



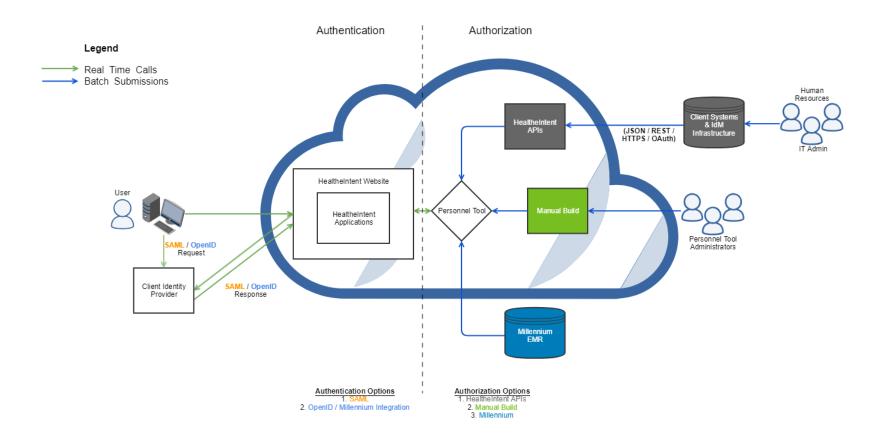
Building Personnel and Organizations



Identity Management in HealtheIntent

There are 2 pieces to this in the *HealtheIntent* Platform:

- HealtheIntent needs to accept sign-on requests from Users during authentication process
- 2. Personnel and security data needs to be loaded to define authorization





Who Are Your Personnel?

Personnel

Anyone that needs to be accounted for in HealtheIntent (i.e. provider scorecards)

Providers

Community or non-employed physicians who may be accountable but not appropriate for access Employed physicians and physician partners with data access and business need

Users

Care Managers Office Staff System Admins Practice Admins Reporting Team Quality Analysts

Any person that needs access to HealtheIntent (i.e. provider, case manager, report developer, VP of Pop Health)



Experiencing HealtheIntent

- Organizations and Personnel Groups determine 2 things in HealtheIntent:
 - Security
 - Platform processing and features, such as attribution and scorecards
- Organizations enable access to patient records, based upon administrator or member relationships
- Personnel Groups
 - Whitelist groups grant access to individual solutions
 - Examples: registries_whitelist, analytics_whitelist
 - Administrator groups provide access to all features and data
 - Examples: system_administrators, registries_administrators
 - Solution groups support specific functionality
 - Examples: attributable_personnel, scorable_personnel, analytics_data_authors



Personnel Tool

- View and manage personnel authorization data in the HealtheIntent platform for your organization
- Create, edit, and delete personnel members, personnel groups, organizations, and organization classes

https://wiki.cerner.com/display/healtheintentHPSV/HealtheIntent+Personnel+Tool+Help

