

[JSON] Consume json file generated by Copy Activity

Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

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Issue

If customer use copy activity to generate some JSON files, then try to read these files in dataflow, it may fail with following error message:

JSON parsing error, unsupported encoding or multiline

Root Cause

There are following known limitations on JSON for copy & dataflow respectively:

- For Unicode encodings (utf-8, utf-16, utf-32) JSON files, copy activity always generate the JSON files with BOM
- Dataflow JSON source with "single document" or "Array of documents" selected as document form doesn't support Unicode encoding with BOM

✓ Validate ☐ Data flow debug ●

source1

Source settings

Source options

Projection

Optimize

Inspect

Data preview

File settings

File mode ⓘ


☒ File ☐ Wildcard

File path *

Container

/ Folder path

/ File name

 Browse

Allow no files found ⓘ

☐

Compression type

None



Encoding

Default(UTF-8)



Other settings

Document form ⓘ

☐ Single document

☐ Document per line

☒ Array of documents

Unquoted column names ⓘ

☐

Has comments ⓘ

☐

Single quoted ⓘ

☐

Backslash escaped ⓘ

☐

Partition root path ⓘ

List of files ⓘ

☐

Column to store file name ⓘ



After completion *

☒ No action

☐ Delete source files

☐ Move

Start time (UTC)

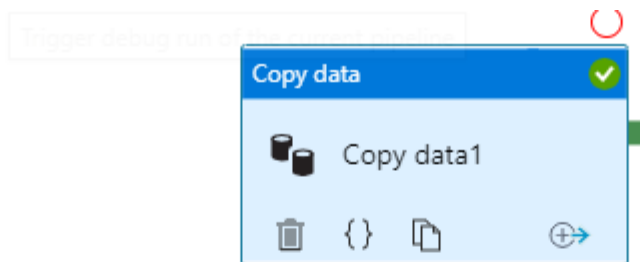
End time (UTC)

Filter by last modified

 ⓘ

So if it meets following criteria, customer will experience issue:

- The sink dataset used by copy activity is set to Unicode encoding (utf-8, utf-16, utf-16be, utf-32, utf-32be) or default is used
- Copy Sink is set to use "Array Of Objects" file pattern (no matter whether "single document" is enabled or not in dataflow JSON source)



General Source **Sink** Mapping Settings User properties

Sink dataset *

json_output_temp_fromCopy

Open + New

Copy behavior

None

Max concurrent connections

Block size (MB)

File pattern

Array of objects

Resolution #1

- Set encoding to "UTF-8 without BOM" in copy sink dataset, then the json files generated won't have BOM.

Resolution #2

- Always use default file pattern or explicit "Set of Objects" pattern in copy sink if the generated files will be used in dataflow
- Select "Document per line" as document form in dataflow JSON source

Note: Using "Set of Objects" is also the recommended practice from performance perspective, as the "Single document" JSON in dataflow can't enable parallel read for single large files, so this resolution won't have any negative impact.