



The EDGE Operators' Forum

** Overview of EOF*

** EDGE White Paper*



2002 Program

▶ Target Audience:

- operators in key global markets needing assistance/supportive material for business & deployment planning of the EDGE component of 3GSM vs. other 3G migration paths (e.g. 1X RTT)
- application developers needing better understanding of market requirements for wireless mobility and enhanced services (data ,video, MMS) via EDGE
- regulators requiring better information regarding EDGE as it relates to spectrum allocation to support 3G Service deployment

▶ Planning Group:

- 2002 planning driven by operators and vendors committed to EDGE development and deployment: initial planning group consists of

Operators: **AT&T, Cingular**

Vendors: **Ericsson, Motorola, Nokia, Nortel, Siemens**

- shared discussions and planning with GSA, GSMA and 3G Americas regarding support for specific events, endorsement/participation, marketing communications, etc.

➤ **Key Attribute of EOF: a *partnership* of the key EDGE operators and vendors**



EOF 2002: Key Events

- ✓ EDGE Operators' Forum in Cannes: February 19
- ✓ EDGE Operators' Forum in Orlando: March 17
- ✓ EOF Activity in Rome: GSMA Plenary #47 (April 15)
- ✓ EOF Activity in Singapore: CommunicAsia 2002 (June 19)
- ✓ EOF Activity in Singapore: 3GSM Asia Pacific (Sept. 16)
- GSMA Plenary #48: Turkey (Oct. 14-17) *(report)*
- EOF Activity in Sao Paulo: 3GSM Americas (Dec. 3)

2003 EOF events in planning; demand and opportunity driven



EDGE: Taking GSM to 3G

- ▶ **EDGE/EGPRS as the next logical investment to enhance GSM/ GPRS in current bands**
 - small incremental cost and rapid time-to-market
 - becomes default for all new radio: no more GSM/GMSK only
- ▶ **EDGE as the In-Band 3G component of 3GSM, to complement WCDMA/ UMTS in wideband spectral markets**
 - shift focus to service transparency, global device mobility, enhanced service roaming, multi-mode/multi-band/"inter-generational" service delivery
- ▶ **Forward Evolution of GERAN and UTRAN access and mobility solutions on a common 3GPP Core Network**

