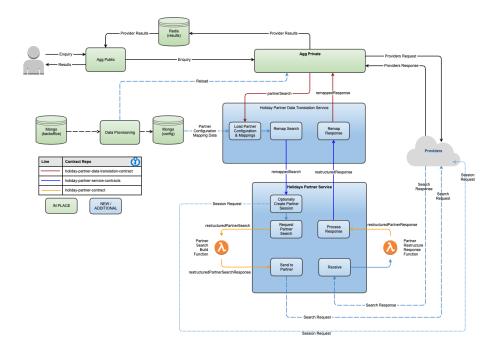
# **Holiday Partner Services**

Holiday partner services is split into four separate components: Aggregation integration, Holiday Partner Data Translation Service, Holiday Partner Service and a lambda for each integrated partner. The lambdas can contain up the three functions: session management, search restructure and response restructure. Each layer of these services performs a distinct process and attempts to minimise the total amount of code required to build out a partner integration. Below is a short summary of the roles of each of these activities:

Service/Code	Description/Role
Aggregation Integration	Agg will determine the number of unique requests that will be sent to a partner for a given enquiry. Where the partner is configured for Holiday Partner Services it will then institute a call to Data Translation Service for each of these.
Holiday Partner Data Translation Service	Data Translation will convert partner data values to and from TSM values based upon entries in the translationMap collection.
Holiday Partner Service	This service orchestrates calls to the restructure lambda functions and to the partner endpoints.
Partner Lambda(s)	A single lambda per partner that can contain a search restructure and a response restructure function.



### High Level Requirements

- Service code to be developed and ran under JDK 1.9
- Lambda code written under JDK 1.8 (AWS runtime restriction)
- Contracts with aggregation have to be written under JDK 1.7
- Decouple Holidays Partners from Aggregation
- Provide all existing debug information for aggregation from new services
- Individual partner changes should be isolated from other partners to allow for independent testing and release.

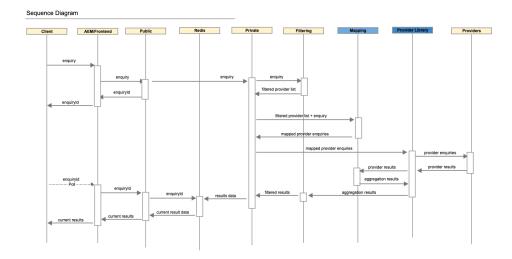
#### Solution outline

- Add a new service to perform data translation between TSM data and Partner data values. This service operates on data structures that are standardised across partners and provides in-place data remapping. It uses existing translation map data from the back office.
- Add a new service to provide http call management (orchestration) to partner lambdas and partner endpoints.
- Each partner, configured for execution with the Holiday Partner Service, requires a lambda with search and response processing functions. These partners will be configured in the back-office as http providerMode and will have the lambda URL added to the providerChannelConfiguration.

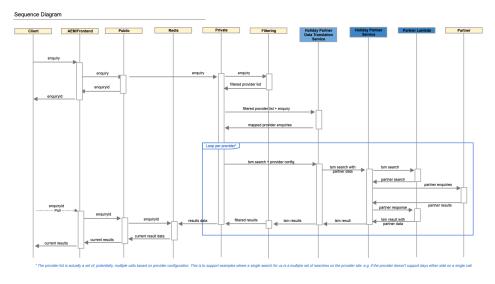
#### **Details**

ID	Item	Area	Team	Notes
1	Agg Private Partners Adapter	Aggreg ation	Partner	Enhance the aggregation engine to send partner enquiries with a providerMode of "http" to the Holiday Partner Data Translation Service.
2	Holiday Partner Data Translation Service	Service	Partner	Establish a service that provides generic data transformation from partner mapping look-up data (maps /dictionaries).
3	Holiday Partner Service	Service	Partner	Establish a service that manages https calls to partner lambdas and partner endpoints.
4	Partner Lambda	Lambda	Partner	The lambda contains two functions: search - structurally reformat a tsm search in a partner search, structurally reformat a partner response into a tsm result.
5	Mapping Data Integration	Back- Office	Partner	Ensure the current data provision and task deployment mechanisms are sufficient to run the Holiday Partner Data Translation Service.

Sequence diagram for existing aggregation engine operation against provider code libraries.



Sequence Diagram for calls using holiday partner service



## Epics

Key	Summary	Т	Created	Updated	Due	Assignee	Reporter	Р	Status	Resolution
TRAVL- 8137	PRIVATE AGG - Holiday Partner Service Integration	4	Aug 12, 2019	Sep 13, 2019		Unassigned	Colin Nwachukwu	=	BACKLOG	Unresolved

TRAVL- 8136	VERY - Partner Integration	4	Aug 12, 2019	Sep 13, 2019	Unassigned	Colin Nwachukwu	=	BACKLOG	Unresolved
TRAVL- 7114	Holiday Partner Service	4	Jun 05, 2019	Nov 15, 2019	Unassigned	Colin Nwachukwu	=	BACKLOG	Unresolved

3 issues