

## How to configure link-aggregation via SNMP (DES-3028/52)

The related OID located in **swL2MgmtMIB**

Following is the related OID for DES-3028/52 series

1.3.6.1.4.1.171.11.63.6.2	DES-3028
1.3.6.1.4.1.171.11.63.7.2	DES-3028P
1.3.6.1.4.1.171.11.63.8.2	DES-3052
1.3.6.1.4.1.171.11.63.9.2	DES-3052P
1.3.6.1.4.1.171.11.63.11.2	DES-3028G

Take DES-3028 for example

Create link aggregation in static mode

master port 10

member port 10-11

Algorithm MAC\_source

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.6.2.4.3.1.2.1 i 10 1.3.6.1.4.1.171.11.63.6.2.4.3.1.3.1 x  
0060000000000000 1.3.6.1.4.1.171.11.63.6.2.4.3.1.4.1 i 1 1.3.6.1.4.1.171.11.63.6.2.4.3.1.6.1 i 4  
1.3.6.1.4.1.171.11.63.6.2.4.4.0 i 2
```

```
Link Aggregation Algorithm = MAC_source  
  
Group ID      : 1  
Type          : TRUNK  
Master Port   : 10  
Member Port   : 10-11  
Active Port   :  
Status        : Disabled  
Flooding Port : 0  
  
Total Entries : 1
```

Enable Link-aggregation status

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.6.2.4.3.1.6.1 i 1
```

```
Link Aggregation Algorithm = MAC_source  
  
Group ID      : 1  
Type          : TRUNK  
Master Port   : 10  
Member Port   : 10-11  
Active Port   :  
Status        : Enabled  
Flooding Port : 0  
  
Total Entries : 1
```

Create link aggregation in LACP mode

master port 10

member port 10-11

Algorithm MAC\_source

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.6.2.4.3.1.2.1 i 10 1.3.6.1.4.1.171.11.63.6.2.4.3.1.3.1 x  
0060000000000000 1.3.6.1.4.1.171.11.63.6.2.4.3.1.4.1 i 2 1.3.6.1.4.1.171.11.63.6.2.4.3.1.6.1 i 4  
1.3.6.1.4.1.171.11.63.6.2.4.4.0 i 2
```

```
Link Aggregation Algorithm = MAC_source  
  
Group ID      : 1  
Type          : LACP  
Master Port   : 10  
Member Port   : 10-11  
Active Port   :  
Status        : Disabled  
Flooding Port : 0  
  
Total Entries : 1
```

Enable Link-aggregation status

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.63.6.2.4.3.1.6.1 i 1
```

```
Link Aggregation Algorithm = MAC_source  
  
Group ID      : 1  
Type          : LACP  
Master Port   : 10  
Member Port   : 10-11  
Active Port   :  
Status        : Enabled  
Flooding Port : 0  
  
Total Entries : 1
```

## Related OID

	<table border="1"><tr><td>Object name</td><td>swL2TrunkMgmt</td></tr><tr><td>Object ID</td><td>1.3.6.1.4.1.171.11.63.6.2.4</td></tr><tr><td>Module</td><td>DES3028-L2MGMT-MIB</td></tr><tr><td>Base syntax</td><td>Object Identifier</td></tr><tr><td>Access</td><td>Not_Accessible</td></tr><tr><td>Status</td><td>Mandatory</td></tr><tr><td>Parent node</td><td>swL2MgmtMIB</td></tr><tr><td>First child</td><td>swPortTrunkMaxEntries</td></tr></table>	Object name	swL2TrunkMgmt	Object ID	1.3.6.1.4.1.171.11.63.6.2.4	Module	DES3028-L2MGMT-MIB	Base syntax	Object Identifier	Access	Not_Accessible	Status	Mandatory	Parent node	swL2MgmtMIB	First child	swPortTrunkMaxEntries
Object name	swL2TrunkMgmt																
Object ID	1.3.6.1.4.1.171.11.63.6.2.4																
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First child	swPortTrunkMaxEntries																

