

Resource - logicalinterface

About this Resource

Defines Logical Interface Managed Object

REST API Methods for this Resource

- GET logicalinterface
- GET logicalinterface id
- POST logicalinterface id

Resource Schema

Configuration

Parameter Name	Required	Service Affecting	Data Type	Default Value	Possible Values	Description
ConfigIEState	No	Yes	Enum	1	Possible values: <ul style="list-style-type: none">• 0 - esDISABLED• 1 - esENABLED	Specifies the Administrative State of the resource.
ifName	Yes	No	string	none	20 - Max Length	Is the name of the port of logical IP interface. This read-only attribute.
ifAlias	No	No	string	none	20 - Max Length	Assigns an alternative name for the interface; typically configured by the SNMP-based Network Manager. This parameter is unique among all the interfaces known to the SNMP Network Manager. The value cannot have whitespace characters.
ifHwType	No	No	Enum	0	Possible values: <ul style="list-style-type: none">• 0 - IF_HW_TYPE_ETHERNET• 1 - IF_HW_TYPE_T1E1• 2 - IF_HW_TYPE_RS530	Specifies the hardware type of the interface.
ifType	No	No	Enum	0	Possible values: <ul style="list-style-type: none">• 0 - IF_TYPE_ETHERNET• 1 - IF_TYPE_VLAN• 2 - IF_TYPE_QINQ• 3 - IF_TYPE_BONDED• 4 - IF_TYPE_BRIDGE	Specifies the interface type.
ifDescription	No	No	string	none	64 - Max Length	Assigns an operator-friendly description text configured by the operator for future reference. Whitespaces allowed.

ifNetworkingMode	No	No	Enum	0	Possible values: <ul style="list-style-type: none"> 0 - IF_NETWORK_MODE_SWITCH 1 - IF_NETWORK_MODE_ROUTE 	Specifies if the port is in switched mode or routed mode.
ifFrameType	No	Yes	Enum	0	Possible values: <ul style="list-style-type: none"> 0 - IF_FRAME_TYPE_ALL 1 - IF_FRAME_TYPE_UNTAGGED 2 - IF_FRAME_TYPE_TAGGED 	Specifies the types of frames allowed when in switched mode.
ifDefaultVlan	No	Yes	string	none	8 - Max Length	Specifies the default vlan of the port is member. of format (portname:defaultvlanid) (max= (32:4095))
ifHybridVlan	No	Yes	string	none	256 - Max Length	Specifies the list of vlans be associated with a port in hybrid state. of the format "(port name id:vlanid),(port name id:vlanid),...." Range of vlanid is 1-4095
ipAddressingMode	No	No	Enum	0	Possible values: <ul style="list-style-type: none"> 0 - IPV4_ADDR_MODE 1 - IPV6_ADDR_MODE 2 - IPV4_AND_IPV6 	Specifies the addressing mode. Can be IPv4, IPv6, or both.
ifIpAddrAssignMethod	No	Yes	Enum	0	Possible values: <ul style="list-style-type: none"> 0 - IP_ADDRESS_STATIC 1 - IP_ADDRESS_DYNAMIC 	Specifies whether IP address assignment is static or dynamic (i.e. via DHCP). If dynamic is specified, certain node-level settings (i.e. DNS servers, DNS servers, and Domain Name) will be configured such that they obtain their values through DHCP. This is achieved by setting useDynamicNetSettings true in the System Management object. In addition to this, statically configured default routes will be removed from the system. If static is specified, and no other interface is using dynamic addressing, the useDynamicNetSettings will be set to false and the node-level network attributes will be set to use the useDynamicNetSettings configured values.
ifIPv4AddressPrimary	Yes	Yes	string	none	16 - Max Length	Specifies the primary IPv4 address for the interface.
ifIPv4AddressPrimaryMask	Yes	Yes	string	none	16 - Max Length	Specifies the primary IPv4 netmask for the interface.