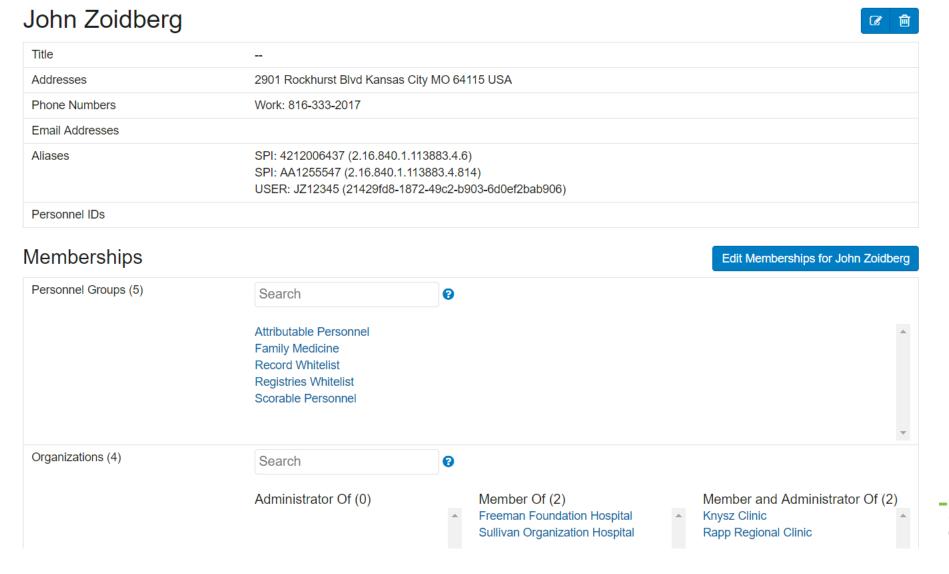


Personnel Tool – Overview

Personnel Tool Tenants Cerner - Demo Organizations 31 31 0 Organizations Manually Created Organization Views **Organization Rulesets** Organizations Organization Classes Manually Created Organization Classes **Organization Classes** Personnel Groups 51 45 Personnel Groups Manually Created Personnel Groups Personnel Group Views Personnel 910 910 Personnel Manually Created Personnel

