**IOS MCN v0.1.0 Agartala Release**

**User Guide: SD-Core v0.1**

1. Introduction

The guide describes to use the management and monitoring of SD-core platform, run the emulated UE provided with the core and connect UEs to core. Bandwidth between UEs can be tested for evaluating the performance of core.

1. Purpose and Audience

This document is to access the SD-Core management interface, connect simulated gNB and provision subscribers

1. IOS MCN Test Information

This SD-Core is tested with 4 core CPU and 16GM RAM systems with Ubuntu 22.04 operating systems running on intel 64-bit platform.

1. Supported Features

The core supports the management interface to access the system. It allows to connect emulated RAN, provisioning of subscribers from simulator or real UEs.

1. Supported Hardware

Intel IA64 platforms with minimum of 4 core CPU and 16GB RAM

1. How to use the features
   1. Feature 1: Access management interface
      1. Configuration/Setup: Identify the IP address on the SD-core installed machine. Also install any browser for accessing the management interface URL.
      2. How to test: Open the browser and navigate to http://<server\_ip>:31194 and http://<server\_ip>:30950
   2. Feature 2: Run emulated RAN test
      1. Configuration/Setup: The SD-Core software includes emulated RAN for testing.
      2. How to test: Run the RAN using the command ‘make aether-gnbsim-run’. It will be attached to SD-Core
   3. Feature 3: Provisioning subscribers
      1. Configuration/Setup: This requires the modification of a yaml configuration file. Update ‘subscribers’ block in the ‘sdcore-5g-values.yaml’ for IMSI, OPc, and Key values of SIM cards
      2. How to test: Connect UE with the provisioned SIM and observe the device is connected with the SD-Core. Verify the upload and download speed using test application.
2. How to use connect the supported hardware
   1. Device 1: UE 1
      1. Configuration/Setup: Identify the IMSI, OPc and key value of SIM to be connected with SD-Core. Then update ‘subscribers’ in SD-Core provision module.
      2. How to test: Insert SIM on UE and turn ON/flight mode OFF. Observe the connection to the SD-Core network
   2. Device UE 2:
      1. Configuration/Setup: Flash SIM with IMSI, OPc and key value on the SIM and update the subscriber information on core.
      2. How to test: Insert SIM on UE and turn ON/flight mode OFF. Observe the connection to the SD-Core network. Check the bandwidth of connectivity.
3. Related Artifacts & links

Give all related documents list and links (table is ok)

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| **Document Name** | **Purpose** | **Link** |
| Installation Guide | Installation of SD-Core |  |
| Troubleshooting Guide | Troubleshooting guide for SD-Core |  |
| User Guide | Quick start guide |  |
| Developer Guide | Guide for SD-Core devlepers |  |
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