Resource - ethernetport

About this Resource

The **Ethernet Port Table** resource controls the SBC Edge system's ethernet port configuration settings.

REST API Methods for this Resource

- GET ethernetport
- GET ethernetport id
- POST ethernetport id
- DELETE ethernetport id
- GET ethernetport historicalstatistics
- GET ethernetport historicalstatistics id

Resource Schema

Configuration

Parameter Name	Required	Service Affecting	Data Type	Default Value	Possible Values	Description
ConfigIEState	No	Yes	Enum	1	Possible values: • 0 - esDISABLED • 1 - esENABLED	Specifies the Administrat State of the resource.
ifName	Yes	No	string	none	20 - Max Length	Is the name of the port o logical IP interface. This read-only attribute.
ifAlias	No	No	string	none	20 - Max Length	Assigns an alternative na for the interface; typically configured by the SNMP-based Network Manager. This paramete unique among all the interfaces known to the SNMP Network Manage The value cannot have whitespace characters.
ifType	No	No	Enum	0	Possible values: • 0 - IF_TYPE_ETHERNET • 1 - IF_TYPE_VLAN • 2 - IF_TYPE_QINQ • 3 - IF_TYPE_BONDED • 4 - IF_TYPE_BRIDGE	Specifies the interface ty
ifDescription	No	No	string	none	64 - Max Length	Assigns an operator-frier description text configure the operator for future reference. Whitespaces alowed.
ifNetworkingMode	No	No	Enum	0	Possible values: • 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: • **0** - IF_FRAME_TYPE_ALL • **1** - IF_FRAME_TYPE_UNTAGGED • **2** - IF_FRAME_TYPE_TAGGED	Specifies the types of fra allowed when in switche mode.
ifDefaultVid	No	Yes	string	none	**8** - Max Length	Specifies the default vlar of the port is member. of format (portname:default vlanid) (max= (32:4095)
ifHybridVlan	No	Yes	string	none	**256** - Max Length	Specifies the list of vlans be associated with a por hybrid state. of the forma "(port row id:vlanid),(port id:vlanid)....." Range of v is 1-4095
ipAddressingMode	No	No	Enum	0	Possible values: • **0** - IPV4_ADDR_MODE • **1** - IPV6_ADDR_MODE • **2** - IPV4_AND_IPV6	Specifies the address m Can be IPv4, IPv6, or bo
ifIpAddrAssignMethod	No	Yes	Enum	0	Possible values: • **0** - IP_ADDRESS_STATIC • **1** - IP_ADDRESS_DYNAMIC	Specifies whether IP add assignment is static or dynamic (i.e. via DHCP). dynamic is specified, cer node-level settings (i.e. N servers, DNS servers, a Domain Name) will be configured such that the obtain their values throug DHCP. This is achieved setting useDynamicNetSettings true in the System mana object. In addition to this statically configured def routes will be removed fr the system. If static is specified, and no other interface is using dynam the useDynamicNetSetti will be set to false and th node-level network attrib will be set to use the use configured values.
ifIPv4AddressPrimary	Yes	Yes	string	none	**16** - Max Length	Specifies the primary IP address for the interface
ifIPv4AddressPrimaryMask	Yes	Yes	string	none	**16** - Max Length	Specifies the primary netmask for the interface
ifIPv4ConfigSecondaryEnabled	No	Yes	Enum	0	Possible values: • **0** - btFalse • **1** - btTrue	Determines if the port ha 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 IPv address for the interface
ifIPv6AddressPrimaryPrefix	No	Yes	int	64	Possible values: • 1 - Minimum • 127 - Maximum	Specifies the primary IPv network prefix length for interface.
ifBridgeGroupId	Yes	Yes	int	1	Possible values: • 0 - Minimum • 5 - Maximum	Configures the bridge gr that the Ethernet port wi 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: • 0 - IF_SPEED_10 • 1 - IF_SPEED_100 • 2 - IF_SPEED_1000 • 3 - IF_SPEED_AUTO	Configures autonegotiati or a specific speed for th Ethernet port. The defau value should be changed only when absolutely necessary. • When **AUTO** is sele - the speed is automatically negot by the Ethernet por the negotiated spee reported under **Neg ed Speed**. • When **AUTO** is not selected - the Ethernet speed-auto-negotia is disabled and the operator must confi a specific speed for Ethernet port.If the configured speed d not match the attach device, the interface become unreachabl The node may bec unreachable on usi the same interface f management.

