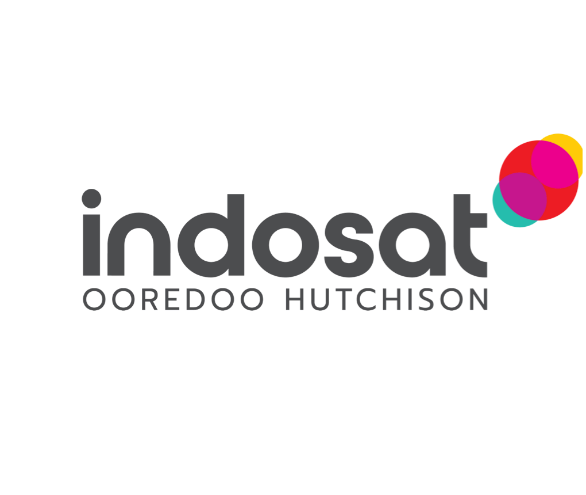
**IOH SPECIFIC MOP**

**«titlemop»**



****

|  |  |  |  |
| --- | --- | --- | --- |
| Prepared by: | AKTORTIFAN RIDNO PRABU PRATAMA (AWX1014609) | Date: | «predate» |
| Reviewed by: | Aris (AWX544314) | Date: | «predate» |
| Approved by: | Goh Kok King  (G00493149) | Date: | «predate» |

This document is exclusively property of HUAWEI Technologies. Co., Ltd. and shall not be used copied or communicated to the third party without its prior authorization.

Contents

[1 Description of Change 3](#_Toc334089293)

[1.1 Description of Site 3](#_Toc334089294)

[1.2 Purpose 3](#_Toc334089295)

[1.3 Description of Change and Change Influence 3](#_Toc334089296)

[2 Preparations for Change 4](#_Toc334089297)

[2.1 Change Period 4](#_Toc334089298)

[2.2 Composition of Change Team and Responsibility of Team Members 4](#_Toc334089299)

[2.2.1 Change Team of XX Company 4](#_Toc334089300)

[2.2.2 Huawei On-site Change Team 5](#_Toc334089301)

[2.2.3 Huawei Support & Guarantee Team 5](#_Toc334089302)

[2.3 Check of Equipment Running 5](#_Toc334089303)

[2.4 Change Risks and Countermeasures 6](#_Toc334089304)

[2.5 Check Before Change 7](#_Toc334089305)

[3 Operation Steps for Change 8](#_Toc334089306)

[3.1 Change Steps 8](#_Toc334089307)

[3.1.1 Overall Description 8](#_Toc334089308)

[3.1.2 Operation Steps for Change 8](#_Toc334089309)

[3.2 Test and Verification 9](#_Toc334089310)

[3.3 Solution for Changeback In the Case of Failure 9](#_Toc334089311)

[3.3.1 Definition of Change Failure 9](#_Toc334089312)

[3.3.2 Overall Description of Changeback 10](#_Toc334089313)

[3.3.3 Information Collection Before Changeback 10](#_Toc334089314)

[3.3.4 Changeback Steps 10](#_Toc334089315)

[3.3.5 Equipment Status Check 10](#_Toc334089316)

[3.3.6 Tests After Changeback 11](#_Toc334089317)

[3.3.7 Changeback Risk Analysis 11](#_Toc334089318)

[3.4 Change of Spare Parts and Emergency Workstation 11](#_Toc334089319)

[4 Work After Change 11](#_Toc334089320)

[4.1 Observation 11](#_Toc334089321)

[4.2 Provision of Materials 11](#_Toc334089322)

[4.3 Provision of Software 12](#_Toc334089323)

[4.4 Training 12](#_Toc334089324)

[4.5 Matters Needing Attention 12](#_Toc334089325)

# Description of Change

## Description of Site

Some sites need to be cutover to new MW Link, the detail of cutover plan is set of as table below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **REGION** | **PHASE** | **SITE ID WL** | **LINK ID** | **UPDATE IDU PORT** |
| Jabodetabek | Rebalance mw parallel link | 280801 | 280055\_280002MU1 | 280002/IDU 5 /7-EM6F/GE Port 1 & 2 |
| Jabodetabek | Rebalance mw parallel link | 280055 | 280055\_280002MU1 | 280002/IDU 5 /7-EM6F/GE Port 1 & 2 |

## Purpose and Requirements

In order to balancing traffic and reroute activity for change FE and We need to cut over **2** site(s) as per new Plan.

## Description of Change and Change Influence Preparations for Change

# Preparations for Change

## 

## Change Period

The change period is from **«date»** To **«date»**, **«time»,**

## Composition of Change Team and Responsibility of Team Members

### **Change Team of Company**

|  |  |  |
| --- | --- | --- |
| **Name** | **Responsibility** | **Telephone No.** |
| Amir Fattah | Chief Commander | 08990033305 |

### **Huawei On-site Change Team**

|  |  |  |
| --- | --- | --- |
| **Name** | **Responsibility** | **Telephone No.** |
| Medya | Wireless Engineer | 089603001586 |
| Bernard | Wireless Engineer | 089503042732 |

### **Huawei Support & Guarantee Team**

|  |  |  |
| --- | --- | --- |
| Name | Responsibility | Telephone No. |
| Luoyingzhan | Supporting overall coordination as the technical expert | 089603013737 |
| Shoim | Product support contact person | 089603009391 |
|  |  |  |

## Check of Equipment Running

1). Existing site currently running in service condition and KPI is normal.

2). Backup Existing Data Configuration, CFGMML, CFGBCP, and Alarm is normal.

