

CONTENTS

GUEST PAPER

- 1 Broadband Mobile Data Service Era is Coming

SPECIAL TOPIC: Carrier Ethernet

- 4 Carrier Ethernet Services and Technologies
10 T-MPLS Technology and Application on Carrier Ethernet
16 VPLS Technology and Its Applications
21 Ring Network Technology for Carrier Ethernet
25 Provider Backbone Transport Technology
30 Test Technology for Carrier Ethernet
33 OAM Technology of Packet Transport Network
36 Technology Development and Deployment Strategy of Carrier Ethernet
40 Location-Based Routing Algorithms for Wireless Sensor Network

RESEARCH PAPER

- 45 IMS for Enterprise Applications

OPERATIONAL APPLICATION

- 49 QoS Mechanism in EPS

DEVELOPMENT FIELD

- 54 Parallel Processing Design for LTE PUSCH Demodulation and Decoding Based on Multi-Core Processor

LECTURE SERIES

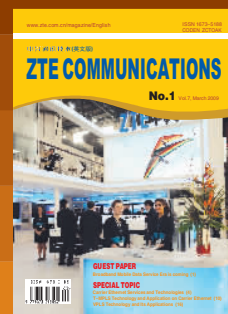
- 59 Cooperative Communication and Cognitive Radio (1)

ROUNDUP

- 53 ZTE Announces First EV-DO Revision B on CDMA2000 System
58 ZTE Rolls Out New Unified Open Environment Platform

DEPARTMENTS

- 64 Ad Index
65 Abbreviation Index



[Http://www.zte.com.cn/magazine/English](http://www.zte.com.cn/magazine/English)
Email: magazine@zte.com.cn

ZTE COMMUNICATIONS

Vol. 7 No.1 (Issue 21)

Quarterly

First Issue Published in 2003

Supervised by:

Anhui Science and Technology
Department

Sponsored by:

ZTE Corporation and Anhui Science
and Technology Information
Research Institute

Staff Members:

Editor-in-chief: Tian Wenguo
Deputy Editor-in-chief: Deng Xin
Executive Deputy
Editor-in-chief: Huang Xinming
Editor in Charge: Zhu Li
Editors: Olga Saprykina,
Guo Min, Yang Qinyi, Lu Dan
Producer: Yu Gang
Circulation Executive: Wang Pingping
Editorial Assistant: Wang Kun

Editorial Correspondence:

Add: 450 Rongshida Avenue,
Hefei 230041, P. R. China
Tel: +86-551-5533356
Fax: +86-551-5850139
Email: magazine@zte.com.cn

Published and Circulated (Home and Abroad) by:

Editorial Board of
ZTE COMMUNICATIONS

Printed by:

Hefei Zhongjian Color Printing Company

Publication Date: March 25, 2009

Publication Licenses:

ISSN 1673-5188
CN 34-1294/TN

Advertising License:

皖合工商广字0058号

Annual Subscription Rate:

USD\$20

Responsibility for the contents rests
upon authors of signed articles and
not upon the editorial board of
ZTE COMMUNICATIONS or its sponsors.
All rights reserved.