# Building Provider and Drug Search for HealthCare.gov

**Greg Gershman**

Ad Hoc LLC

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**Ad Hoc**

- Ad Hoc LLC

  - Founders rescued HealthCare.gov

  - Founded in 2014

  - Work with CMS (HealthCare.gov) and VA (vets.gov)

- Anonymous Shopping

- Tax Tools

- Decision Support Tools

  - Provider/Drug Search

  - OOPC

- Plan Compare 2.0

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Enable users to see if their providers and prescription drugs are covered as they shop for plans.

Problem: provider networks and drug formularies are held by issuers.

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1. Define a standard format for providers, drugs, and plans

2. Publish format and collect feedback from issuers

3. Work with issuers to build and publish on their websites

4. Build tools and launch!

# QHP Provider and Drug Data Format

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- Format: JSON (JavaScript Object Notation)

- Distributed over HTTP(S)

- Spec:

  https://github.com/CMSgov/QHP-provider-formulary-APIs

- Defines three data structures: plans, providers, formulary.

- Published as three files: plans.json, providers.json, drugs.json (and an index.json)

# QHP JSON Sample

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```
    {
        "npi": "1234567893",
        "type": "FACILITY",
        "facility_name": "Main Street Hospital",
        "facility_type": ["Hospital", "Dialysis"],
        "addresses": [
          {
            "address": "123 Main St",
            "address_2": "Suite 120",
            "city": "Little Rock",
            "state": "AR",
            "zip": "72201",
            "phone": "2025551212"
          }
        ],
        "plans": [
            {
                "plan_id_type": "HIOS-PLAN-ID",
                "plan_id": "12345XX9876543",
                "network_tier": "PREFERRED"
            },
            {
                "plan_id_type": "HIOS-PLAN-ID",
                "plan_id": "12345XX9876543",
                "network_tier": "NON-PREFERRED"
            }
        ],
        "last_updated_on": "2015-03-17"
    }
]
```

- Not all issuers had ready-access to this information

    - Different databases

    - Different companies (acquisitions)

    - Third-parties

- Technical challenges

# Solutions/Tools

- Validator

  - https://github.com/adhocteam/coverage-validator

  - https://qhp-validator.herokuapp.com/

- UserVoice

  - FAQ and trouble tickets

- Feedback loop with CCIO

# Results

- Launched for OE 2016 (November 2015)

- Data from:

    - 153 issuers

    - 11,108,501 providers

    - 105 GB of data

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- Amount of data from issuers

- Normalization of provider and drug names

- Reporting errors back to issuers

- Sufficient time for testing

# Live Demo/Questions

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- https://www.healthcare.gov/see-plans/

- Contact information

  ○ Greg Gershman

  ○ greg@adhocteam.us

  ○ https://www.adhocteam.us/