I. INTRODUCTION AND KEY FINDINGS

1.1 Key Findings
1.2 Report Structure

II. DEFINING NEXT-GEN ROUTERS

2.1 Basic Router Terminology
2.2 Terminology Confusion
2.3 Overview of Network Architectures
2.4 IP VPNs

III. THE QUESTION OF CONVERGENCE

3.1 Adoption of Standards for IP Networks
3.2 Protocols for Converged Network Development: MGCP/Megaco
3.3 SIP and H.323
3.4 VOIP
3.5 Barriers to Widespread Adoption of VOIP
3.6 Reliability Challenges
3.7 The Microburst Problem
3.8 Network Availability Issues
3.9 Other Reliability Issues
3.10 The Need for IPv6
3.11 Likely Catalysts in the Router Market

IV. NEXT-GEN ROUTER PRODUCT ANALYSIS

4.1 Alcatel SA
   – OmniSwitch 8800
   – OmniSwitch 7000 Series
   – 7750 Service Router Series
   – 7770 OBX (Optical Broadband Exchange)
   – 7470 MSP – MultiService Platform
   – 7670 RSP – Routing Switch Platform

4.2 Avici Systems Inc.
   – TSR – Terabit Switch Router
   – SSR – Stackable Switch Router
   – QSR – Quarter-rack Scalable Router

4.3 Axiowave Networks Inc.
   – XCR 128

4.4 Caspian Networks Inc.
   – Apeiro

4.5 Charlotte's Web Networks Ltd.
   – Aranea-1

4.6 Chiaro Networks Inc.
   – Enstara
IV. NEXT-GEN ROUTER PRODUCT ANALYSIS (CONTINUED)

4.7 Cisco Systems Inc.
   – Cisco CRS-1
   – 7600 Series
   – 7500 Series
   – 7200 Series
   – 7300 Series
   – 7400 Series
   – 6400 Series Broadband Aggregator Router
   – 12000 Series
   – 12400 GSR (Gigabit Switch Router) Series
   – 12800 Series
   – Cisco ESR (Edge Service Router) 10000 Series

4.8 Enterasys Networks Inc.
   – X-Pedition ER16
   – X-Pedition 8600 switch router
   – X-Pedition 8000 switch router

4.9 Extreme Networks Inc.
   – BlackDiamond 10808 Switch/Router
   – BlackDiamond 6800 Series

4.10 Force10 Networks Inc.
   – E-Series E1200
   – E-Series E600

4.11 Foundry Networks Inc.
   – BigIron MG8
   – BigIron Series (4000, 8000, 15000)

4.12 Fujitsu Ltd.
   – GeoStream R980
   – GeoStream R940
   – GeoStream R920

4.13 Hitachi Ltd.
   – GR2000 Series

4.14 Huawei Technologies Co. Ltd.
   – Quidway NE40 Series
   – Quidway NetEngine Series

4.15 Hyperchip Inc.
   – PBR-1280 Core IP System

4.16 ImageStream Internet Solutions Inc.
   – Carrier Pro II
   – Enterprise Pro

4.17 Juniper Networks Inc.
   – M-series Routers
     – Juniper M5
     – Juniper M7i
     – Juniper M10
     – Juniper M10i
     – Juniper M20
     – Juniper M40
     – Juniper M40e
     – Juniper M160
     – Juniper M320
IV. NEXT-GEN ROUTER PRODUCT ANALYSIS (CONTINUED)

– T-Series
  – Juniper T320
  – Juniper T640

– E-Series
  – Juniper ERX-310, ERX-705, and ERX-710
  – Juniper ERX-1410
  – Juniper ERX-1440

4.18 Laurel Networks Inc.
  – ST200 Service Edge Router
  – ST50 Service Edge Router

4.19 Lucent Technologies Inc.
  – NX64000 Multi Terabit Switch Router
  – GRF 1600
  – GRF 400

4.20 Luminous Networks Inc.
  – M-Series Metro Optical Access System
  – E-Series CPE Optical Access Platform (E200)
  – C-Series Optical Access Platform

4.21 NEC Corp.
  – CX5220
  – CX5210
  – CX4220
  – CX4210
  – IX 5000 Series

4.22 Nortel Networks Corp.
  – Multiservice Provider Edge (MPE) Series
  – Backbone Concentrator Node (BCN) Router
  – Backbone Link Node (BLN) Router
  – Services Edge Router (SER) 5500

4.23 Procket Networks Inc.
  – PRO/8812 High Availability Router
  – PRO/8801 High Availability Router

4.24 Redback Networks Inc.
  – SmartEdge 800
  – SmartEdge 400
  – SMS (Subscriber Management System) 500
  – SMS 1800 / 1800 SL
  – SMS 10000 SL

4.25 Riverstone Networks Inc.
  – RS Series

4.26 Tellabs Inc.
  – Multiservice Router (MSR) Series
    – MSR 8860
    – MSR 8820

APPENDICES

A About the Authors
B Legal Disclaimer