Developer Documentation

Learn how to describe what providers and drugs are covered by a particular health plan.

JSON

All information must be described in the JSON file format. JSON is a lightweight and simple way to represent machine-readable data. It is quickly becoming the de facto standard for shuttling data across the internet, fueled primarily by the rise of mobile and APIs. Modern programming languages can interpret and produce JSON out of the box.

Learn about JSON >

Public Discoverability

Organizations must post their index.json, plans.json, providers.json, and drugs.json files on a website, accessible to the public.

The JSON URLs listed above *must* be provided over HTTPS to ensure the integrity of the data.

Data types

All values in the JSON are strings, unless otherwise noted in the Definition field.

Dates should be strings, in ISO 8601 format (e.g. YYYY-MM-DD).

Health Plans - plans.json

Description

plans.json contains a list of health plans and their corresponding network of providers and formularies.

Schema

Field	Label	Definition	Required
plan_id_type	ID Type	Type of Plan ID. For all Marketplace plans this	Yes
		should be: HIOS-PLAN-ID	
		The 14-character, HIOS-	
		generated Plan ID	
plan_id	Unique Identifier	number. (Plan IDs must	Yes
		be unique, even across	
		different markets.)	
		The name of the plan as it	
marketing_name	Marketing Name	is displayed on	Yes
		HealthCare.gov	
		The URL that goes	
		directly to the summary of	
summary_url	URL for Plan Information	benefits and coverage for	Yes
		the specific standard plan	
		or plan variation.	
		The URL that goes	
		directly to the plan	
marketing_url	URL for Plan Information	brochure for the specific	Yes
		standard plan or plan	
		variation.	
		The URL that goes	
		directly to the formulary	
formulary_url	URL for Formulary	brochure for the specific	No
		standard plan or plan	
		variation.	
		An email address for	
	Contact Email Address for	developers/public to	
plan_contact	Plan	report mistakes in the	Yes
	riali	network and formulary	
		data.	

Field	Label	Definition	Required
network	Network	Array of networks	Yes
formulary	Formularv	The formulary associated with this plan.	Yes
benefits	Benefits	Array of benefits	No
last_updated_on	Last Updated On	ISO 8601 format (e.g. YYYY-MM-DD)	Yes

Network sub-type

This type defines a network within a plan. The values should be something that is meaningful to an issuer, there is no taxonomy of network tier names. This value will be used later in the providers.json file to connect a provider to a specific plan and network tier within that plan.

Field	Label	Definition	Required
		Tier name for network	
		(Example Values:	
network_tier	Network Tier	PREFERRED, NON-	Yes
		PREFERRED, etc. Values	
		should be all uppercase.)	

Formulary sub-type

This type defines a formulary within a plan. The values should be something that is meaningful to an issuer, there is no taxonomy of formulary tier names. This value will be used later in the drugs.json file to connect a drug to a specific plan and formulary tier within that plan.

Field	Label	Definition	Required
drug_tier		Tier for formulary - (Example Values: GENERIC, PREFERRED- GENERIC, NON-PREFERRED- GENERIC, SPECIALTY, BRAND, PREFERRED-BRAND, NON-PREFERRED-BRAND, ZERO-COST-SHARE- PREVENTIVE, MEDICAL- SERVICE, etc. Values should be all uppercase.)	Yes
mail_order		Does the formulary cover mail order? - (Values: true or false)	Yes
cost_sharing	Cost Sharing	Array of cost sharing values (see "Cost sharing sub-type" below)	No

Cost sharing sub-type

Field	Label	Definition	Required
		Pharmacy type (Example Values: 1-MONTH-IN-	
pharmacy_type		RETAIL, 1-MONTH-OUT- RETAIL, 1-MONTH-IN-MAIL,	Yes
		1-MONTH-OUT-MAIL, 3-	
		MONTH-IN-RETAIL, 3- MONTH-OUT-RETAIL, 3-	

Field	Label	Definition	Required
		MONTH-IN-MAIL, 3-MONTH- OUT-MAIL)	
copay_amount	Copay amount	Amount of copay, in \$ (number)	Yes
copay_opt	Copay option	Qualifier of copay amount (Values: AFTER- DEDUCTIBLE, BEFORE- DEDUCTIBLE, NO-CHARGE, NO-CHARGE-AFTER- DEDUCTIBLE	Yes
coinsurance_rate	Coinsurance rate	Rate of coinsurance (float, 0.0 to 1.0)	Yes
coinsurance_opt		Qualifier for coinsurance rate (Values: AFTER- DEDUCTIBLE, NO-CHARGE, NO-CHARGE-AFTER- DEDUCTIBLE)	Yes

Benefits sub-type

The **Benefits** sub-type is an optional section and will be shaped depending on what industry and consumers find valuable.

