ADF AT SCALE - CONVERSION AND DE-CONVERSION OF ADF TO JSON

INTRODUCTION
This project is one piece in supporting the broader effort of adopting ADF at-scale. The purpose is to build technology that speeds the adoption and implementation of ADF technology for member companies. In a previous effort, TetraScience provided a mechanism to rapidly create leaf-node ADFs, eliminating the dependency on full-graphs for, and improving time-to-value for ADF technology.

A second component to this effort, specifically covered in this project, is to enable the de-conversion of ADF back into JSON, allowing it to be more easily transported and used via web-based services and infrastructure, and exposing this functionality through a RESTful interface. This allows ADF to seamlessly work with a wider range of technologies.

APPROACH
This project extends the functionality of the web-based ADF leaf-node converter presented at the April 2018 Allotrope Connect conference. To support the goals listed above, the converter will now support the following:

- Converting ADF leaf nodes into JSON
- Web API for POSTing ADF leaf nodes and retrieving JSON files and
- A small UI for representing de-converted ADFs as JSON
- Web API for POSTing Excel files and producing ADFs/JSON

FUTURE STATE
Current ADF conversion is performed on a one-off basis, with no commercially supported approach of producing ADF files at-scale. Using the leaf-node approach, TetraScience can provide a full-service Allotrope ecosystem that enables ADF to be used as the transfer format between upstream and downstream applications.

To see all this in action, Generate your own leaf node ADFs at: allotrope.tetrascience.com