



Tracing optimization of real time  
protocols in IMS  
IP-Multimedia Subsystems

**Teză susținută pentru obținerea titlului de doctor în domeniul de doctorat**  
**INGINERIE ELECTRONICA SI TELECOMUNICATII**

**(sinteză)**

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**Rezumat:** This thesis is starting, pointing to the tendency of mobile telecommunications in the direction of ICS –IMS centralized services.

In these conditions were identified the main problems of the protocols and interfaces tracing systems, offering solutions and new ways to use them within this major evolution.

Taking in consideration the complex evolution of the future networks and services, this present work could be useful for any interested specialist from telecommunications area.

**Principalele contribuții revendicate:** Tracing System optimisations:

- a) Tracing-System utilisation as Customer Service Assurance added on top of Performance Management component
- b) New method to assure of monitoring points in side of the network
- c) Proposal topology-solution for deciphering of protocol interfaces (like Iub, Gb, NAS-S1-CP)
- d) Ways of tracing optimization of UP and CP of IP-CAN–Broad Band Network
- e) Solutions for correlation of the protocols and operations without permanent user
- f) Introduction of new concept in the case of IMS-CentralizedServices- UPTT -Unified- Permanent-Tracing-Tool

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