DICOM Correction Proposal

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| STATUS | New |
| Date of Last Update | 2016/03/15 |
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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:

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1. 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**.

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*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 Retrieve Bulkdata action shall be as follows:

* **~~Resource~~**
* **Resources**
* **{BulkDataURL}, where**

**{BulkDataURL~~}~~** is **~~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~~** **Bulk Data URL** if the data is available.

If the resource specified by the **~~BulkData URL~~** **Bulk Data 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~~** **Bulk Data URL** resource is available.

* **One of the following:**

**{SERVICE}/studies/{StudyInstanceUID}/bulkddata** **{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.**

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