

# CAR

Under the Hood

# VIGNETTE I: R&S

A Tale of Three Case Studies

# BACKGROUND

- R&S: service mark for “Research and Scholarship” RPs, IDPs urged to release bundle of attributes to all of R&S
- Federation Participant Concerns
  - Vetting of service profile, not privacy/security profile
  - One size fits all across user population
  - Release liability rests exclusively with the IDP-OP



# BACKGROUND (CONT'D)

- Result: **Very** low adoption across InCommon
- **CAR** can provide flexible substrate for implementing R&S in multiple ways and:
  - relax liability concerns thru informed user consent
  - support flexible, user-centric release policies
  - increase transparency for more informed users, with or without employing consent

# CASE I: INSTITUTIONAL CONTROL

- Institution asserts “ownership” of all release decisions
- No “national security” position — users may see into process
- Conclusion: releasing (ePPN + displayName + mail) to all R&S RPs is appropriate without explicit consent, but **with user transparency**

# CASE I: USER EXPERIENCE

The screenshot shows a web browser window with two tabs. The active tab is titled "Duke information release" and has the URL "http://people.d...hoice-duke.html". The address bar shows "https://idms-icm-dev-01.oit.duke.edu/car/reflex". The browser interface includes a search bar and navigation icons. The page content features the Duke University logo and the Internet2/ETIER logo. The main heading is "Review what you are releasing to LIGO Wiki". Below this, a message states: "LIGO Wiki is requesting information about you from your Duke record." A list of items to be released is shown: "Your email address (rob@duke.edu)", "Your preferred name for display (Rob Carter)", and "Your login id in federated format (rob@duke.edu)". To the right, the LIGO Wiki logo and name are displayed, along with the text "Primary LIGO Scientific Collaboration wiki" and a link to "privacy policy". At the bottom right, there is a link to "Update your preferences: Consent Manager". At the bottom of the page, there are two buttons: "CANCEL" and "ACCEPT AND CONTINUE".

Duke UNIVERSITY

INTERNET2  
ETIER

## Review what you are releasing to LIGO Wiki

LIGO Wiki is requesting information about you from your Duke record.

**By continuing, the following information will be released to LIGO Wiki**

- ➔ Your email address (rob@duke.edu)
- ➔ Your preferred name for display (Rob Carter)
- ➔ Your login id in federated format (rob@duke.edu)

**LIGO Wiki**  
Primary LIGO Scientific  
Collaboration wiki

[privacy policy](#)

Update your preferences: [Consent Manager](#)

Choose one:

- Don't show me this screen again unless necessary
- Show me this screen next time

CANCEL ✕ ACCEPT AND CONTINUE >



# CASE I: USER EXPERIENCE

Duke information release x http://people.d...hoice-duke.html x +

https://idms-icm-dev-01.oit.duke.edu/car/reflex

**Duke** UNIVERSITY

INTERNET. 2 TIER

## Review what you are releasing to LIGO Wiki

LIGO Wiki is requesting information about you from your Duke record.

**By continuing, the following information will be released to LIGO Wiki**

- Your email address (rob@duke.edu)
- Your preferred name for display (Rob Carter)
- Your login id in federated format (rob@duke.edu)

**LIGO Wiki**  
Primary LIGO Scientific Collaboration wiki  
[privacy policy](#)

Update your preferences: [Consent Manager](#)

**Choose one:**

- Don't show me this screen again unless necessary
- Show me this screen next time

**CANCEL** x **ACCEPT AND CONTINUE** >

On first visit user can review releases

Review includes items and values

User may suppress future review

R&S bundle is released regardless of user input if user chooses to proceed, but user is informed before proceeding

