

Posting a DICOS file that has concatenation elements:

```
POST /dicos/data HTTP/1.1

{
  "dicos_general_scan": {
    "scan_instance_uid": "0000-000-00000-00000000",
    "scan_date": "2022-01-22",
    "scan_time": "14:34:00-05",
    "scan_id": "1"
  },
  multiframe_functional_groups: {
    "concatenation_frame_offset": "0",
    "inconcatenation_number": "4",
    "inconcatenation_total_number": "4"
  },
  "sop_common": {
    "dicos_version": "V02A",
    "sop_class_uid": "TDR"
    "sop_instance_uid": "0000-000-00000-00000000"
  },
  data: [binary DICOS data ]
}
```

Retrieving a DICOS data file: Data can be requested via Object of Inspection information or the unique SOP Instance UID

```
GET /dicos/data?ooi_id=000123456&ooi_assigning_authority_id=COMPANY

[ Binary data received ]
```

(I am unsure how to respond when multiple DICOS files match the ID information supplied)

```
GET /dicos/data?sop_instance_uid=0000-000-00000-00000000

[ Binary data received ]
```

Retrieving a list of matching DICOS files:

```
GET /dicos/sop?ooi_id=000123456&ooi_assigning_authority_id=COMPANY

{
  "sop_common_array": [
    {
      "dicos_version": "V02A",
      "sop_class_uid": "TDR"
      "sop_instance_uid": "0000-000-00000-00000000"
    }
  ]
}
```

```
    },
    {
      "dicos_version": "V02A",
      "sop_class_uid": "TDR"
      "sop_instance_uid": "0000-000-00000-00000000"
    }
  ]
}
```

Retrieving DICOS meta-data, for fast analysis without having to parse a DICOS file:

```
GET /dicos/metadata?sop_instance_uid=0000-000-00000-00000000
```

```
{
  "general_scan": {
    "scan_instance_uid": "0000-000-00000-00000000",
    "scan_date": "2022-01-22",
    "scan_time": "14:34:00-05",
    "scan_id": "1"
  },
  "object_of_inspection": {
    "ooi_id": "000123456",
    "issuer_of_ooi_id": "COMPANY",
    "type_of_ooi_id": "TEXT"
  },
  "general_equipment": {
    "manufacturer": "COMPANY",
    "machine_location": "AIRPORT1",
    [ ... ]
  },
  "sop_common": {
    "dicos_version": "V02A",
    "sop_class_uid": "TDR"
    "sop_instance_uid": "0000-000-00000-00000000"
  }
}
```