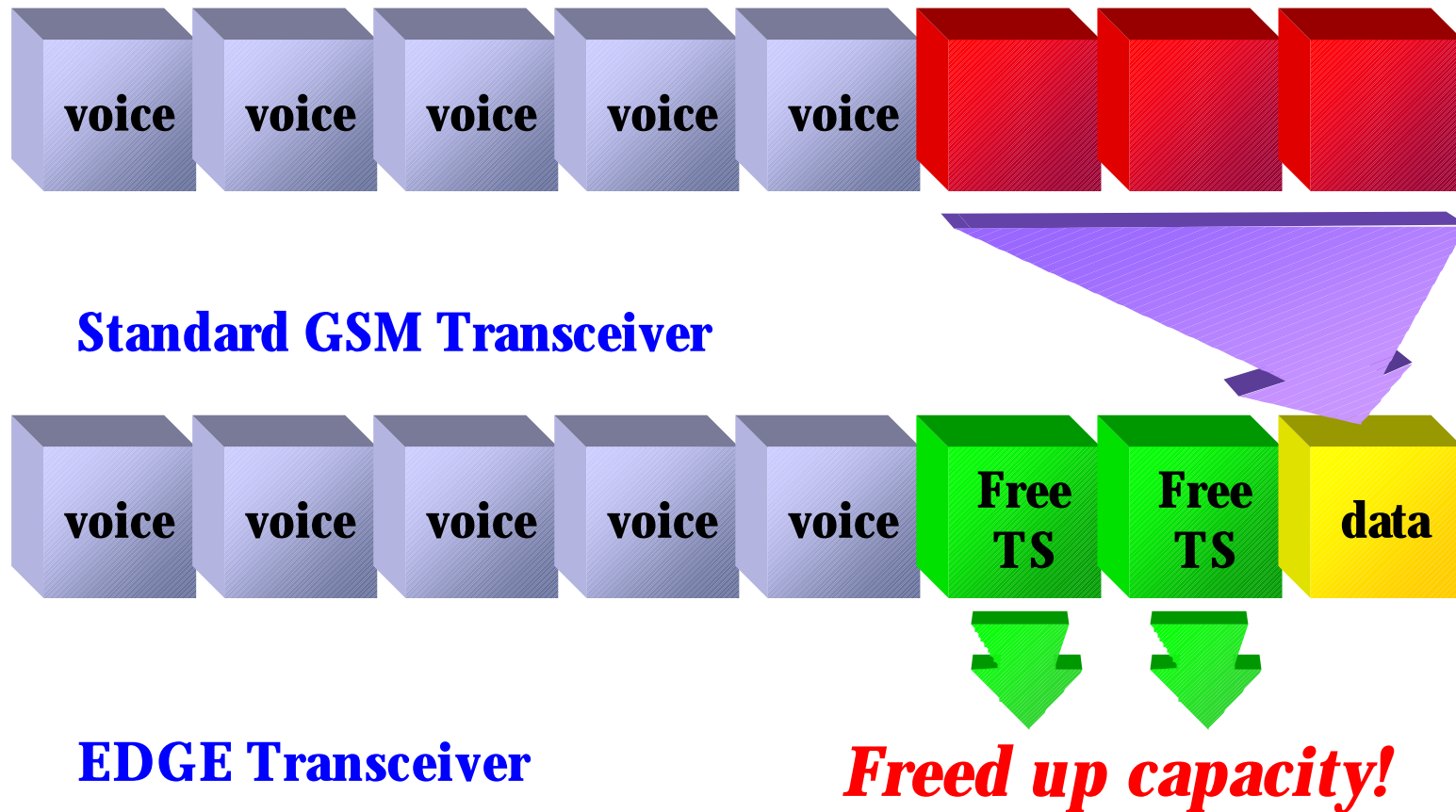


EDGE Operators' Forum

EDGE White Paper:

