

# User identification 2.0

How could an existing SP migrate from UniqueID to TargetedID?



# SWITCH

Serving Swiss Universities

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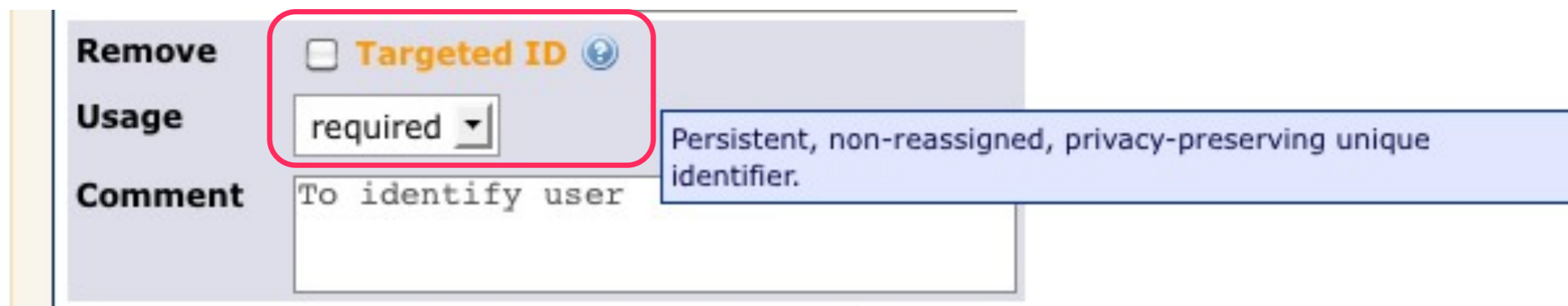
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# How to use the targetedID

- **As IdP Admin:** Upgrade to Shibboleth 2.x
- **As SP Admin:**
  - Declare Targeted ID attribute as ‘required’ in section “Required Attributes” of Resource Description



The screenshot shows a configuration interface for the Targeted ID attribute. It is divided into three sections: 'Remove', 'Usage', and 'Comment'. The 'Usage' section is highlighted with a red box and contains a checkbox labeled 'Targeted ID' (which is checked), a dropdown menu set to 'required', and a help icon. A blue tooltip box is positioned to the right of the dropdown, containing the text: 'Persistent, non-reassigned, privacy-preserving unique identifier.' The 'Comment' section contains the text 'To identify user'.

- Read ‘persistent-id’ header in application
- Use targetedID to identify users

# The 3 steps to replace the uniqueID

1. **Adapt application** to store targetedIDs
2. Wait (long enough) or ask users to access application in order to **collect their targetedIDs**

uniqueID	targetedID	givenName
61029838@unil.ch	https://aai.unil.ch/idp/shibbole...	Etienne
392201088@unil.ch	https://aai.unil.ch/idp/shibbole...	Alexandre
752@switch.ch	https://aai-logon.switch.ch/idp...	Lukas
138@switch.ch	https://aai-logon.switch.ch/idp...	Patrik

3. **Switch user identification** from uniqueID to targetedID

# Application Adaptation, Part I

## Database Modification

- Add field in user table to store targetedID
- In theory up to 2086B long, 255 practically
- Use field of type 'text' or 'varchar(255)'

Field	Type	Length
userID	int	6
uniqueID	varchar	128
targetedID	varchar	255

# Application Adaptation, Part II

## Code Modification

- Check if targetedID is present
- Store value in database

```
<?php
// Store targetedID
if ( isset($_SERVER['persistent-id']) ){
    $targetedID = validateString($_SERVER['persistent-id']);
    doQuery(" UPDATE users
             SET targetedID = '" . $targetedID . "'
             WHERE uniqueID = '" . $uniqueID . "'");
}
?>
```

# Application Adaptation, Part III

## Change User Identification

- Use targetedID instead of uniqueID to look up user in DB

```
<?php
// Identify user
if (isset($_SERVER['persistent-id'])) {
    $User = DB.getUserRecord($_SERVER['persistent-id']);
}
?>
```



# Recommendation

- Encourage use of targetedID for new services
  - Especially for services of Federation Partners
- Start collecting user's targetedIDs for existing services
  - Allows account checking/updating
- More information on TargetedID:  
[https://spaces.internet2.edu/display/SHIB2/](https://spaces.internet2.edu/display/SHIB2/NativeSPTargetedID)  
NativeSPTargetedID