Autonomous Drones

Campus Network Program 2021

As part of the Campus Network Program 2021, we as T-Systems - together with Deutsche Telekom's tech incubator hubraum - are looking to find partners with best-in-class solutions that represent the benefits of edge computing and 5G campus networks. A first application phase focusing on "Computer Vision" ended end of March. Now we are interested in solutions contributing especially to the areas "autonomous drones", "voice and speech recognition" or "Edge Computing-based simulations". More information about the program can be found here.

Autonomous drones: Our vision

We consider autonomous drones to have a tremendous potential for every industry. On customer's premises, computer vision already enables a wide range of valuable solutions. However, those solutions are often either stationary or bound to ground vehicles. With autonomous drones as a platform for other applications, computer vision can be elevated to a new height. The versatility of drones offers a wide range of use cases.

In exchange with our customers, we are thinking about e.g.

- Visual inspections
- Review of logistics
- Safeguarding areas, objects or individuals
- Autonomous deliveries
- ...

We strive to combine such computer vision on-top solutions with autonomous drones using our edge computing platform. With our platform we can deliver solutions on our own powerful EdgAir or edge computing infrastructure from our hyperscaler partners like AWS or Microsoft. Our containerized architecture allows us to integrate our own solutions alongside with partner solutions in a very convenient way. The drones control systems can be easily deployed on our containerized environment and by using our platforms computer vision framework, new computer vision solutions can be seamlessly integrated with our ecosystem.

Using our computer vision framework and platform services as a single point of control for drones and computer vision, even the most computationally demanding solutions can be realized to adapt drones' capabilities to every customer need.

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Which partners are we looking for?

With this program we are inviting every company which believes its solutions fit the benefits of Edge Computing and 5G Campus Networks to get in touch with us. However, we are especially interested to find partners which provide solutions within the area of autonomous drones.

The following paragraphs define requirements for potential partners.

What makes a great solution?

- You offer a system or platform to control drones autonomously (bundled with or without drones).
- Your solution is deployable on a local edge computing platform and can run without using a central cloud.
- Your drone platform can be extended with on top solutions, especially regarding computer vision.
- Your solution has a unique selling proposition in the market.
- Your solution has a proven maturity in terms of automation functionalities.
- Your solution is General Data Protection Regulation (GDPR) compliant.
- Your solution does not violate any law regarding indoor usage of autonomous drones in regard to worker safety.

What makes a great partner?

- You have a good industrial experience and in-depth understanding of drone automation.
- You are open to become part of a flexible ecosystem.
- You have an idea of how to make use of the capabilities of edge computing and high performance network connectivity like 5G or Wifi 6.

Why should you consider a partnership with us?

- You have the chance to integrate your solution within our product portfolio and to benefit from T-Systems and Telekom's sales activities and get to reach out to our business customers.
- You become part of highly flexible ecosystem.
- You get the opportunity to test your solution on T-Systems Edge Computing platform and Telekom's 5G Campus Network infrastructure.
- You get access to experts regarding campus networks as well as edge computing.

If you are interested, just [submit your application](#) until May 21, 2021!

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