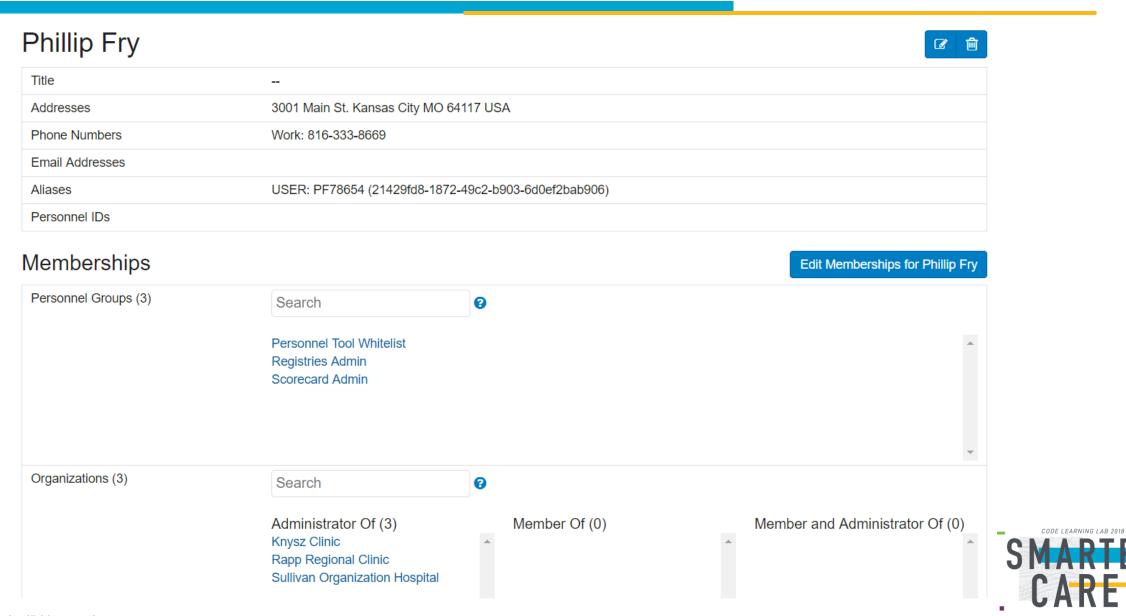


Example User – Provider

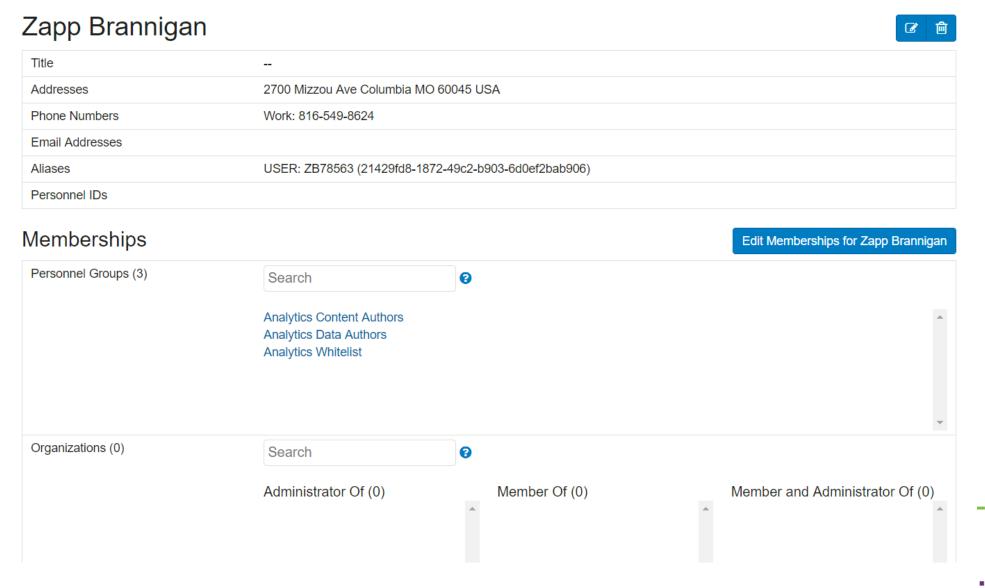




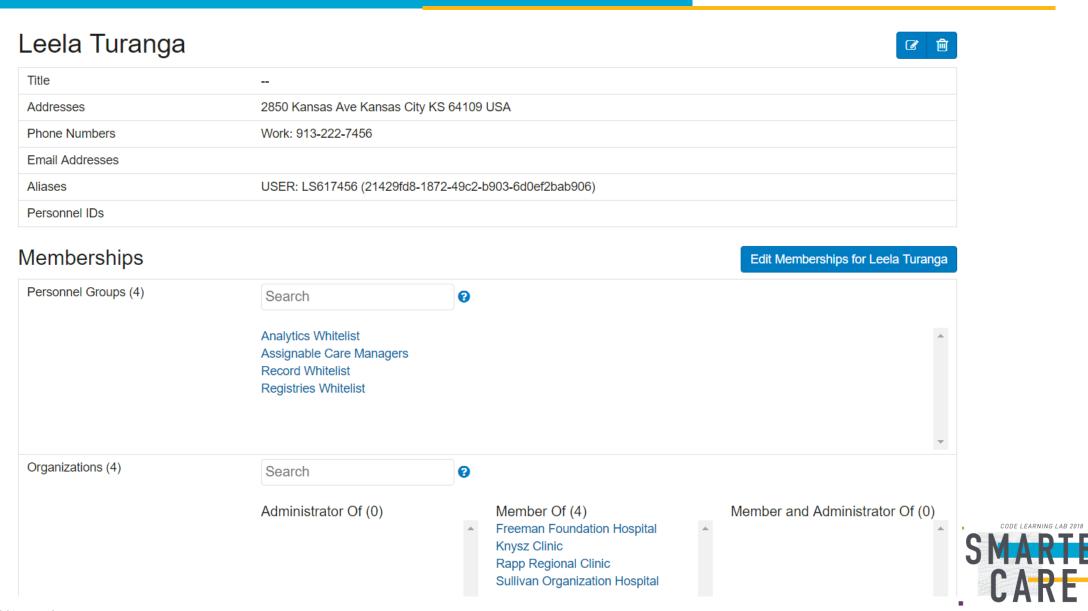
Example User – Registries Administrator



User Example – Analytics User



Example User – Care Manager



Personnel Data Elements

- Contact Information
- Aliases -- USER, SPI (NPI), etc.
- Demographics
- Group Membership
- Organization Membership



Assigning Authority

Entity Type	Alias Type	Assigning Authority
Organization	SOI	2.16.840.1.113883.4.814 (DEA)
Organization	SOI	2.16.840.1.113883.4.6 (NPI)
Organization	TAX	2.16.840.1.113883.4.2 (TIN/ITIN)
Personnel	SPI	2.16.840.1.113883.4.814 (DEA)
Personnel	SPI	2.16.840.1.113883.4.6 (NPI)
Personnel	TAX	2.16.840.1.113883.4.2 (TIN/ITIN)
Personnel	USER	Identity provider realm ID

https://wiki.cerner.com/display/healtheintentHP/Overview+of+Alias+Assigning+Authority



Personnel APIs

- Allows personnel, personnel group and organizations to be transmitted to Personnel Tool
 - Can control ability to edit within the Personnel Tool

https://docs.healtheintent.com/api/v1/personnel/



Accessing the Personnel APIs

- Request a System Account
 - Need a Cerner system account to make calls to Personnel APIs
 - Includes a bearer token and a set of OAuth credentials: consumer key and consumer secret
- Account Request: https://cernercentral.com/system-accounts/
 - Account Description Client Name: Example Client; Platform/Service Name: HealtheIntent APIs; Solution Name: Personnel Load; Cerner Contact: IdM Contact
 - Production System Yes
 - Cerner Client Yes
 - Millennium System No
- CernerCare Account (required to request a system account): https://cernercare.com/accounts/create