<ul style="list-style-type: none"> <li>swL2TrunkMgmt</li> <li>  swPortTrunkMaxEntries</li> <li>  swPortTrunkMaxPortMembers</li> <li>  swPortTrunkTable           <ul style="list-style-type: none"> <li>  swPortTrunkEntry               <ul style="list-style-type: none"> <li>  swPortTrunkIndex</li> <li>  swPortTrunkMasterPort</li> <li>  swPortTrunkPortList</li> <li>  swPortTrunkType</li> <li>  swPortTrunkActivePort</li> <li>  swPortTrunkState</li> <li>  swPortTrunkFloodingPort</li> </ul> </li> <li>  swL2TrunkAlgorithm</li> </ul> </li> <li>  swL2TrunkLACPPortTable           <ul style="list-style-type: none"> <li>  swL2TrunkLACPPortEntry               <ul style="list-style-type: none"> <li>  swL2TrunkLACPPortIndex</li> <li>  swL2TrunkLACPPortState</li> </ul> </li> </ul> </li> <li>  swL2TrunkVLANTable           <ul style="list-style-type: none"> <li>  swL2TrunkVLANEntry               <ul style="list-style-type: none"> <li>  swL2TrunkVLANPort</li> <li>  swL2TrunkVLANState</li> </ul> </li> </ul> </li> </ul>	<table border="1"> <tr> <td>Object name</td><td>swPortTrunkMaxEntries</td></tr> <tr> <td>Object ID</td><td>1.3.6.1.4.1.171.11.63.6.2.4.1</td></tr> <tr> <td>Module</td><td>DES3028-L2MGMT-MIB</td></tr> <tr> <td>Base syntax</td><td>Integer</td></tr> <tr> <td>Composed syntax</td><td>Integer32</td></tr> <tr> <td>Access</td><td>Read-Only</td></tr> <tr> <td>Status</td><td>Current</td></tr> <tr> <td>Parent node</td><td>swL2TrunkMgmt</td></tr> <tr> <td>First child</td><td>None</td></tr> <tr> <td>Description</td><td>The max entries of the swPortTrunkTable</td></tr> </table>	Object name	swPortTrunkMaxEntries	Object ID	1.3.6.1.4.1.171.11.63.6.2.4.1	Module	DES3028-L2MGMT-MIB	Base syntax	Integer	Composed syntax	Integer32	Access	Read-Only	Status	Current	Parent node	swL2TrunkMgmt	First child	None	Description	The max entries of the swPortTrunkTable
Object name	swPortTrunkMaxEntries																				
Object ID	1.3.6.1.4.1.171.11.63.6.2.4.1																				
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Object name	swPortTrunkMaxPortMembers																				
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Object name	swPortTrunkEntry																				
Object ID	1.3.6.1.4.1.171.11.63.6.2.4.3.1																				
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Module	DES3028-L2MGMT-MIB																						
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First child	None																						
Description	The object indicates the master port number of the port trunk entry. The first port of the trunk is implicitly configured to be the master logical port. When using a Port Trunk, you can not configure the other ports of the group except the master port. Their configuration must be the same as the master port (e.g. speed, duplex, enabled/disabled, flow control, and so on).																						
