

SD-WAN Virtual Connection (SWVC) List of Policies Service Attribute

Associated with each SWVC is a list of named Policies that can be applied to [Application Flows](#) and [Application Flow Groups at SWVC End Points](#) (see section 9.3).

The value of this Service Attribute is a non-empty list of 2-tuples of the form *(polName,polCL)* where:

- polName* is an Identifier String that specifies the name of the Policy. *polName* cannot be “block”.
- polCL* is a non-empty list of Policy Criteria 2-tuples, of the form *(PCName,PCparam)* where:
 - PCName* is an Identifier String containing a Policy Criterion name from Table 3, or a Service Provider-defined Policy Criterion name.
 - PCparam* is a non-empty list of parameter values specific to the Policy Criterion specified in *PCName*.

[R17] A Policy name, *polName*, in the value of the SWVC List of Policies Service Attribute **MUST** appear, at most, once.

[R18] A Policy Criterion name, *PCName*, **MUST** appear, at

most, once in each list of Policy Criteria, *polCL*, in the value of the SWVC List of Policies Service Attribute.

[D1] The Policy Criteria listed in Table 3 **SHOULD** be supported for SWVCs.

PCname	Description	Values
ENCRYPTION	Indicates whether or not the Application Flow requires encryption.	Yes, Either
PUBLIC-PRIVATE	Indicates whether the Application Flow can traverse Public or Private Underlay Connectivity Services (or both).	Private-only, Either
INTERNET-BREAKOUT	Indicates whether the Application Flow should be forwarded to an Internet destination.	Yes, No
BILLING-METHOD	Indicates whether the Application Flow can be sent over an Underlay Connectivity Service that has usage-based or flat-rate billing.	Flat-Rate-Only, Either
BACKUP	Indicates whether this Application Flow can use a TVC designated as “backup”.	Yes, No
BANDWIDTH	Specifies a rate limit on the Application Flow.	<commit, max>

Table 3 – Policy Criteria

The behavior of these Policy Criteria is described in subsequent sections.

[R19] If the Service Provider defines its own Policy Criteria, the *PCNames* chosen by the Service Provider **MUST NOT** be the same as any of the *PCNames* in Table 3.

[R20] If the Service Provider defines its own Policy Criteria, the description of each Policy Criterion agreed upon with the Subscriber **MUST** include the following items:

- The *PCName*
- The possible values for the Policy Criterion
- The behavior associated with each value
- The behavior of each value when used with INTERNET-BREAKOUT
- Any interactions that the Policy Criterion has with other Policy Criteria

An example of a value for this Service Attribute is shown below:

```
[
  <polA, [<ENCRYPTION, Yes>
    <INTERNET-BREAKOUT, No>
    <PUBLIC-PRIVATE, Either>
    <BILLING-METHOD, Flat-rate-only>
    <BACKUP, No>
    <BANDWIDTH, 20Mbps, 50Mbps>]>
  <polB, [<ENCRYPTION, Yes>
    <INTERNET-BREAKOUT, No>
    <PUBLIC-PRIVATE, Private-only>
    <BILLING-METHOD, Flat-rate-only>
    <BACKUP, Yes>
    <BANDWIDTH, 50Mbps, none>]>
]
```

Status

PUBLISHED

Source(s) and Reference(s)

[MEF 70 - SD-WAN Service Attributes and Services Definition](#)

Related and Further Reading

- [SWVC End Point Policy Map](#)
- [SD-WAN Virtual Connection \(SWVC\) Service Attributes](#)
- [SD-WAN UNI L2 Interface Service Attribute](#)
- [SD-WAN Virtual Connection \(SWVC\) Identifier Service Attribute](#)
- [SD-WAN Virtual Connection \(SWVC\) End Point List Service Attribute](#)
- [SD-WAN Virtual Connection \(SWVC\) Reserved Prefixes Service Attribute](#)
- [SD-WAN Virtual Connection \(SWVC\) Service Uptime Objective Service Attribute](#)
- [SD-WAN Virtual Connection \(SWVC\) List of Policies Service Attribute](#)
- [SD-WAN Virtual Connection \(SWVC\) List of Application Flows Service Attribute](#)
- [SD-WAN Virtual Connection \(SWVC\) End Point Service Attributes](#)
- [Defined: SD-WAN Service Attributes](#)
- [SD-WAN PUBLIC-PRIVATE Policy Criterion](#)
- [SD-WAN Service Attributes](#)
- [SD-WAN Virtual Connection \(SWVC\) Service Attributes](#)
- [SD-WAN Policy Criteria specification and interaction](#)
- [SD-WAN BILLING-METHOD Policy Criterion](#)
- [SD-WAN INTERNET-BREAKOUT Policy Criterion](#)
- [SD-WAN BACKUP Policy Criterion](#)
- [SWVC End Point Identifier Service Attribute](#)
- [Defined: SD-WAN UNI](#)

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