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| Use-Case Description | Composability Manager—Check Next Resource Connection Port |
| Actors | Composability Manager, Janusgraph database |
| Description | Return first resource connection port between source resource to destination resource |
| Input Data | ResourceID (Source), ResourceID (Destination) |
| Pre-Conditions | Janusgraph database is running, Sunfish service is running, Source Resource is operational, Source Resource Agent is connected, Destination Resource is operational, Destination Resource Agent is connected |
| Post Conditions | Using edge, return Destination vertex |
| Trigger | Call is made to request source to destination connection vertex |
| Normal Flow | * g.V().hasLabel(‘ResourceID’,ResourceID).values(’MessageID’, ‘client resource’, ‘destination resource’,) * {Check edge for client resource ID and destination resource ID} * return success |
| Alternate Flow 1 | * g.V().hasLabel(‘ResourceID’,ResourceID).values(’MessageID’, ‘client resource’, ‘destination resource’,) * {Check edge for client resource ID and destination resource ID} * return failure |
| Alternate Flow 2 |  |