Mosaic5G is a non-profit initiative fostering a community of industrial as well as academic contributors for open-source software development to realize the service-oriented vision of 5G. It was formed to develop, promote, and share an ecosystem of open-source platforms and use-cases for 5G system R&D leveraging SDN, NFV, and MEC technology enablers. Mosaic5G targets three core dimensions: Open collaborative communities, Open control plane and user plane APIs, and Open data & analytics.

### Mosaic5G

Five software components are included: (1) JOX as the service orchestrator, (2) Store as the repository of applications and datasets, (3) LL-MEC as the core network and edge controller, (4) FlexRAN as the real-time radio access network (RAN) controller, and (5) OpenAirInterface (OAI) RAN and OAI CN as the 3GPP-compliant 4G/5G implementation.

### Schema

<table>
<thead>
<tr>
<th>JOX (Orchestration &amp; Management)</th>
<th>JSlice controller</th>
<th>JCloud controller</th>
<th>JOX plugins</th>
<th>Juju VNFM</th>
<th>Charm Store</th>
<th>Slice Info Base</th>
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</thead>
<tbody>
<tr>
<td>Store (Data &amp; Service &amp; App)</td>
<td>Open Data APIs</td>
<td>Monitoring Apps</td>
<td>Control Apps</td>
<td>Analytics Apps</td>
<td>SDK</td>
<td>Knowledge Base</td>
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<tr>
<td>FlexRAN (RAN Platform)</td>
<td>Virtualization &amp; Slicing</td>
<td>RAN Runtime</td>
<td>Virtualization &amp; Slicing</td>
<td>LL-MEC (Edge/CN Platform)</td>
<td>Edge/CN Controller</td>
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<tr>
<td>OAI-RAN &amp; OAI-CN (Infrastructure)</td>
<td>RAN-CU (Edge Node)</td>
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</tbody>
</table>

### Paradigms

- **eHealth**
- **IoT**
- **Green Networking**
- **V2X**

Mosaic5G Schema

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**User**
- Access to the code and documentation
- Access to mailing lists and get support
- Share use-case and PoC

**Contributor**
- Access to the code and documentation
- Access to Training and prototyping sessions
- Access to new features and fixes
- Lead a collaborative R&D project
- Contribute to the source code

**Sponsor Partner**
- Build a custom solution for your use-case
- Get support to build a PoC
- Establish a collaborative R&D project
- Become member of advisory board
- Access to the Mosaic5G lab environment
- User and partner benefits

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