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ZHENGZHOU AIRPORT RELIES ON DATWYLER

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DATWYLER GALA DINNER FOR CUSTOMERS

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Invisible and yet visible:
Datwyler solutions in the world’s most prestigious buildings

Dear Readers

What do the ICC in Hong Kong, the super-tall Shanghai Tower and the four new towers of the New York World Trade Centre have in common? What links Munich’s Allianz Arena with the venerable Bundeshaus in Berne, Shanghai’s eye-catching deep water port and Frankfurt’s stylish The Squaire?

Correct, these are all prestigious buildings with correspondingly high international visibility. It is also correct that every one of these buildings is equipped with a Datwyler cabling solution. A coincidence? No, of course not. Our customers depend on high-performance cabling systems which work reliably every time. They want not only to purchase excellent products and solutions, but also to trust a partner which has a solid performance record, is an expert in its field and provides an impeccable service. Finally, it is important for customers to know that their partner behaves in a socially responsible way and also that it has an assured future.

So at Datwyler Cabling Solutions we feel especially honoured every time we win contracts for landmark projects like these.

We know that our products and solutions are not directly visible from outside, but that their performance and reliability are the focus of international attention day and night. We therefore work hard to keep improving our products and services – true to the motto “top performance at competitive prices!”

In this issue of “Panorama” we transport you from northern Finland, through the desert of the Arab Emirates, to Latin America and into China’s major cities. On this journey you will also meet various important customers who have had good reasons for deciding on Datwyler.

I hope you enjoy the read!

Johannes Müller
CEO Dätwyler Cabling Solutions AG
DataHub AG operates one of Switzerland’s most modern and energy-efficient data centres in Winterthur. Datwyler assisted DataHub in the sphere of ICT infrastructure – from consultancy through to implementation.
At the beginning of November 2015 DataHub AG began operating its first data centre in Winterthur. Here a net data centre area of over 1100 square metres is available for businesses to rent. The new colocation data centre provides high-speed access via a geo-redundant fibre optic network. It was built to TIER III standard, some parts even to TIER IV, and is run in compliance with ISO 27001 (Information Security) and ISO 50001 (Energy Management). It is currently certified by SQS and IQ NET.

One of the earliest customers is ZHAW, a leading Swiss University for Applied Sciences, located in Winterthur, Zurich and Wädenswil. In the new data centre those responsible at ZHAW rented two rooms with a total 140 square metres of IT floor space. Around 70% of the area was intended for use in the initial stage, comprising 30 IT racks. The remainder is being held in reserve for subsequent expansion.

"Feel-good package" for data centre customers
ZHAW ordered ready-equipped, fully functioning IT rooms from DataHub. DC-ONE AG took on the planning and construction of the physical infrastructure systems. To address the requirements of the ICT cabling system DC-ONE brought Datwyler on board, a partner with in-depth knowledge and experience in this discipline. The Datwyler specialists organised two workshops in order to design an appropriate cabling infrastructure for the server IP and the storage network together with the responsible IT technicians at ZHAW. All the relevant issues affecting the design of a high-speed data centre cabling system were dealt with in the workshops. From the results it was then possible to deduce the quantity structure as well as the layout and configuration of the rack types. Last but not least came the creation of a suitable labelling concept.

In this way, even at an early stage, Datwyler provided those in charge of IT with maximum security and transparency. "In the joint workshops our vision of the cabling solution and our ideas on it were put on paper due to the in-depth know-how of the Datwyler specialists concerned, thus providing us with a tailor-made solution", confirmed Remo Müller, Network Administrator at ZHAW.

In terms of fibre optics the solution selected comprises a "Datwyler Data Centre Solution" and a 10 gigabit-compatible copper system. It gives ZHAW maximum performance and also, owing to its migration capability, a high level of investment protection.

"Over 2000 links in 12 days"
The very narrow time frame for the whole infrastructure project posed a special challenge. In the end only 12 working days were available for the installation of the ICT cabling, including acceptance testing and recording results.

The high degree of preassembly, however, made it possible to install a total of 2142 links on time and in the quality specified. The 1068 fibre optic connections were made via 51 mini-breakout cables with MTP connectors assembled to a high quality at both ends. They terminate on plug-in modules with LC quads and E-2000/APC adapters on the front panel. OM4 fibres were used for the multimode links, type G.652.D fibres for the single-mode links.

