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### **Invited paper**

## ASON/GMPLS Control Plane Solutions for Transport Networks

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#### Abstract

An overview is given of ASON/GMPLS control plane capabilities and opportunities, the current status of standardisation as well as of application - control plane interworking solutions. Finally examples of practical implementations are highlighted from field trails in the frame of R&D activities up to carrier deployments.

#### **Extended Abstract**

An overview is given of ASON/GMPLS control plane functions, providing the basis for enhanced network functionalities and new service opportunities in carrier networks. For making use of these new features on global scale standard based inter-domain and inter-layer interface implementations are a prerequisite. Therefore the current status of the ongoing standardisation work will be reviewed and interoperability evaluations highlighted, which ensure seamless interworking of different vendor implementations.

Furthermore a summary of the main factors for broad control plane function usage is given, e.g. the availability of solutions for control plane instances at customer sites and for application - control plane interworking.

Finally, examples of practical implementations are highlighted ranging from field trails in the frame of R&D activities up to carrier deployments.



### Hans-Martin Foisel

Hans-Martin Foisel is Senior Project Manager at Deutsche Telekom. Currently he serves as President and Chair of Carrier Working Group of the Optical Internetworking Forum (OIF). At Deutsche Telekom his work is focused on multi-layer and multi-domain ASON/GMPLS networks, their architectures, functions, standardization and interoperability aspects. Prior to joining Deutsche Telekom, he has worked at Heinrich-Hertz-Institute in Berlin for 19 years in R&D of optical transmission systems. He holds diploma of Electrical Engineering from the University Kassel and the Technical University Berlin, Germany.