

**97-0611**

**Modifications to the Latency  
Section of Performance  
Testing Baseline Text**

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- ❑ More precise measurement procedures
- ❑ Complete list and description of foreground and background traffic characteristics
- ❑ Scalable test configurations
- ❑ Reporting requirements

# Latency Measurement

- ❑ Precise procedure description
- ❑ Includes mean and standard deviations
- ❑ Various intensities of foreground traffic  
(0+%, 50%, 75%, 87.5%, ...)
- ❑ Various intensities of background traffic  
(0%, 50%, 75%, ... of max background load)

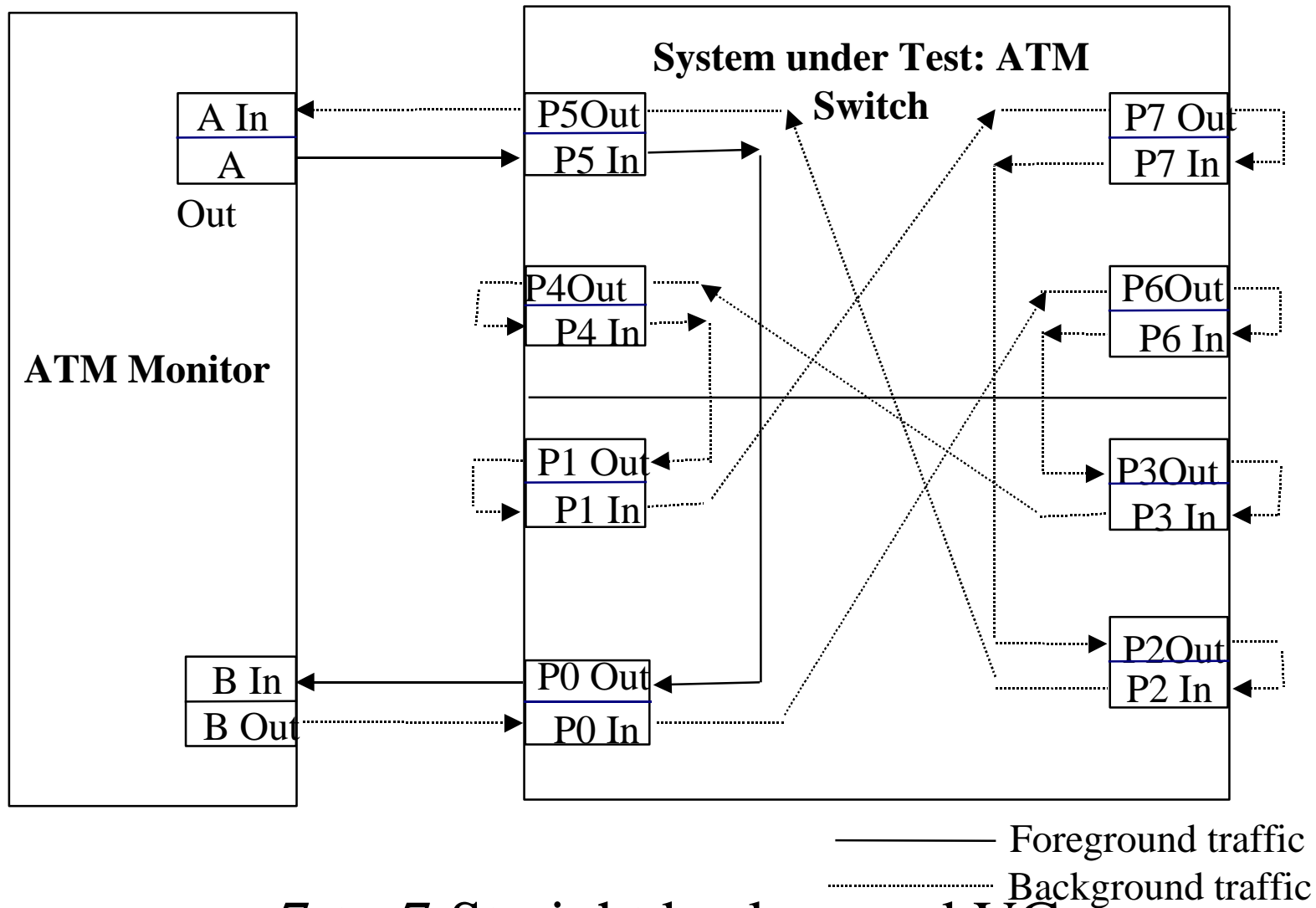
# Foreground Characteristics

- ❑ Type of VCCs: PVP, SVP, **PVC**, SVC,
- ❑ VCCs between ports on same/**different modules**/fabrics.  
“Same module” may or may not be better.
- ❑ Service class: **UBR**, ABR
- ❑ Arrival patterns: **equally spaced frames**, self-similar, random
- ❑ Frame length: 64 B, **1518 B**, **9188 B** or 64 kB, variable;
- ❑ Full foreground load (FFL)
- ❑ Input rate/FFL =  $0^+$ , 0.5, **0.75**, ...  $1-2^{-k}$ ,  $k = 1, 2, \dots$

# Background Characteristics

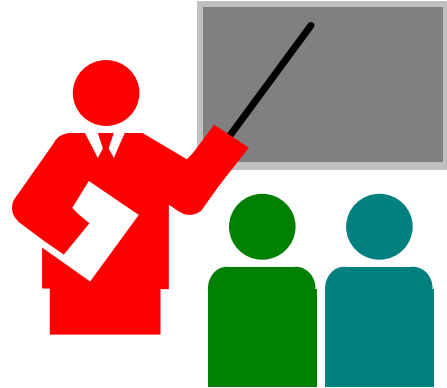
- ❑ Type of VCCs: PVP, SVP, **PVC**, SVC,
- ❑ VCCs between ports on same/**different modules**/fabrics
- ❑ Connection configuration: n-to-n straight,  
n-to-(n-1) full cross,  
**n-to-m partial cross with  $m = 2, 3, 4, \dots, n-1$**
- ❑ Service class: **UBR**, ABR, **CBR**, and VBR
- ❑ Arrival patterns: **equally spaced frames**, self-similar,  
random
- ❑ Frame length: 64 B, 1518 B, **9188 B** or 64 kB, variable
- ❑ Maximum background load (MBL) =  $\Sigma$  Link Rates
- ❑ Input rate/MBL = **0**, 0.5, 0.75, **0.875**,...  $1-2^{-k}$ ,  $k = 0, 1, 2, \dots$

# Scaleable Test Configuration



7-to-7 Straight background VCs

# Motion



- ❑ Adopt the text of 97-0611 to replace section 3.2 of Performance Testing Baseline Text.