Node Manager Endpoint Onboarding Support

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Feature Summary and Revision History

Summary Data

Table 1: Summary Data

Applicable Product(s) or Functional Area	AMF
Applicable Platform(s)	SMI
Feature Default Setting	Enabled - Always-on
Related Documentation	Not Applicable

Revision History

Table 2: Revision History

Revision Details	Release
First introduced.	2021.04.0

Feature Description

An NGAP ID and a Serving-Temporary Mobile Subscriber Identity (S-TMSI) are assigned to a UE within AMF. Using these unique values, the UE is distinguished over the NG interface. The Node Manager (NodeMgr) pod manages these unique IDs by generating and allocating them to the UE through the request and response messages.

Feature Configuration

To configure this feature, use the following configuration:

```
config
    instance instance-id instance-id
      endpoint { bgpspeaker | geo | gtp | li | ngap | nodemgr | protocol
 | sbi | sctp | service }
        instancetype { Dual | IPv4 | IPv6 }
        interface { bfd | bgp | geo-external | geo-internal | nrf }
        internal base-port start port_number
        loopbackEth host_address_port_number
        loopbackPort port_number
        nodes number_of_nodes
        range { vip-ipv6 ipv6_address | offline offline| vip-ipv6-port
ipv6_address }
        replicas number_of_nodes
        system-health-level { crash | critical | warn }
        uri-scheme { http | https }
        vip-ip ipv4_address
        vip-ipv6 ipv6_address
        end
```

NOTES:

- **instance instance-id** *instance-id*—Specify the endpoint instance ID.
- **endpoint { bgpspeaker | geo | gtp | li | ngap | nodemgr | protocol | sbi | sctp | service }**—Specify the endpoint that must be configured. For configuring NodeMgr, use **nodemgr**.
- **instancetype { Dual | IPv4 | IPv6 }**—Specify the endpoint's local interface type.
- **interface { bfd | bgp | geo-external | geo-internal | nrf }**—Specify the endpoint interfaces.
- **internal base-port start** *port_number*—Specify the internal base-port to start the endpoint.
- **loopbackEth** *host_address_port_number*—Specify the local interface name or host IP address of the endpoint.
- **loopbackPort** *port_number*—Specify the endpoint local port.
- **nodes** *number_of_nodes*—Specify the number of nodes replicas that must be configured for resiliency.
- **range { vip-ipv6** *ipv6_address* **| offline** *offline* **| vip-ipv6-port** *ipv6_address* **}**—Specify the range of the NodeMgr endpoint.
- **replicas** *number_of_nodes*—Specify the number of replica nodes that must be created for the endpoint.
- **system-health-level { crash | critical | warn }** —Specify the message to indicate the health of the system.
- **uri-scheme { http | https }** —Specify the URI scheme as HTTP or HTTPs.
- **vip-ip** *ipv4_address*—Specify the IPv4 address for the endpoint.
- **vip-ipv6** *ipv6_address*—Specify the IPv6 address for the endpoint.