The 1068 copper links between the racks were made using 178 Category 7 type CU 7002 6x4P trunk cables. These were supplied by Datwyler with pre-assembled Category 6, RJ45 modules at one end. The open end of the cable was cut to length and wired up as required by the installer on site. Links were also made to test facilities outside the racks.

Swisspro AG (Zurich), an expert partner certified by Datwyler for the installation of the copper cabling and acceptance testing, was also able to take on the basic installation of the fibre optic cabling. The performance-relevant work – inspection, cleaning and inserting the MTP connections – and acceptance testing were taken on by Fiberwork AG (Lucerne), the partner company specially certified for the Datwyler Data Centre Solution.

DataHub AG used the successful project in Winterthur as an opportunity to again secure Datwyler’s expertise in planning the next data center, already at an early stage.

THE DATWYLER SPECIALISTS PROVIDED US WITH A TAILOR-MADE SOLUTION" Remo Müller, ZHAW
Shanghai-Hongqiao Airport, constructed as a military airfield in 1907, is the oldest airport in the People’s Republic of China. From the early 1920s it was also used for civilian traffic and has since been extended several times. With the building of Terminal 2 and a second take-off and landing runway its capacity has increased to 40 million passengers annually, a quarter of which were accounted for by the old Terminal 1 at the last count.

The renovation and redevelopment project for Terminal 1, scheduled to run for three years, began at the end of 2014. It is designed to bring technology and service quality to the same high level as that in the new Terminal 2. The renovation of terminal buildings 1 and 2 is the first and at the same time the central construction project of the “East Area Comprehensive Transformation” project. In parallel, Phase 1 of this project also includes designing or extending six roads.

The “East China Architectural Design & Research Institute” is responsible for the redevelopment. It also includes a new data network which comprises 18,000 ports and over 120 kilometres of fibre optic cable. Datwyler (Suzhou) Cabling Solutions Co. Ltd. was awarded the contract for the cabling system.

Among different items Datwyler supplied for the project FO Indoor OM4 multimode cables, metal-reinforced FO Outdoor OS2 single-mode cables and Category 6 copper data cables with LS0H (Low Smoke Zero Halogen) sheaths.

This project at Shanghai-Hongqiao Airport means that both Shanghai airports – Hongqiao and Pudong – now rely on Datwyler cabling solutions. The new satellite office block at Shanghai-Pudong Airport, the largest airport building in the whole world, is currently being cabled with a Datwyler solution.

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Grupo Catalana Occidente SA is a group of companies forming one of the major Spanish insurers and one of the world’s largest credit insurers. The stock listed group, which can look back on a 150 year history, maintains 1500 offices in over 50 countries, has a workforce of around 6500 and a turnover of over 3800 million euros. The group includes Seguros Bilbao, Plus Ultra Seguros, Credito y Caución, Norte-Hispana and Atradius among others.

The new office building for which Datwyler is supplying the data network technology is in Calle de Cedaceros in El Madrid de los Austrias, the old centre of Madrid where the houses exude the charm of the late Middle Ages and the Renaissance. Installation was not straightforward, as it was important to retain the special character of the historic building.

**Highly flexible structure**
The Datwyler solution comprised a structured building cabling system with low-smoke, zero halogen Category 6, cables and connection technology (500 megahertz) and high-performance OM3 multimode fibre optic cables in the backbone. The copper cabling alone includes more than 1400 data ports.

Consolidation points were installed in the raised floors on each floor. These provide the user with high flexibility in terms of moves, adds and changes (MACs).

**Power supply included**
Power can also be transmitted via the data cables using this cabling solution (Power over Ethernet, here PoE+). This avoided the need for additional electrical wiring, which would have been difficult to install in a building of this kind.

Enrique Lampatzer
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The Archdiocese of Munich and Freising has brought its administration together in the centre of Munich. Datwyler cabling systems are used in the new central premises and three data centres of Munich’s Archiepiscopal Ordinariate.
Until now the offices of the Munich Archiepiscopal Ordinariate were spread over several buildings throughout Munich, some of them a long distance apart. This year these will be consolidated in three virtually neighbouring buildings in the Maxburgstraße, Rochusstraße and Kapellenstraße. The aim of consolidation is to pool activities, create a more efficient and economical administration and foster better cooperation.