<ul style="list-style-type: none"> <li>swL2TrunkMgmt</li> <li>  swPortTrunkMaxEntries</li> <li>  swPortTrunkMaxPortMembers</li> <li>  swPortTrunkTable           <ul style="list-style-type: none"> <li>  swPortTrunkEntry               <ul style="list-style-type: none"> <li>  swPortTrunkIndex</li> <li>  swPortTrunkMasterPort</li> <li>  swPortTrunkPortList                   <ul style="list-style-type: none"> <li>  swPortTrunkPortList</li> </ul> </li> <li>  swPortTrunkType</li> <li>  swPortTrunkActivePort</li> <li>  swPortTrunkState</li> <li>  swPortTrunkFloodingPort</li> </ul> </li> <li>  swL2TrunkAlgorithm</li> <li>  swL2TrunkLACPPortTable           <ul style="list-style-type: none"> <li>  swL2TrunkLACPPortEntry               <ul style="list-style-type: none"> <li>  swL2TrunkLACPPortIndex</li> <li>  swL2TrunkLACPPortState</li> </ul> </li> </ul> </li> <li>  swL2TrunkVLANTable           <ul style="list-style-type: none"> <li>  swL2TrunkVLANEntry               <ul style="list-style-type: none"> <li>  swL2TrunkVLANPort</li> <li>  swL2TrunkVLANState</li> </ul> </li> </ul> </li> </ul> </li> </ul>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Object name</td><td>swPortTrunkPortList</td></tr> <tr> <td>Object ID</td><td>1.3.6.1.4.1.171.11.63.6.2.4.3.1.3</td></tr> <tr> <td>Module</td><td>DES3028-L2MGMT-MIB</td></tr> <tr> <td>Base syntax</td><td>Octet String</td></tr> <tr> <td>Composed syntax</td><td>PortList</td></tr> <tr> <td>Access</td><td>Read-Create</td></tr> <tr> <td>Status</td><td>Current</td></tr> <tr> <td>Value list</td><td>1 : 0..127</td></tr> <tr> <td>Parent node</td><td>swPortTrunkEntry</td></tr> <tr> <td>First child</td><td>None</td></tr> <tr> <td>Description</td><td>Indicate member ports of a logical trunk.</td></tr> </table>	Object name	swPortTrunkPortList	Object ID	1.3.6.1.4.1.171.11.63.6.2.4.3.1.3	Module	DES3028-L2MGMT-MIB	Base syntax	Octet String	Composed syntax	PortList	Access	Read-Create	Status	Current	Value list	1 : 0..127	Parent node	swPortTrunkEntry	First child	None	Description	Indicate member ports of a logical trunk.
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<table border="1"> <tr><td>swL2TrunkMgmt</td><td></td></tr> <tr><td>  ↳ swPortTrunkMaxEntries</td><td></td></tr> <tr><td>  ↳ swPortTrunkMaxPortMembers</td><td></td></tr> <tr><td>  [+] swPortTrunkTable</td><td></td></tr> <tr><td>    ↳ swPortTrunkEntry</td><td></td></tr> <tr><td>      ↳ swPortTrunkIndex</td><td></td></tr> <tr><td>      ↳ swPortTrunkMasterPort</td><td></td></tr> <tr><td>      ↳ swPortTrunkPortList</td><td></td></tr> <tr><td>      ↳ swPortTrunkType</td><td></td></tr> <tr><td>      ↳ swPortTrunkActivePort</td><td></td></tr> <tr><td>      ↳ swPortTrunkState</td><td></td></tr> <tr><td>      ↳ swPortTrunkState</td><td></td></tr> <tr><td>      ↳ swPortTrunkFloodingPort</td><td></td></tr> <tr><td>  ↳ swL2TrunkAlgorithm</td><td></td></tr> <tr><td>  [+] swL2TrunkLACPPortTable</td><td></td></tr> <tr><td>    ↳ swL2TrunkLACPPortEntry</td><td></td></tr> <tr><td>      ↳ swL2TrunkLACPPortIndex</td><td></td></tr> <tr><td>      ↳ swL2TrunkLACPPortState</td><td></td></tr> <tr><td>  [+] swL2TrunkVLANTable</td><td></td></tr> <tr><td>    ↳ swL2TrunkVLANEntry</td><td></td></tr> <tr><td>      ↳ swL2TrunkVLANPort</td><td></td></tr> <tr><td>      ↳ swL2TrunkVLANState</td><td></td></tr> </table>	swL2TrunkMgmt		↳ swPortTrunkMaxEntries		↳ swPortTrunkMaxPortMembers		[+] swPortTrunkTable		↳ swPortTrunkEntry		↳ swPortTrunkIndex		↳ swPortTrunkMasterPort		↳ swPortTrunkPortList		↳ swPortTrunkType		↳ swPortTrunkActivePort		↳ swPortTrunkState		↳ swPortTrunkState		↳ swPortTrunkFloodingPort		↳ swL2TrunkAlgorithm		[+] swL2TrunkLACPPortTable		↳ swL2TrunkLACPPortEntry		↳ swL2TrunkLACPPortIndex		↳ swL2TrunkLACPPortState		[+] swL2TrunkVLANTable		↳ swL2TrunkVLANEntry		↳ swL2TrunkVLANPort		↳ swL2TrunkVLANState		<table border="1"> <tr><td>Object name</td><td>swL2TrunkAlgorithm</td></tr> <tr><td>Object ID</td><td>1.3.6.1.4.1.171.11.63.6.2.4.4</td></tr> <tr><td>Module</td><td>DES3028-L2MGMT-MIB</td></tr> <tr><td>Base syntax</td><td>Integer</td></tr> <tr><td>Composed syntax</td><td>INTEGER</td></tr> <tr><td>Access</td><td>Read-Write</td></tr> <tr><td>Status</td><td>Current</td></tr> <tr><td>Value list</td><td>1 : other(1) 2 : mac-source(2) 3 : mac-destination(3) 4 : mac-source-dest(4)</td></tr> <tr><td>Parent node</td><td>swL2TrunkMgmt</td></tr> <tr><td>First child</td><td>None</td></tr> <tr><td>Description</td><td>This object configures part of the packet to be examined by the switch when selecting the egress port for transmitting load-sharing data.</td></tr> </table>	Object name	swL2TrunkAlgorithm	Object ID	1.3.6.1.4.1.171.11.63.6.2.4.4	Module	DES3028-L2MGMT-MIB	Base syntax	Integer	Composed syntax	INTEGER	Access	Read-Write	Status	Current	Value list	1 : other(1) 2 : mac-source(2) 3 : mac-destination(3) 4 : mac-source-dest(4)	Parent node	swL2TrunkMgmt	First child	None	Description	This object configures part of the packet to be examined by the switch when selecting the egress port for transmitting load-sharing data.
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<ul style="list-style-type: none"> <li>swL2TrunkMgmt</li> <li>  swPortTrunkMaxEntries</li> <li>  swPortTrunkMaxPortMembers</li> <li>  <span style="border: 1px solid #ccc; padding: 2px;">swPortTrunkTable</span></li> <li>    <span style="border: 1px solid #ccc; padding: 2px;">swPortTrunkEntry</span></li> <li>      swPortTrunkIndex</li> <li>      swPortTrunkMasterPort</li> <li>      swPortTrunkPortList</li> <li>      swPortTrunkType</li> <li>      swPortTrunkActivePort</li> <li>      swPortTrunkState</li> <li>      swPortTrunkFloodingPort</li> <li>    swL2TrunkAlgorithm</li> <li>    <span style="border: 1px solid #ccc; padding: 2px;">swL2TrunkLACPPortTable</span></li> <li>      <span style="border: 1px solid #ccc; padding: 2px;">swL2TrunkLACPPortEntry</span></li> <li>        swL2TrunkLACPPortIndex</li> <li>        swL2TrunkLACPPortState</li> <li>    <span style="border: 1px solid #ccc; padding: 2px;">swL2TrunkVLANTable</span></li> <li>      <span style="border: 1px solid #ccc; padding: 2px;">swL2TrunkVLANEEntry</span></li> <li>        swL2TrunkVLANPort</li> <li>        swL2TrunkVLANState</li> </ul>	<p><b>Object name</b> swL2TrunkVLANEEntry  <b>Object ID</b> 1.3.6.1.4.1.171.11.63.6.2.4.6.1  <b>Module</b> DES3028-L2MGMT-MIB</p> <p><b>Base syntax</b> Sequence  <b>Access</b> Not_Accessible  <b>Status</b> Current  <b>Index</b> 1.swL2TrunkVLANPort</p> <p><b>Parent node</b> swL2TrunkVLANTable  <b>First child</b> swL2TrunkVLANPort  <b>Description</b> This object is used to configure the VLAN trunking settings for each port.</p>