Personnel API Authentication

Bearer Token

- Bearer token of system account
- The URL of the protected endpoint you wish to access

OAuth 1.0a

- OAuth access token URL: https://api.cernercare.com/oauth/access
- Your system account ID (consumer key)
- Your system account secret (consumer secret)
- The URL of the protected endpoint you wish to access



Structuring API Calls

Ruby

```
require 'httparty'
HTTParty.get(
  'https://cernerdemo.api.us.healtheintent.com/personnel/v1/personnel?formattedName=Dr&or
derBy=givenName',
  headers: {
    'Content-Type' => 'application/json',
    'Authorization' => '<auth header>'
```

Shell

```
curl -X GET -H 'Authorization: {auth_header}' -H 'Accept: application/json'
'https://cernerdemo.api.us.healtheintent.com/personnel/v1/personnel?formattedName=Dr&orde
rBy=givenName'
```



Structuring API Calls (Continued)

GET

- List and/or query resources
 - Retrieve a single personnel, group or organization
 - Retrieve a list of personnel, groups or organizations
 - Retrieve all valid personnel mnemonics

POST

- Create new resources
 - Create new personnel, group or organization
- PUT
 - Update resources
 - Update personnel, groups or organizations
 - Add personnel to groups (create personnel group members)

DELETE

- Delete resource
 - Deletions are permanent, even if the resource is added back with the same attributes, a new ID is generated
 - Any data tied to the old ID in downstream systems is orphaned
 - Remove personnel and personnel group members, groups or organizations

Example API Flow – "New" User

- 1. GET by USER/SPI alias to see if they already exist
 - a) If exists, compare response against source, PUT to update if something is in source that isn't in response
 - b) If doesn't exist, POST
- 2. GET personnel group to see if user is already a member
 - a) If doesn't exist, PUT



API Actions – Personnel

- Retrieve a List of Personnel
- Create a personnel
- Retrieve a Single Personnel
- Update a Personnel
- Remove a Personnel



API Actions – Personnel Groups

- Retrieve a List of Personnel Groups
- Create a Personnel Group
- Retrieve a Single Personnel Group
- Update a Personnel Group
- Remove a Personnel Group
- Retrieve a List of Personnel Group Members.
- Add a Personnel Group Member
- Remove a Personnel Group Member
- Retrieve All Valid Mnemonics



API Actions – Organizations

- Retrieve a List of Organizations
- Create an Organization
- Retrieve a Single Organization
- Update an Organization
- Remove an Organization
- Retrieve a List of Organization Administrators
- Add an Organization Administrator
- Remove an Organization Administrator
- Retrieve a List of Organization Members
- Add an Organization Member
- Remove an Organization Member



API Actions – Documentation

- Personnel
- Personnel Groups
- **Organizations**



Knowledge Check

You are contacted to add 3 new users to HealtheIntent. What is your first step?

- A. Do a POST to create them
- B. Do a PUT to update them
- C. Do a GET to verify whether they already exist



Knowledge Check

2 of the users existed but do not have all the memberships in the request. 1 user does not exist. What is your next step?

- A. Do a PUT to update and create all the users
- B. Do a PUT to update the 2 existing users with their additional info, and a POST to create the remaining user
- C. Do a DELETE to delete the existing users, and recreate them all using POST with all their information



Knowledge Check

You receive a phone call saying a specific user needs their access revoked. What do you do?

- A. Ignore the request. Not your problem.
- B. Do a PUT to remove all Groups and Organizations from the user
- C. Do a DELETE to delete the user resource



Knowledge Check: Extra Bonus Round

When creating users/groups/orgs and you receive the HealtheIntent ID back as a part of the 201 - OK response, should you record/keep track of those Identifiers? Why or why not?





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Additional Resources

- Identity Federation Reference Pages
- Configure Personnel in the *HealtheIntent* Security Model
- Configure Personnel Groups in the HealtheIntent Security Model
- Configure Organizations in the *HealtheIntent* Security Model
- Configure Organization Classes in the *HealtheIntent* Security Model
- https://docs.healtheintent.com/
 - https://docs.healtheintent.com/api/v1/personnel/
 - https://docs.healtheintent.com/api/v1/personnel/#personnel-groups
 - https://docs.healtheintent.com/api/v1/organization/

