WHAT IS Portfolio Management

Firms often leverage their own expertise in the front and middle office to build internal applications that integrate with a 3rd party Order Management System and act as a portal for their portfolio managers to execute trades. SEI's Portfolio Management APIs deliver real-time position level data allowing investment managers to build their own proprietary applications for trade execution and decision support rather than pay additional fees to license these features in a OMS application.

HOW IT WORKS

STEP 1

›Confirm that your application can consume asynchronous RESTful operations:

• The Portfolio Management API returns a response code of 202 (Accepted) along with a requestId in API response rather a 200 or 201.

• Another API request is then required to retrieve the data object associated with the request in this pattern.

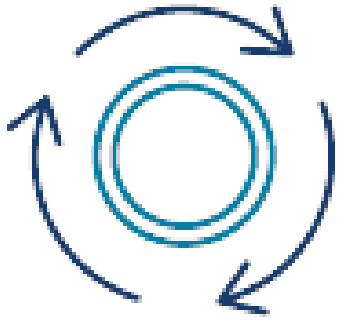
STEP 2

›Further confirm that your application can parse the .json object. Alternative, request in .csv format if this is more consumable by your application.

- The requestId is then passed to a GET operation.
- If the report request is not yet completed, the object will be returned with a status of "In Progress".
- If the report request is completed, data object will be returned with the response.
- For example, a Transactions History request would return an enclosed data object most likely with transactionIds, amounts, and reference data fields.

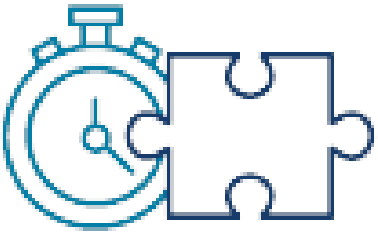
STEP 3

› Build a retry policy in your application:
• Due to the asynchronous RESTful operations pattern, your application should implement a retry policy.
• Once generating a valid requestId, typical completion of reports requests should be sub-second.
• Due to this, SEI recommends an exponential retry starting with a 1 second wait time and submitting a new request after 5 subsequent GET operations for the same requestId.
* 1st try - 1 second
* 2nd try - 2 seconds
* 3rd try - 4 seconds
* 4th try - 8 seconds
* 5th try - 16 seconds



STEP 4

›Reduce the number of API calls!
• Leverage the Time To Live features of your Oauth token, by only refreshing after 60 minutes if active and 30 minutes if inactive.



STEP 5

› Align your application timeout settings with that of SEI's API platform. We support 30 transactions per second (TPS) with timeout for API requests at 100 seconds.

STEP 6

› Load test your application, stimulating trading windows with your portfolio managers in your User Acceptance Testing (UAT) environment.

Assumptions:

- Any data required has been fully converted to SEI's repositories.
- The client will be responsible for setting up any Test environments for the UAT cycle.

DETAILS

Products Used: Reports

Platform: Windows

Developed by: SEI

Client Name: Hedge Client

Total Assets: 1 million

Employees: 10000