

5G Capable SPGW Selection by MME

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Feature Summary and Revision History

Summary Data

Applicable Product(s) or Functional Area	MME
Applicable Platform(s)	• ASR 5500 • VPC-DI • VPC-SI
Default Setting	Enabled - Configuration Required
Related Changes in This Release	Not Applicable
Related Documentation	 Command Line Interface Reference MME Administration Guide Statistics and Counters Reference

Revision History

Revision Details	Release
First introduced.	21.12.2

Feature Description

With this release, MME is enabled to select 5G capable and co-located SPGW during initial attach, and additional PDN and SGW relocation scenarios. When multiple entries are configured, selection of a candidate is based on weight.

Configuring 5G Capable SPGW Selection by MME

This section provides information on the CLI commands to configure 5G capable SPGW selection by MME.

collocated-node, ue-usage-type in apn-profile mode

Use the following configuration to configure co-located-node/ue-usage-type for SPGW selection at MME.

NOTES:

- no: Disables the following options.
- **collocated-node** *collocated_node_name*: Configures the collocation name to select the co-located SPGW node IP addresses for MME. *collocated_node_name* must be string of size 1 to 255.
- **ue-usage-type** *ue_usage_type_value*: Configures the ue-usage for the gateway. *ue_usage_type_value* must be an integer between 1 and 255.
- weight value: Enter a weight for this address. value must be an integer from 1 and 100.

collocated-node, ue-usage-type in mme-service mode

Use the following configuration to configure collocated-node/ue-usage-type for SPGW selection at MME.

- **no**: Disables the following options.
- **collocated-node** *collocated_node_name*: Configures the collocation name to select the collocated S/PGW node IP addresses for MME. *collocated_node_name* must be a string of size 1 to 255.
- **ue-usage-type** *ue_usage_type_value*: Configures the ue-usage for the gateway. *ue_usage_type_value* must be an integer between 1 through 255.
- weight value: Enter a weight for this address.value must be an integer from 1 through 100.

collocated-node, ue-usage-type in Ite-emergency-profile mode

Use the following configuration to configure collocated-node/ue-usage-type for SPGW selection at MME.

configure

NOTES:

- no: Disables the following options.
- **collocated-node** *collocated_node_name*: Configures the collocation name to select the collocated SPGW node IP addresses for MME. *collocated_node_name* must be an alphanumeric string of 1 through 255.
- **ue-usage-type** *ue_usage_type_value*: Configures the ue-usage for the gateway. *ue_usage_type_value* must be an integer between 1 and 255.
- weight value: Specifies the weight used for pgw selection.value must be an integer from 1 and 100.

collocated-node, ue-usage-type in tai-mgmt-obj mode

Use the following configuration to configure collocated-node/ue-usage-type for SPGW selection at MME.

configure

NOTES:

- no: Disables the following options.
- attach-only: Specifies the SGW preference for SGW-relocation.
- **collocated-node** *collocated_node_name*: Configures the collocated node name to select the collocated S/PGW node IP addresses. *collocated_node_name*must be an alphanumeric string of 1 through 255.
- **ue-usage-type** *ue_usage_type_value*: Specifies the S-GW supported ue-usage-type. *ue_usage_type_value* must be an integer between 1 and 255.
- weight *value*: Specifies the protocol supported by the SGW (GTP, PMIP or both). *value* must be an integer from 1 and 100.

Monitoring and Troubleshooting

This section provides information regarding show commands available to monitor and troubleshoot the 5G Capable SPGW Selection by MME feature.

Show Commands and Outputs

show mme-service name

The output of this command includes the following fields:

- ue_usage_type
- collocated node



Important

"ue_usage_type" and "collocated_node" appears more than once based on number no of P-GW addresses configured.

show Ite-policy tai-mgmt-db name

The output of this command includes the following fields:

- · ue-usage-type
- collocated-node



Important

"ue_usage_type" and "collocated_node" appears more than once based on number no of S-GW addresses configured.

show apn-profile full name

The output of this command includes the following fields:

- ue-usage-type
- collocated-node



Important

"ue_usage_type" and "collocated_node" appears more than once based on number no of P-GW addresses configured.

show Ite-policy Ite-emergency-profile name

The output of this command includes the following fields:

- ue-usage-type
- collocated-node



Important

 $"ue_usage_type" \ and \ "collocated_node" \ appears \ more \ than \ once \ based \ on \ number \ no \ of \ P-GW \ addresses \ configured.$

Show Commands and Outputs