

# VoIP Gateway Series

## Satellite QoS Service Overview



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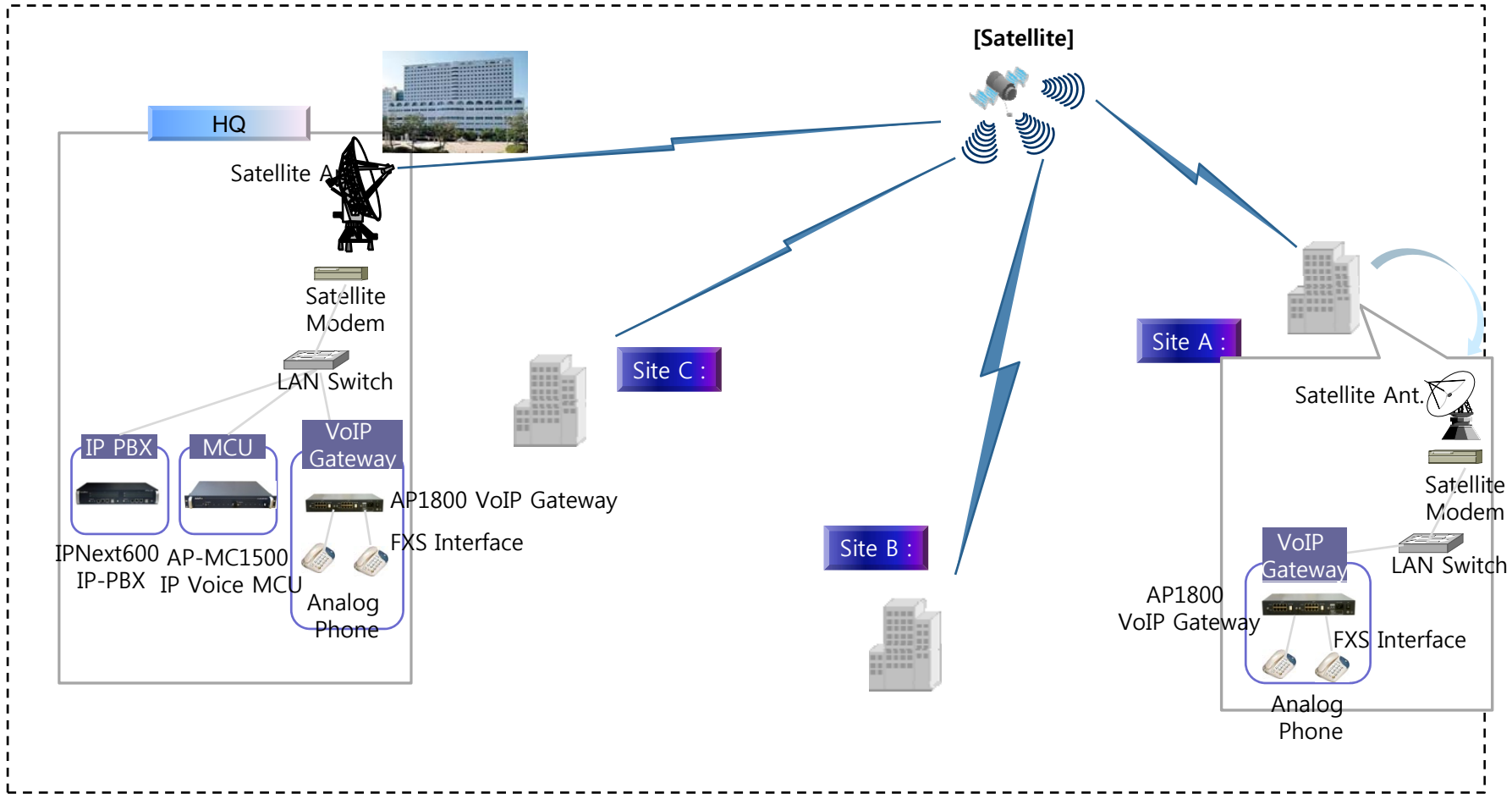