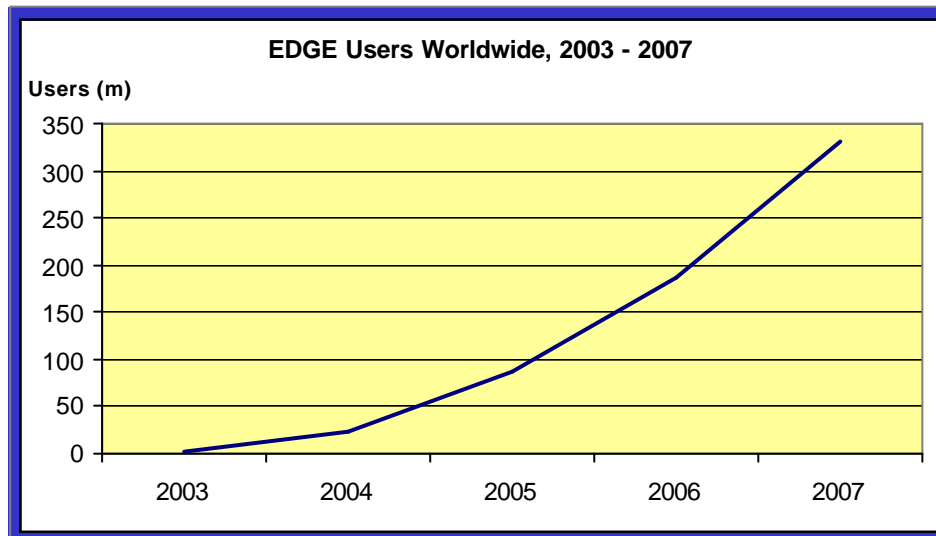
The EDGE Option for GSM Operators

EDGE as Capacity Multiplier





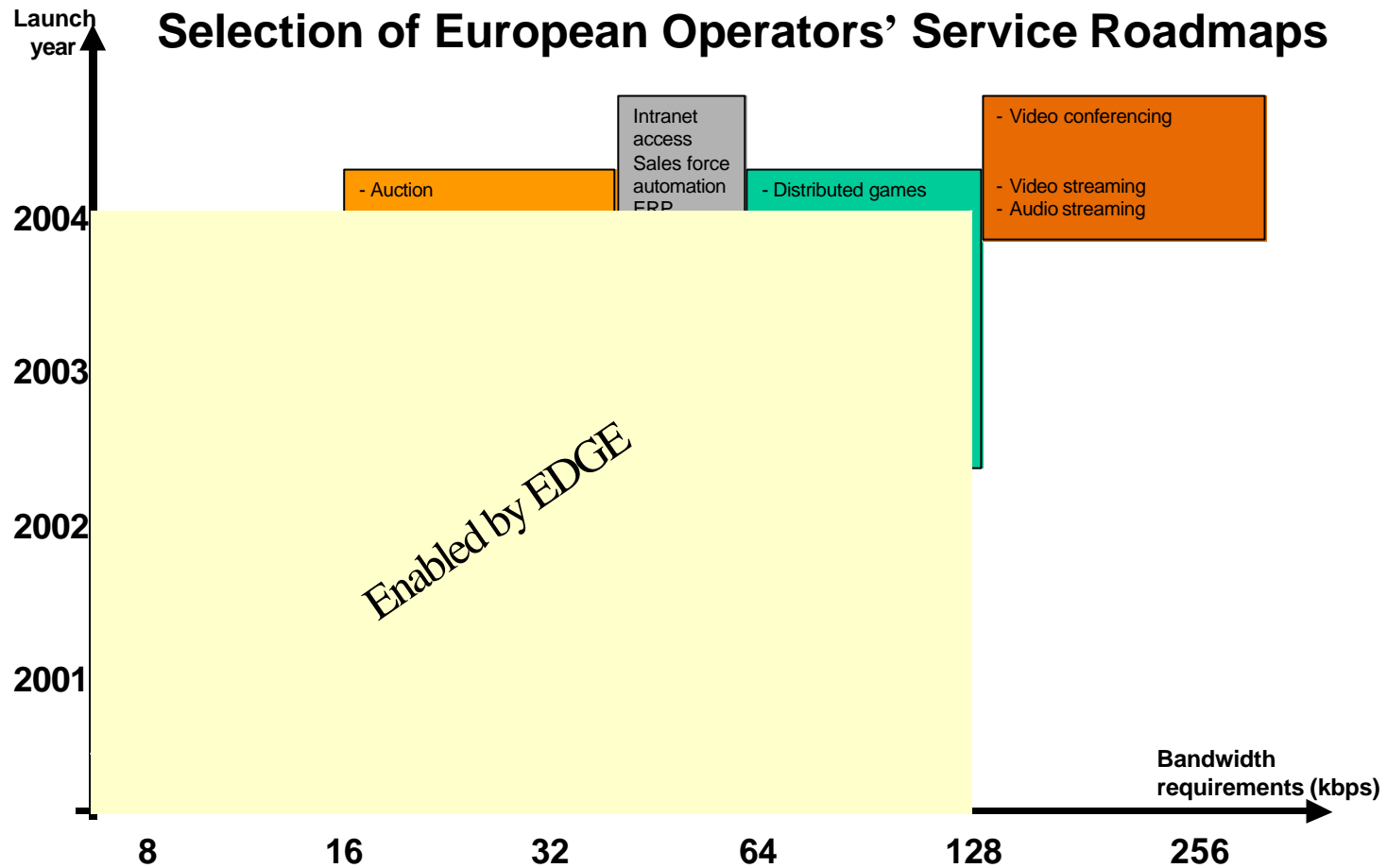
EDGE Operators' Forum



- ▶ **EDGE users worldwide** to reach 331.4m by 2007, including user base of 164m in Europe & 108.8m in North America
- ▶ **EDGE ARPU to reach US\$48.99 by 2005**; data accounts for 27% of the total
- ▶ **The market for mobile entertainment services** to grow exponentially with revenues of US\$34 billion in 2007
- ▶ **Shipments of EDGE-enabled handsets** to top 201.6m by 2007