Today, after renovation, the listed Kapellenstraße building is used as a central office building. It houses workstations for over 400 staff, conference rooms, a canteen, a chapel and a library. Over the past few years it has been carefully gutted, modernised to ensure energy efficiency and disabled access. The sanitary facilities, electrics, data lines and lifts had to be replaced completely.

Convinced by workshop
Those responsible for IT at the Archbishop’s office placed stringent demands on the data cabling. The entire network had to provide a transmission rate of 10 gigabits per second. In addition, the copper data cables – conforming to the future Power-over-Ethernet standard – had to be able to transmit up to 150 watts, necessitating high-performance AWG22 cable.

An engineering workshop at the Hallbergmoos site convinced the IT managers that Datwyler had the appropriate solutions for every requirement. At the same time the heat generated in data cables was an important issue in conjunction with the power supply to terminal devices.

Effective solution
The contract for the installation was placed with Munich company Kuhn Elektro-Technik GmbH. The cabling was installed in several phases between mid-2013 and early 2016 and approved section by section. It now interconnects the three data centre sites. The structured building cabling in the new office building provides at least two high-performance RJ45 connections at each of over 400 workstations.

A total of around 130 kilometres of Category 7, type CU 7702 4P data cable and approximately 3700 RJ45 KS-T Plus 1/8 Cat.6c modules were installed. There are also numerous data outlets as well as patch panels and management panels.

The fibre optic cabling comprises over 230 kilometres of FO universal cable, some of which Datwyler delivered preassembled, and around 50 splice boxes which were already equipped ex works with OM3 and OM4 LCD couplers.

The Archbishop’s office installed individual CAT TV panels from Datwyler to allow the transmission of radio and television signals over the data cabling in the building.

The copper cabling connects the data centre directly to the workstations.

There are four to five active and passive racks in each data centre room.

Copper and fibre optic cabling in the server rack

The data centre in the basement of the new main building occupies several rooms.
Over the past few years the airport in Zhengzhou has stepped up its collaboration with other domestic and international airports in order to develop its air freight business and optimise the distribution network. With the aim of positioning itself in the worldwide route network as a central hub with global coverage, the airport added new destinations and increased the frequency on existing routes as well as the number of cargo-only flights.

With the advent of many new carriers, 22 international freight routes now connect China’s “Central Plains” – Henan Province – with Moscow, Amsterdam, Chicago, Anchorage, Seoul, Baku, New York, Novosibirsk, Dhaka, Leipzig, Luxembourg, Frankfurt, Labuan (Malaysia), Kuala Lumpur, Miami and other major air transport hubs.

China’s largest airfreight and transit centre

In 2014 alone the volume of air freight and air-mail at Zhengzhou Xinzeng International Airport grew by 44.86% – an unparalleled rate of growth. In order to cope, the airport began its Phase II expansion project at the end of 2015. The most important components are the airfreight terminal, the associated working area and the Catering Centre.

Completion of this project will result in China’s largest airfreight and transit centre. The investment amounts to 346 million renminbi (47 million euros). The new Airfreight Centre occupies an area of around 116,046 square metres, 46,467 m² of which are built on. The Catering Centre alone stands on 14,747 m².

Copper and fibre optic systems

The data network for the new Airfreight Centre and the Catering Centre is supplied by Datwyler. After several selection phases the decision was made to opt for a structured cabling solution comprising – among others – copper and fibre optic systems.

The copper system consists of Category 6 cables with a halogen-free LSZH (Low Smoke Zero Halogen) sheath as well as 5100 data ports.

The dependable quality and outstanding functionality of the Datwyler solution ensures the airport’s high level of operating safety.

Zhengzhou Xinzeng International Airport is one of the 20 biggest airports in China. Datwyler is supplying a high-performance data network for the new Air Cargo Centre.
Mangalis Hotel Group based in Barcelona is a young enterprise currently working on market entry in West and Central Africa. The plan is to launch more than 70 hotel projects over the next few years, mainly in Africa but in other regions as well. In addition to the economy “Yaas” brand Mangalis Hotel Group is also growing with the midscale “Seen” product and upscale “Noom” brand.

Mangalis mission is to bring the attractive, modern and exciting Africa of the 21st century to its guests and to offer them a completely new hospitality experience. The demanding hospitality and quality concept of the hotel group corresponds to the premium quality cable solution opted for by Mangalis.

