SINGGIH KUNTO HADI WIBOWO

Name	Singgih Kunto Hadi Wibowo
Education	Bachelor of Computer Engineering
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SUMMARY OF TECHNICAL EXPERTISE

Possess 14 years of solid mid-career experience in Packet Core, Deep Packet Inspection (DPI), and Policy & Charging Control.

- Focusing on configuration, troubleshooting, analyze of Deep Packet Inspection, L3/4 and L7.
- Analyze the requirement on design document as provided by customer.
- Build the script for implementation and apply it in test environment EPG.
- Assisting acceptance test & troubleshoot configuration problem found during testing.
- Rollout in production once acceptance test is completed and successful.

Experienced on **multi** vendor **of Packet Core**:

- Ericsson   : SGSN /MME , DNS IPWorks, SmartEdge 1200, SSR 8010, MME, EPGv1, EPGv2
- Cisco   : GGSN, SGSN/MME, Prime Performance Manager, ASR 5000, ASR 9010
- Huawei   : HSS9860, UPCC (PCRF), UGW9811 / GGSN, DPI (Signature)
- F5   : BIG-IP GiDNS, BIG-IQ CM

Projects Experience and Accomplishments

1. **Mobily Etihad Etisalat,Ericsson Saudi**   **17 Sep 2018 – 31 march 2021**
   - Perform ATP, System and Functional of the new (EPG & MME, DCGW Router, DNS IPWorks) node
   - Validate HLD & LLD of the new (EPG & MME, DCGW Router, DNS IPWorks)

2. **Packet System Indonesia, Indonesia**   **25 Apr 2016 – 30 Aug 2018**
   - Completed 4 SGSNs / MMEs pool implementation & integration : Gb interface (between Cisco SGSN & Huawei/Ericsson BSC). IuPS interface (between Cisco SGSN & Huawei/Ericsson RNC). S1-MME Interface (between Cisco MME & Huawei/Ericsson Enode B) in West Java, Jabodetabek areas.
   - Completed 9 GGSNs / S-PGWs expansion :
     To lead & supervise site survey, provide HLD and support data for LLD. Integration of Gx interface (between Cisco GGSN & Huawei UPCC), Gy interface (between Cisco GGSN & Amdocs OCS)
   - Completed subscriber traffic migration on Cisco GGSN/P-GW from Ericsson SAPC to Huawei UPCC.

S I N G G I H K U N T O
Singgih.kunto@gmail.com
+62 81380643939   Page 1 of 4

- ## PROFESSINAL EXPERIENCE

Technical Authority Expert, *Ericsson Malaysia*   **Working Remote, 1 Apr 2021 - 30 June 2025**

   1. Malaysia - Maxis Telecom (working remote)   1 Apr **20**21 - 30 June 2025
       - Work with customer for 2nd level of DPI configuration in GGSN/PGW (PISC & SACC)
       - Perform complex tracing & analysis of Gx Gy control plane trace, Gi traffic.
       - Troubleshooting and resolve customer issues.
       - Performs fortnightly meeting to discuss ongoing issue and upcoming request

   2. Malaysia - Digital National Berhad (working remote)   13 Jul 2022 - 30 June 2025
       Provide 2nd line support of F5 GiDNS : Daily health check, perform license renewal, perform remediation for potential issue as provided in quarterly VA Scan report

   3. Australia - 5G Optus (working remote)   13 Jul 2022 - 17 Nov 2022
       As assurance Service Engineer, checking PCC and PCG to make sure no missing business configuration

BO PS Core Engineer, *Ericsson Saudi Arabia*   **17 Sep 2018 – 31 march 2021**

As BO Packet Core Engineer working in customer (Mobily Etisalat) network
- Provide 2nd line support for operation & maintenance, preventive & corrective action of PS Core Nodes (SGSN/MME, EPG/GGSN, IPWorks DNS, router)
- Performs configuration changes on DPI (PISC and SACC) in EPG/GGSN
- Perform SGSN/MME, GGSN/EPG software patching & upgrade, and post-test verification. ATP for new vEPG, vMME
- Perform complex tracing & analysis of Gx, Gy, S6a, Gi traffic.
- Troubleshooting and resolve customer issues.
- Support 24*7 on-call rotation.
- Assist in KPI analysis, reporting.

