

## **RESTful Non-Patient Instance Storage Service**

# Non-Patient Instance (NPI)

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

## **Examples are:**

- Color Palette
- Hanging Protocols
- Implant Templates
  - Generic
  - Assembly
  - Groups
- 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:

```
{type}/{uid}
```

Where

```
type = "color-palette"  
      =/ "hanging-protocol"  
      =/ "implant-template/assembly"  
      =/ "implant-template/generic"  
      =/ "implant-template/group"  
      =/ ... ; can be extended with other NPIs  
uid   = dicom-uid
```

## ❑ **Acceptable Media Type and Character Set**

```
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 /{type}/{uid} {?accept-parameters*}
```

Retrieves a single NPI Instance

## Store

```
POST /{type}/{uid} {?accept-parameters*}
```

Stores one or more NPI Instances

## Search

```
POST /{type}?{?accept-parameters*} {?search-parameters*}
```

Searches for matching NPI Instances.

The NPI Service supports the following DICOM Media Types:

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