QSC AG, NUREMBERG:
ADDED VALUE FOR CUSTOMERS

For its data centre in Nuremberg QSC decided on a modular system solution from Datwyler to provide high future viability in terms of bandwidth and attenuation.

QSC AG sees itself as "Digitizer for the German SME sector". With decades of experience and expertise in Cloud, the Internet of Things, consulting, telecommunications and colocation, QSC is accompanying its customers safely into the digital age. The cloud-based provision of all services gives them increased speed, flexibility and availability. Its own TÜV and ISO certified data centres in Germany and QSC AG's nationwide All-IP network thus form the basis for ultimate end-to-end quality and security.

In late 2016, in order to be able to securely transmit services and applications beyond 10 Gbit/s in its Nuremberg data centre as well, the local office of QSC AG planned the development and expansion of the redundant cabling system in the Core and Colocation Division. QSC AG were therefore looking for an application-neutral cabling solution, initially for 40G, but which would allow simple rapid migration to 100G in future.

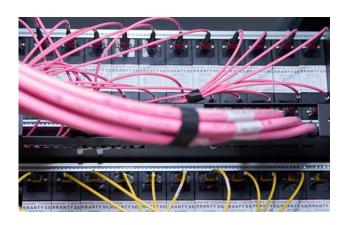The project managers brought Datwyler on board as a system partner. "We are familiar with Datwyler as a first-

class manufacturer whose cables and components we have been using for almost ten years," explained Werner Motz, Divisional Head of Colocation at QSC in Nuremberg. "We also value Datwyler's expert planning support in our projects, their great flexibility in design and execution, and the 25 year system warranty."

Reliable construction
A future-proof fibre optic solution which met all the requirements of QSC was quickly found in the "Datwyler Data Centre Solution" (DCS). "It's a sound solution with an excellent price-performance ratio," says Motz.

Datwyler is collaborating in the construction work with Michael Heffner e.K. in Nuremberg. Not only is this company a certified Datwyler partner for the DCS system, but it is also valued by QSC as a dependable service provider for the installation of copper and fibre optic networks.

On cable runs assembled specially for this project the Heffner team installed 47 MTP trunk cables, 20 of which

were multimode and 27 single-mode, each comprising 48-fibre cables and delivered preassembled by Datwyler. The trunks were terminated on 136 MTP-to-LC cassettes in 17 subracks.

The installation itself went really smoothly. An advantage here was that Heffner was a Datwyler-trained company with good local knowledge and an experienced installation team familiar with fibre optic products. Through Michael Heffner e.K. QSC finally also got the 25 year Datwyler system warranty.

The new cabling system, which was installed during operation in the summer and autumn of 2017, connects the backbone core router with several aggregation routers and the routers in the colocation and carrier premises. Today the Nuremberg data centre ensures that QSC benefits from a modular solution which provides high future viability in terms of bandwidth and attenuation.

Simple migration

Right after the cabling QSC AG was able to migrate various applications to the current 40 Gbit/s. "In the switch to 100 Gbit/s the fibre optic network itself will remain

unaffected. All we have to do is replace the LC cassettes plug-and-play with MTP front panels. This means that we can save ourselves laborious splicing work," explained Anton Schultheiß of the local QSC Engineering and Network team.

His colleague Klaus Kasimirek is also very happy with the outcome: "With this installation we have achieved all our planned objectives. It means that we obtain increased bandwidth in our multi-redundant system and hence added value for our customers."

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