

Configure Route for IPWorks PL Node

OPERATING INSTRUCTIONS

Copyright

© Ericsson AB 2017, 2018. All rights reserved. No part of this document may be reproduced in any form without the written permission of the copyright owner.

Disclaimer

The contents of this document are subject to revision without notice due to continued progress in methodology, design and manufacturing. Ericsson shall have no liability for any error or damage of any kind resulting from the use of this document.

Trademark List

All trademarks mentioned herein are the property of their respective owners. These are shown in the document Trademark Information.



Contents

1	Introduction	1
1.1	Prerequisites	1
2	Procedure	3
2.1	Add Route for IPWorks PL Node	3
2.2	Remove Route from PL Node	4
2.3	Remove eVIP Command from Command List	5





1 Introduction

This document describes how to add or remove route for a remote network through traffic interface (`ipw_sig_sp` and `ipw_data_sp`) in PL node. For example, if the operator wants to connect PL to a remote CUDB server (`10.0.50.30/32`), and the traffic goes through PL interface `ipw_data_sp` instead of other interfaces, the operator can add a new route in PL to achieve this functionality.

The configuration is performed by using ECLI, and it takes effect after the related PL reboot.

For more information about these traffic interfaces, refer to *IPWorks Network Connectivity Overview*.

1.1 Prerequisites

This section describes the prerequisites, which must be fulfilled before using the procedure.

1.1.1 Conditions

The following conditions must apply:

- An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.





2 Procedure

This section provides the following topics:

- Add a startup command for PL to add a new route, see Section 2.1 on page 3
- Remove a startup command to remove route from PL node, see Section 2.2 on page 4
- Remove a eVIP command from command list, see Section 2.3 on page 5

2.1 Add Route for IPWorks PL Node

To add a new route for IPWorks PL node, do the following:

This example guides the user to add a route for 10.0.50.30/32 (from remote network) to use the route interface `ipw_sig_sp` as the default route for PL-3. In this example, the startup command name is `set_new_route_ipv4`.

The configuration is different depending on whether the PL-3 is fixed PL or floating PL.

1. Log on to an SC node:

```
#ssh <UserName>@<SC IP Address>
```

2. Start an ECLI session:

```
#/opt/com/bin/cliss
```

3. Navigate to the MO *EvipCommandDefinition*:

```
>dn ManagedElement=<Node Name>,Transport=1,Evip=1,EvipDe
clarations=1,EvipCommandDefinition=1
```

4. Enter configuration mode:

```
(EvipCommandDefinition=1)>configure
```

5. Add the startup command to add a new route:

```
(config-EvipCommandDefinition=1)>EvipCommand=set_new
_route_ipv4
```

```
(config-EvipCommand=set_new_route_ipv4)>command="ip
route add 10.0.50.30/32 dev ipw_sig_sp"
```

```
(config-EvipCommand=set_new_route_ipv4)>commit
```



6. Add a command to the attribute *commandsForAllUndesignated* of the MO *EvipCluster*:

```
(EvipNode=3)>dn ManagedElement=<Node Name>,Transport=1,E
vip=1,EvipDeclarations=1,EvipCluster=1

(EvipCluster=1)>configure

(configEvipCluster=1)>commandsForAllUndesignated="4:
set_new_route_ipv4"

(config-EvipCluster=1)>commit

(EvipCluster=1)>show -v commandsForAllUndesignated

commandsForAllUndesignated
"4:set_new_route_ipv4"

(EvipCluster=1)>exit
```

7. Log on to each PL, and then reboot the them to make the change take effect:

Take PL-3 as an example:

```
#ssh pl-3

#shutdown -r now
```

2.2 Remove Route from PL Node

This example guides the user to remove the route for the PL-3 node.

1. Navigate to the MO *EvipCluster*:

```
>dn ManagedElement=<Node Name>,Transport=1,Evip=1,EvipDe
clarations=1,EvipCluster=1
```

2. Enter the configuration mode:

```
(EvipCluster=1)>configure
```

3. Remove the command (for example, "4:set_new_route_ipv4") from the attribute *commandsForAllUndesignated* of the MO.

```
(config-EvipCluster=1)>no commandsForAllUndesignated="4
:set_new_route_ipv4"

(config-EvipCluster=1)>commit

(EvipCluster=1)>show -v commandsForAllUndesignated
```




```

commandsForAllUndesignated
  "0:flush_route_cache"
  "1:flush_ipv6_default"
  "2:set_default_route_ipv4_sig"
  "3:set_local_port_range"

```

4. Log on to each PL, and then reboot them to make the change take effect.

Take PL-3 as an example:

```

#ssh pl-3

#shutdown -r now

```

2.3 Remove eVIP Command from Command List

To remove a command from command list, do the following:

Note: Make sure that the command to be removed is not used by any other PL.

1. Navigate to the MO *EvipCommandDefinition*:

```

>ManagedElement=<Node Name>,Transport=1,Evip=1,EvipDecl
arations=1,EvipCommandDefinition=1

```

2. Check the configuration:

```

(EvipCommandDefinition=1)>show

```

For example:

```

EvipCommandDefinition=1
  evipCommandDefinitionId="1"
  EvipCommand=flush_route_cache
  EvipCommand=flush_ipv6_default
  EvipCommand=set_local_port_range
  EvipCommand=set_default_route_ipv4_sig

```

3. Enter configuration mode:

```

(EvipCommandDefinition=1)>configure

```

4. Remove a startup command:

For example:

```

(config-EvipCommandDefinition=1)>no EvipCommand=set_new
_route_ipv4

(config-EvipCommandDefinition=1)>commit -s

```



```
(config-EvipCommandDefinition=1) >end
```

Note: If the command is used by EvipCluster, an error message will be prompted to indicate that the command is in use:

```
(config-EvipCommandDefinition=1) >commit
```

```
ERROR: Transaction validation failed with error  
code: ComFailure
```

```
[evipCommandId=set_new_route_ipv4,evipCommandDefi  
nitionId=1,evipDeclarationsId=1,evipId=1] Command  
definition is in use
```

To fix this problem, the operator needs to first remove the command definition from EvipCluster .

5. Exit the ECLI session:

```
(EvipCommandDefinition=1) >exit
```