MEC API Framework

Link to process-SC review record Graduation reviews

**Project Technical Lead:** Lokanath Padhu

**Project Committers detail:**

Initial Committers for a project will be specified at project creation. Committers have the right to commit code to the source code management system for that project.

A Contributor may be promoted to a Committer by the project’s Committers after demonstrating a history of contributions to that project.

Candidates for the project’s Project Technical Leader will be derived from the Committers of the Project.

Only Committers for a project are eligible to vote for a project’s Project Technical Lead.

Please see Akraino Technical Community Document section 3.1.3 for more detailed information.

<table>
<thead>
<tr>
<th>Committer</th>
<th>Company</th>
<th>Committer Contact Info</th>
<th>Self Nominate for PTL (Y/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lokanath Padhu</td>
<td>Nokia</td>
<td><a href="mailto:lokanath.padhu@nokia.com">lokanath.padhu@nokia.com</a></td>
<td>Y</td>
</tr>
<tr>
<td>Pekka Kuure</td>
<td>Nokia</td>
<td><a href="mailto:pekka.kuure@nokia.com">pekka.kuure@nokia.com</a></td>
<td></td>
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Use case

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>Use Case Attributes</strong></td>
<td><strong>Description</strong></td>
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<tr>
<td><strong>Type</strong></td>
<td>New submission</td>
</tr>
<tr>
<td><strong>Industry Sector</strong></td>
<td>Telco and carrier networks, enterprise networks, private networks, multi-access networks, edge cloud and verticals</td>
</tr>
<tr>
<td><strong>Business driver</strong></td>
<td>One of the key drivers of 5G Systems are ultra low latency and high reliability communications enabled by edge clouds. Services can be hosted close to the end users and new type pf services can be enabled by exposing contextual information to applications. In this framework the services can be enhanced with Machine Learning. Applications hosted in distributed cloud i.e. edge and central cloud, can consume services offered by service producers. Service consumers can discover the services that are available in that location via API framework. Similarly, the service producers can advertise their offerings via the same API framework. In addition to service discovery, the API framework allows authentication and authorization and can also provide communications transport to the service consumers and producers.</td>
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</tbody>
</table>
| **Business use cases** | For Example:  
1. An application in an enterprise network providing services using contextual information based on the location and Wifi network information  
2. In a private network in a factory, an application collects IoT sensor information and makes it available to machine learning functions  
3. An application in an edge cloud using radio network information and V2X control path information from a mobile network offers safety information to vehicles on the road |
| Business Cost - Initial Build | Depending on the deployment |
| Business Cost - Operational | N/A |
| Operational Need | Orchestration framework (such as ONAP) needs to enable applications in a distributed cloud discovering their local service registry for service discovery |
| Security Need | The solution should support granular access control and secure communications between service producer and service consumer |
| Regulations | N/A |
| Other Restrictions | Additional details |