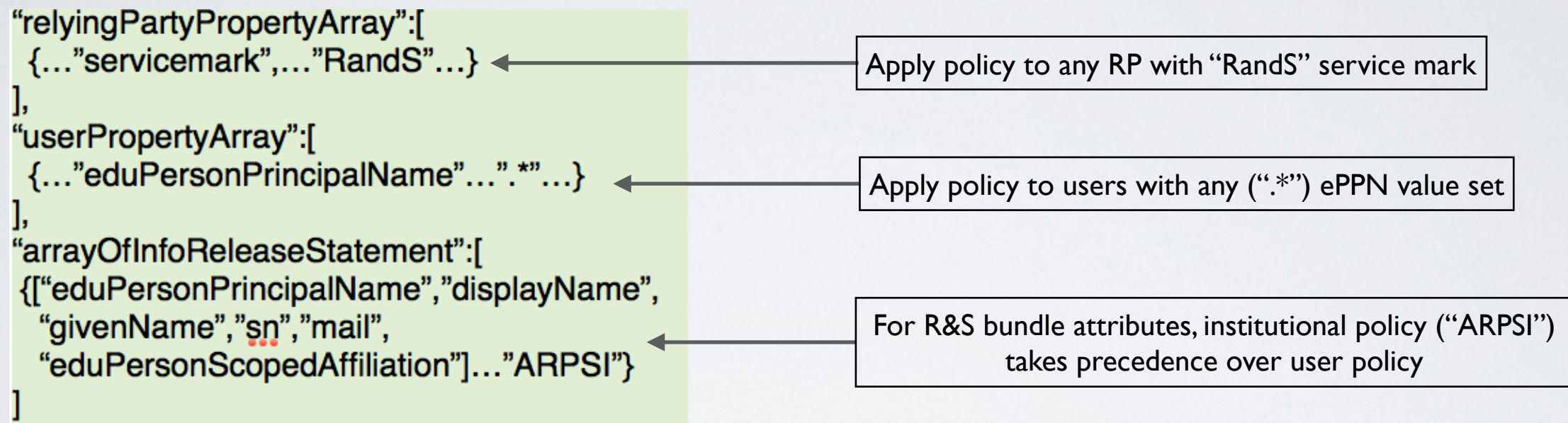
# CASE I: POLICY DESIGN

- Use two simple policies:
  - Institutional policy permits one subset of R&S bundle to all R&S RPs, denies remainder of bundle
  - Combining meta-policy gives **institutional policy** control of R&S attributes for R&S sites

