

RESTful Non-Patient Instance Storage (NPIS)

Supplement 194 Public Comment

Non-Patient Instances are DICOM IOD Instances that are not related to patients. Examples are:

- Color Palette
- Hanging Protocols
- Implante Templates
- Protocol Definitions

The purpose of this supplement is to define a RESTful Web Service that allows a client (user agent) to store, retrieve, and search for NPI Instances on an origin server.

- Create a RESTful service that can Store, Retrieve, and Search for NPI Instances
- Use the Studies RS as a model for the transactions, and try to deviate as little as possible.

The URI Template for NPI Resources is:

```
{npi-name}/{uid}
```

Where

```
npi-name= "color-palette"  
          / "hanging-protocol"  
          / "implant-template"  
          / ...  
uid       = dicom-uid
```

Open Issue:

Should there be an NPI root resource, e.g.

```
/npi/{npi-name}/{uid}
```

- **Acceptable Media Type**

`accept-qp = "accept=" media-type`

`charset-qp = "charset=" charset`

The Accept Query Parameters may be used by all transactions

- **Search**

`match* = (attribute = value)*`

`include = attribute*`

`page = "offset" = uint / "limit" = uint`

The Search Query Parameters may only be used with the Search Transaction

Retrieve Capabilities

Retrieves the Capabilities Description document from the origin server.

Retrieve

```
GET /{npi-name} / {uid} {? Accept-parameters*}
```

Retrieves a single NPI Instance

Store

```
POST /{npi-name} {/uid} {? Accept-parameters*}
```

Stores one or more NPI Instances

Search

```
POST /{npi-name} ? {? Accept-parameters*} {search-parameters*}
```

Searches for Instances on an NPI origin server. The parameters are the standard search parameters: `match*`, `include`, `offset`, and `limit`

The NPI Service supports the following DICOM Media Types:

- application/dicom *optional*
- application/dicom+json *required*
- application/dicom+xml *optional*

Open Issue:

Should the 'application/dicom' media type be required?

Would it be useful to support an text/html media type?