

GIVING TECHNOLOGY A HEARTBEAT

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Network APIs

Enhanced 4G/5G functionality
for business applications



5G network capabilities exposed via APIs enable new business cases and improve existing ones. One example is Siemens Energy: They use the Quality on Demand APIs from Deutsche Telekom and T-Mobile US to improve the connectivity for their Remote Field Service HoloLens solution, which is hosted in Microsoft Azure. Microsoft has therefore integrated the APIs in Azure. At the Deutsche Telekom booth, you can see this solution and experience more APIs, the Deutsche Telekom and T-Mobile common API portal, and a lot more showcases that were already part of the 5G Early Access Programs in Berlin and Seattle.

Key facts

- 5G network capabilities exposed via APIs enable new business cases and/or improve existing ones
- Deutsche Telekom drives CAMARA together with other operators to de facto standardize intent-based APIs
- Deutsche Telekom and TMUS have implemented the first set of CAMARA APIs in US and DE networks
- Deutsche Telekom and TMUS have implemented a common API portal "T-DevEdge"
- Siemens Energy has tested network APIs from Deutsche Telekom and TMUS integrated in Microsoft Azure
- Deutsche Telekom and TMUS perform 5G Early Access Programs to provide early tests for customers



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At the Deutsche Telekom booth, you can experience which network capabilities are available and how these can be used to enable new, or improve existing, business use cases. Examples include the capability to verify the location of a device, which can be used for fraud prevention or logistic use cases, or capabilities to get information about a device such as roaming status or connectivity status. Further capabilities can be used to configure the behavior of the network to enable enhanced connectivity with Quality on Demand. Deutsche Telekom and T-Mobile US expose the first set of network capabilities via APIs for customer usage on a common T-DevEdge API portal.

The CAMARA alliance was initiated by Deutsche Telekom and other operators to “de facto standardize” these APIs to address enterprise customer demand for a seamless experience across telco networks and countries. Launched at the MWC 2022, CAMARA has grown in the meantime to more than 70 companies with over 250 experts and developers working on more than 10 API families.

Recognizing the value of network APIs, Microsoft Azure has opened up a new section in its marketplace called Azure Programmable Connectivity SDK to offer these APIs to its developer base. Siemens Energy uses Quality on Demand APIs from Deutsche Telekom / T-Mobile US and this SDK to improve the connectivity for their Remote Field Service Solution. Junior technicians or customers on site are supported by remote experts using the Mixed Reality Remote Assist app on Microsoft HoloLens 2 headsets. The Quality on Demand API prioritizes the data traffic of the HoloLens in the mobile network and reduces latency and jitter to a minimum. Technicians can now see the augmented video in the HoloLens with minimum delay in outstanding quality.

At the booth you can see lots more customer showcases that have already been tested in the 5G Early Access Programs that Deutsche Telekom and T-Mobile US perform in their Berlin, Kraków and Seattle labs. Customers can use these programs to test the latest network APIs in dedicated network environments.



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