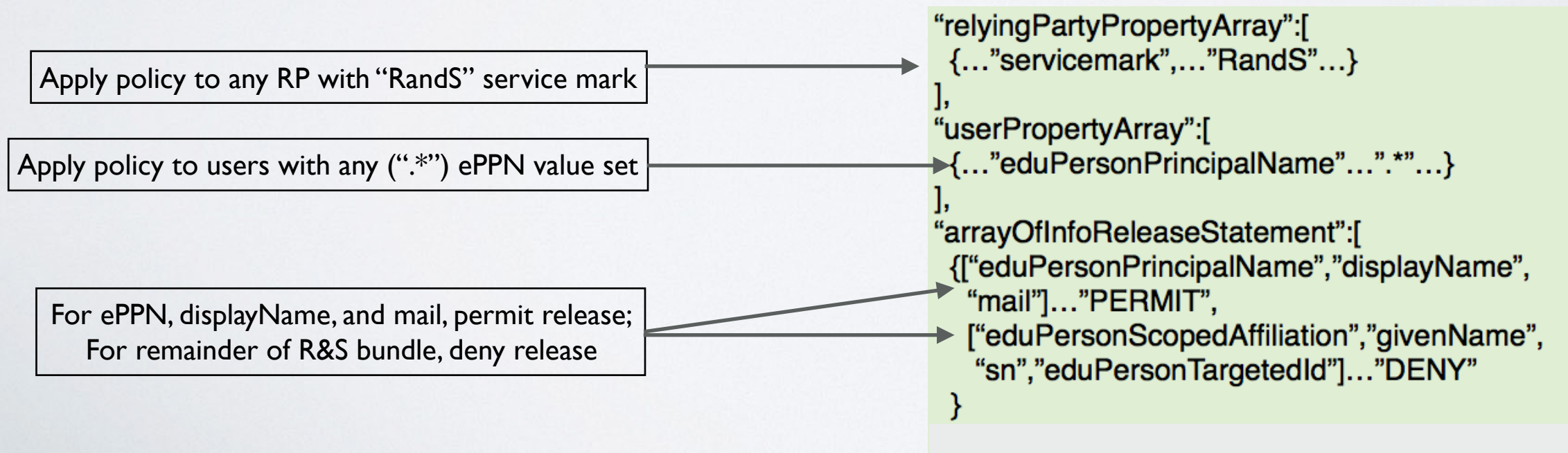


# CASE I : POLICY DETAILS

## Combining Meta Policy (excerpts)



## Institutional Policy (excerpts)




# CASE II: FULL CONSENT

- Institution determines that R&S attributes should be released, but only with explicit user consent
- Any values may be released, provided user consents
- Institution will **recommend** an R&S bundle subset for consent (ePPN + mail + displayName + ePSA)

# CASE II : USER EXPERIENCE

Manage policies x Duke information release x +

https://idms-icm-dev-01.oit.duke.edu/car/reflex 80% Search

**Duke** UNIVERSITY 

## Review and edit what you are releasing to LIGO Wiki

LIGO Wiki is requesting information about you from your Duke record.


**You have to decide whether to release the following. Duke recommends:**

- PERMIT** Your login id in federated format (rob@duke.edu)  
*To uniquely identify you*
- PERMIT** Your email address (rob@duke.edu)  
*To contact you about LIGO business*
- DENY** Your surname (Carter)  
*To allow other users to recognize you*
- PERMIT** Your relationships with Duke (staff@duke.edu)  
*to tailor your profile to your institutional role*
- PERMIT** Your relationships with Duke (member@duke.edu)  
*to tailor your profile to your institutional role*
- DENY** Your legal first name (Robert)  
*To allow other users to recognize you*
- PERMIT** Your preferred name for display (Rob Carter)  
*To allow other users to recognize you*

[EDIT THESE CHOICES](#) [CONTINUE WITHOUT EDITING](#)

**The following information will also be released if you continue:**

[Hide -](#)

 **LIGO Wiki** (R&S)  
Primary LIGO Scientific Collaboration wiki  
[privacy policy](#)

Update your preferences: [Consent Manager](#)



# CASE II : USER EXPERIENCE

Manage policies x Duke information release x +

https://idms-icm-dev-01.oit.duke.edu/car/reflex 80% Search

**Duke** UNIVERSITY

## Review and edit what you are releasing to LIGO Wiki

R&S indicator displayed

LIGO Wiki is requesting information about you from your Duke record.

**You have to decide whether to release the following. Duke recommends:**

- PERMIT** Your login id in federated format (rob@duke.edu)  
To uniquely identify you
- PERMIT** Your email address (rob@duke.edu)  
To contact you about LIGO business
- DENY** Your surname (Carter)  
To allow other users to recognize you
- PERMIT** Your relationships with Duke (staff@duke.edu)  
to tailor your profile to your institutional role
- PERMIT** Your relationships with Duke (member@duke.edu)  
to tailor your profile to your institutional role
- DENY** Your legal first name (Robert)  
To allow other users to recognize you
- PERMIT** Your preferred name for display (Rob Carter)  
To allow other users to recognize you

**Institutional recommendations**

**Initial decisions mirror institutional recommendations; Permit subset of R&S bundle**

**User may modify decisions or accept institutional recommendations**

**No automatic releases; all under user consent control**

**User must make decisions on first visit**

**LIGO Wiki (R&S)**  
Primary LIGO Scientific Collaboration wiki  
[privacy policy](#)  
Update your preferences: [Consent Manager](#)

**EDIT THESE CHOICES** **CONTINUE WITHOUT EDITING**

**The following information will also be released if you continue:**  
[Hide -](#)

# CASE II : USER EXPERIENCE (2)

Manage policies x Duke information release x +

https://idms-icm-dev-01.oit.duke.edu/car/reflex 67% Search

Duke UNIVERSITY

## Review and edit what you are releasing to LIGO Wiki

LIGO Wiki is requesting information about you from your Duke record.