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<ul style="list-style-type: none"> <li>swL2TrunkMgmt</li> <li>  swPortTrunkMaxEntries</li> <li>  swPortTrunkMaxPortMembers</li> <li>  <span style="border: 1px solid #ccc; padding: 2px;">swPortTrunkTable</span></li> <li>    <span style="border: 1px solid #ccc; padding: 2px;">swPortTrunkEntry</span></li> <li>      swPortTrunkIndex</li> <li>      swPortTrunkMasterPort</li> <li>      swPortTrunkPortList</li> <li>      swPortTrunkType</li> <li>      swPortTrunkActivePort</li> <li>      swPortTrunkState</li> <li>      swPortTrunkFloodingPort</li> <li>    swL2TrunkAlgorithm</li> <li>    <span style="border: 1px solid #ccc; padding: 2px;">swL2TrunkLACPPortTable</span></li> <li>      <span style="border: 1px solid #ccc; padding: 2px;">swL2TrunkLACPPortEntry</span></li> <li>        swL2TrunkLACPPortIndex</li> <li>        swL2TrunkLACPPortState</li> <li>    <span style="border: 1px solid #ccc; padding: 2px;">swL2TrunkVLANTable</span></li> <li>      <span style="border: 1px solid #ccc; padding: 2px;">swL2TrunkVLANEEntry</span></li> <li>        swL2TrunkVLANPort</li> <li>        swL2TrunkVLANState</li> </ul>	<p><b>Object name</b> swL2TrunkVLANPort  <b>Object ID</b> 1.3.6.1.4.1.171.11.63.6.2.4.6.1.1  <b>Module</b> DES3028-L2MGMT-MIB</p> <p><b>Base syntax</b> Integer  <b>Composed syntax</b> INTEGER  <b>Access</b> Read-Only  <b>Status</b> Current  <b>Value list</b> 1 : 0..65535</p> <p><b>Parent node</b> swL2TrunkVLANEEntry  <b>First child</b> None  <b>Description</b> This object indicates the port being configured.</p>
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<ul style="list-style-type: none"> <li>swL2TrunkMgmt</li> <li>  swPortTrunkMaxEntries</li> <li>  swPortTrunkMaxPortMembers</li> <li>  <span style="border: 1px solid #ccc; padding: 2px;">swPortTrunkTable</span></li> <li>    <span style="border: 1px solid #ccc; padding: 2px;">swPortTrunkEntry</span></li> <li>      swPortTrunkIndex</li> <li>      swPortTrunkMasterPort</li> <li>      swPortTrunkPortList</li> <li>      swPortTrunkType</li> <li>      swPortTrunkActivePort</li> <li>      swPortTrunkState</li> <li>      swPortTrunkFloodingPort</li> <li>    swL2TrunkAlgorithm</li> <li>    <span style="border: 1px solid #ccc; padding: 2px;">swL2TrunkLACPPortTable</span></li> <li>      <span style="border: 1px solid #ccc; padding: 2px;">swL2TrunkLACPPortEntry</span></li> <li>        swL2TrunkLACPPortIndex</li> <li>        swL2TrunkLACPPortState</li> <li>    <span style="border: 1px solid #ccc; padding: 2px;">swL2TrunkVLANTable</span></li> <li>      <span style="border: 1px solid #ccc; padding: 2px;">swL2TrunkVLANEEntry</span></li> <li>        swL2TrunkVLANPort</li> <li>        swL2TrunkVLANState</li> </ul>	<p><b>Object name</b> swL2TrunkVLANState  <b>Object ID</b> 1.3.6.1.4.1.171.11.63.6.2.4.6.1.2  <b>Module</b> DES3028-L2MGMT-MIB</p> <p><b>Base syntax</b> Integer  <b>Composed syntax</b> INTEGER  <b>Access</b> Read-Write  <b>Status</b> Current  <b>Value list</b> 1 : enabled(1)  2 : disabled(2)</p> <p><b>Parent node</b> swL2TrunkVLANEEntry  <b>First child</b> None  <b>Description</b> The state of the logical port LACP.</p>
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