					Possible values	
ifConfiguredDuplexity	No	Yes	Enum	2	Possible values: • 0 - IF_DUPLEX_HALF • 1 - IF_DUPLEX_FULL • 2 - IF_DUPLEX_AUTO	Configures auto-negotiat or a specific value for the duplexity of the Ethernet The default value should changed only when absolutely necessary. • When **AUTO** is sele - the duplexity is automatically negot by the Ethernet port The negotiated dupl is reported under **N ated Speed**. • When **AUTO** is not selected - the Ethernet-duple must be explicitly configured. If the configured duplexity does not match the attached device, the interface will becom unreachable. The n may become unreachable on usir the same interface f management.
ifIPv4ConfigPrimaryEnabled	No	No	Enum	1	Possible values: • 0 - IF_PRIMARY_IP_NOT_CONFIGURED • 1 - IF_PRIMARY_IP_CONFIGURED	Specifies whether the primary IP address is enabled or not.
OSPFDeadInterval	No	Yes	int	40	Possible values: • 10 - Minimum • 600 - Maximum	Specifies the time interva seconds during which nc hello packets are receive and after which a neighb declared dead.
OSPFHelloInterval	No	Yes	int	10	Possible values: • 10 - Minimum • 600 - Maximum	Specifies the time interva seconds between hello packets.
OSPFPriority	No	Yes	int	1	Possible values: • 0 - Minimum • 255 - Maximum	Specifies the router prior determine the DR (designated router) for th network
OSPFCost	No	Yes	int	1	Possible values: • 1 - Minimum • 600 - Maximum	Specifies the cost of the link-state metric in a router-LSA
OSPFRetransmitInterval	No	Yes	int	5	Possible values: • 5 - Minimum • 600 - Maximum	Specifies the time in sec between link-state advertisement (LSA) retransmissions for adjacencies belonging tc interface

OSPFResyncTimeout	No	Yes	int	40	Possible values: • 10 - Minimum • 600 - Maximum	Specifies the time interval seconds after which adjacency is reset if out-of-band resynchronization has n occured. The interval pe starts from the time a res signal is received from a neighbor.
aclInInstanceID	No	Yes	int	0		Specifies the ACL instan applied on this interface the incoming traffic.
aclOutInstanceID	No	Yes	int	0		Specifies the ACL instan applied on this interface the outgoing traffic.
aclForwardInstanceID	No	Yes	int	0		Specifies the ACL instan applied on this interface the forwarding traffic.
ipv6AclInInstanceID	No	Yes	int	0		Specifies the IPv6 ACL instance applied on this interface for the incoming traffic.
ipv6AclOutInstanceID	No	Yes	int	0		Specifies the IPv6 ACL instance applied on this interface for the outgoing traffic.
ipv6AclForwardInstanceID	No	Yes	int	0		Specifies the IPv6 ACL instance applied on this interface for the forwardi traffic.
ifMstpStatus	No	Yes	Enum	0	Possible values: • 0 - IF_NOT_REDUNDANT • 1 - IF_MSTP • 2 - IF_FAILOVER • 3 - IF_UNSPECIFIED	Specifies the MSTP stat on this interface. This fie obsolete from release 7. onwards and is replaced 'ifRedundancy'.
ifRedundancy	No	Yes	Enum	3	Possible values: • 0 - IF_NOT_REDUNDANT • 1 - IF_MSTP • 2 - IF_FAILOVER • 3 - IF_UNSPECIFIED	Specifies whether the interface is redundant, a so whether it uses MSTF Failover mode.
gigabitTimingMode	No	No	Enum	0	Possible values: • 0 - AUTO • 1 - MASTER • 2 - SLAVE	Controls gigabit timing m on the interface. This sh be left to "Auto" unless a interoperability issue req setting the mode to eithe Slave or Master. This fie only applicable if the configured port speed is either Auto or 1000 mbp