**What would you like to release to LIGO Wiki?** ← “Edit These Choices” interface

- PERMIT  DENY **Your login id in federated format (rob@duke.edu)**  
To uniquely identify you
- PERMIT  DENY **Your email address (rob@duke.edu)**  
To contact you about LIGO business
- PERMIT  DENY **Your surname (Carter)**  
To allow other users to recognize you
- PERMIT  DENY **Your relationships with Duke (staff@duke.edu)**  
to tailor your profile to your institutional role
- PERMIT  DENY **Your relationships with Duke (member@duke.edu)**  
to tailor your profile to your institutional role
- PERMIT  DENY **Your legal first name (Robert)**  
To allow other users to recognize you
- PERMIT  DENY **Your preferred name for display (Rob Carter)**  
To allow other users to recognize you

[Hide -](#)

[Show other information that will be shared with LIGO Wiki +](#)

**Choose one:**

- Save my choices; don't show me this screen again unless necessary.
- Save my choices, but show me this screen next time.
- Don't save the choices I made just now. Show me this screen next time.

**CANCEL** x **ACCEPT AND CONTINUE** >

← User may always opt to cancel or accept settings and continue

← User may save decisions and suppress consent dialogs, save decisions without suppressing, or continue as indicated without saving

← Permit/ Deny option button for each attribute/ value pair

← “Edit These Choices” interface

LIGO Wiki (R&S)  
Primary LIGO Scientific Collaboration wiki  
[privacy policy](#)  
Update your preferences: [Consent Manager](#)

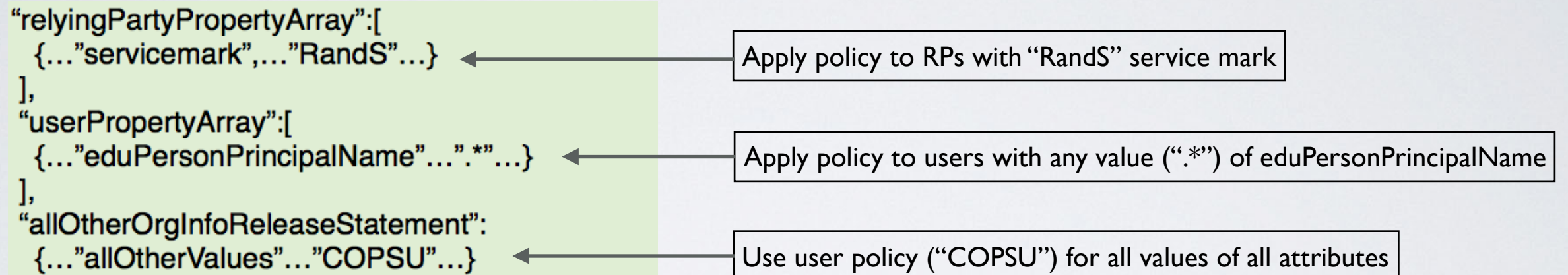
# CASE II: POLICY DESIGN

- Use two policies similar to Case I:
  - Institutional policy acts as **recommendation**, permitting subset of R&S bundle to R&S sites, denying remainder
  - Combining meta-policy gives **user-defined** policy control of all values of all attributes for R&S sites

