

# Project Cassini - IoT and Infrastructure Edge Blueprint Family

## Family - Project Cassini - IoT and Infrastructure Edge

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|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Use Case Attributes                    | Description                                                                                                                                                                                                                                        | Informational                                                                                                                                                                                                               |
| Type                                   | New                                                                                                                                                                                                                                                |                                                                                                                                                                                                                             |
| Blueprint Family - Proposed Name       | Project Cassini - Unlocking the IoT and Infrastructure Edge's potential                                                                                                                                                                            | There are many possible Use Cases that would be covered under Project Cassini                                                                                                                                               |
| Use Case                               | All of the use cases under Project Cassini                                                                                                                                                                                                         | See below                                                                                                                                                                                                                   |
| Blueprint proposed                     | Smart Cities<br>Industrial IoT Gateways<br>Software-Defined Embedded Edge<br>Orchestrating Apps at the edge<br>Universal CPE<br>Software-Defined Smart Cameras<br>IIoT and Smart Manufacturing<br>Connected Space and Smart Buildings<br>Oil & Gas | Explore how the Secure Municipal, Agricultural, Rural, and Telco Edge Research (SMARTER) stack leverages Project Cassini for virtualized, multi-tenant architectures for Intelligent Gateways for smart city architectures. |
| Initial POD Cost (capex)               | Varies widely depending on the Blueprint                                                                                                                                                                                                           |                                                                                                                                                                                                                             |
| Scale of Servers                       | Varies widely depending on the Blueprint                                                                                                                                                                                                           |                                                                                                                                                                                                                             |
| Applications                           | Multiple workloads on diverse devices and gateways, deployed through containers and orchestrated in a uniform and consistent way regardless of the application, OS, OEM/ODM or Silicon provider                                                    |                                                                                                                                                                                                                             |
| Power Restrictions                     | None/Varies                                                                                                                                                                                                                                        |                                                                                                                                                                                                                             |
| Preferred Infrastructure orchestration | Docker/K8 - Container Orchestration<br>Integration of PARSEC with runtime environment<br>OS - Linux, Windows IoT, Android, both commercial or off the shelf Open Source OS.                                                                        |                                                                                                                                                                                                                             |
| Additional Details                     | <b>Project Cassini</b> is an open, collaborative, standards-based initiative to deliver a cloud-native software experience across a secure Arm edge ecosystem.                                                                                     |                                                                                                                                                                                                                             |

This is for the Family, Blueprint creators are welcome to join by adding their name.

| Committer                       | Committer Company | Committer Contact Info                                     | Time Zone | Committer Bio                   | Committer Picture | Self Nominate for PTL (Y/N) |
|---------------------------------|-------------------|------------------------------------------------------------|-----------|---------------------------------|-------------------|-----------------------------|
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| Contributor | Contributor<br>Company | Contributor Contact Info | Time Zone | Contributor Bio | Contributor Picture |
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