For example, many health plans are offering telemedicine as an additional health benefit and that can be highlighted by adding a telemedicine entry.

Field	Label	Definition	Required
telemedicine	Offers Telemedicine	Does the plan cover telemedicine? Boolean (values should be either true or false)	No

Example

```
[
    {
        "plan_id_type": "HIOS-PLAN-ID",
        "plan_id": "12345XX9876543",
        "marketing_name": "Sample Gold Health Plan",
        "summary_url": "http://url/to/summary/benefits/coverage",
        "marketing_url": "http://url/to/health/plan/information",
        "formulary_url": "http://url/to/formulary/information",
        "plan_contact": "email@address.com",
        "network": [
            {
                "network_tier": "PREFERRED"
            },
            {
                "network_tier": "NON-PREFERRED"
            }
        ],
        "formulary": {
          "drug_tier": "BASIC",
          "mail_order": true,
          "cost_sharing": [
              "pharmacy_type": "1-MONTH-IN-RETAIL",
              "copay_amount": 20.0,
              "copay_opt": "AFTER-DEDUCTIBLE",
              "coinsurance_rate": 0.10,
              "coinsurance_opt": "BEFORE-DEDUCTIBLE"
```

Providers - providers.json

Description

providers.json contains a list of providers and the plans that cover their services.

If a provider has more than one NPI number, please create separate entries for each NPI number. If there is no NPI number, set the value to null ({"npi": null})

Schema

Field	Label	Definition	Required
npi	National Provider ID	The 10-digit National Provider Identifier (NPI) is a unique identification number for covered health care providers	Yes

Field	Label	Definition	Required
type	I ype	Specify if INDIVIDUAL or FACILITY	Yes
plans	Plans	Array of plans that cover this provider (see "Plans sub-type" below)	Yes
last_updated_on		Date of when the record for this provider has been last updated or refreshed - ISO 8601 format (e.g. YYYY-MM-DD)	Yes

If the entry is for an INDIVIDUAL then the following fields should be present:

Field	Label	Definition	Required
name	Name	-	Yes
prefix	Prefix	One of Mr., Mrs., Miss, Ms., Dr.	No
first	First Name	Full first name	Yes
middle	Middle Name	Full middle name	No
last	Last Name	Full last name	Yes
suffix	Suffix	One of Jr., Sr., II, III, III, III, IV	No

Field	Label	Definition	Required
addresses	Address	List of addresses for this provider	Yes
address	Street Address	-	Yes
address_2	Street Address 2	-	No
city	City	-	Yes
state	State Abbreviation	Two letter state abbreviation (FL, IA, etc.)	Yes
zip	Zip Code	Five digit zip code, represented as a string	Yes
phone	Phone Number	Phone number for this address, represented as a string of numbers	Yes
speciality	Specialty Type	An array of speciality types. Free form text field.	Yes
accepting	Accepting Patients	Is the provider accepting new patients? One of three values: accepting, not accepting in some locations	Yes
gender	Gender	Values: Male, Female, Other	No
languages	Languages Spoken	An array of the languages spoken	Yes

If the entry is for a FACILITY then the following fields should be present:

Field	Label	Definition	Required
facility_name	Facility Name	_	Yes

Field	Label	Definition	Required
facility_type	Facility Type	An array of facility types. Free-form text field.	Yes
addresses	Address	List of addresses for this facility (Limit 1)	Yes
address	Street Address	-	Yes
address_2	Street Address 2	-	No
city	City	-	Yes
state		etc.)	Yes
zip		Five digit zip code, represented as a string	Yes
phone	Phone Number	Phone number for this address, string	Yes

