



INTERNATIONAL TELECOMMUNICATION UNION

**TELECOMMUNICATION
DEVELOPMENT BUREAU**
ITU-D STUDY GROUPS

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SECOND MEETING OF STUDY GROUP 1: GENEVA, 30 AUGUST - 3 SEPTEMBER 1999
SECOND MEETING OF STUDY GROUP 2: GENEVA, 6 - 10 SEPTEMBER 1999

FOR ACTION

Question 16/2: Preparation of Handbooks for developing countries

STUDY GROUP 2

SOURCE: COORDINATOR FOR THE HANDBOOK

TITLE: TELETRAFFIC ENGINEERING HANDBOOK (TTE HANDBOOK)

Action required:

The meeting is invited to discuss and agree upon the work plan for writing this Handbook. The key authors of chapters etc. will be nominated.

Abstract:

The contribution contains the draft structure of the Handbook on Teletraffic Engineering.

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DRAFT CONTENTS OF THE HANDBOOK

1. Introduction to teletraffic theory
2. Traffic concepts and variations
3. Probability theory and statistics
4. Time distributions
5. Arrival processes
6. The poisson process
7. Erlang's classical loss system
8. Loss systems with full accessibility
9. Limited availability - Overflow theory
10. Switching networks
11. Multi-dimensional loss systems
12. Dimensioning of telecommunication networks
13. Classical waiting time systems
14. Applied queuing theory
15. Queuing networks
16. Traffic measurements
17. Principles of dimensioning

Other items to consider:

Handbook:

- Texts (elementary/advanced)
- Examples
- Software (various platforms)
- Integrating ITU-T standards

Discussions:

- Terminology
- Questions/Answers

Special Interest Groups: e.g.

- Internet problems
- Network planning tools
- Cellular networks
- Traffic measurements
- Forecasting,

Links to homepages

Newsletter

Work plan:

- Advisory Committee
- Working groups
- Test examples

Home page: <http://www.tele.dtu.dk/teletraffic> (Trial starting August 15, 1999)