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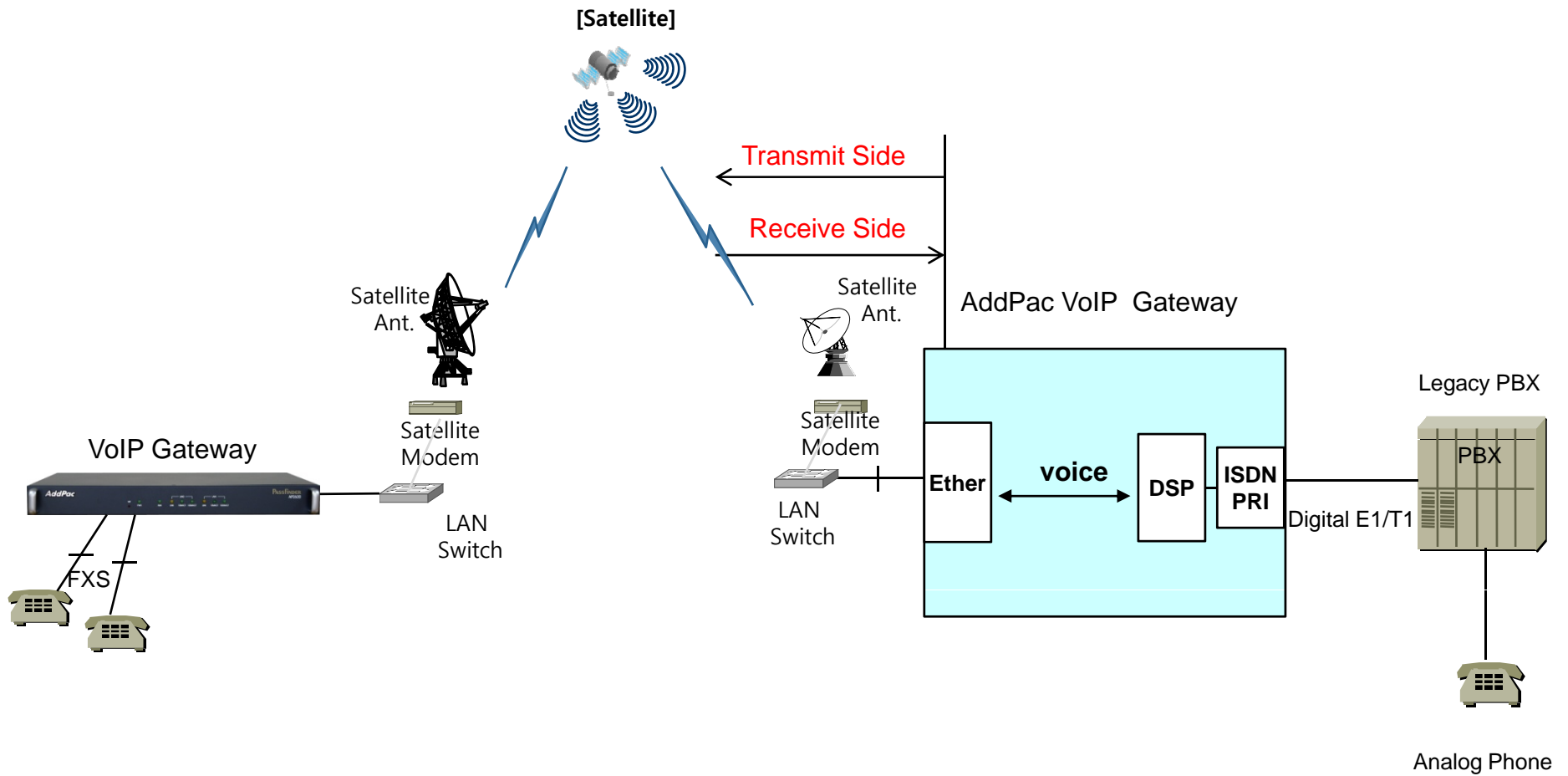
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# Satellite IP Telephony Network Diagram