EDGE Operators' Forum



Source: EDGE Operators' Forum

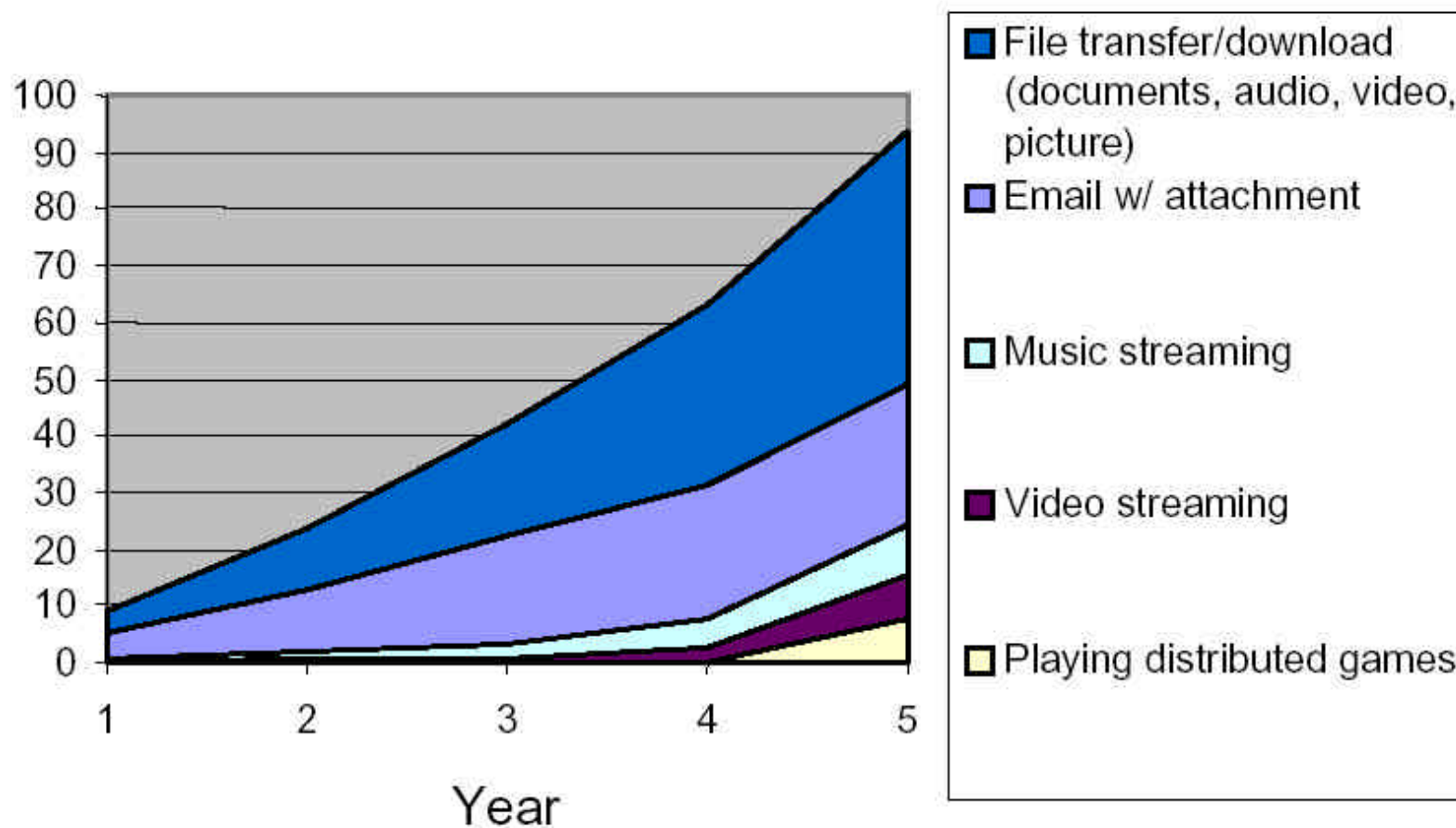
Global EDGE Revenues (US\$m)

EDGE Operators' Forum

| | • 2003 • (\$m) | • 2007 • (\$m) |
|----------------------|-------------------|-------------------|
| • PIM (Messaging) | • \$48.83 | • \$16,256.82 |
| • M-Commerce/ Retail | • \$3.25 | • \$1,689.70 |
| • Financial Services | • \$9.54 | • \$2,724.27 |
| • Intranet Access | • \$29.87 | • \$7,928.17 |
| • Internet Access | • \$7.91 | • \$3,552.50 |
| • Entertainment | • \$43.93 | • \$34,551.88 |
| • Location | • \$13.57 | • \$6,083.65 |
| • Total | • \$156.91 | • \$72,786.99 |



Revenue per EDGE enabled Service (over EDGE)



Source: EDGE Operators' Forum



EDGE Operators' Forum

▶ *30% of ARC survey respondents cited uncertainty about future of technology as the key barrier to deploying EDGE*

FACT: EDGE is market reality now

FACT: EDGE is a global standard for 3G services (3GPP, ITU/IMT-2000)

