

Table of Contents

Architectures for Internet Management

A Scalable Architecture for Monitoring and Visualizing Multicast Statistics	1
<i>Prashant Rajvaidya, Kevin C. Almeroth, Kim Claffy</i>	
A Control Architecture for Lightweight Virtual Networks	13
<i>Sean Rooney</i>	
MRMA: A Multicast Resource Management Architecture for IP Platforms	25
<i>Ryan Wu, Irene Katzela</i>	

Fault Management of Networks and Services

Operational Data Analysis: Improved Predictions Using Multi-computer Pattern Detection	37
<i>Ricardo Vilalta, Chid Apte, Sholom Weiss</i>	
Scalable Visualization of Event Data	47
<i>David J. Taylor, Nagui Halim, Joseph L. Hellerstein, Sheng Ma</i>	
Service Management Platform: The Next Step in Management Tools	59
<i>Gabi Dreo Rodosek</i>	

Management of Internet Services

A Customer Service Management Architecture for the Internet	71
<i>Ron A.M. Sprenkels, Aiko Pras, Bert-Jan van Beijnum, Leo de Goede</i>	
Constructing End-to-End Traffic Flows for Managing Differentiated Services Networks	83
<i>Jae-Young Kim, James Won-Ki Hong, Sook-Hyun Ryu, Tae-Sang Choi</i>	
Platform Architecture for Internet Service Delivery and Management	95
<i>Gaëtan Vanet, Motohiro Suzuki, Tôru Egashira, Yoshiaki Kiriha</i>	

Inter-domain Management

Middleware Platform Management Based on Portable Interceptors	107
<i>Olaf Kath, Aart van Halteren, Frank Stoinski, Maarten Wegdam, Mike Fisher</i>	
Meta-management of Dynamic Distributed Network Managers (MEMAD)	119
<i>Ran Giladi, Merav Gat</i>	

Service Contracts Based on Workflow Modeling 132
Holger Schmidt

Event Handling for Management Services

Using Time over Threshold to Reduce Noise in Performance and Fault
Management Systems..... 145
Mark Saylor, Lingmin Meng

The Doctor Is In: Helping End Users Understand the Health of Distributed
Systems 157
Paul Dourish, Daniel C. Swinehart, Marvin Theimer

Beacon: A Hierarchical Network Topology Monitoring System Based on
IP Multicast 169
Marcos Novaes

QoS Management

Managing Concurrent QoS Assured Multicast Sessions Using a Programmable
Network Architecture..... 181
Radu State, Emmanuel Nataf, Olivier Festor

Providing Global Management Functions for ATM Networks 193
Bernhard Thurm, Hajo R. Wiltfang

MetaNet: A Distributed Network Management System for Information
Delivery and Planning with Quality of Service Guarantees 205
*Narayanan Natarajan, Abdelhakim Hafid, Ben Falchuk, Arunendu Roy,
Jorge Pastor, Young Kim*

Topics in Management Architectures

A Multi-agent System for Resource Management in Wireless Mobile
Multimedia Networks..... 218
Youssef Iraqi, Raouf Boutaba

Using Message Reflection in a Management Architecture for CORBA 230
*Maarten Wegdam, Dirk-Jaap Plas, Aart van Halteren,
Bart Nieuwenhuis*

Evaluation of Constrained Mobility for Programmability in Network
Management 243
Christos Bohoris, Antonio Liotta, George Pavlou

Author Index..... 259

Services Management in Intelligent Networks
11th IFIP/IEEE International Workshop on Distributed
Systems: Operations and Management, DSOM 2000
Austin, TX, USA, December 4-6, 2000 Proceedings
Ambler, A.; Calo, S.B.; Kar, G. (Eds.)
2000, X, 266 p., Softcover
ISBN: 978-3-540-41427-8