The application-neutral cabling not only integrates voice, data and video into the group hotels, it also serves as the basis for high-speed wireless connections and – when cabling large event venues – for audio and high-definition video transmission.

The Datwyler system is currently installed in “Noom” hotels in Conakry, Cotonou and Pointe Noire, in “Seen” in Abidjan and in “Yaas” hotel in Dakar. This high-performance solution also allows Mangalis Hotel Group to provide discerning business customers with a state-of-the-art communications infrastructure and excellent services.

**Standardised solution for most stringent requirements**

A standardised system solution from Datwyler was selected. The structured building cabling is based on low-smoke, zero halogen Category 6a cables and connection technology (500 megahertz).

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The Helsinki and Uusimaa (HUS) hospital district is the largest in Finland. It comprises 21 hospitals, including the capital’s University Central Hospital (HUCH) and the Meilahti hospital in the eponymous district of Helsinki.

There are extensive subterranean structures on the Meilahti Hospital site, for example an underground car park, access tunnel, storage yard, waste disposal yard and pharmacy stockroom. Hospital staff jokingly refer to these as the “underworld”.

The University Central Hospital insists on the highest possible quality and safety standards when building in the “underworld”. Thus between 2013 and 2015 Datwyler used almost 50 kilometres of safety cable for power and signal transmission, sourced by the electrical installation company Amplit Oy from Datwyler’s Finnish partner Pistesarjat Oy.

The zero halogen, low-smoke and flame-retardant safety cables are an integral part of the fire protection and safety concept. Amplit Oy installed these cables in the most important sub-buildings, the so-called upper storage and waste disposal yards, which were connected to the underground premises in the hospital area by way of several tunnels and shafts.

Here special challenges were posed by the great distances between the underground areas – 800 metres to bridge for the access tunnel alone – and the civil protection regulations.

According to Amplit “the building was so challenging that there was no possibility of experiment or compromise on safety.” In this respect the robust Datwyler cables provided an ideal solution.

**REFERENCE PROJECT**

**MAXIMUM SAFETY IN THE HUS “UNDERWORLD”**

Under the Meilahti Hospital in Helsinki Datwyler safety cables play a major role in fire safety.

Datawyler cables are an integral part of the fire protection and safety concept.

Special challenge: the great distances between the underground areas

Mikko Korhonen
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The award ceremony for the “Top 10 Cabling System Brands” on 18th November Datwyler won prizes for “Brand with the best customer service”, “Best new brand in technical innovation” and “Most influential brand in the sector” after a comprehensive selection procedure by industry specialists and local authorities. The ceremony was held as part of the 10th China Intelligent Building Development Forum and was hosted by the Engineering Intelligent Design division of the China Exploration and Design Association and the Peking journal “Intelligent Building and City Information” (IB).

At the 16th China International Building Intelligence Summit on 3rd December Datwyler once again won an award in the “Top 10 Cabling System Brands” category. These industry “Oscars” are awarded annually by Quianjia Brand Lab, which bases its decision on major industry indices, market research and surveys.

On 9th December the “Election of outstanding brands influencing the Chinese electrical engineering industry for intelligent building” took place. This event is organised by the Building Electrical Engineering Design division of the China Exploration and Design Association, the China Association of Building Energy Efficiency and the China Intelligent Building Information Network in conjunction with the trade journal “Electrical Technology of Intelligent Buildings”.

Not only was 2015 the company centenary – Datwyler also won numerous awards in China.

MAR**KET**

**AN EXCELLENT YEAR FOR DATWYLER IN CHINA**

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Not only was 2015 the company centenary – Datwyler also won numerous awards in China.
Not only is the Middle East a region associated with many stereotypes and myths. It is also a very attractive market for a company like Datwyler which provides complete solutions for data networks and data centre infrastructure.

It is well always to be aware of the fact that the Middle East is a region of great diversity. But there are also some features and peculiarities which apply to the whole region. Thus, as a rule, business relationships in the Middle East are based on friendship and mutual trust. This is shown, for example, by shaking hands. This is common throughout the region and can sometimes last a long time, as Islamic etiquette recommends that you don’t withdraw your hand before your counterpart does.

