RESTful
Non-Patient Instance Storage (NPIS)
Supplement 194 Public Comment
Non-Patient Instance (NPI)

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.
Goals

- 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
Query Parameters

- **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
Transactions

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
Media Types

The NPI Service supports the following DICOM Media Types:

- application/dicom   \textit{optional}
- application/dicom+json \textit{required}
- application/dicom+xml \textit{optional}