39- L2CP Configuration Commands

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39.1 L2CP Configuration Command Tree

Description

This chapter gives an overview of nodes that are handled by "L2CP Configuration Commands".

Command Tree

```
----configure
    ----l2cp
        - [no] partition-type
        ----[no] session
             - (index)
             - bras-ip-address
             - [no] gsmp-version
             - [no] gsmp-sub-version
             - [no] encap-type
             - [no] topo-discovery
             - [no] layer2-oam
             - [no] alive-timer
             - [no] port-reprt-shaper
             - [no] aggr-reprt-shaper
             - [no] tcp-retry-time
             - [no] gsmp-retry-time
             - [no] dslam-name
             - [no] partition-id
             - [no] window-size
             - [no] tcp-port
             - [no] router-instance
             - [no] sig-partition-id
        ----[no] user-port
             - (user-port)
             - partition-id
```

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39.2 L2CP Configuration Command

Command Description

This command allows the operator to configure the L2CP parameters.

User Level

The command can be accessed by operators with transport privileges, and executed by operators with transport privileges.

Command Syntax

The command has the following syntax:

> configure 12cp [no partition-type | partition-type <L2cp::PartitionType>]

Command Parameters

Table 39.2-2 "L2CP Configuration Command" Command Parameters

Parameter	Type	Description
[no] partition-type	Parameter type: <l2cp::partitiontype></l2cp::partitiontype>	optional parameter with default
	Format:	value: "no-partition"
	(no-partition	partition type
	fixed-assigned)	
	Possible values:	
	- no-partition : no partitioning is supported	
	- fixed-assigned : partitioning is supported	

39.3 L2CP Session Configuration Command

Command Description

This command allows the operator to configure the L2CP session parameters for a given session id.

In current version, ISAM supports L2CP only on top of TCP/IP; as result of this command, ISAM shall start a TCP connection to a BRAS identified by a configured IP address. Then depending on the setting of the GSMP Retry Timer, the ISAM shall start the GSMP Adjacency Protocol to setup a L2CP session with that BRAS.

This means:

- if TCP Retry Timer is zero, ISAM shall not start the TCP connection. If TCP Retry Timer is not zero, ISAM shall start the setup of a TCP connection to a BRAS whose IP address must be configured too. In no way the ISAM accepts that a (unknown) BRAS tries to start a TCP connection
- if GSMP Retry Timer is zero, ISAM shall not start the GSMP Adjacency Protocol but instead be prepared to handle GSMP Adjacency Protocol messages from that BRAS. If GSMP Retry Timer is not zero, ISAM shall start the GSMP Adjacency Protocol in addition to being prepared to handle GSMP Adjacency Protocol messages from that BRAS

User Level

The command can be accessed by operators with transport privileges, and executed by operators with transport privileges.

Command Syntax

The command has the following syntax:

> configure l2cp (no session (index)) | (session (index) bras-ip-address <L2cp::InetAddress> [no gsmp-version | gsmp-version <L2cp::Version>] [no gsmp-sub-version | gsmp-sub-version <L2cp::SubVersion>] [no encap-type | encap-type <L2cp::EncapType>] [no topo-discovery | topo-discovery <L2cp::AccessTopologyDiscovery>] [no layer2-oam | layer2-oam <L2cp::Layer2OAM>] [no alive-timer | alive-timer <L2cp::AliveTimer>] [no port-reprt-shaper | port-reprt-shaper <L2cp::ReportShaper>] [no aggr-reprt-shaper | aggr-reprt-shaper <L2cp::AggrReportShaper>] [no tcp-retry-time | tcp-retry-time <L2cp::TcpRetryTimer>] [no gsmp-retry-time | gsmp-retry-time <L2cp::GsmpRetryTimer>] [no dslam-name | dslam-name <L2cp::DslamName>] [no partition-id | partition-id <L2cp::PartitionId2>] [no window-size | window-size <L2cp::WindowSize>] [no tcp-port | tcp-port <L2cp::InetPortNumber>] [no router-instance | router-instance <Ihub::RouterVplsMgnt>] [no l sig-partition-id])

Command Parameters

Table 39.3-1 "L2CP Session Configuration Command" Resource Parameters

Resource Identifier	Type	Description
(index)	Format:	index to the l2cp session table
	- identity of the 12cp session	
	- range: [1255]	