ifIPv4ConfigSecondaryEnabled	No	Yes	Enum	0	Possible values: <ul style="list-style-type: none"> • 0 - btFalse • 1 - btTrue 	Determines if the port has secondary IP address configuration. If this field set to Yes , a secondary address and secondary Netmask must be config
ifIPv4AddressSecondary	No	Yes	string	none	16 - Max Length	Specifies the secondary address for the interface
ifIPv4AddressSecondaryMask	No	Yes	string	none	16 - Max Length	Specifies the secondary netmask for the interface
ifIPv6AddressPrimary	Yes	Yes	string	none	45 - Max Length	Specifies the primary IPv6 address for the interface
ifIPv6AddressPrimaryPrefix	No	Yes	int	64	Possible values: <ul style="list-style-type: none"> • 1 - Minimum • 127 - Maximum 	Specifies the primary IPv6 network prefix length for interface.
ifBridgeGroupId	Yes	Yes	int	1	Possible values: <ul style="list-style-type: none"> • 0 - Minimum • 5 - Maximum 	Configures the bridge group that the Ethernet port will part of. If it's a logical interface, it must be 0. If hardware interface, the default should be 1.
ifConfiguredSpeed	No	Yes	Enum	2	Possible values: <ul style="list-style-type: none"> • 0 - IF_SPEED_10 • 1 - IF_SPEED_100 • 2 - IF_SPEED_1000 • 3 - IF_SPEED_AUTO 	Configures autonegotiation or a specific speed for the Ethernet port. The default value should be changed only when absolutely necessary. <ul style="list-style-type: none"> • When AUTO is selected <ul style="list-style-type: none"> - the speed is automatically negotiated by the Ethernet port - the negotiated speed reported under Negotiated Speed. • When AUTO is not selected <ul style="list-style-type: none"> - the Ethernet speed-auto-negotiation is disabled and the operator must configure a specific speed for Ethernet port. If the configured speed does not match the attached device, the interface becomes unreachable. The node may become unreachable on using the same interface for management.

ifConfiguredDuplexity	No	Yes	Enum	2	<p>Possible values:</p> <ul style="list-style-type: none"> • 0 - IF_DUPLEX_HALF • 1 - IF_DUPLEX_FULL • 2 - IF_DUPLEX_AUTO 	<p>Configures auto-negotiation or a specific value for the duplexity of the Ethernet port. The default value should be changed only when absolutely necessary.</p> <ul style="list-style-type: none"> • When AUTO is selected <ul style="list-style-type: none"> - the duplexity is automatically negotiated by the Ethernet port. The negotiated duplexity is reported under Negotiated Speed. • When AUTO is not selected <ul style="list-style-type: none"> - the Ethernet duplexity must be explicitly configured. If the configured duplexity does not match the attached device, the interface will become unreachable. The interface may become unreachable on using the same interface for management.
ifInterfaceIndex	Yes	No	int	0	<p>Possible values:</p> <ul style="list-style-type: none"> • 0 - Minimum • 2147483647 - Maximum 	<p>Is a positive number automatically assigned by the software and is unique among all interfaces and ports in the system. This number is typically used by the SNMP Network Management. This is a read-only attribute.</p>
ifIPv4ConfigPrimaryEnabled	No	No	Enum	1	<p>Possible values:</p> <ul style="list-style-type: none"> • 0 - IF_PRIMARY_IP_NOT_CONFIGURED • 1 - IF_PRIMARY_IP_CONFIGURED 	<p>Specifies whether the primary IP address is enabled or not.</p>
OSPFDeadInterval	No	Yes	int	40	<p>Possible values:</p> <ul style="list-style-type: none"> • 10 - Minimum • 600 - Maximum 	<p>Specifies the time interval in seconds during which no hello packets are received and after which a neighbor is declared dead.</p>
OSPFHelloInterval	No	Yes	int	10	<p>Possible values:</p> <ul style="list-style-type: none"> • 10 - Minimum • 600 - Maximum 	<p>Specifies the time interval in seconds between hello packets.</p>
OSPFPriority	No	Yes	int	1	<p>Possible values:</p> <ul style="list-style-type: none"> • 0 - Minimum • 255 - Maximum 	<p>Specifies the router priority to determine the DR (designated router) for the network.</p>

