

# Chapter 13

## All About Your Network



- **Module 1: Security Essentials**

### Understand your Network!

It is said, that a network is a mindbogglingly complex and mysterious thing. As soon as someone fully understands all its details, it will immediately turn into something more strange and bizarre.

Inspired by Douglas Adams  
(Hitchhikers Guide to the Galaxy)



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## All About Your Network



- **Agenda**
  - **Knowing Your Installation and Network Structure**
  - **Interactions between Components**
  - **Understanding Data Transmissions**
  - **Types of Transmitted Data**

# Knowing Your Installation and Network Structure



- The Foundation for an Efficient Security is to Understand the Environment and How Things Are Related to Each Other

I know this world accurately, very accurately, like my own pocket.

From “The Demons”  
(By Heimito von Doderer)



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# Interactions between Components



- **Systems Interact with Each Other**

**Understand all Aspects to Provide Proper Security**

**No man is an island,  
entire of itself.**

**John Donne, English Poet  
(1572-1631)**



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# Understanding Data Transmissions



- **Avoid Surprises by Understanding How Information is Transmitted**

**"Where did that come from?"  
asked the princess.  
"From a nut,"  
answered Jack**

**"The Princess of Canterbury"  
(English Fairy Tale)**



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# Types of Transmitted Data



- **Be Sure About What you Transmit and How To Protect it.**

**Not Every Message  
Is Information**

**(Basics of Information Theory)**



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## All About my Network



- **Summary**
  - **Good Knowledge of the Environment is the Foundation of Security**
  - **Interactions Between Components Have to be Evaluated and Accounted for**
  - **Understanding Data Transmission is Essential for Successful Security**
  - **Differentiating Between Different Data types Eliminates Unnecessary Risks**



# Thank You



- Questions?



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