| DHCPSuppliedParamUsage | No | Yes | Enum | 0 | Possible values:

- 0 - USE_ALL
- 1 - USE_IP_ONLY
- 2 - USE_IP_DNS_ONLY | Determines how the SB(should use the paramete supplied by the DHCP server, when a logical interface is configured w Dynamic IP addressing.

- **USE_ALL** - all supported DHCP parameters are use the SBC. The suppl DNS servers are us as global DNS serv replacing the ones already configured. Split-DNS settings not affected.
- **USE_IP_ONLY** - or the IP address and netmask are used b SBC. DNS server a other settings are ignored. Split-DNS settings already in are not affected.
- **USE_IP_DNS_ONL** only the IP address, domain-name and E server IP addresses used by the SBC. T supplied domain-na and the DNS server addresses are used depending on the v of the **ConfigureSp NS** attribute. |

	Parameter Name					Possible Values	Description
	ConfigureSplitDNS	No	Yes	Enum	0	Possible values: • 0 - btFalse • 1 - btTrue	Determines whether the should create split-DNS settings automatically fro the DNS and domain nar parameters supplied by DHCP server on this log IP interface. This field is only if **DHCPSuppliedP Usage** is set to the value "USE_IP_DNS_ONLY". • **TRUE** - SBC config split-DNS settings b adding one row for combination of the domain-name and t DNS-server, from th lists supplied by the DHCP server. Wher DHCP-lease expires the split-DNS setting also automatically removed. • **FALSE** - SBC configures the IP address and netma for the logical interfa and uses the DNS server/domain-nam parameters as glob settings. Split-DNS settings are not automatically added when a lease is renewed. If any split-DNS settings h been added, they al removed.
	ifRedundantPort	No	No	Enum	0	Possible values: • 0 - IF_NONE • 1 - IF_ETHERNET_1 • 2 - IF_ETHERNET_2 • 3 - IF_ETHERNET_3 • 4 - IF_ETHERNET_4	Selects which Ethernet p is the redundant port. Th can only be configured w 'ifMstpStatus' is set to 'Failover'.

Runtime

Parameter Name	Description	Data Type	Possible Values
rt_ifSpeed	An estimate of the interface's current bandwidth in bits per second.	Enum	Possible values: • 0 - IF_SPEED_10 • 1 - IF_SPEED_100 • 2 - IF_SPEED_1000 • 3 - IF_SPEED_AUTO

