

Data File URLs Containing Backslashes Cause an 'Invalid URL' Error During LIS Bulk Data Exchange

Article Number

000063311

Description

An "Invalid URL" error will be thrown if the URL to the data file contains a backslash (\) when sending a request to the Bulk Data Exchange endpoint in a LIS 2.0 Final type integration. This has been seen on SIS systems hosted on Windows and occurs because Windows uses backslashes for its path structure instead of forward slashes.

KB Product

Learn Software

Last Modified Date

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Release

9.1;SaaS

Release (General)

9.1;SaaS

Resolution Workaround

Workaround 1:

1. Move the location of the data file so that the path to it does not require including a backslash

Example:

- <https://sis.url:8443/top-folder/filedownload?file-path=data-file.xml>

instead of

- <https://sis.url:8443/top-folder/filedownload?file-path=sub-folder\data-file.xml>

Workaround 2:

1. URL encode the backslash

Example:

- <https://sis.url:8443/top-folder/filedownload?file-path=sub-folder\data-file.xml>

becomes

- <https://sis.url:8443/top-folder/filedownload?file-path=sub-folder%5Cdata-file.xml>
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Service Pack(s)

Learn 9.1 Q4 2016 (3100.0.0-rel.107+401e22b);Learn 9.1 Q2 2016 (3000.1.0-rel.52+991d2bf);Learn 9.1 Q4 2015 (9.1.201510.1171621);Learn October 2014 (9.1.201410.160373)

Service Packs

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Steps to Replicate

1. Access Blackboard Learn as an administrator
2. Navigate to **System Admin > Data Integration > Student Information System Integrations**
3. Create an "IMS LIS 2.0 Final" integration
4. Ensure a "Batch Service" and "Batch Download" username and password are set according to configuration on SIS system
5. Ensure SIS System is configured in such a way that the bulk data exchange data file is inside a sub-folder
6. Initiate a Bulk Data Exchange interaction from SIS

Observed Behavior:

The following error occurs:

BulkDataExchangeManagementService.announceBulkDataExchange - invalid url - https://sis.url:8443/top-folder/filedownload?file-path=sub-folder\data-file.xml

Expected Behavior:

An error does not occur.

Summary

An "Invalid URL" error will be thrown if the URL to the data file contains a backslash (\) when sending a request to the Bulk Data Exchange endpoint in a LIS 2.0 Final type integration. This has been seen on SIS systems hosted on Windows and occurs because Windows uses backslashes for its path structure instead of forward slashes.

Target Release

Will Not Fix

Title

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