Multi-Port GSM Gateway Series
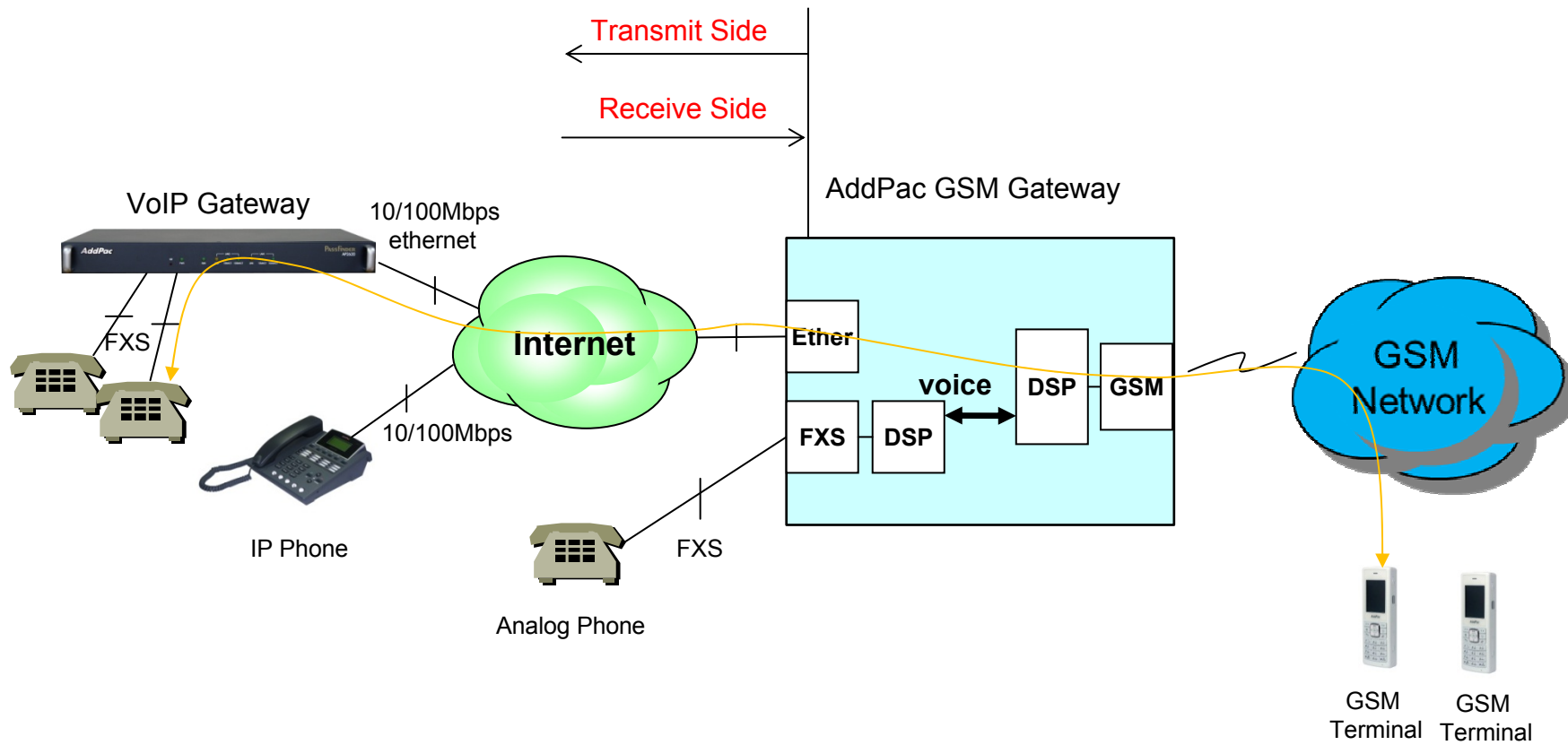
QoS Service Overview