## Change Risks and Countermeasures

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Risk Description** | **Possibility** | **Impact** | **Countermeasure** |
| 1 | BCP and NE Backup Issue | Middle | Middle | BCP Backup and NE Backup before change |
| 2 | Transmission Link Failure | Middle | Middle | Transmission equipment check in advance |
| 3 | Long time change operation (downtime) | Middle | High | Transmission link must be stable as well as BTS script correctness. |
| 4 | Remote Connection Abnormal | High | High | If remote connection not restored in 2 hour, contact NOC RAN to continue rehoming.  If NOC also abnormal, notice customer troubleshooting |
| 5 | Hardware Abnormal / Fault | Middle | High | Spare part shall be prepared for replacement  Contact GTAC Hotline if cannot be solved |

## Check Before Change

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Preparations Before Change** | **Owner** | **Completion Date** |
| 1 | Solution for change back in the case of failure | Medya |  |
| 2 | Test solution | Medya |  |
| 3 | Confirming change risks and emergency measures | Sediaman |  |
| 4 | Readiness of mobile phone test card | Sediaman |  |
| 5 | Readiness of change test personnel | Sediaman |  |
| 6 | Readiness of relevant equipment maintenance personnel | Medya |  |
| 7 | Readiness of support & guarantee team | Medya |  |
| 8 | Readiness of remote log-in environment | MS |  |
| 9 | Readiness of BSC-RNC | Shoim |  |

# Operation Steps for Change

## Change Steps

### Overall Description

Site list: please refer to 1.1.We do cut over due to change FE

### **Operation Steps for Change**

Cutover plan:

# Make CR to MS Huawei and get approval from HCPT.

1. 13:00 – 13:10 Call NOC and BSS engineer to check last status of site

# 13:10 – 13:20 Capture all configuration before activity.

# 13:20 – 14:00 Download script in MBTS side

# 14:00 – 14:45 run script in BSC/RNC Target

# 14:45 – 14:55 Make sure NodeB up and cell setup

# 14:55 – 15:00 Call NOC to Check the current status the sites.

# In above step, if problem, execute the roll back plan.

## Test and Verification

1. Equipment Running Status
2. Basic services
3. Alarm of eNodeB & NodeB
4. Monitoring KPI

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Operation Item** | **Operation Method** | **Owner** | **Time** |
| 1 | Hardware | VSWR and RTWP check |  |  |
| 2 | Configuration | LST VER :;  DSP APP:;  DSP CELL:;  DSP LICENSE:;  DSP S1INTERFACE:;  DSP GLOCELL:;  DSP GTRX:;  LST ULOCELL:;  DSP LICINFO:; |  |  |
| 3 | Service | Conduct GSM, UMTS, and LTE service on site |  |  |

## Solution for Changeback In the Case of Failure

### Definition of Change Failure

A change failure shall be recognized if the following major problems cannot be resolved before 01:00 a.m. (within the stipulated period of time) and back-off operations shall be finished.

(1) Have additional alarm after

(2) Hardware failures

(3) Frequent breakdown

(4) Main KPI degrade very badly

### Overall Description of Changeback

In case failure occurs, changeback will be conducted as existing configuration

### Information Collection Before Changeback

* NE backup

### Change back Steps

If cutover activation is not succeed, we will rollback to last config:

1. 15:00 Check, alarm status.

15:10 Call NOC to check last status of MBTS

15:20 Call NOC Huawei and BSS engineer inform rollback action.

1. 15:30 Change config to last configuration.
2. 15:50 Call NOC to Check the current status of 3G as impacted sites.
3. This activity will take time 0,5-1 hours.

### Equipment Status Check

# DSP UNODEB / DSP UCELL to confirm 3G NodeB has been changeback successfully.

# Monitor channel status / DSP GCELL to confirm 2G BTS has been changeback successfully.

# DSP S1 to make sure 4G service has been changeback successfully

### Tests After Changeback

# Users can normally make or receive calls.

# Data access normal.

### Changeback Risk Analysis

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Risk Description** | **Possibility** | **Impact** | **Countermeasure** |
| 1 | Script Failure/Error Issue | Middle | High | Backup all BCP on CME to remake script if any fail, if still failure contact GTAC Hotline |
| 2 | Transmission Link Failure | Middle | High | Need transmission engineer standby for precaution. Contact GTAC Hotline in case any high impact configuration fail |
| 3 | Long time change operation (downtime) | Middle | High | Transmission link must be stable as well as BTS script correctness.  After 05:00 still down contact GTAC Hotline |
| 4 | Remote Connection Abnormal | High | High | If remote connection not restored in 1 hour, contact NOC RAN to continue rehoming.  If NOC also abnormal, notice customer troubleshooting |
| 5 | Hardware Abnormal / Fault | Middle | High | Spare part shall be prepared for replacement  Contact GTAC Hotline if cannot be solved |

## Change of Spare Parts and Emergency Workstation

The change of spare parts and emergency workstation shall be finished within one week after successful change.

## Work After Change

## Observation

After Activity done, there will have a monitoring stage to ensure each services is running normal, no alarm appear and no cross feeder.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Main Task | Operation Method | Expected Result | Responsibility | Time |
| 1 | Alarm and Hardware status check | * Query & Monitoring by Using U2000 | No new alarm , If there have new alarm it should not affect service | Medya and CSC Team (089603001586)  Deka ( (08988142402) | 10:00 – 17:00 |
| 2 | KPI monitoring after activity   * Availability (Cell) * cell average user, Cell DL throughput, Cell UL throughput | * Query & Monitoring by Using U2000 * Query by using WebLMT, FMA * Reports routine KPI | KPI Should be maintained without significant degradation | Vincent ( 085711882405)  Wahyu (089603009406) | 10:00,  13:00  17:00, |

## Provision of Materials

*NA*

## Provision of Software

*NA*

## Training

*NA*

## Matters Needing Attention

*None*

Script :