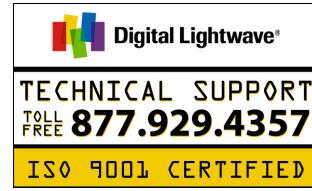


Application Note

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ATM VCC Table Configuration Limitations:

Although the ASA-312 supports CBR, VBR and UBR ATM protocol channel configurations, there are limitations to the types of channels that may be mixed within the configured VCC table. (*This is a hardware limitation.*)

The chart below depicts the limitations for the current 386 based and 486 based hardware / software platforms. They are identical.

Channel Type Description	Legitimate Configuration
All VBR Channels.	Permitted
All UBR Channels.	Permitted
All CBR Channels.	Permitted
Mixed UBR and VBR Channels.	Permitted
Mixed UBR and CBR Channels.	Permitted
Mixed CBR and VBR channels.	Not Permitted

Definitions:

CBR - Constant Bit Rate. A VCC channel configured for CBR operates at a fixed constant bit rate assigned at the time of configuration.

VBR - Variable Bit Rate. A VCC channel configured for VBR operates at varied bit rates depending upon traffic / activity and congestion. When traffic / activity is high, the bit rate will be adjusted to a lower bit rate based upon the volume of traffic and the *SCR* value. When traffic / activity is low, the bit rate will be adjusted to a higher bit rate based upon the volume of traffic and the *PCR* value.

UBR - Unspecified Bit Rate. A VCC channel configured for UBR operates at data rates that are directly related to the unused / unallocated bandwidth remaining after the CBR or VBR bit rate VCC contract is fulfilled. (Whatever is left over.)

SCR - Sustained Cell Rate. The rate in which a VCC channel maintains the minimum / sustained bit rate available, depending upon the data rate of the transmission facility.

PCR - Peak Cell Rate. The maximum bit rate allocated to a specific VCC channel, depending upon the data rate of the transmission facility.