AddPac Technology

Sales and Marketing

Contents

- Network Diagram
- Advanced QoS Features
- Packet Transmit Diagram (before, after QoS mode)
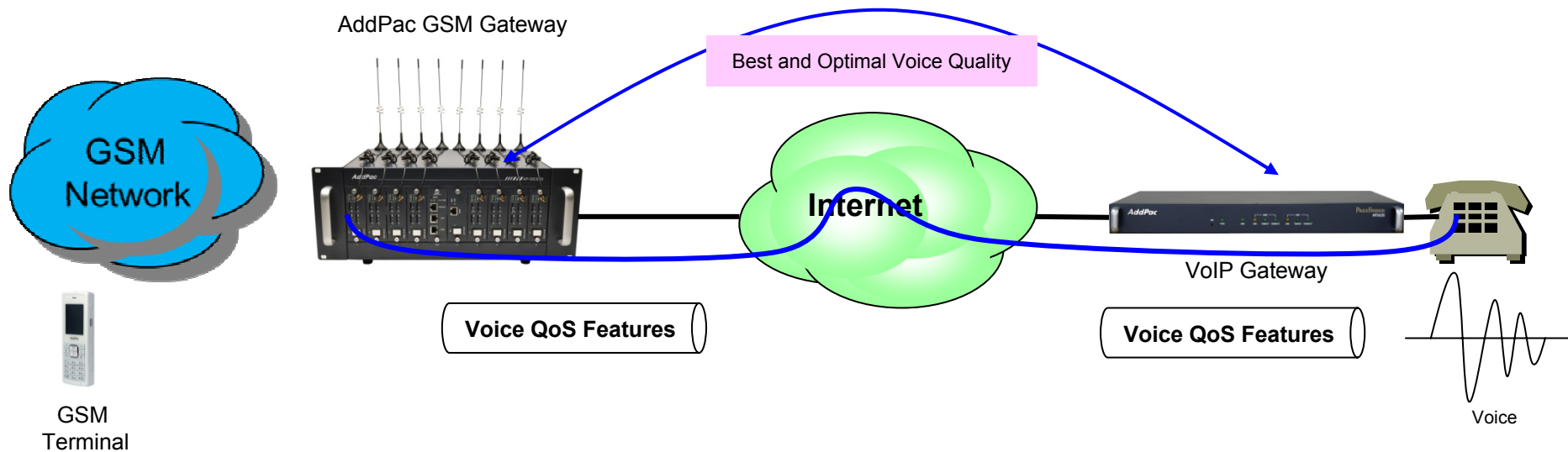- Command Line Example for QoS Mode