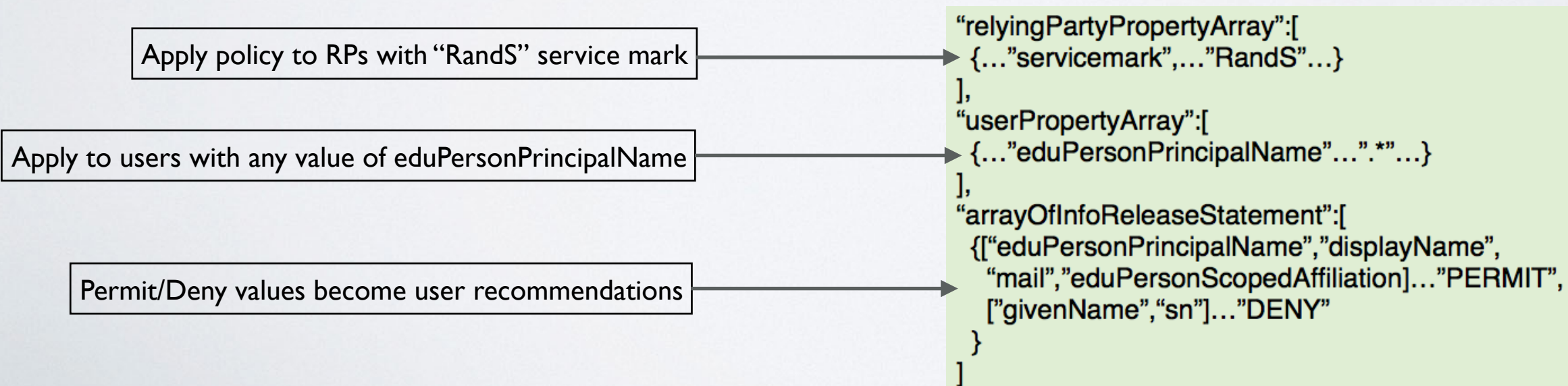


# CASE II : POLICY DETAILS

## Combining Meta Policy (excerpts)



## Institutional Policy (excerpts)



# CASE III: FLEXIBLE CONSENT

- Institution determines that **some** of R&S bundle should be released automatically; **majority** requires user consent
- Decision to require consent depends on the user and the values — student data, faculty names/email require consent
- Institution will **recommend against** release of some values, but allow user choice to prevail

# CASE III : STUDENT EXPERIENCE

Manage policies

Duke information release

https://idms-icm-dev-01.oit.duke.edu/car/reflex

67%

Search

Duke UNIVERSITY



## Review and edit what you are releasing to LIGO Wiki

LIGO Wiki is requesting information about you from your Duke record.

You have to decide whether to release the following. Duke recommends:

- PERMIT** Your login id in federated format (hiro@duke.edu)  
*To uniquely identify you*
- PERMIT** Your email address (hiro@duke.edu)  
*To contact you about LIGO business*
- DENY** Your surname (Test Person)  
*To allow other users to recognize you*
- PERMIT** Your relationships with Duke (member@duke.edu)  
*to tailor your profile to your institutional role*
- PERMIT** Your relationships with Duke (affiliate@duke.edu)  
*to tailor your profile to your institutional role*
- DENY** Your relationships with Duke (student@duke.edu)  
*to tailor your profile to your institutional role*
- DENY** Your legal first name (SYSTEM92)  
*To allow other users to recognize you*
- PERMIT** Your preferred name for display (SYSTEM92 Test Person Jr, Ph.D)  
*To allow other users to recognize you*

EDIT THESE CHOICES ↗

CONTINUE WITHOUT EDITING >



LIGO Wiki

Primary LIGO Scientific  
Collaboration wiki

[privacy policy](#)

Update your preferences: [Consent Manager](#)

[Show other information that will be shared with LIGO Wiki +](#)



# CASE III : STUDENT EXPERIENCE

Manage policies x Duke information release x +

https://idms-icm-dev-01.oit.duke.edu/car/reflex 67% Search

**Duke** UNIVERSITY

## Review and edit what you are releasing to LIGO Wiki

LIGO Wiki is requesting information about you from your Duke record.

