CASE STUDY – AASS San Marino:
Compass Distribution & CommScope

1. The project AASS - San Marino

In 2024, AASS - the Autonomous State Company for Public Services of the Republic of San Marino, an ancient small country in southern Europe surrounded by Italy - completed the construction of a point- to-point FTTH network to serve 24,000 units.

The network has reached a coverage of over 99% of the territory that measures 61 square kilometers and an Ultra-Broadband market penetration of over 50%.

From the beginning, the intention was to identify implementation solutions that would guarantee quality, usability, scalability and warranty over the years, with special attention to the crucial nodes of the passive network, i.e. the exchanges (or PoPs) in which the line swaps are carried out on a daily basis, and the junction boxes, from which the cables, or drops, branch off, which reach the homes from the backbones.

2. Customer challenge for using the FACT solution

The decision to use the FACT Optical Distribution Frame solution in the exchanges was in response to a combination of needs:

I. AASS deployed their exchanges in a ring topology, using 192 fiber backbone cable. The modularity of the FACT solution allowed the 192-fiber project backbone cables, to be managed using 4 modules with 48 elements inside the ODF. AASS developed the layout of its exchanges using two mirrored solutions, one for the fibers leaving the exchange in clockwise direction and one for those going in the anti-clockwise direction. Up to 56 (14 x 4) modules can be positioned vertically in a single ODF frame for a capacity of approximately 2,700 fibers per direction; it therefore responded to both a need for density and easy network sizing. Furthermore, the advantages in terms of accessibility and easy and rapid management of exchange operations, always conducted by AASS staff, represented a plus. As the network was expanded progressively over the course of 8 years this choice paid off, as the design used a strong linearity with obsessive consistency of the products supplied and installed into the ASS exchanges.

II. It can be said that to date, no failure of such components has been experienced, confirming the quality of the materials and the products.

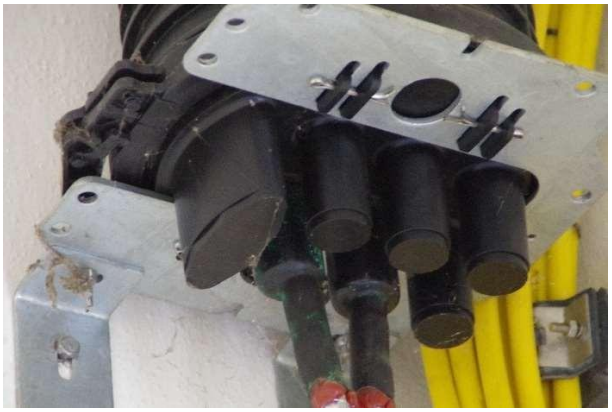
3. Would the challenge have been overcome without Commscope?

A. *The added value of COMMSCOPE solutions*

Without the flexibility of COMMSCOPE products, and its ease of use we would not be here to tell the success of our project. The added value of the materials and the perfect engineering of the layouts is undeniable and we will probably continue to recognize them in the years to come.

B. *The solutions used*

- FACT® ODF with 48 splice/patch and patch/splice chassis.
- FIST® GCO2-B for 192 f.o. backbone termination and tapping.
- BUDI™ S typically with splice solution for use in a closure, or with patch/splice solution.



4. Results: what are the main benefits in daily life? Technical aspect? Commercial aspect for customers in San Marino? Economic benefits?

It is now clear that the service offered responds perfectly to the most modern needs of the entire San Marino market, as it constitutes a quality solution and broad perspective. Furthermore, the ease of management of COMMSCOPE solutions allows for very streamlined operations even in times of greatest demand, to the benefit of customers who perceive minimal delay in provisioning and assurance operations.

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