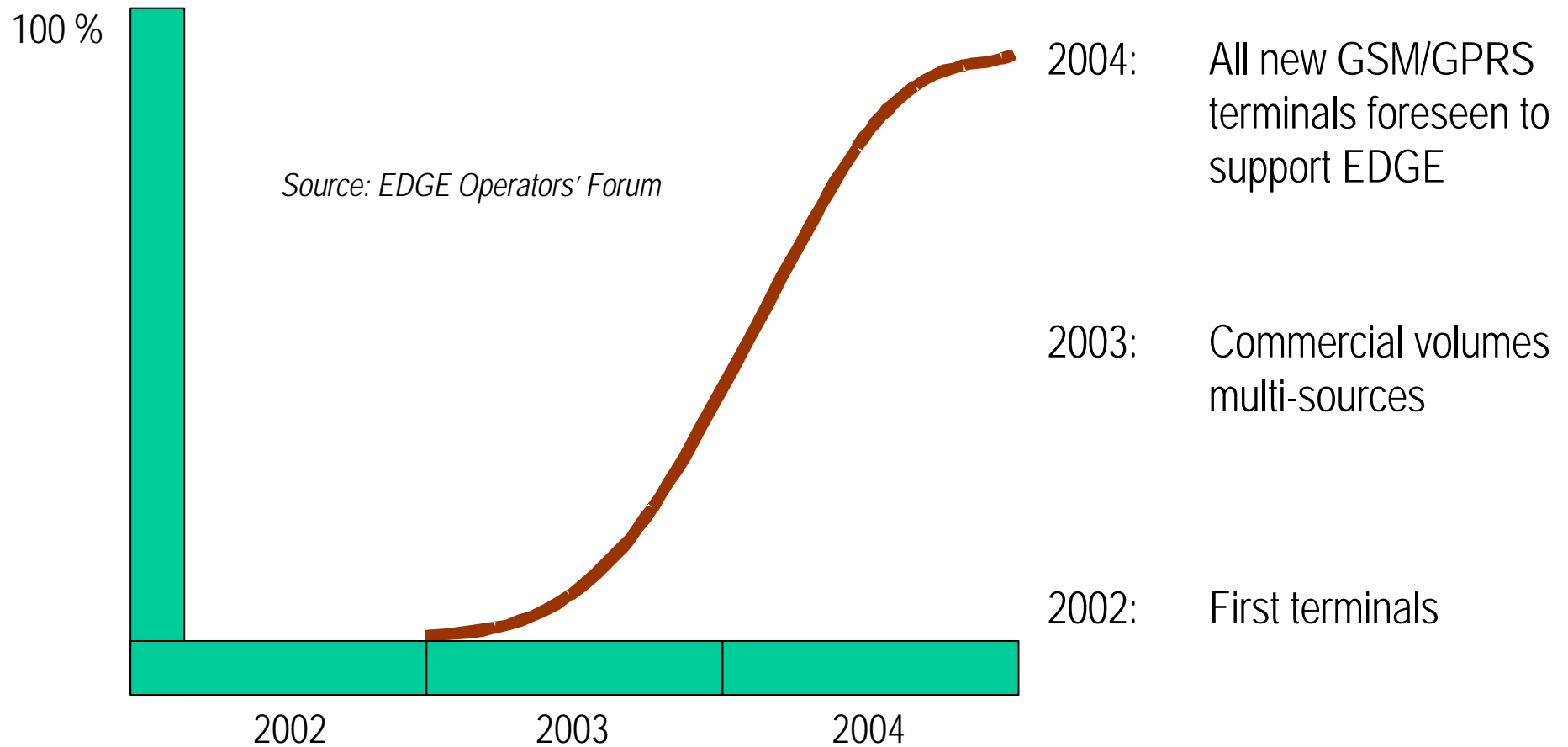
▶ *20% of ARC survey respondents cited lack of handset supply demand*

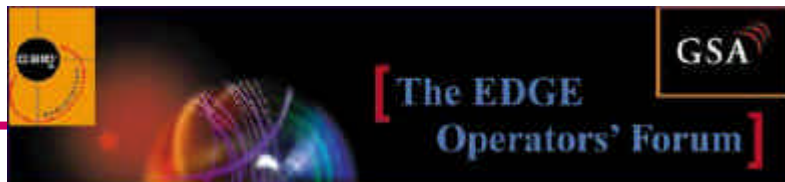
FACT: Industry has publicly committed to Infrastructure and Terminals availability - this is no longer a concern



EDGE Operators' Forum

EDGE in new GSM/GPRS terminals





EDGE Operators' Forum

Download White Paper via:

www.gsacom.com/gsm_3g/opinion_papers.htm

Press release (September 19, Singapore):

www.gsacom.com/news/gsa_126.htm

The EDGE Option for GSM Operators

| Table of Contents | |
|-------------------------------------|---|
| Executive Summary | 1 |
| Introduction | 1 |
| Current Status of EDGE | 2 |
| General Benefits of EDGE | 4 |
| The Cost of Deploying EDGE | 4 |
| Application Development and Support | 5 |
| Status of EDGE in the Market | 6 |
| Conclusions | 7 |
| Bibliography | 7 |

Sponsored by the EDGE Operators' Forum