Dr. Suppan International Institute

Dr. Suppan International Institute b.v. is an international training and educational organization located in the Netherlands.

In Germany the company is represented through ComConsult Akademie, one of the market leaders in network training and education in Germany, and ComConsult Technologie Information GmbH, a leading testing and information company in the field of network technologies.

Dr. Suppan International Institute b.v. offers courses and inhouse training about in network technologies in Western Europe, mainly in the Netherlands, Belgium and Luxembourg. These courses are conducted in English, and the complete course materials is written in English.

The company was founded in 1999 by Dr. Jürgen Suppan, an internationally well-known specialist in networking technologies. The courses offered by Dr. Suppan International Institute are based on the latest state of technology, closely oriented towards the practical needs of practise and strictly vendor independent.
All trainers have had several years of networking experience in different types of environments, covering the complete range of networking technologies as applied in companies from the small to the very large.
In Germany, where the company has been active since 1989, more than 80% of the top 500 German companies are regular and long-term customers of Dr. Suppan International Institute b.v., with more than 3000 course and congress participants in a year.

If you are interested in these courses, please use the following contact form or send an email to drsuppan@comconsult-akademie.de

Fax: 0031/11337-2088

New Ethernet Technologies

☐ I'm interested in this course, let's make a date.

First Name _____

Last Name _____

Organization _____

Position _____

Address _____

State/Province _____

Zip, Postal Code _____

Country/Region _____

Phone _____

Fax _____

E-Mail _____

Signature _____

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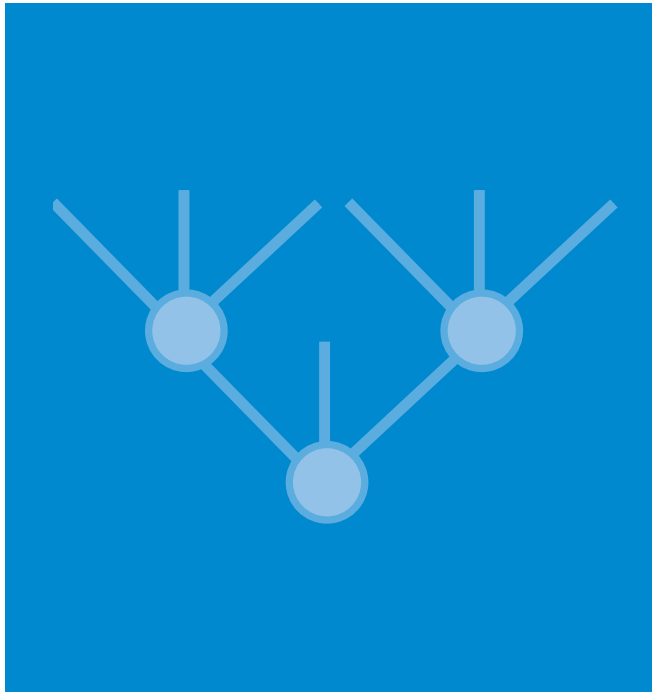
New Ethernet Technologies

5-day-course



Dr. Suppan International Institute

New Ethernet Technologies 5-day-course

Dr. Suppan International Institute

Motivation

This seminar is intended for

- operators of existing Ethernet networks
- operators using other network technologies who wish to switch to Ethernet

and describes the individual Ethernet technologies, from their basic functional principles to their product and market status and optimal operation. All available operations are also described together with their existing advantages and disadvantages. This includes both the operations peculiar to Ethernet and such adjuncts as are made possible by modern switching technology (Quality of Service, Trunking, Voice over IP, etc.)

This seminar places special emphasis on the avoidance of easy-to-make mistakes in the use of the new Ethernet technologies. For this reason, the question of which products to use and of the further usefulness of „old“ products, the sense and purpose of new technologies, and the configuration of Etherntet networks in different performance categories are discussed.

In addition to the discussion of the optimal utilization of Fast Ethernet and Gigabit Ethernet, migration to these technologies is also covered.

Another area of focus concerns the available operational resource and explains, with reference to everything from cable measurement technology to network management, which products and technologies you should use in which situations, and which you should avoid.

In this seminar you will learn

- the weak points of traditional Ethernet technology and how to work around them
- how to sensibly exploit the possibilities and advantages of the new Ethernet technologies
- methods for well-directed and efficient migration to the new technologies
- to make optimal use of the available adjunct technologies for Quality of Service and other new servics
- product and market status

Topics

Performance characteristics of modern networks
- capacity, delay, failure safeguards
- waht new applications must be anticipated

Fundamental principles of CSMA/CD and Ethernet technology
- the technology and its advantages and disadvantages
- examples for typical networks

Fundamental principles of Fast Ethernet and Gigabit Ethernet
- the technology, its advantages and disadvantages
- Twisted Pair networks
- fiber optic technology
- examples
- what doesn‘t work

Aspects of cabling technology
- standards and current developments
- necessary measurement technology
- strategy and recommendations
- what has stood the test of time and what hasn‘t

Frame Switching
- Layer 2 switching
- VLAN technology
- Layer 3 switching
- Layer 2 v. Layer 3
- hazards and countermeasures
- recommendations based on operational experience

Frame Switching versus ATM
- functional principles of ATM
- advantages and disadvantages of ATM as opposed to Ethernet
- recommendations

Optimum configuration of Ethernet networks
- available technologies
- planning and operational guidelines
- Quality of Service monitoring
- redundancy concepts compared
- examples
- recommendations based on operational experience

Security risks
- sources of security risks
- countermeasures
- costs v. effectiveness

Resources for successful operation
- protocol analysis
- network management
- service level management
- most important products

Configuration of typical applications
- NT in Ethernet
- NetBIOS-based applications
- SNA
- DNS

Product and market situation
- types of products
- what to use and where to use it
- comparison of alternatives
- things to bear in mind

Planning workshop
- prepared scenario
- working out a solution in teams
- discussion and recommendations

Instructors

Dipl.-Inform. **Oliver Flüs**
Dipl.-Ing. **Hartmut Kell**
Dipl.-Ing. **Harald Krause**
Dr.-Ing. **Joachim Wetzlar**

The sponsor of this event reserves the right to make changes without prior notice. Our staff of instructors has been selected from the planning and operational teams at ComConsult Beratung und Planung GmbH.