# Network Diagram



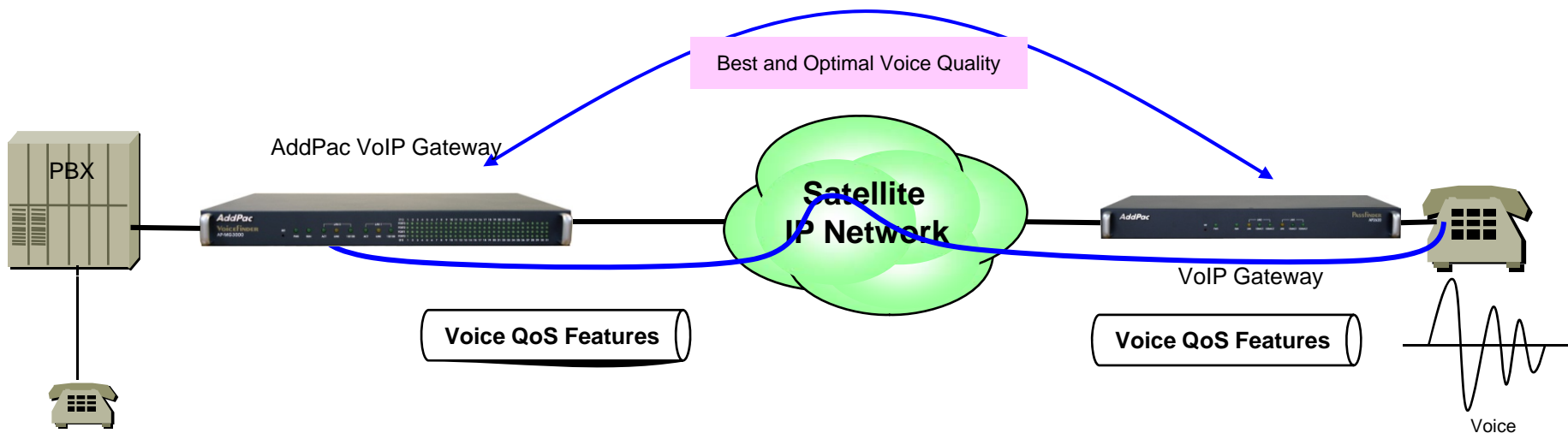
# Advanced QoS Features

- 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



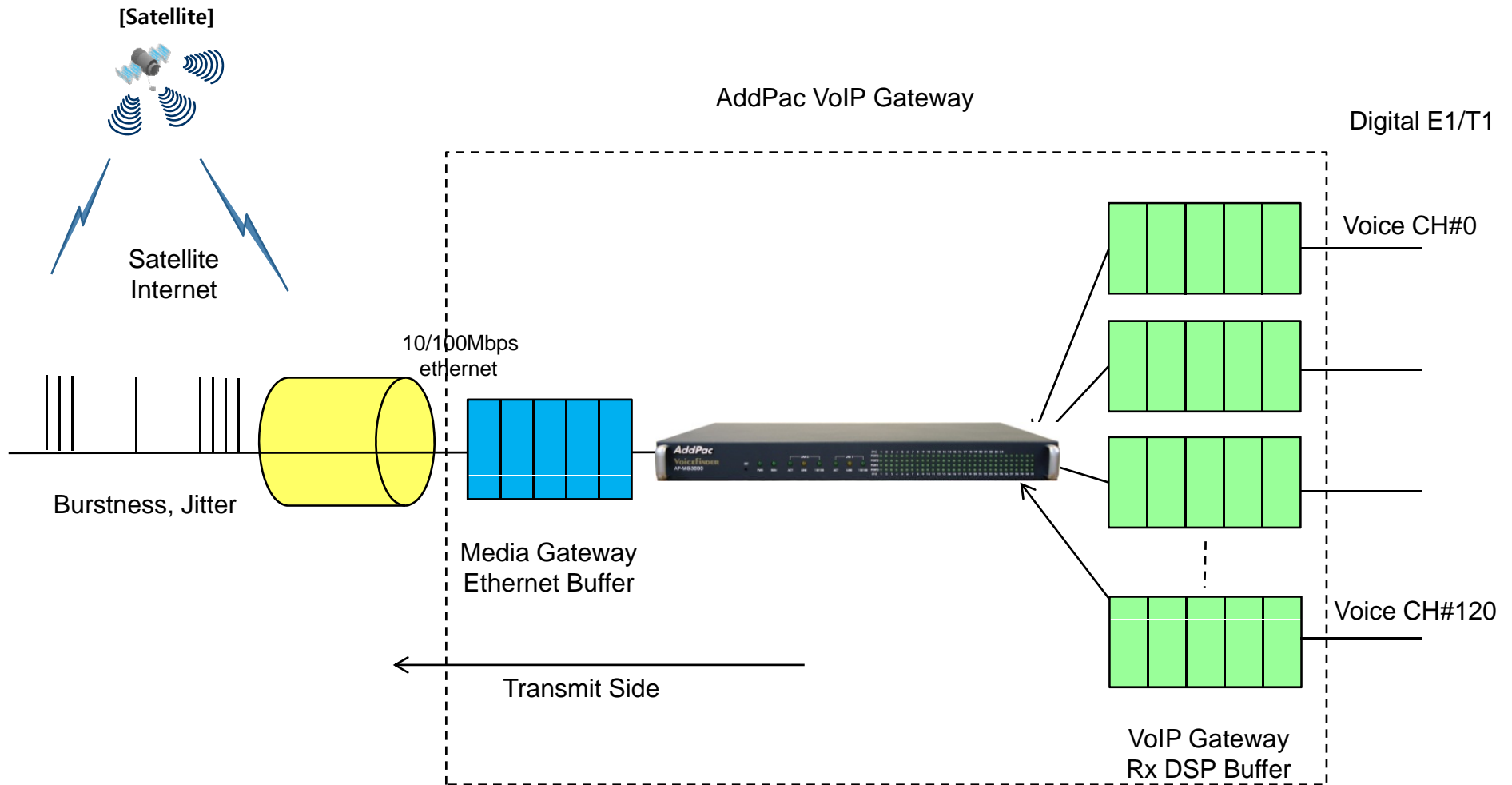
Analog Phone

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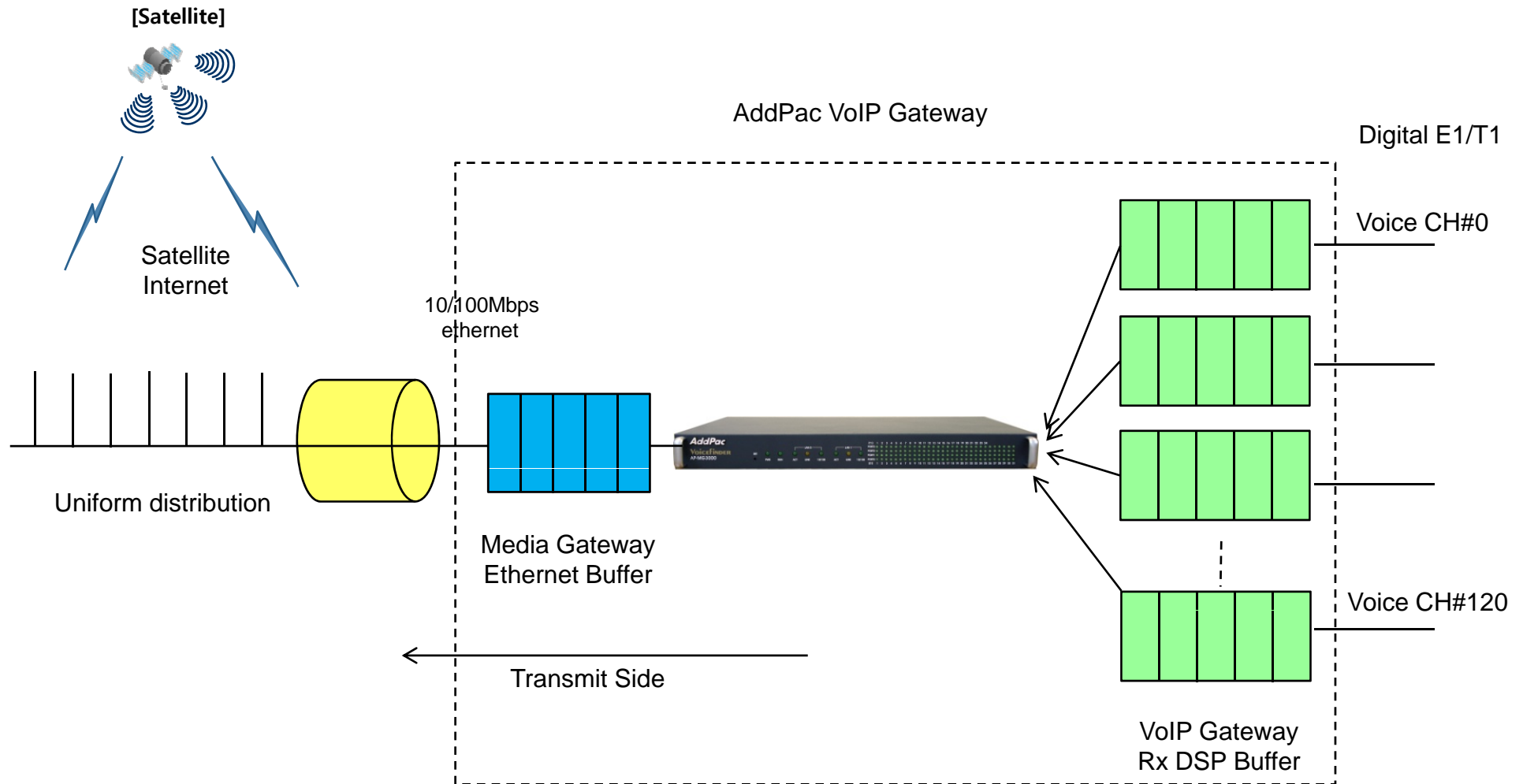
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# Packet Transmit (Before QoS enable mode)



# Packet Transmit (After QoS enable mode)



# 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:
```

```
MG3000_251> enable ← QoS Mode Enable
```

```
MG3000_251# configure terminal ← Global configuration
```

```
MG3000_251(config)# interface FastEthernet0/0 ← Fast Ethernet 0/0 interface configuration
