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

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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)

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)

Types of Transmitted Data

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

Not Every Message Is Information

(Basics of Information Theory)

- **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**

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Thank You

- **Questions?**

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Chapter 13
All About Your Network

- **Module 1: Security Essentials**

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Chapter 13
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Knowing Your Installation and Network Structure

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Interactions between Components

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Understanding Data Transmissions

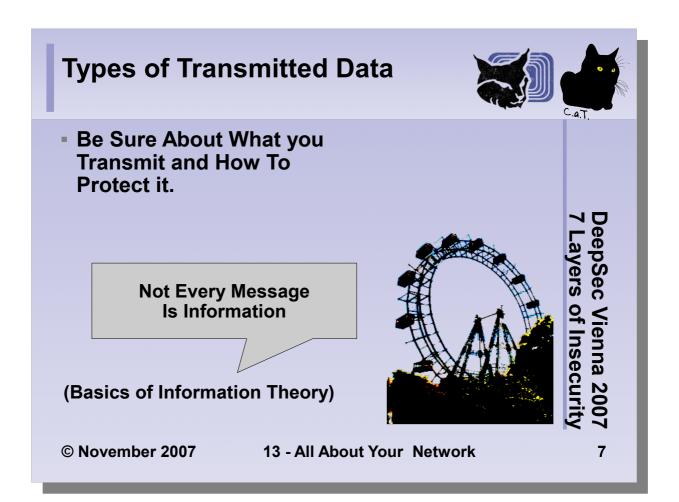- **Avoid Surprises by Understanding How Information is Transmitted**

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Types of Transmitted Data

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(Basics of Information Theory)

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Thank You

- **Questions?**

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