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| Use-Case Description | Composability Manager—Get Hop Distance for Aggregation Client to Resource |
| Actors | Composability Manager, Janusgraph database |
| Description | return Hop Distance from Aggregation Client to Resource |
| Input Data | ResourceID (Aggregation Client), ResourceID (Destination Resource) |
| Pre-Conditions | Janusgraph database is running, Sunfish service is running, Aggregation Client is operational, Aggregation Client Agent is connected, Destination Resource is operational, Destination Resource Agent is connected |
| Post Conditions | Hop Distance between Aggregation Client and Destination Resource returned |
| Trigger | Call is made to request Hop Distance for Aggregation Client to Resoruce |
| Normal Flow | * g.V().hasLabel(‘ResourceID’,ResourceID).values(’MessageID’, ‘aggregation client’, ‘destination resource’,) * {calculate number of edges for Aggregation Client Resource ID and Destination Resource ID} * Path found: return success |
| Alternate Flow 1 | * g.V().hasLabel(‘ResourceID’,ResourceID).values(’MessageID’, ‘aggregation client’, ‘destination resource’,) * {calculate number of edges for Aggregation Client Resource ID and Destination Resource ID} * No paths found: return failure |
| Alternate Flow 2 |  |