

Software Demonstration

Day 1 of the Provider Directory Workshop included a software demonstration designed to show how provider data can be updated by a 3rd party application using a RESTful API, protected by [OAuth2](#), in a [FHIR format](#). Below is a list of the various components along with brief descriptions.

Software Components

OAuth2 and Write API Gateway Server: This server controls the Authorization Server, the Protected Resources (our updated APIs), and the API administration. It is a [Django](#) application making use of [Django OAuth Toolkit](#). [Running Demo](#) | [Source Code](#)

OAuth2 Example Client: This sample client lets a user login and subsequently call a series of RESTful APIs to update provider data. It is a [Django](#) application making use of [python-social-auth](#). [Running Demo](#) | [Source Code](#)

Public Provider Registry and Read APIs: This application serves up data to humans and machines. The user interface provides simple [NPPES](#) search capabilities. NPPES and other types of provider data are available via API and there are numerous APIs available from this server. The demonstration presented a "[PECOS API](#)" that reports if a provider participates in Medicare and, if so, for which provider organizations. The demonstration included [an example URL](#) to demonstrate how the API works. [Running Demo](#) | [Source Code](#)

Provider Data Tools: This is a set of command line tools and libraries for manipulating provider data. It can break the [NPPES](#) data into smaller CSVs and convert the NPPES data into [FHIR resource documents](#) or [ProviderJSON documents](#). It can also help import those data into a [MongoDB database](#). See the [README in the source code](#) for more documentation. [Source Code](#)

Select Data Sources

- [NPPES Data](#)
- [PECOS Provider Enrollment Data](#)
- [Charlie Ornstein's Tip Sheet on Medicare Datasets](#)