

Powerful web connection for mountain resort Golte



Telkom Sistemi enabled a powerful Wi-Fi connection to Golte resort with Ruckus Wireless solution



Golte is a high karst plateau on the Northern part of Slovenia with magnificent views on surrounding mountains. Located on the top of the plateau at 1200 to 1600 meters above sea level lies one of Slovenia's most popular year round mountain centres -The Golte Resort (www.golte.si). The centre that extends on an area of 50 ha is visited by over 65,000 skiers per year. Recently it was taken over by the new owner, who has provided a thorough restoration. The objective of large-scale investment was clear, to extend Golte's prevalent status of a ski tourism centre known for beautiful slopes and establish it as a year round mountain resort. Amongst numerous other additions, the changes are most evident with the Hotel Golte which underwent major restorations in 2010. The beautiful new 4 star hotel situated directly on the ski slopes now has 55 rooms, modern conference room, 2 restaurants, spa and fitness, stores and even its own library. The surface area of the hotel is approx. 3000² m located on four floors. As part of restoration effort the information system was also modernized to meet the demands of today's visitors. The task was carried out with honours by our system integrator Telkom Systems Ltd. (www.telkom-sistemi.si).

Powerful web connection for remote locations

Just as with any other locations a powerful web connection is also a necessity for hard to reach resorts in remote locations. The connection is needed to support the basic business operations and to provide a web access for visitors. In the urban areas we have a myriad of wired connectivity options, but this is not the case in outskirts. Users have an option to install a fibre wire, but this is related to enormous costs and great complexity of getting the required permits. The perfect alternative for the creation of powerful backbone infrastructure comes in a form of Ruckus Wireless Wi-Fi bridge, ZoneFlex 7731. It is used to overcome the large distances between the POP (Point of Presence) sites and remote locations we want to connect. With supported transfer speeds of over 100 Mbps over long distances and the possibility of outdoor installation, it gives the capacity to implement the Internet access in less accessible locations.

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Wi-Fi Bridge is really a very interesting alternative for providing access to a wide range of objects in less accessible locations and we will certainly use it again in our future projects."

Mr. Janez Sevcnikar
general manager
Telkom Sistemi d.o.o.



With implementation of a single pair of Ruckus Wireless ZoneFlex 7731 Wi-Fi bridge, High mountain resort Golte got connected to a POP (Point of Presence). The connection runs alongside the cable car route, total distance is 4 km with 1000 meters of altitude change.



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ABOUT THE RESORT

On a karst plateau Golte at 1200 to 1600 meters above sea level lies one of Slovenia's most popular year round mountain centres - The Golte Resort. The center that extends on an area of 50 ha is visited by over 65,000 skiers per year. Central part of the resort is a four star Hotel Golte with 53 rooms and two apartments.

DEMANDS

- Establishment of a powerful wireless connection of the resort to the wired network
- Coverage of 3000²m hotel area with the powerful Wi-Fi signal
- Ability to divide the network into several sub networks
- Neutral look of Access Points and the best possible price/performance ratio
- Simple centralized management
- Ability to charge for the access

SOLUTION

Implementation of a wireless Point-to-Point bridge connection and centrally managed professional Wi-Fi system Ruckus Wireless ZoneFlex with:

- 1 x ZoneFlex 7731 WiFi bridge (pair)
- 1 x ZoneDirector 1012 Wi-Fi controller
- 11 x ZoneFlex 2942 802.11g Aps

