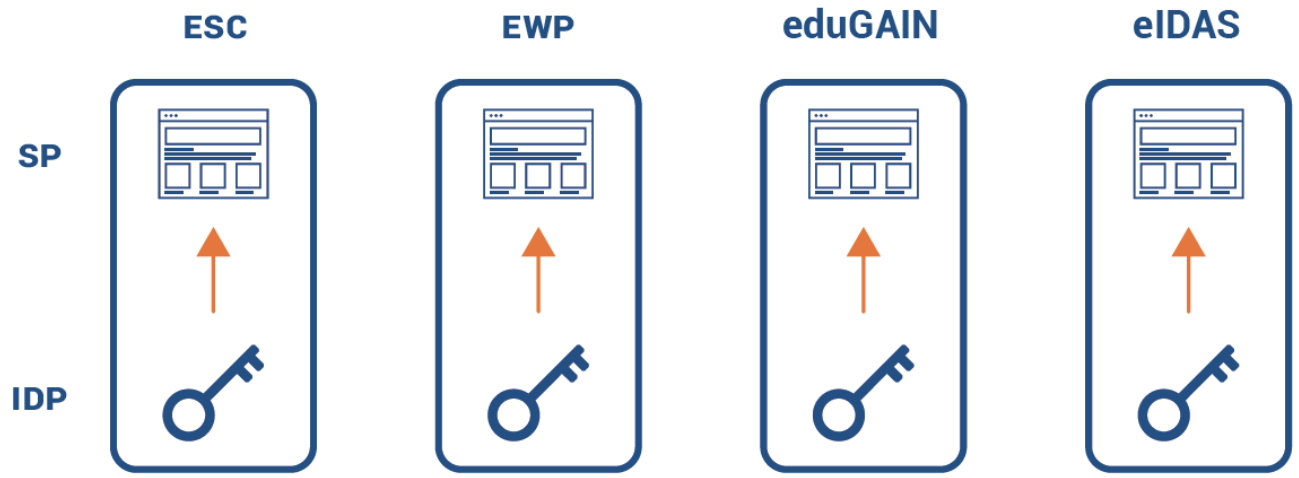
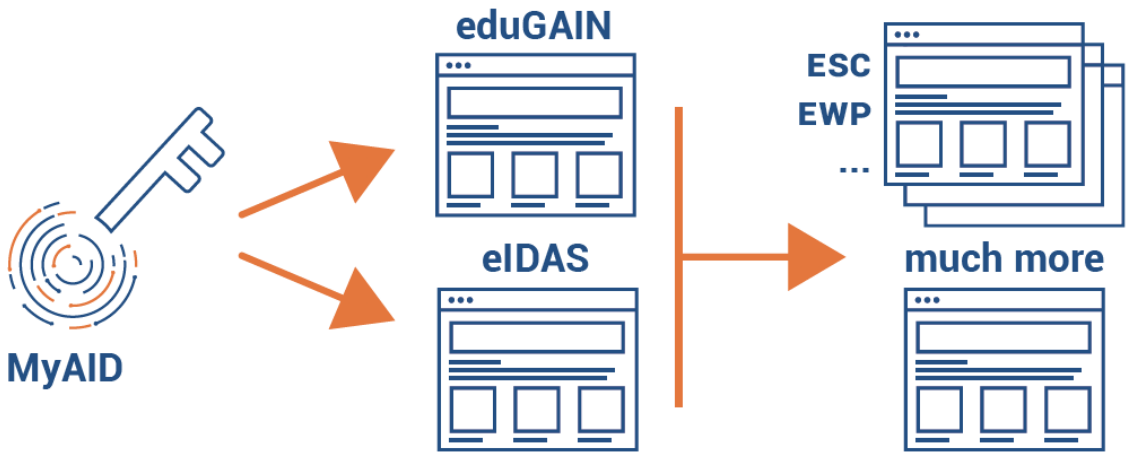
CURRENT SITUATION



AFTER MyAcademicID



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FEWER SILOS, MORE CONNECTIVITY AND GLOBAL ACCESS TO e-SERVICES THROUGH A SINGLE SIGN-ON!

Integrating multiple eIDs from different existing ecosystems, will enable the possibility to overcome the actual silos architecture.
One student eID scheme will give students access to a wide range of different services that currently live in different systems.
Moreover, this approach will open the possibility for future integration with more services.

MyAcademicID

Benefits

- Secure and seamless exchange of information
- Reliable student identification and authentication
- Reuse of existing digital structures
- Online management of mobility process
- Access to e-services through single sign-on
- Reinforced student status
- Reduced administrative burden

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Thank you

www.myacademicid.eu

+ contact

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