BO PS Core Engineer, *Packet System Indonesia*   **Indonesia, Apr 2016 – Aug 2018**

- As Back Office Packet Core Engineer working in customer (XL Axiata) netwok
- Provides 2nd line support for operation & maintenance, preventive & corrective action of PS Core Nodes (Cisco SGSN/MME, Cisco GGSN, router)
- Configure PCC/ ECS (Enhanced Charging Service) on GGSN as per business requirement from customer
- Perform Regression test pre & post of SGSN & GGSN software patching.
- Perform GGSN/S-PGW and SGSN/MME multivendor verification.
- Perform SGSN & GGSN software patching & upgrade
- Create proper technical documentation for new implementation of GGSN & SGSN.
- Create MOP on each of SGSN & GGSN activities

BO PS Core Engineer, Internux Bolt 4G - Lippo Subsidiary   **Indonesia, Feb 2013 – Apr 2016**

Platform : Huawei EPC – MME (USN9810), GGSN (UGW 9811), SingleSDB (HSS, PCRF)

- PCC (policy charging control) project delivery from conceptual to design, implementation and testing to ready for acceptance using (PCRF, P-GW/GGSN) as per business requirement on testbed & live system : Volume-Based-Charging, Time-Based-Service, Location-Based-Service, Social Media Product using DPI signature, Tariff per KB, header-enrichment activation.
- Create proper documentation for PCC (PCRF & PCEF) service design.
- Upgrade & Patch, capacity expand SingleSDB (PCRF & HSS)
- Upgrade Service-Awareness / DPI library
- Provide MOPs : to provisioning subscribers on HSS, to add multi HPLMN, TAC, NAPTR DNS on MME

PCRF Engineer, Sitra Wimax – Lippo Subsidiary   **Indonesia, Jul 2012 – Feb 2013**

Platform : Elitecore AAA, PCRF, Cisco SCE

- PCC (policy charging control) project delivery from conceptual to design, implementation and testing to ready for acceptance using EliteCore AAA, PCRF
- Create proper documentation on PCRF service design
- 2nd level operation & troubleshooting AAA, PCRF related issue in timely manner

PCRF Engineer, Lokatara Abhinaya   **Indonesia, Jul 2011 – Mei 2012**

Platform : Ericsson SmartEdge 1200, Ericsson NetOP Policy Manager

Working in Customer (PT Telekomunikasi Indonesia) to plans and performs technical activities independently directly or through customer interface to support their FixLine Broadband (Telkom Speedy) projects

- PCC (policy charging control) project delivery from conceptual to design, implementation and testing to ready for acceptance using Ericsson NetOP Policy Manager
- 2nd level operation & troubleshooting on Ericsson BRAS (SmartEdge 1200), NetOP Policy Manager, NetOP Element system on live network

VAS Engineer, Graha Informatika Nusantara   **Indonesia, Sep 2007 – Apr 2009**

Platform : Eserv – Recharging, Voice Mail

Working in Customer Operation Business Unit for Telkomsel Indonesia to support their Recharging & Voice Mail project to provide VAS delivery services

- Plans and perform technical activities to service the customer independently directly or through customer interface.
- Manage prepaid recharging system which consist of : Voucher Management System, Recharge Gateway, and IVR
- Manage MSD (Message and Subscriber Data Store server)
- Administration with OS UNIX SUN Solaris 8 running on Sun Netra 240, Netra 450

PROFESSIONAL CERTIFICATION

- Ericsson Certified Associate Evolved Packet Core   **10 Feb 2020**

PROFESSIONAL TRAINING

ERICSSON
- PCG 1 Operation and Configuration   **Ericsson Academy, 17-Aug-2023**
- PCC 1 (Gateway Controller) Operation and Configuration   **Ericsson Academy, 29-Nov-2022**
- Ericsson Packet Core vEPC   **Riyadh, Saudi Arabia 2020**

HUAWEI
- Huawei - 4G/LTE EPC Training   **Jakarta, 5 Jun 2013 – 5 Jul 2013**
  - ✓ EPC Interface Protocol & Signaling Analysis
  - ✓ MME Platform Operation and Maintenance & Data Configuration (4G)
  - ✓ UGW (SGW/PGW) Operation and Maintenance & Data Configuration (4G)
  - ✓ HSS Operation and Maintenance & Data Configuration
  - ✓ UPCC Platform Operation and Maintenance & Data Configuration (4G)

CISCO
- Cisco Data Centre Unified Computing Design & Implementation   **Jakarta, 20 – 24 Mar 2017**
- Cisco Service Provider Mobility   **Jakarta, Aug 2016**
  - ✓ 3GPP reference architecture and protocol stack
  - ✓ SGSN / MME overview and configuration
- CCNP, ID-Networkers   **Jakarta, 20-Nov-2014**
- CCNA, ID-Networkers   **Jakarta, 20-Sep-2014**

CONTAINERIZATION
- OpenShift for the Absolute Beginners (Hands-on)   **Udemy, 6-Dec-2022**
- Docker for the Absolute Beginner (Hands On)   **Udemy, 23-Nov-2022**
- Kubernetes for the Absolute Beginner (Hands-on)   **Udemy, 22-Nov-2022**