Network Diagram

Transmit Side

Receive Side

AddPac GSM Gateway

VoIP Gateway

10/100Mbps ethernet

FXS

Internet

Ether

voice

DSP

GSM

GSM Network

IP Phone

10/100Mbps

FXS

DSP

FXS

Analog Phone

GSM Terminal

GSM Terminal

Advanced QoS Features
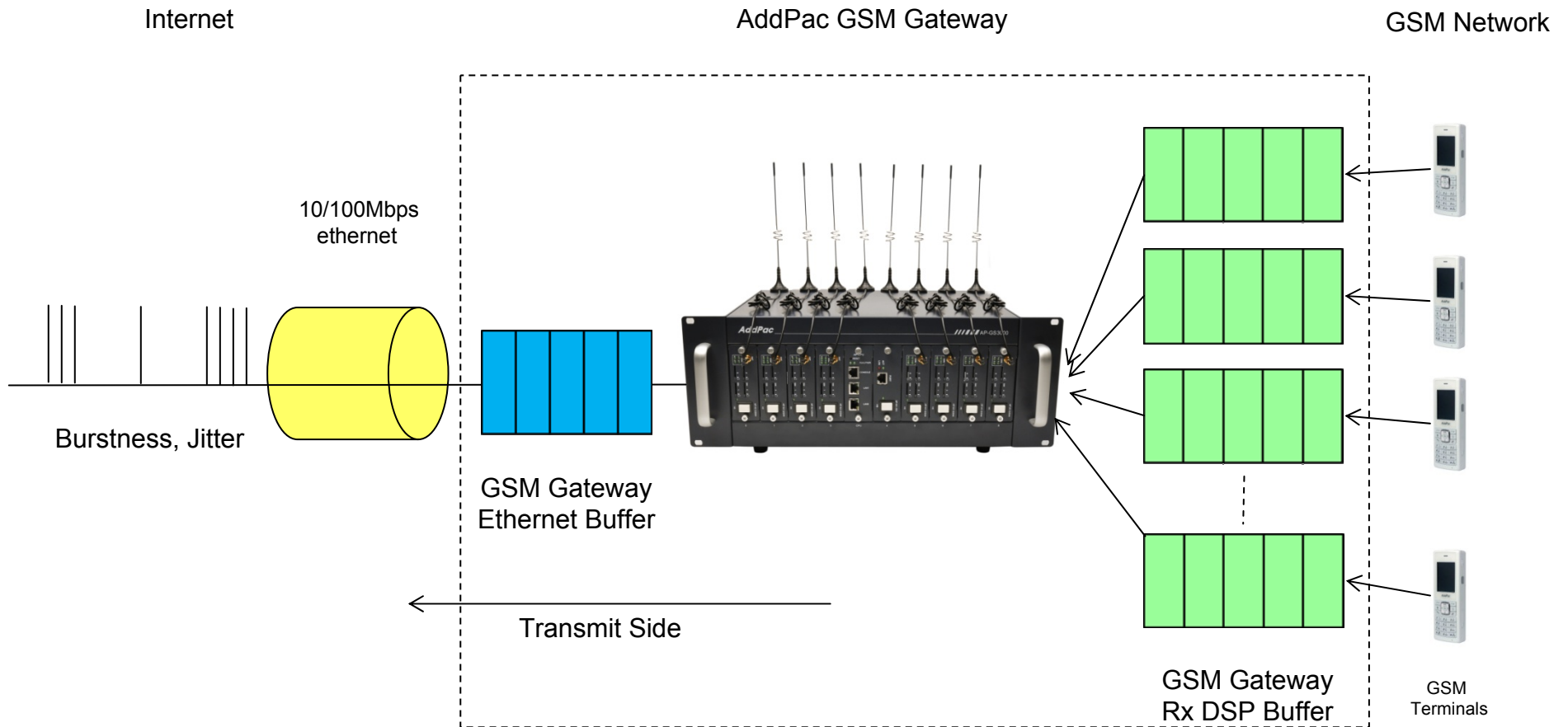
- Enhances Transmit Voice QoS Features
  - Voice Traffic Priority Queuing
  - QoS Service Profiling
  - Providing Virtual Network Transmit Algorithm
  - Real-time Voice Traffic QoS Support
  - RTP Packet Transmit Interval Control
  - Supporting RTP Packet Redundancy Scheme
  - IP Header Control such as ToS, Diffserv