**R&S indicator suppressed**

**R&S policy for students requires consent (first visit)**

**Institutional R&S policy sets recommended decisions**

**Recommending release of two affiliations, denial of "student" affiliation**

**User has student affiliation**

**R&S policy for students requires consent (first visit)**

**Institutional R&S policy sets recommended decisions**

**Recommending release of two affiliations, denial of "student" affiliation**

**User has student affiliation**

**R&S indicator suppressed**

**LIGO Wiki**  
Primary LIGO Scientific Collaboration wiki  
[privacy policy](#)  
Update your preferences: [Consent Manager](#)

**You have to decide whether to release the following. Duke recommends:**

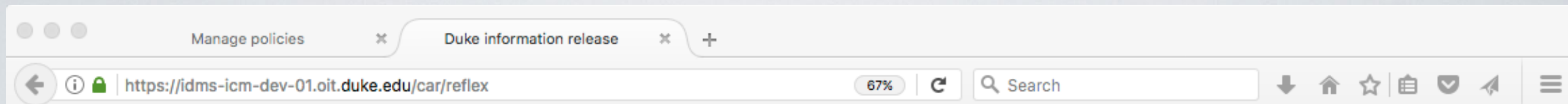
- PERMIT** Your login id in federated format (hiro@duke.edu)  
To uniquely identify you
- PERMIT** Your email address (hiro@duke.edu)  
To contact you about LIGO business
- DENY** Your surname (Test Person)  
To allow other users to recognize you
- PERMIT** Your relationships with Duke (member@duke.edu)  
to tailor your profile to your institutional role
- PERMIT** Your relationships with Duke (affiliate@duke.edu)  
to tailor your profile to your institutional role
- DENY** Your relationships with Duke (student@duke.edu)  
to tailor your profile to your institutional role
- DENY** Your legal first name (SYSTEM92)  
To allow other users to recognize you
- PERMIT** Your preferred name for display (SYSTEM92 Test Person Jr, Ph.D)  
To allow other users to recognize you

**EDIT THESE CHOICES** **CONTINUE WITHOUT EDITING**

**The following information will also be released if you continue:**

**Institutional policy requires user consent for all data for student user**

# CASE III: FACULTY EXP.



## Review and edit what you are releasing to LIGO Wiki

LIGO Wiki is requesting information about you from your Duke record.

You have to decide whether to release the following. Duke recommends:

- PERMIT** Your login id in federated format (hiro@duke.edu)  
*To uniquely identify you*
- PERMIT** Your email address (hiro@duke.edu)  
*To contact you about LIGO business*
- PERMIT** Your surname (Test Person)  
*To allow other users to recognize you*
- PERMIT** Your legal first name (SYSTEM92)  
*To allow other users to recognize you*
- DENY** Your preferred name for display (SYSTEM92 Test Person Jr, Ph.D)  
*To allow other users to recognize you*

[EDIT THESE CHOICES](#)

[CONTINUE WITHOUT EDITING](#)



LIGO Wiki  
Primary LIGO Scientific  
Collaboration wiki

[privacy policy](#)

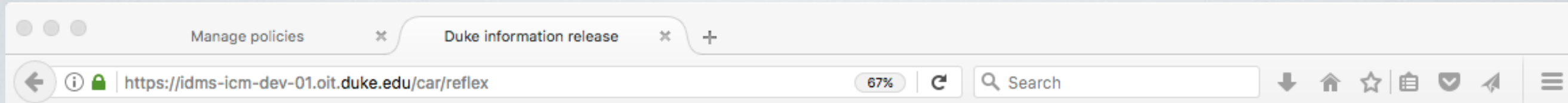
Update your preferences: [Consent Manager](#)

The following information will also be released if you continue:

- Your relationships with Duke (faculty@duke.edu)
- Your relationships with Duke (member@duke.edu)
- Your relationships with Duke (affiliate@duke.edu)

[Hide -](#)

# CASE III: FACULTY EXP.



## Review and edit what you are releasing to LIGO Wiki

LIGO Wiki is requesting information about you from your Duke record.

