

# Use Case: FHIR Interface to Directory of Clinicians (DoC)

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## Purpose

UDOH is in the process of developing a directory of clinicians (DoC) for use in multiple health department information systems that require unique provider identification. The Vital Records electronic death registration system (EDRS) for example, requires the ability to look up and verify a physician's credentials when a system account is created. On an ongoing basis, the EDRS will query DoC to ensure physicians using EDEN to certify deaths have current licensure. UDOH has worked with Utah's Division of Occupational and Professional Licensing (DOPL) to obtain a view into the DOPL licensing database for healthcare providers. This database view is used to feed data to DoC. Unlike DOPL's database, DoC will link to a master person index to de-duplicate and update current name and address information. DoC will also maintain logical links between individual healthcare providers and the institutions for which they work.

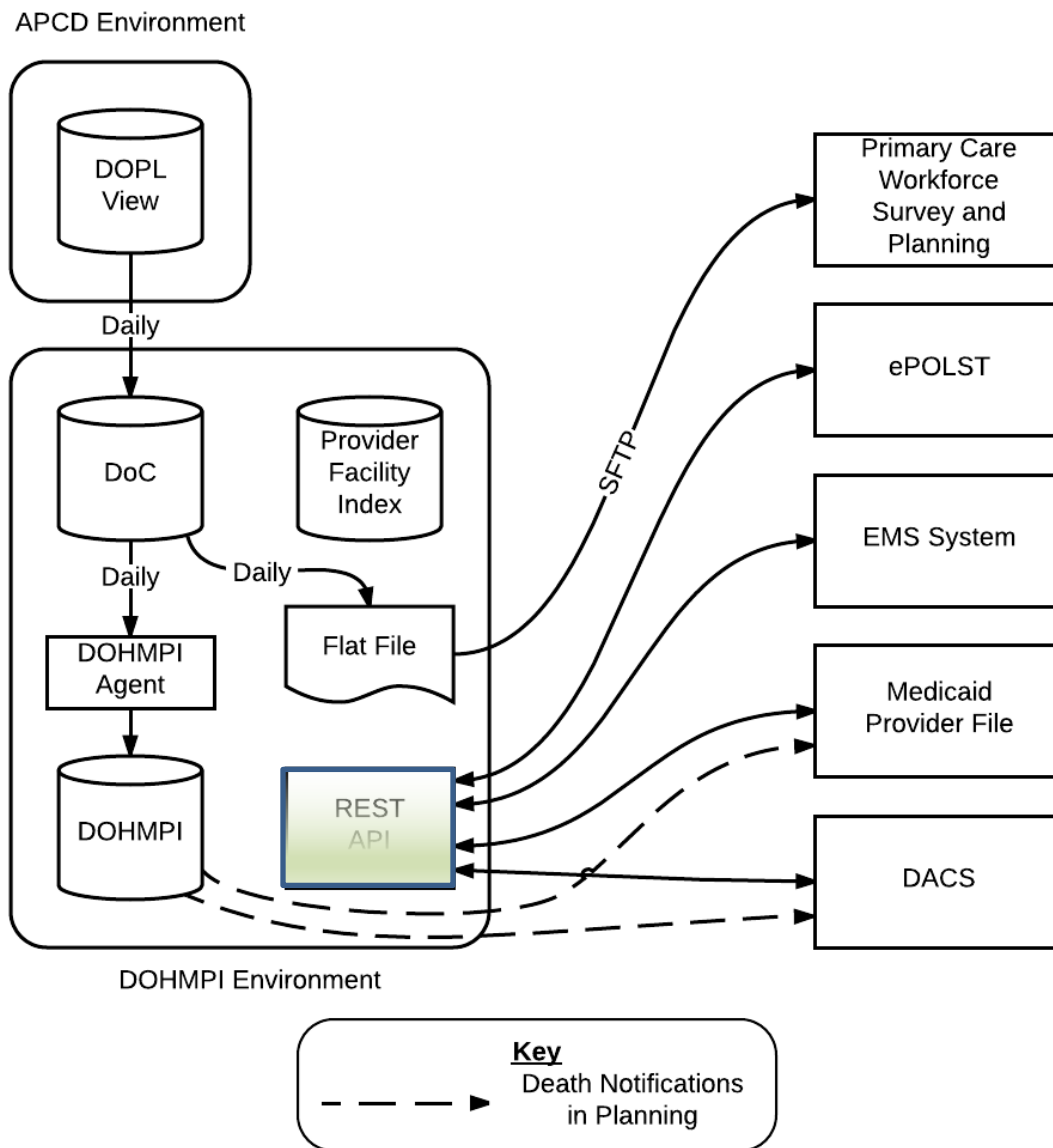
## Proposed solution

The DoC provide a FHIR API that external systems can use to verify the licensure status of a provider. An external system will query DoC using **provider license number** and **name**, and will receive a response indicating whether the provider exists in the system and, if so, the provider's license status.

## Description of Resources

### *Directory of Clinicians (DoC)*

DoC is the Utah Department of Health's Directory of Clinicians. The core information in DoC is received from licensing information maintained by the Utah Division of Occupational and Professional Licensing (DOPL). DoC contains license information for all healthcare-related licenses, including physicians, nursing professionals, and allied health professionals. DOPL provides a view into their licensing database from which DoC is updated nightly. On updates, newly licensed individuals are added to DoC and any updates of license status to individuals are recorded in DoC. For example, if an individual's license is suspended, the update is pushed to DoC.



REST API – modify this???

Authentication will be handled by the external systems

How would we handle securing these REST services? Is this in-scope or out of scope

