VisiVa

"Virtually present in a remote place"

VisiVa service (Virtual Visit) is based on two combined concepts. A high definition camera is placed on a place of interest, possibly on mobile support, under 5G radio coverage, while one or more observers are located in remote locations. The camera is capable of generating a 4K (or higher) definition A/V stream.

The multimedia video content is collected by an application running in cloud, capable of reproducing the image towards one or more observation points. An observer will be able to guide the camera wearing a viewer, or using a smartphone or tablet, by moving it synchronously. One of the observers is actually enabled to lead the Virtual Visit, acting as presenter (Cicero) and assigning camera control to the participants, one at a time, according to requests. The camera is mounted on a motorized gimbal and users can move it quickly just by moving their head (with smartphone + cardboard or Oculus Quest), their devices or using the mouse on a PC.

Each user will have a dual view. In one window he will be able to see and control his own room, while in the other window he will have the view of the room from a tablet pointing to the speaker presenting the visit The speaker will have the right to lock all the rooms in a predefined position and then make them free to move again During the "block" phase, you can use your tablet to show details to users.

VisiVa 360 is an extension of the VisiVa service. Each user can see a different portion of video at the same time: this allows multiple users to connect to the same camera and have an independent view. The image quality depends on the quality of the camera used.

© 2022 NTT DATA Italia, All rights reserved

Features

"Remote Control of camera view"

Use cases can be related to Remote Assistance, TeleSurveillance, TeleMedicine scenarios, television applications (remote stadium, use of sports events in first person), virtual tourism (virtual visits to museums in both live and registered mode).

In case of radio 5G coverage (low latency – URLLC, high bandwidth – eMBB), the following features are offered:

- Delay between transmission and reception of the stream are between 5 and 10 seconds.
- Video quality: 4K definition (up to 20 Mbps stream per flow) or 8K definition (where supported by camera and observer's device, up to 120 Mbps per flow).
- Interactive chat: users will be able to interact via chat
- Cicero: through the Picture In Picture (PIP) function, the user of the content will always have the face of the speaker who is speaking visible in a small box.
- Broadcast on YouTube: it is possible to implement automatic live broadcast, as well as on a private server, on a chosen YouTube channel.

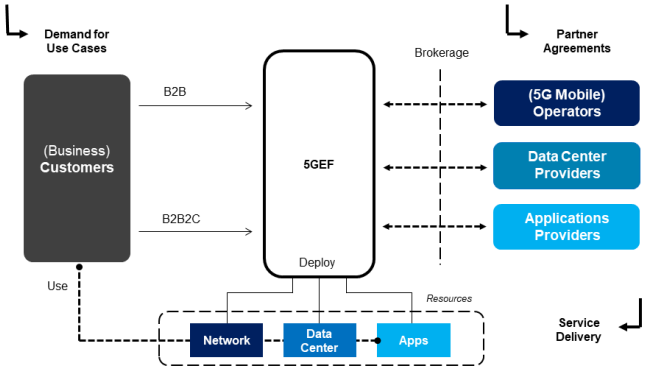
© 2022 NTT DATA Italia, All rights reserved

5G Enabling Fabric (5GEF)

"Enabling 5G Solutions as use cases for Customers"

5GEF is a cloud based platform specifically designed for configuring and delivering business services to enterprise customers.
NTT DATA's solution provides Telcos and MNOs with a modular platform for deploying business applications provided by any relevant vendor, to virtually any location worldwide, as easily as opening an account with a mainstream SaaS provider.

A slice-oriented architecture supports delivery of secure, dedicated services on a global shared platform, while an abstraction layer enables customer self-selection for automated launch of configurable use cases.



Additional key features:

- Standard Network Slicing model (GSMA).
- Now Ready for 4G or 5G NSA early deploy.
- Focused on 5G SA solutions.
- Deliverable for Cloud Service Providers.
- Supported Pay-per-use and SaaS applications.

© 2022 NTT DATA Italia, All rights reserved