### DICOM Correction Proposal

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<thead>
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<th>STATUS</th>
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<tr>
<td>Date of Last Update</td>
<td>2016/03/15</td>
</tr>
<tr>
<td>Person Assigned</td>
<td>Jim Philbin (<a href="mailto:james.philbin@jhmi.edu">james.philbin@jhmi.edu</a>)</td>
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**Correction Number**

CP1614

**Log Summary:** Add a ‘bulkdata’ sub-resource to Study Series and Instance

**Name of Standard**

PS3.18 2016a

**Rationale for Correction:**

Currently there is no why to retrieve all the Bulkdata for a Study, Series, or Instance. This CP defines these resources.

**Correction Wording:**

*Update PS3.18, Section 6.5 as follows:*

**6.5 WADO-RS Request/Response**

The DICOM RESTful Service defines several action types. An implementation shall support all the following six action types:

...  
5. **RetrieveBulkdata**

This action retrieves the bulk data for a given Study, Series, Instance or a bulk data URL that references a single bulk data value. The response contains all the bulk data for a Study, Series, or Instance; or is a single bulk data item value.

...  

*Update PS3.18, Section 6.5.5 as follows:*

**6.5.5 WADO-RS - RetrieveBulkdata**

This action retrieves the bulk data for a given bulk data URL. The response is a single bulk data item.

**6.5.5.1 Request**

The specific Services resource to be used for the RetrieveBulkdata action shall be as follows:

- **Resource**
  - **Resources**
    - **{BulkDataURL}, where**
      - **{BulkDataURL}** is the an opaque URL of a bulk data element value. This may be is typically the URL attribute contained in of—a BulkData element attribute—received in response to a WADO-RS RetrieveMetadataRequest.
The server shall always return the same bulk data value for a specified BulkData URL if the data is available.

If the resource specified by the BulkData URL is not available, the server shall return:

- 404 - Not Found, if the server expects to be able to return the resource again in the future
- 410 - Gone, if the server does not expect the resource to be valid in the future

The server determines the period of time a BulkData URL resource is available.

One of the following:

{SERVICE}/studies/{StudyInstanceUID}/bulkdata
{SERVICE}/studies/{StudyInstanceUID}/series/{SeriesInstanceUID}/bulkdata
{SERVICE}/studies/{StudyInstanceUID}/series/{SeriesInstanceUID}/instances/{SOPInstanceUID}/bulkdata

where

- {SERVICE} is the base URL for the service. This may be a combination of protocol (either http or https), host, port, and application.
- {StudyInstanceUID} is the study instance UID for a single study.
- {SeriesInstanceUID} is the series instance UID for a single series.
- {SOPInstanceUID} is the SOP Instance UID for a single SOP Instance.

These resources specify the all the bulk data of the Study, Series, or Instance respectively.

The server shall always return all of the bulk data values for these resource if the data is available.

If the specified resource is not available, the server shall return:

- 404 - Not Found, if the server expects to be able to return the resource in the future
- 410 - Gone, if the server does not expect the resource to be available in the future

The URI Template “{BulkDataURL}” is used throughout PS3.18 to specify a URL reference to one of the following resources: Study, Series or Instance bulk data or an opaque URL referencing a bulk data value.