In order to continue developing customer relations and cement trust, many events and activities are scheduled at Datwyler Middle East – as they are at all the companies operating in the region. One of the most important events is the Datwyler Annual Gala Dinner.

**Guests from many sectors**

This year Datwyler Middle East held the Gala Dinner in the Emirates Palace in Abu Dhabi on 23rd February. More than 100 end customers and consultants from a wide range of sectors attended, among them representatives from airports, oil and gas suppliers, tourism, healthcare and telecommunications, public administration, the military and international consultancies.

Johannes Müller, CEO of Datwyler Cabling Solutions, used the Gala Dinner as an opportunity to present the history of the Datwyler company and the present structure of the corporate group. The team of Datwyler Middle East then gave the assembled guests an insight into the
Company’s shared values and introduced them to the three basic pillars of “quality, solutions and services” as well as some of the best products from the Datwyler portfolio.

**Supplier to airports**

During the course of the event Datwyler concluded an agreement with the White Lake Consortium, which provides for the supply of high-quality products and system solutions as well as value-chain services for the ICT networks and extra-low voltage systems (ELV) of all the international airports in the United Arab Emirates.

The Agreement was signed in the presence of Salem Saeed Al Afari, Executive Director of the private office of HH Sheikh Hazza Bin Khalifa Bin Sultan Al Nahyan, for the White Lake Consortium by Ali Reza Dehbozorgi, a member of the Project Steering Committee, and by CEO Johannes Müller for Datwyler Cabling Solutions.

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MARKET

SUCCESSFUL PARTICIPATION IN FINNISH TRADE FAIR

In early February Datwyler’s Finnish Partner Pistesarjat Oy brought network and safety cabling systems to “Sähkö, Tele, Valo & AV”.

“Sähkö, Tele, Valo & AV” – “Electricity, Telecommunications, Light & AV” in English – is held every two years in the city of Jyväskylä in central Finland. It has now become the country’s most important exhibition for electrical infrastructures, thanks to the 15,000 or so trade visitors who travel to it from all over the country. Many visit the exhibition with a very definite aim in mind and ask for advice on a specific problem or project. This is what makes encounters at the exhibition so important to the exhibitors.

Pistesarjat has been representing Datwyler in Finland for five years now. The company is a specialist in safety and communication cabling solutions and an important market player among suppliers of electrical engineering products. Pistesarjat also focuses on heating lines and systems.

A large area of the exhibition stand was devoted to Datwyler’s cabling systems for preventative fire safety and communication net-
In their capacity as sponsors, Datwyler and the Mexican system integrator PSCD TI attended this year’s “Comida Anual de Sector Automotriz y Autopartes”, held in the Holiday Inn Finsa Hotel in Puebla on 5th February. This important gathering is organised by Canacintra, the “Cámara Nacional de la Industria de Transformación”. Volkswagen and Audi were among the best-known automotive manufacturers in the region to attend, together with various non-industry opinion formers. The topics dealt with in the presentations included new prospects for the automotive industry in Mexico and technical innovation at the new Audi plant in San Jose Chiapa.

An increasing number of cars are being produced in Mexico. In 2015 the industry – one of the most important in the country – set a new record with a total of 3.4 million cars and a 5.6% increase over the previous year’s production.

Datwyler’s data network technology is in use at many major car manufacturers’ sites throughout the world. In order to be able to play a future strategic role in Mexico as well, it is crucial that Datwyler be represented locally by a distributor and committed system integrators like PSCD.

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Andina Link is the most important international trade fair for telecommunications and convergence technologies in the Andes region. This year it was held from 1st to 3rd March in the Conference Center of the Colombian city of Cartagena de Indias, situated on the Caribbean coast in the north of the country. As always, the 25th edition of this respected event presented a broad spectrum of innovation from the entire industry and showcased the best companies and specialists from the sector. With its top-class conference program it draws specialists from all over the region.

Microlink, Datwyler’s Colombian distributor, was present with an impressive stand providing exhibition space for various manufacturers. Datwyler used this privileged position to introduce visitors to the company’s products, system solutions and services, and to maintain existing business contacts and establish new ones. Datwyler used key cables and components in specially designed displays to show visitors to the stand innovative examples of state-of-the-art data network solutions in ICT networks and data centres.