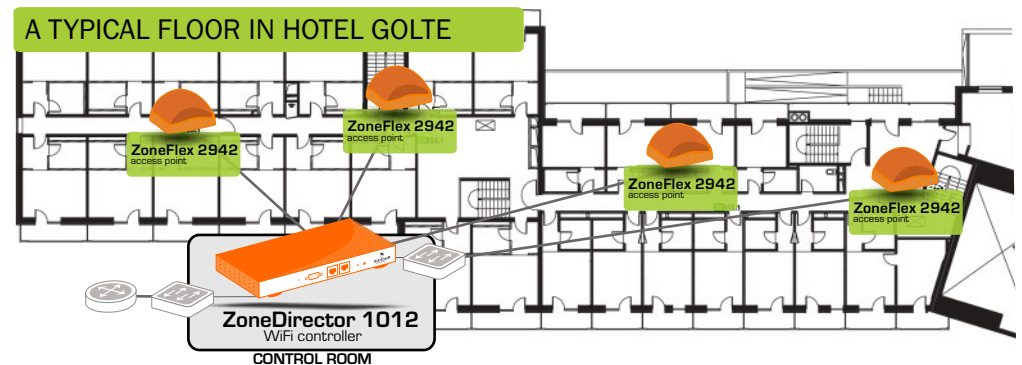
ADVANTAGES

- Highly reliable and powerful wireless connection enables reliable web access for the guests and employees of the resort
- Total Wi-Fi coverage of the whole complex with small number of access points
- Division of Wi-Fi network into three sections is a guarantee for total security
- Unparalleled quality and reliability of Wi-Fi signal
- Very simple centralized management without constant need for intervention by IT stuff
- The system is very stable even during the peak traffic periods

In the case of centre Golte, they required a cost-effective solution to connect the POP point located on the lower cable car station to the hotel on the upper station. The total distance they needed to overcome was 4 km with 1000 meters of altitude change. In the beginning they tried to achieve this with wireless equipment from other vendors, but with very limited results due to very low transfer rates and numerous failures. The right solution came in a form of Wi-Fi Bridge by Ruckus Wireless. After its installation the Wi-Fi connection is capable of transferring five parallel VLANs, which is crucial for the delineation of traffic on the network (2 VLANs for Internet network, one for VoIP telephony and two for video surveillance – two connected HD cameras). The link is incredibly stable, as it hasn't failed once since the installation. Download speeds vary only slightly between 124 Mbs to 138 Mbs, even in the harshest winter weather conditions. In the near future a backup bridge connection is planned to even further increase the reliability of service that is crucial for the smooth operation of the centre. Mr. Janez Sevčnikar, director of Telkom Systems Ltd., the system integrator involved in installation says: "We always try to offer best possible solutions to our customers and in the case of Center Golte this proved to be Ruckus Wireless ZoneFlex system. Wi-Fi Bridge is really a very interesting alternative for providing access to a wide range of objects in less accessible locations and we will certainly use it again in our future projects."

A Wi-Fi network that is a delight to guests and employees

4 star Hotel Golte with its location directly on the ski slopes is the main facility at Golte plateau. The hotel has 53 rooms and 2 suites, modern conference room, 2 restaurants, spa and fitness, shops and library. The total area of the hotel is approx. 3000 m on four floors. During the renovation the owners of the hotel wanted to offer their guests a powerful Web access. They were aware of the fact, that it is an absolute necessity to offer a Wi-Fi access if you want to attract modern guests. Their requirements were: establishment of high-performance wireless Wi-Fi network across the whole surface, also in all rooms, support for Mesh topology, the possibility to separate the network into several sub networks, absolute security and the possibility to charge for the access. The best solution proved to be Ruckus Wireless ZoneFlex system. Complete coverage of 3000² m of hotel has been achieved by the installation of 11 ZoneFlex 2942 access points, despite the thick concrete walls, which cause significant weakening of the Wi-Fi signal. A powerful Wi-Fi signal is present in all hotel rooms, common areas, the outdoor terrace, conference room and even in Outhouses in hotel annex, located 50m from the main building. The entire network that acts as a single system that monitors users as they move across the covered area is managed by Zone Director 1012 controller. Both guests and employees are very happy with the quality of Wi-Fi network. They all enjoy a top signal, the average data transfer in one day is impressive 25GB. Mr. Ernest Kovač, director of Golte Center, says: "A wireless Wi-Fi network in our hotel exceeds our high expectations. Contemporary guests expect reliable Internet access on vacation and because our guests always get everything they want, we had to give them the best Wi-Fi service available."



Powerful Wi-Fi network in a Hotel Golte consist of eleven Ruckus Wireless ZoneFlex 2942 access points, managed by ZoneDirector 1012 controller. The network is divided into 3 separate VLANs - guests, employees and administrator.