- Enhances Receive Voice QoS Features
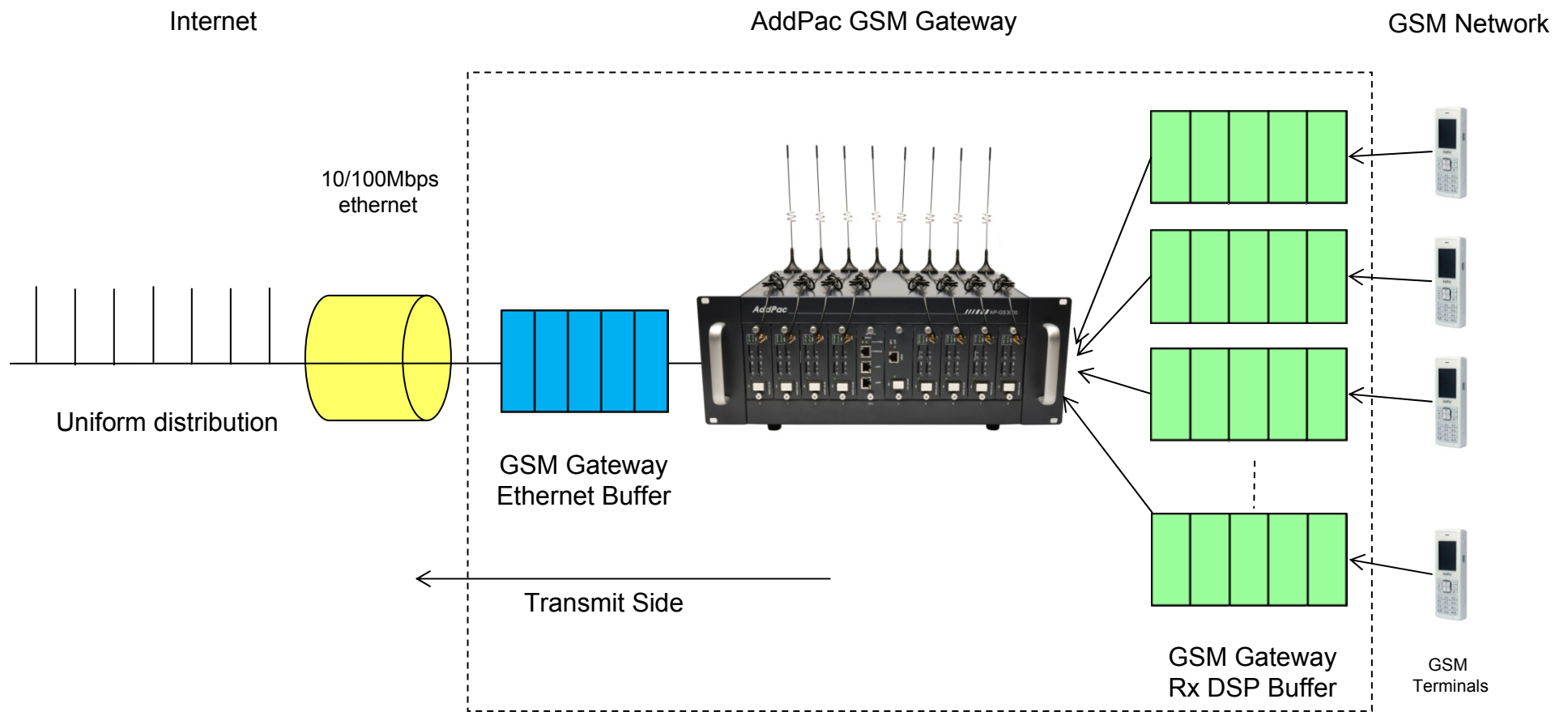 - Dynamic Jitter Buffer Management
  - Error Concealment

AddPac GSM Gateway

Best and Optimal Voice Quality

GSM Network

Internet

VoIP Gateway

Voice QoS Features

Voice QoS Features

GSM Terminal

Voice

AddPac

Packet Transmit (Before QoS enable mode)

Internet

AddPac GSM Gateway

GSM Network

10/100Mbps ethernet

Burstness, Jitter

GSM Gateway Ethernet Buffer

Transmit Side

GSM Gateway Rx DSP Buffer

GSM Terminals

AddPac

Packet Transmit (After QoS enable mode)

Internet

AddPac GSM Gateway

GSM Network

10/100Mbps
ethernet

Uniform distribution

GSM Gateway
Ethernet Buffer

Transmit Side

GSM Gateway
Rx DSP Buffer

GSM
Terminals

AddPac

CLI for Ethernet interface QoS

```
Welcome, APOS(tm) Kernel Version 8.51.002.
Copyright (c) 1999-2010 AddPac Technology Co., Ltd.


User Access Verification

Login: root ← Login
Password:
GS3000_251> enable ← QoS Mode Enable
GS3000_251# configure terminal ← Global configuration
GS3000_251(config)# interface FastEthernet0/0 ← Fast Ethernet 0/0 interface configuration
GS3000_251(config-if)# qos-control
 <48-30000>  Qos bandwidth (Kbps)
 <cr>
GS3000_251(config-if)# qos-control 2048
 <50-2000>  Qos packet transmission rate (Packet Per Second)
 <cr>
GS3000_251(config-if)# qos-control 2048 2000
 <cr>
GS3000_251(config-if)# qos-control 2048 2000 ← QoS Command
```

AddPac

Thank you!

AddPac Technology Co., Ltd.
Sales and Marketing

Phone +82.2.568.3848 (KOREA)
FAX +82.2.568.3847 (KOREA)
E-mail sales@addpac.com