OSPF Cost	No	Yes	int	1	Possible values: <ul style="list-style-type: none"> • 1 - Minimum • 600 - Maximum 	Specifies the cost of the link-state metric in a router-LSA
OSPF Retransmit Interval	No	Yes	int	5	Possible values: <ul style="list-style-type: none"> • 5 - Minimum • 600 - Maximum 	Specifies the time in seconds between link-state advertisements (LSA) retransmissions for adjacencies belonging to interface
OSPF Resync Timeout	No	Yes	int	40	Possible values: <ul style="list-style-type: none"> • 10 - Minimum • 600 - Maximum 	Specifies the time interval in seconds after which adjacency is reset if out-of-band resynchronization has not occurred. The interval period starts from the time a reset signal is received from a neighbor.
acl In Instance ID	No	Yes	int	0		Specifies the ACL instance applied on this interface for the incoming traffic.
acl Out Instance ID	No	Yes	int	0		Specifies the ACL instance applied on this interface for the outgoing traffic.
acl Forward Instance ID	No	Yes	int	0		Specifies the ACL instance applied on this interface for the forwarding traffic.
ipv6 acl In Instance ID	No	Yes	int	0		Specifies the IPv6 ACL instance applied on this interface for the incoming traffic.
ipv6 acl Out Instance ID	No	Yes	int	0		Specifies the IPv6 ACL instance applied on this interface for the outgoing traffic.
ipv6 acl Forward Instance ID	No	Yes	int	0		Specifies the IPv6 ACL instance applied on this interface for the forwarding traffic.
ifMstpStatus	No	Yes	Enum	0	Possible values: <ul style="list-style-type: none"> • 0 - IF_NOT_REDUNDANT • 1 - IF_MSTP • 2 - IF_FAILOVER • 3 - IF_UNSPECIFIED 	Specifies the MSTP status on this interface. This field is obsolete from release 7.0 onwards and is replaced by 'ifRedundancy'.
ifRedundancy	No	Yes	Enum	3	Possible values: <ul style="list-style-type: none"> • 0 - IF_NOT_REDUNDANT • 1 - IF_MSTP • 2 - IF_FAILOVER • 3 - IF_UNSPECIFIED 	Specifies whether the interface is redundant, and so whether it uses MSTP Failover mode.

<p>gigabitTimingMode</p>	<p>No</p>	<p>No</p>	<p>Enum</p>	<p>0</p>	<p>Possible values:</p> <ul style="list-style-type: none"> • 0 - AUTO • 1 - MASTER • 2 - SLAVE 	<p>Controls gigabit timing mode on the interface. This should be left to "Auto" unless a interoperability issue requires setting the mode to either Slave or Master. This feature is only applicable if the configured port speed is either Auto or 1000 mbps.</p>
<p>DHCPsuppliedParamUsage</p>	<p>No</p>	<p>Yes</p>	<p>Enum</p>	<p>0</p>	<p>Possible values:</p> <ul style="list-style-type: none"> • 0 - USE_ALL • 1 - USE_IP_ONLY • 2 - USE_IP_DNS_ONLY 	<p>Determines how the SBC should use the parameters supplied by the DHCP server, when a logical interface is configured with Dynamic IP addressing.</p> <ul style="list-style-type: none"> • USE_ALL - all supported DHCP parameters are used by the SBC. The supplied DNS servers are used as global DNS servers replacing the ones already configured. Split-DNS settings are not affected. • USE_IP_ONLY - only the IP address and netmask are used by the SBC. DNS server and other settings are ignored. Split-DNS settings already in place are not affected. • USE_IP_DNS_ONLY - only the IP address, domain-name and DNS server IP addresses are used by the SBC. The supplied domain-name and the DNS server addresses are used depending on the value of the ConfigureSplitDNS attribute.

<p>ConfigureSplitDNS</p>	<p>No</p>	<p>Yes</p>	<p>Enum</p>	<p>0</p>	<p>Possible values:</p> <ul style="list-style-type: none"> • 0 - btFalse • 1 - btTrue 	<p>Determines whether the should create split-DNS settings automatically for the DNS and domain name parameters supplied by the DHCP server on this logical IP interface. This field is only if DHCPSuppliedParametersUsage is set to the value "USE_IP_DNS_ONLY".</p> <ul style="list-style-type: none"> • TRUE - SBC configures split-DNS settings by adding one row for each combination of the domain-name and the DNS-server, from the lists supplied by the DHCP server. When the DHCP-lease expires, the split-DNS settings are also automatically removed. • FALSE - SBC configures the IP address and netmask for the logical interface and uses the DNS server/domain-name parameters as global settings. Split-DNS settings are not automatically added when a lease is renewed. If any split-DNS settings have been added, they are removed.
<p>ifRedundantPort</p>	<p>No</p>	<p>No</p>	<p>Enum</p>	<p>0</p>	<p>Possible values:</p> <ul style="list-style-type: none"> • 0 - IF_NONE • 1 - IF_ETHERNET_1 • 2 - IF_ETHERNET_2 • 3 - IF_ETHERNET_3 • 4 - IF_ETHERNET_4 	<p>Selects which Ethernet port is the redundant port. This can only be configured when 'ifMstpStatus' is set to 'Failover'.</p>