The high footfall and positive feedback at Andina Link meant another resounding success for Datwyler and will help to strengthen the company’s market position in Colombia and neighbouring markets.

**MARKET**

**ANDES TRADE FAIR IN COLOMBIA**

**MARKET**

**IMPRESSIONS OF DATANET BICSI IN MEXICO**

BICSI (Building Industry Consulting Services International) is a globally recognised American organisation which provides training courses and certification for experts, and through its publications and conferences aims to bring more knowledge and transparency to the IT sector. The DataNet BICSI conferences are now events of national importance.

On March 17 and 18 the “BICSI CALA District Mexico Conference & Exhibition” was held in Mexico City for the second time. It featured a comprehensive conference program and an exhibition in the Crowne Plaza Hotel, which brought together more than 30 companies with over 500 participants and visitors, including representatives from major Mexican businesses.

Datwyler and distributor Marathon Eléctrica de Puebla were there with their own stand. Over 300 visitors, most of them ICT special-
MARKET

DATWYLER IS THE PRINCIPAL SPONSOR OF COM-EX IN BERN

Datwyler Cabling Solutions is the principal sponsor of Com-Ex, the Swiss trade fair for communications infrastructure. This increases the company’s existing commitment to the exhibition, which for the first time is being held on the Bernexpo site from 20th to 22nd September.

Datwyler Cabling Solutions forms part of a group of altogether twelve well-known firms in the ICT sector which initiated the new exhibition last spring. Datwyler, together with the other initiators in the Exhibition Advisory Board, is dedicated to the successful development of Com-Ex.

With its obligations as principal sponsor Datwyler is making a major contribution to a high-calibre event from which the whole industry will profit.

Christian Scharpf, Manager of Market Switzerland at Datwyler Cabling Solutions, puts forward several reasons for supporting the new trade fair: “Com-Ex has a clear content-related focus and is becoming one of the most important venues for the Swiss ICT industry. The exhibition organisation is independent of big exhibition organisers and is able to react flexibly to market changes. The exhibitors’ requirements are taken seriously and, if possible and reasonable, are implemented immediately.”

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Participation in this event was worthwhile in many respects. On the one hand Datwyler was able to use it to exchange knowledge, experience and ideas with the visiting specialists and to network with local ICT decision makers. On the other hand it played an important role in the acceptance of Datwyler and the company’s innovative product solutions by Mexico’s IT industry.
ICT cabling systems are subject to exacting demands. The main requirements are high performance, modularity and flexibility. New systems have to be planned, assembled and installed within a very short time. Since performance requirements continue to increase, they also need to provide maximum reserve capacity.

Today new network architectures (fabrics) are influencing the familiar cabling models. Fabric architectures are built for high performance and are generally non-blocking, so they need more cabled links with higher transmission rates than traditional architectures. It is vital to bear this in mind when costing, planning and selecting a cabling system.

**Cost pressure versus premium quality**
In the coming years bandwidth hunger in the data centre environment – together with ever greater port densities – will continue to grow unabated. At the same time increased cost pressure is being felt. The immediate temptation is to economise on the cabling systems, but this is not an advisable strategy. Already today, and more than ever in the future, the ICT cabling systems form the vital nerve fibres of high-performance IT systems. Only premium-quality cabling systems should therefore be used in data centres. These alone guarantee maximum reserve capacity.

The ICT cabling systems in a data centre are the vital nerve fibres of the high-performance IT systems. Yet all too often their importance is underestimated.
Investment in ICT cabling accounts for under 10% of total investment, and is therefore the lowest budget item of all the infrastructure systems. Taking scheduled service life into account, this investment only has to pay for itself over ten years. The overall cost consideration – CAPEX and OPEX – is also important here. In the data centre environment the operating costs, calculated over the service life, many times exceed the investment costs.

Planning the ICT cabling
Correct planning is so important because only correctly designed cabling systems form a sound basis for an efficient IT operation. A distinction can be made between six main variables which directly influence the type of implementation and choice of materials: network architecture, choice of switching model (centralised, zone-based or decentralised), the requisite end-to-end link lengths, the cabling concept, the IT technology and the performance requirements. It is important to address and pick up these issues at an early stage.

An integral approach to the planning process must also be observed, i.e. all the departments involved must be brought to the table. The quality of the planning work has a direct influence not least on the kind of implementation, on subsequent operation and on costs.