```

```
MG3000_251(config-if)# qos-control  
<48-30000> Qos bandwidth (Kbps)  
<cr>
```

```
MG3000_251(config-if)# qos-control 2048  
<50-2000> Qos packet transmission rate (Packet Per Second)  
<cr>
```

```
MG3000_251(config-if)# qos-control 2048 2000  
<cr>
```

```
MG3000_251(config-if)# qos-control 2048 2000 ← QoS Command
```



# Smart Web Manager (QoS Control)

**Smart Web Manager**  
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**System** (Language, **WAN Setup**, LAN Setup, NAT, NTP, System Time, File Browser)

**Basic** (+)

**Advanced** (+)

**Miscellaneous** (+)

**LCR** (+)

**SMS** (+)

### WAN & Tunneling Setup

**WAN Setup**

Hostname: Router

IP Address: 172.16.9.120 (A,B,C,D)  
Network Mask: 255.255.0.0 (A,B,C,D)  
Default Router: 172.16.1.1 (A,B,C,D)  
DNS Server: (Primary DNS Server)  
Secondary DNS Server

**Static IP**

User name:   
Password:   
Authentication:  (No Authentication)  PAP (PPP Authentication Protocol)  CHAP(Challenge Handshake Authentication Protocol)

**PPPoE(ADSL)**

**DHCP**

**VLAN** ID: 0   
Auto

**QoS Control** (highlighted in yellow callout):  
- 'Supported by Bandwidth and PPS(Packets Per Second) conditions.'

**Enable QoS (optional)**

Bandwidth :   
PPS :

Apply

# VoIP Gateway Series

# Thank you!

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