

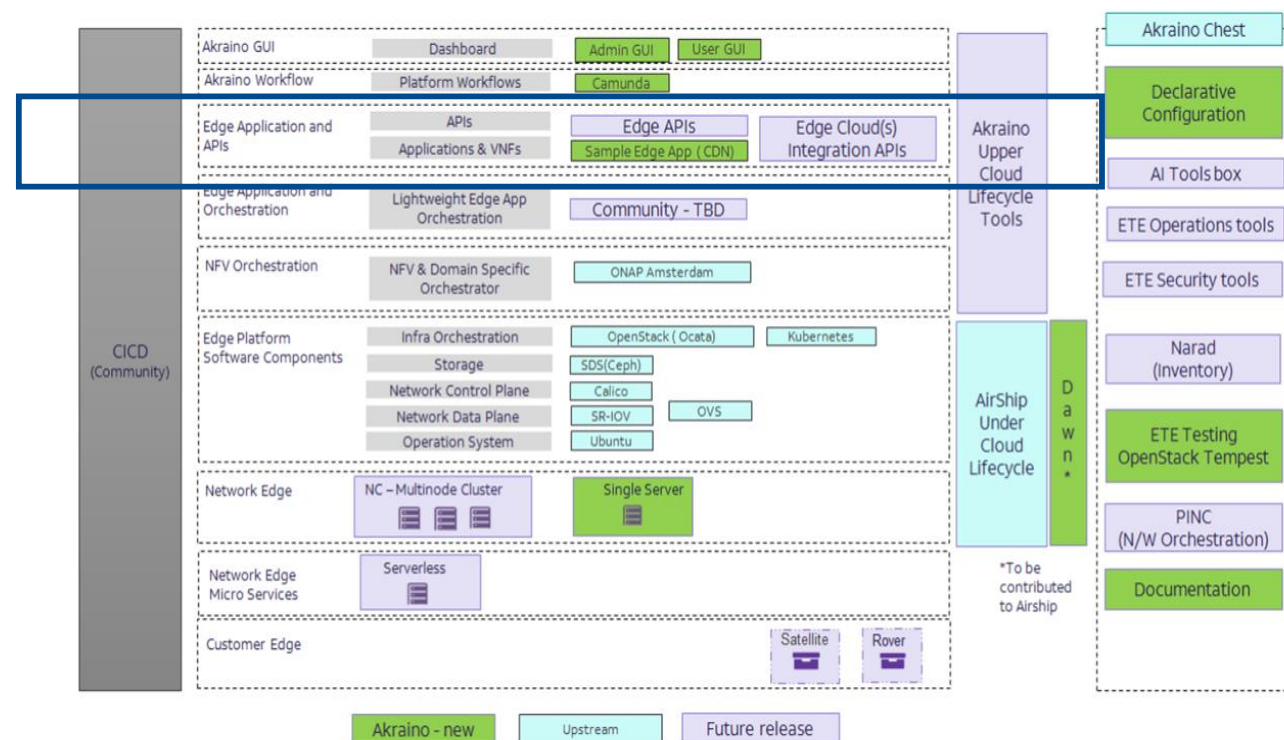
# API framework



**API Framework is a collection of mechanisms to enable applications in distributed cloud.** The framework offers services that bring applications and services together by allowing application to offer or consume services either locally or remotely. The basic functionalities of API framework are **service registration, services discovery, new service notifications and service availability notifications.** The services can be offered by a platform that provides this API framework or applications that are associated with this framework, and with these functionalities a microservices environment can be created.

The basic communications protocol is over RESTful Http, but for services that require more powerful or one to many communications, **the API framework supports discovery for alternative transports such as MQTT, AMQP, Kafka or other transports.**

The API framework in scope of the work, is built on OpenAPI2.0/3.0 definitions of ETSI MEC available at [forge.etsi.org](https://forge.etsi.org)



**Akraio Telco Cloud Reference Arch**

# Building blocks to enable Apps in Distributed Cloud

<b>Application Enablement (API Framework)</b>	<b>API Principles</b>	<b>Specific service-related APIs</b>	<b>Management and Orchestration related APIs</b>
<p>A framework for delivering services which may be consumed or offered by (<b><i>locally hosted or remote</i></b>) authorized applications. It enables:</p> <ul style="list-style-type: none"> <li>• registration, announcement, discovery and notification of services;</li> <li>• communication support for services (query/response and notifications).</li> </ul>	<p>A set of API principles and guidance for developing and documenting APIs inside or outside ETSI which <b><i>ensures that a consistent set of APIs</i></b> are used by developers.</p> <p><b><i>The work was inspired</i></b> by the TMF and OMA best practices.</p> <p>The APIs are designed to be <b><i>application-developer friendly</i></b> and easy to implement so as to <b><i>stimulate innovation</i></b> and foster the development of applications.</p>	<p>Services <b><i>expose network and context information</i></b> via specific service-related APIs.</p> <p>A different set of services may be applicable at different locations</p>	<p>Facilitate the running of applications <b><i>at the correct location at the right time</i></b>, based on technical and business parameters</p>

Enables a myriad of new use cases across multiple sectors as well as innovative business opportunities

# Examples of service-related APIs (ETSI MEC)

## Flexible framework to allow services ecosystem in distributed clouds