Plans sub-type

Field	Label	Definition	Required
plan_id_type	ID Туре	Type of Plan ID. For all Marketplace plans this should be: HIOS-PLAN-ID	Yes
plan_id	Unique Identifier	The plan ID that was used in the plans.json as the plan_id value. For a Marketplace plan, this must be the 14-digit HIOS plan id.	Yes
network_tier	Network Tier	Tier for network (Example Values: PREFERRED, NON-PREFERRED, etc. Values should be all uppercase.) Must match a network tier defined in the corresponding plan record in a plans.json file.	Yes

Example

```
[
    {
        "npi": "1234567893",
        "type": "INDIVIDUAL",
        "name": {
            "first": "Sarah",
            "middle": "Maya",
            "last": "Ngyuen",
            "suffix": "Jr."
        },
        "addresses": [
          {
            "address": "123 Main St",
            "address_2": "Suite 120",
            "city": "Little Rock",
            "state": "AR",
            "zip": "72201",
            "phone": "2025551212"
          },
          {
            "address": "675 South St",
            "city": "Little Rock",
            "state": "AR",
            "zip": "72201",
            "phone": "2025551212"
          },
        ],
        "specialty": ["Ophthalmology", "Endocrinology"],
        "accepting": "accepting",
        "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"
```

```
}
        ],
        "languages": ["English", "Spanish", "Mandarin"],
        "gender": "Female",
        "last_updated_on": "2015-03-17"
    },
    {
        "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"
    }
]
```

Drugs - drugs.json

Description

drugs.json contains a list of drugs and the plans that cover them.

Schema

Field	Label	Definition	Required
rxnorm_id	Drug Identifier	RxCUI (Specific drug identifier from RXNORM)	Yes
drug_name	Drug Name	Name of Drug	Yes
plans	Plans	Array of plans that cover this drug (see "Plans sub-type" below)	Yes

Plans sub-type

Field	Label	Definition	Required
plan_id_type	ID Type	Type of Plan ID. For all Marketplace plans this should be: HIOS-PLAN-ID	Yes
plan_id	Unique Identifier	The plan ID that was used in the plans.json as the plans.json as the plan_id value. For a Marketplace plan, this must be the 14-digit HIOS plan id.	Yes

Field	Label	Definition	Required
drug_tier	Drug Tier	Tier for formulary (Example Values: GENERIC, PREFERRED- GENERIC, NON-PREFERRED- GENERIC, SPECIALTY, BRAND, PREFERRED-BRAND, NON-PREFERRED-BRAND, ZERO-COST-SHARE- PREVENTIVE, MEDICAL- SERVICE, etc. Values should be all uppercase.)	Yes
prior_authorization	Prior Authorization Required	Is prior authorization required? - (boolean value: true or false)	No
step_therapy	Step Therapy Required	Is step therapy required? - (boolean value: true or false)	No
quantity_limit	-	Is there a quantity limit for this drug? - (boolean value: true or false)	No

Example

```
[
    {
        "rxnorm_id": "209459",
        "drug_name": "Acetaminophen 500 MG Oral Tablet [Tylenol]",
        "plans": [
            {
                "plan_id_type": "HIOS-PLAN-ID",
                "plan_id": "12345XX9876543",
                "drug_tier": "GENERIC",
                "prior_authorization": false,
                "step_therapy": false,
                "quantity_limit": false
            },
            {
                "plan_id_type": "HIOS-PLAN-ID",
                "plan_id": "56748XXX123933",
                "drug_tier": "GENERIC",
                "prior_authorization": false,
                "step_therapy": false,
                "quantity_limit": false
            }
        ]
    },
    {
        "rxnorm_id": "248656",
        "drug_name": "Azithromycin 500 MG Oral Tablet [Zithromax]",
        "plans": [
            {
                "plan_id_type": "HIOS-PLAN-ID",
                "plan_id": "12345XX9876543",
                "drug_tier": "GENERIC",
                "prior_authorization": false,
                "step_therapy": false,
                "quantity_limit": true
            },
            {
                "plan_id_type": "HIOS-PLAN-ID",
                "plan_id": "56748XXX123933",
                "drug_tier": "GENERIC",
```