Measuring performance at an FO link:
Data throughput as a function of frame length

Test, clean, measure and document
The connectors are the most sensitive points in optical networks. They need specialist treatment. Dust particles may inflict long-term damage on the end surfaces of optic fibres, impairing the quality of the premium product and resulting in a permanent failure to achieve performance targets.

Unfortunately “whoever measures, measures muck” also applies to optical networks in data centres, as taking and assessing these measurements is an exacting task. Countless factors influence the results, some to a considerable extent. In the tight power budgets of data centre applications a presumed “pass” can quickly become a “fail”!

Conclusion
The increasingly rapid growth in worldwide IT usage brings growing demands on ICT cabling systems in the data centre environment. The importance, scope and complexity of the ICT cabling in this sphere are all too often underestimated and still receive insufficient attention.

The planning and implementation of future-proof high-performing ICT cabling solutions makes the most stringent demands on all the partners involved. In order to be able to provide decision makers and end customers with correct and comprehensive advice, it is essential to possess – as, for example, do the Datwyler specialists – extensive knowledge in the fields of data centre network technology, IT systems and, not least, active IT equipment, in addition to an in-depth familiarity with ICT cabling technology and many years of experience.
NEW MANAGING DIRECTOR FOR DATWYLER MIDDLE EAST

Asem Shadid has been appointed Managing Director of Datwyler Middle East, effective since April 1st 2016. Asem joined Datwyler as Area Manager in early 2015.

Before joining Datwyler he worked as ELV Division Manager at Advanced Technologies (Ad-Tech) in Amman and won many prestigious projects in Jordan and the KSA. Prior to this, he was Project Manager for Structured Cabling at Queen Alia International Airport.

"With his professional background, practical work experience and winning personality he will be the right person to effectively drive forward the growth strategy of Datwyler in the Middle East Region and Africa", says Johannes Müller, CEO of Datwyler Cabling Solutions.

Asem graduated as a BSc in Computer Engineering from the Al-Balqa Applied University (BAU) of Amman, Jordan.

NEW CAT.6A UTP SOLUTION

Datwyler offers its customers a continuous Category 6a UTP copper cabling system for structured premises cabling. The system solution comprises the CU 692 4P symmetrical data cable, the KU Plus 1/8 RJ45 module, the KU 24x-sg patch panel and Cat.6a (IEC) RJ45 patch cables.

This makes it possible to achieve transmission rates of up to 10 gigabits per second (Gbit/s).

The CU 692 4P is an unshielded twisted-pair cable (U/UTP) of 8.5 millimetres external diameter. This AWG23 cable of high electrical and mechanical quality meets all the international standard requirements of a Category 6a (500 MHz) product, gives high attenuation reserves and good tensile strength.

The KU Plus 1/8 module has a robust flame-retardant plastic enclosure with clip fastening for keystone panels and data outlets and a dust protection flap. In conjunction with unshielded Category 6a data cables it allows acceptance testing for Class Ea permanent links with good spare capacity for 10-gigabit Ethernet transmissions. Both module and cable also meet the requirements for Power over Ethernet plus (PoE+).

The KU 24x-sg patch panel is an unshielded 19-inch/1U panel of flame-retardant plastic with a metal front and integrated strain relief. Up to 24 RJ45 Category 6a keystone modules can simply be snapped into the frame. The vertically offset openings (sg = staggered) ensure effective prevention of Alien Crosstalk between the unshielded cables.
WARRANTY FOR FIBRE OPTIC CABLELING SYSTEMS

In common with certified installers Datwyler gives a long-term system warranty – 25 years as a rule – on the cabling installed. Acceptance tests of the individual links document compliance with all the values required.

In addition to the documents for copper cabling systems, all the warranty documents for fibre optic cabling systems are now available for customers to download on the Datwyler website.

IDEAL FOR HIGH-SPEED HOME CABLELING

Interference-free video streaming, real-time gaming and data backups at up to 10 gigabits per second: Datwyler has developed the CU 7000 4P data cable specifically for high-speed multimedia cabling in residential buildings.

The shielded AWG26 cable comes in a practical Pull-Quick box. It is only 5.8 mm “thick” and is even easy to run through thin tubes. On links up to 60 metres it meets all the ISO/IEC requirements for a Category 7 (600 MHz) product.