You have to decide whether to release the following. Duke recommends:

- ✔ **PERMIT** Your login id in federated format (hiro@duke.edu)  
*To uniquely identify you*
- ✔ **PERMIT** Your email address (hiro@duke.edu)  
*To contact you about LIGO business*
- ✔ **PERMIT** Your surname (Test Person)  
*To allow other users to recognize you*
- ✔ **PERMIT** Your legal first name (SYSTEM92)  
*To allow other users to recognize you*
- ✘ **DENY** Your preferred name for display (SYSTEM92 Test Person Jr, Ph.D)  
*To allow other users to recognize you*

R&S policy for faculty requires consent (first visit)

For faculty, institution recommends releasing ePPN, mail, sn, givenName to R&S sites

For faculty, institutional policy recommendation is to deny displayName

EDIT THESE CHOICES ✓

CONTINUE WITHOUT EDITING >

[privacy policy](#)

Update your preferences: [Consent Manager](#)

The following information will also be released if you continue:

- ➔ Your relationships with Duke (faculty@duke.edu)
- ➔ Your relationships with Duke (member@duke.edu)
- ➔ Your relationships with Duke (affiliate@duke.edu)

For faculty, release of non-student affiliations is mandatory to all R&S RPs

Faculty, not student

[Hide -](#)