Table 39.3-2 "L2CP Session Configuration Command" Command Parameters

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Parameter	Type	Description
bras-ip-address	Parameter type: <l2cp::inetaddress></l2cp::inetaddress>	mandatory parameter
oras ip address	Format:	The parameter is not visible
	- IPv4-address	during modification.
	11 V F dudiess	IPv4 address used for the L2cp
		session peer
Incl comp version	Peremeter type: «L'Ony Vergion»	
[no] gsmp-version	Parameter type: <l2cp::version></l2cp::version>	optional parameter with default
	Format:	value: 3
	- version of the GSMP protocol	The parameter is not visible
	- range: [3]	during modification.
		version of gsmp protocol
[no] gsmp-sub-version	Parameter type: <l2cp::subversion></l2cp::subversion>	optional parameter with default
	Format:	value: 1
	- sub version of the GSMP protocol	The parameter is not visible
	- range: [12]	during modification.
		sub version of gsmp protocol
[no] encap-type	Parameter type: <l2cp::encaptype></l2cp::encaptype>	optional parameter with default
	Format:	value: "tcp"
	tcp	The parameter is not visible
	Possible values:	during modification.
	- tcp : tcp encapsulation type	encapsulation type
[no] topo-discovery	Parameter type: <l2cp::accesstopologydiscovery></l2cp::accesstopologydiscovery>	optional parameter with default
[no] topo discovery	Format:	value: "enabled"
	(disabled	The parameter is not visible
	enabled)	during modification.
	Possible values:	
		topology discovery capability
	- disabled : no topology discovery	
	- enabled : topology discovery	
[no] layer2-oam	Parameter type: <l2cp::layer2oam></l2cp::layer2oam>	optional parameter with default
	Format:	value: "enabled"
	(disabled	The parameter is not visible
	enabled)	during modification.
	Possible values:	layer2 OAM is supported
	- disabled : no layer2 oam	
	- enabled : layer2 oam	
[no] alive-timer	Parameter type: <l2cp::alivetimer></l2cp::alivetimer>	optional parameter with default
	Format:	value: 250
	- adjacency protocol watchdog alive time	adjacency protocol watchdog
	- unit: 100 msec	alive time.
	- range: [1255]	
[no] port-reprt-shaper	Parameter type: <l2cp::reportshaper></l2cp::reportshaper>	optional parameter with default
[no] port repre samper	Format:	value: 10
	- time between two EventReport msgs related to same port,	The parameter is not visible
	should be >= aggr-reprt-shaper	during modification.
	- unit: 100 msec	time between 2 EventReport
	- range: [1255]	msgs on the same port, should be
	- range. [1233]	
[malasan name alaman	Demonstration of Comment of Changes	>= aggr-reprt-shaper
[no] aggr-reprt-shaper	Parameter type: <l2cp::aggrreportshaper></l2cp::aggrreportshaper>	optional parameter with default
	Format:	value: 10
	- time between two EventReport msgs related to any port	The parameter is not visible
	- unit: 10 msec	during modification.
	- range: [12550]	time between 2 EventReport
		msgs on any port
[no] tcp-retry-time	Parameter type: <l2cp::tcpretrytimer></l2cp::tcpretrytimer>	optional parameter with default
·	Format:	value: 10
	- time between 2 TCP connection setup attempts.	time between 2 TCP connection
	- unit: 100 msec	setup attempts
	- range: [0255]	
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Parameter type: <l2cp::gsmpretrytimer></l2cp::gsmpretrytimer>	optional parameter with default
	opiionai parameier wiin aejauti
Format:	value: 10
- time between 2 GSMP/L2CP connection setup attempts.	time between 2 GSMP/L2CP
- unit: 100 msec	connection setup attempts
- range: [0255]	
Parameter type: <l2cp::dslamname></l2cp::dslamname>	optional parameter with default
Format:	value: "00 : 00 : 00 : 00 : 00 :
- a mac-address (example : 01:02:03:04:05:06)	00"
- length: 6	The parameter is not visible
	during modification.
	12cp name of the DSLAM
Parameter type: <l2cp::partitionid2></l2cp::partitionid2>	optional parameter with default
Format:	value: 0
	The parameter is not visible
- range: [0127]	during modification.
	identity for this session's specific
	DSLAM partition
	optional parameter with default
	value: 10
	during modification.
- range: [10]	max no.of unacknow req msgs to
	be transmitted in a window
	optional parameter with default
	value: 6068
	The parameter is not visible
- range: [065535]	during modification.
	tcp port number of the session
December 11 1 December 11 Ment	established to the peer.
	optional parameter with default value: "base"
	The parameter is not visible during modification.
	router-instance to be used to
	obtain connectivity to the peer.
	obtain connectivity to the peer.
	optional parameter
	The parameter is not visible
	during modification.
	indicates if partition ID is
	signalled
	- unit: 100 msec - range: [0255] Parameter type: <l2cp::dslamname> Format: - a mac-address (example : 01:02:03:04:05:06) - length: 6 Parameter type: <l2cp::partitionid2></l2cp::partitionid2></l2cp::dslamname>

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39.4 L2CP User Port Partition Configuration Command

Command Description

This command allows the operator to configure the partition id for the given user-port.

User Level

The command can be accessed by operators with transport privileges, and executed by operators with transport privileges.

Command Syntax

The command has the following syntax:

> configure 12cp (no user-port (user-port) partition-id <L2cp::PartitionId>) | (user-port (user-port) partition-id <L2cp::PartitionId>)

Command Parameters

Table 39.4-1 "L2CP User Port Partition Configuration Command" Resource Parameters

Resource Identifier	Туре	Description
(user-port)	Format:	interface index of the DSL port
	<eqpt::rackid> / <eqpt::shelfid> / <eqpt::slotid> /</eqpt::slotid></eqpt::shelfid></eqpt::rackid>	
	<eqpt::portid></eqpt::portid>	
	Field type <eqpt::rackid></eqpt::rackid>	
	- the rack number	
	Field type <eqpt::shelfid></eqpt::shelfid>	
	- the shelf number	
	Field type <eqpt::slotid></eqpt::slotid>	
	- the LT slot number	
	Field type <eqpt::portid></eqpt::portid>	
	- the port number	
partition-id	Parameter type: <l2cp::partitionid></l2cp::partitionid>	partition id
	Format:	
	- partition id	
	- range: [1127]	