DoC DBMS: SQL Server 2014 SP2 (12.0.5000.0)

Number of Records: 265,471 as of 09/22/2016

| Field            | Type(size)   | Description   |
|------------------|--------------|---|
| DoC_PD_ID        | Varchar(50)  | Primary key   |
| LICENSE_NO       | Varchar(50)  | State License Number  |
| LICENSE_NAME     | Varchar(50)  | Type of license, e.g. 'Registered Nurse'                      |
| PROFESSION_NAME  | Varchar(50)  | Type of profession, e.g. 'nurse' or 'physician'               |
| FIRST_NAME       | Varchar(50)  | Licensee first name   |
| LAST_NAME        | Varchar(50)  | Licensee last name  |
| SORT_NAME        | Varchar(150) | Concatenation of 'LAST_NAME, FIRST_NAME' for display purposes |
| FULL_NAME        | Varchar(150) | Concatenation of 'FIRST_NAME LAST_NAME'                       |
| AKA              | Varchar(100) | Alias name or former name                                     |
| NAME_SUFFIX      | Varchar(50)  | Suffix, e.g. jr., sr.   |
| DATE_OF_BIRTH    | Varchar(50)  | Mm/dd/yyyy  |
| SSN              | Varchar(50)  | Social Security Number, 9 characters, no dashes               |
| ISSUE_DATE       | Varchar(50)  | Date license was first issued mm/dd/yyyy                      |
| EXPIRATION_DATE  | Varchar(50)  | Date license expires mm/dd/yyyy                               |
| LIC_STATUS       | Varchar(50)  | License status, e.g. active, expired, suspended               |
| DATE_THIS_STATUS | Varchar(50)  | Date status last updated mm/dd/yyyy                           |
| ADDR_LINE_1      | Varchar(100) | Address line 1  |
| ADDR_LINE_2      | Varchar(100) | Address line 2  |
| ADDR_CITY        | Varchar(50)  | Address city  |
| ADDR_STATE       | Varchar(50)  | Address State (e.g. UT)                                       |
| ADDR_ZIPCODE     | Varchar(50)  | Zip code (nnnnn)  |
| ADDR_COUNTY      | Varchar(50)  | County  |
| ADDR_PHONE       | Varchar(50)  | Phone Number (all numbers)                                    |

|               |             |                        |
|---------------|-------------|------------------------|
| ADDR_EMAIL    | Varchar(50) | Email address          |
| DATE_DECEASED | Varchar(50) | Date licensee deceased |
| FEDERAL_ID    | Varchar(50) | Provider NPI           |