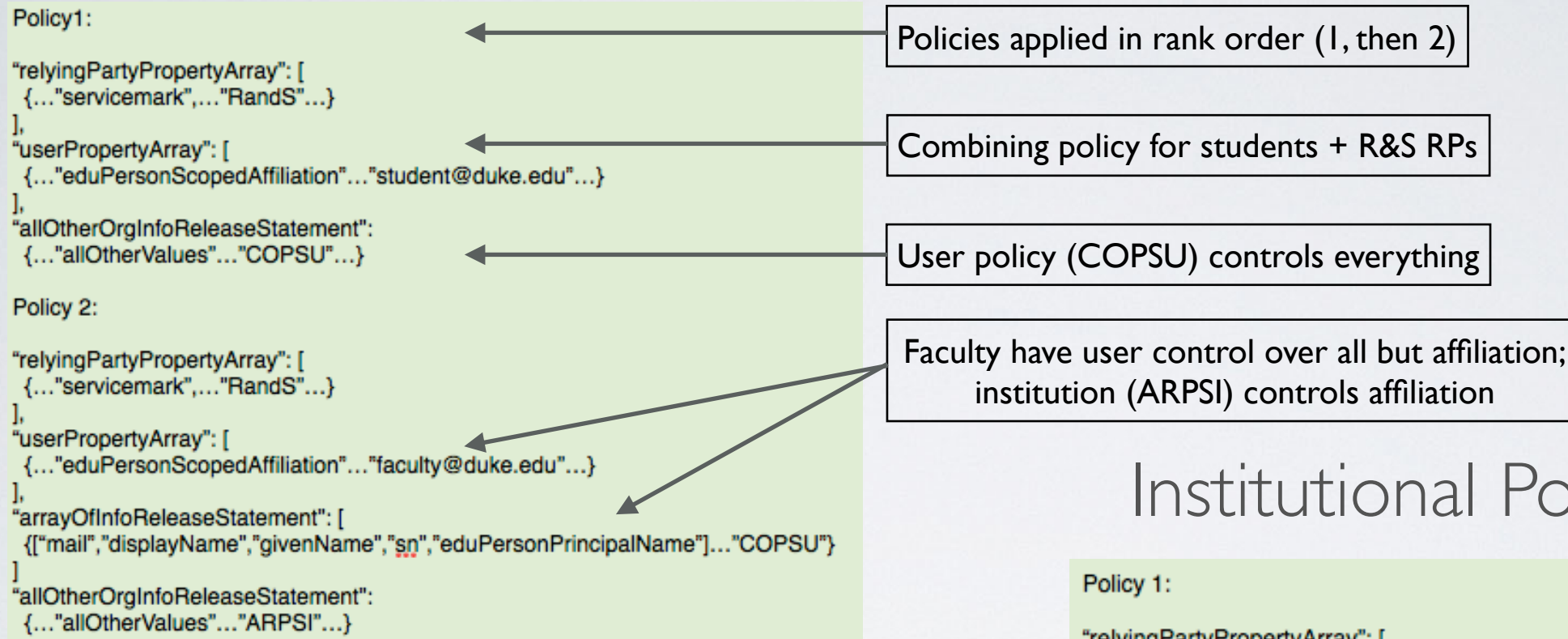


# CASE III: POLICY DESIGN

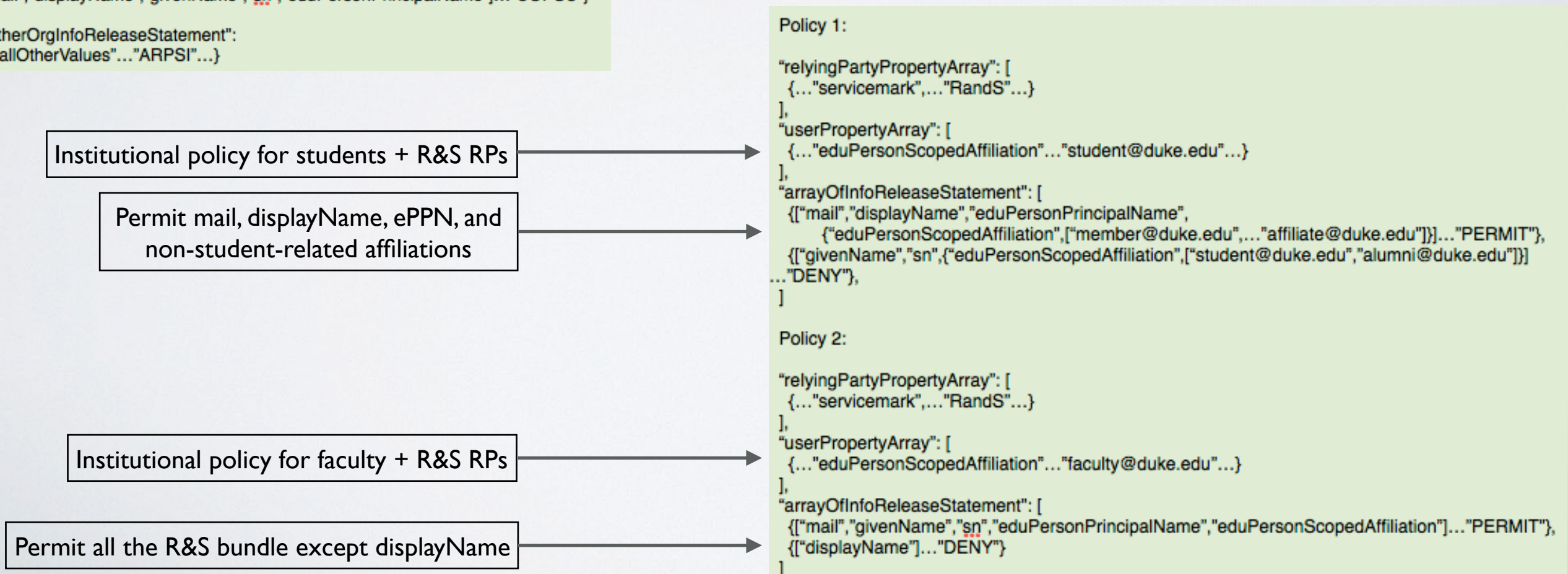
- Two institutional policies, two combining metapolicies:
  - Institutional policy #1 applied to students + R&S RPs permits ePPN, mail, displayName, and non-student **values** of eduPersonScopedAffiliation
  - Institutional policy #2 applied to faculty + R&S RPs permits ePPN, mail, givenName, sn, and non-student values of eduPersonScopedAffiliation
  - Combining metapolicy #1 applied to students + R&S RPs delegates control of all release to user-defined policy
  - Combining metapolicy #2 applied to faculty + R&S RPs delegates control of ePSA to institutional policy, remainder to user-defined policy

# CASE III: POLICY DETAILS

## Combining MetaPolicies (excerpts)



## Institutional Policies (excerpts)





# CAR+R&S SUMMARY

- CAR's flexible policies can make R&S attribute release safer and more adaptive
- Institutions can choose what user consent controls down to the user and/or attribute-value level
- Users can be informed even if they cannot control release decisions, and can control their experience
- Institutions have flexibility in presentation (eg., to show or suppress service mark identifiers in the UI)