rt_ifDuplexity	The current duplexity of the interface.	Enum	Possible values: • 0 - IF_DUPLEX_HALF • 1 - IF_DUPLEX_FULL • 2 - IF_DUPLEX_AUTO
rt_ifLastChange	The value of sysUpTime at the time the interface entered its current operational state.	long	
rt_ifHwConnectorType	The SFP type for this interface. Currently all interfaces are copper.	Enum	Possible values: • 0 - IF_HW_TYPE_COPPER • 1 - IF_HW_TYPE_SFP
rt_ifCableMediaType	The cable type for this interface. Currently all interfaces are copper.	Enum	Possible values: • 0 - IF_MED_TYPE_COPPER • 1 - IF_MED_TYPE_FIBER_SM • 2 - IF_MED_TYPE_FIBER_MM
rt_ifOperatorStatus	The operational status of the interface.	Enum	Possible values: • 0 - IF_OPER_UP • 1 - IF_OPER_DOWN
rt_ifMtu	The size of the largest packet which can be sent/received on the interface.	int	
rt_ifCounterDiscontinuityTime	The value of sysUpTime on the most recent occasion at which any one or more of this interface's counters suffered a discontinuity.	long	
rt_ifName	Is the name of the ethernet port or logical interface.	string	
rt_ifIPv4Address	The IPv4 address assigned to the interface. Only valid for interfaces with their assign method set to dynamic.	string	
rt_ifIPv4Netmask	The IPv4 netmask assigned to the interface. Only valid for interfaces with their assign method set to dynamic.	string	
rt_ifIPv6Address	The primary IPv6 address assigned to the interface.	string	
rt_ifIPv6Prefix	The primary IPv6 prefix assigned to the interface.	int	
rt_ifIPv6LinkLocalAddress	The Link Local IPv6 address assigned by the system to the interface.	string	
rt_ifIPv6LinkLocalPrefix	The Link Local IPv6 prefix assigned by the system to the interface.	int	

rt_stpBpduVersionReceived	The Spanning Tree Protocol BPDU version received on this port.	Enum	Possible values: • 0 - STP_VERSION_NONE • 1 - STP_VERSION_STP • 2 - STP_VERSION_RSTP • 3 - STP_VERSION_MSTP
rt_stpBpduVersionTransmitted	The Spanning Tree Protocol BPDU version transmitted on this port.	Enum	Possible values: • 0 - STP_VERSION_NONE • 1 - STP_VERSION_STP • 2 - STP_VERSION_RSTP • 3 - STP_VERSION_MSTP
rt_redundancyRole	When redundancy is configured for "Failover", indicates if it's role is "Primary" or "Secondary".	Enum	Possible values: • 0 - IF_PRIMARY • 1 - IF_SECONDARY
rt_redundancyState	When redundancy is configured for "Failover", indicates if it's state is "Online" or "Backup".	Enum	Possible values: • 0 - IF_ONLINE • 1 - IF_BACKUP

Statistics

Parameter Name	Description	Data Type	Possible Values
rt_ifInUcastPkts	Displays the number of received unicast packets on this port.	long	
rt_ifInBroadcastPkts	Displays the number of received broadcast packets on this port.	long	
rt_ifInMulticastPkts	Displays the number of received multicast packets on this port.	long	
rt_ifInOctets	Displays the number of received octets on this port.	long	
rt_ifInErrors	Displays the number of errors detected on this port.	long	
rt_ifInDiscards	Displays the number of discard errors detected on this port.	long	
rt_ifInUnknwnProto	Displays the number of Unknown Protocol errors detected on this port.	long	
rt_ifInUndersizedPkts	Displays the number of Undersized Packet errors detected on this port.	long	
rt_ifInOverSizedPkts	Displays the number of Oversized Packet errors detected on this port.	long	
rt_ifInFCSErrors	Displays the number of discard Frame Check Sequence errors detected on this port.	long	
rt_ifInAlignErrors	Displays the number of Align errors detected on this port.	long	
rt_ifInFragmentedPkts	Displays the number of Fragmented Packet errors detected on this port.	long	
rt_ifOutUcastPkts	Displays the number of transmitted unicast packets on this port.	long	
rt_ifOutOctets	Displays the number of transmitted octets on this port.	long	
rt_ifOutBroadcastPkts	Displays the number of transmitted broadcast packets on this port.	long	

rt_ifOutMulticastPkts	Displays the number of transmitted multicast packets on this port.	long	
rt_ifOutErrors	Displays the number of errors detected on this port.	long	
rt_ifOutDiscards	Displays the number of discard errors detected on this port.	long	
rt_ifOutLateCollissions	Displays the number of Late Collision errors detected on this port.	long	
rt_ifOutDeferredTransmissions	Displays the number of Deferred Transmission errors detected on this port.	long	