

*Service Management Delivery Services*

**Motorola**

**ZTE Link Broken Policy**

**Test Plan**

**Prepared for:**

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**V1.01**

**Final**

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Version History

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# Introduction

## Document Objective

This Test Plan intends to describe the test requirements for Mobilink ZTE Link Broken Event Handling

## Assumptions

All test Events provided by Client

# Test Events

## Test Event overview

### Initial Testing

Test events should be delivered in the form of a Probe Event Raw Capture

All Problem Events will have

Summary : ‘The link between the Server and the NE Agent is broken ‘

ExtendedAttr = AMOID extracted from token ‘AI\_VS\_OTHER\_TOPOLOGICAL\_ID’

SiteCode = BSC Code extracted from ‘AMOID’

SourceNode = BSC Location extracted from ‘AMOID’

EventId = ‘NET\_ZTE\_LINKBROKEN\_001’

Problem Event 1 will have am AMOID of ‘PSH639Z\_\_MGWPSH\_2\_OMCB’

Problem Event 2 will have am AMOID of ‘PSH639Z\_\_MGWPSH\_2’

Problem Event 3 will have am AMOID of ‘PSH639Y\_\_MGWPSH\_2\_OMCB’

Problem Event 3 will have am AMOID of ‘PSH639Y\_\_MGWPSI\_2\_OMCB’

Stdio Probe will be configured with the same rules as the ZTE Corba Probe

### Testing using Real Events

For this The client will cause an event to be generated by the EMS and then after checks Clear the event

# Initial Policy Testing

## Check insertion of event and generation of Synthetic Event

### Insert Problem 1 Event

Cat problem1.txt | nco\_p\_stdio

Check this event is properly formed

After a short while check that Impact Flag = 5 indicating that the event has been processed by maintenance and enrichment Policies and is being processed by ML\_ZTE\_LinkBroken Policy

### Synthetic Event Generation

Check that after the Hibernation period a synthetic event is generated and properly formed

Summary: 1 of MGWPSH in disconnected state from EMS”

AlertGroup: ‘ZTE Link Broken’

AlertKey: @BSC\_Name

Severity: Major

Type: Problem

FirstOccurrence : Current Time

LastOccurrence : CurrentTime

LogTicket: 1

ImpactFlag: 2

EventId: ‘SYN\_ZTE\_LINKBROKEN\_001’

OwnerUID: 65534

Agent: ‘Netcool Impact’

SourceNode: BSC Location

### Update of Network Event

Check that the Following fields have been updated

SyntheticServerName: Value of ServerName from Synthetic Event

SyntheticServerSerial: Value of Serial from Synthetic Event

ImpactFlag: 6

### Clear Network Event

Cat resolution1.txt | nco\_p\_stdio

Check that the Network Event is Cleared?

Check that the Network Event has the following fields correctly set

Severity = 0

Cleartime

ExpireId

Check that he Synthetic Event is cleared

Check that the Synthetic Event has the following fields correctly set

Severity = 0

Cleartime

ExpireId

# Multiple events from same BSC location

## Check insertion of event and generation of Synthetic Event

### Insert Problem 1 Event

Cat problem1.txt | nco\_p\_stdio

Check this event is properly formed

After a short while check that Impact Flag = 5 indicating that the event has been processed by maintenance and enrichment Policies and is being processed by ML\_ZTE\_LinkBroken Policy

### Synthetic Event Generation

Check that after the Hibernation period a synthetic event is generated and properly formed

Summary: 1 of MGWPSH in disconnected state from EMS”

### Insert Problem 2 Event

Cat problem1.txt | nco\_p\_stdio

Check this event is properly formed

After a short while check that Impact Flag = 5 indicating that the event has been processed by maintenance and enrichment Policies and is being processed by ML\_ZTE\_LinkBroken Policy

### Synthetic Event Generation

Check that the synthetic event is updated

Summary: 2 of MGWPSH in disconnected state from EMS”

### Clear Problem1 Event

Cat resolution1.txt | nco\_p\_stdio

Check that the Network Event is Cleared?

Check that the Network Event has the following fields correctly set

Severity = 0

Cleartime

ExpireId

Check that he Synthetic Event is not cleared

Check that the Synthetic Event has the following fields correctly set

Summary: 1 of MGWPSH in disconnected state from EMS”

### Clear Problem2 Event

Cat resolution2.txt | nco\_p\_stdio

Check that the Network Event is Cleared?

Check that the Network Event has the following fields correctly set

Severity = 0

Cleartime

ExpireId

### Synthetic Event Cleared

Check that he Synthetic Event has cleared

Check that the Synthetic Event has the following fields correctly set

Summary: No BSC of MGWPSH in disconnected state from EMS”

# Multiple events from different BSC location

## Check insertion of event and generation of Synthetic Event

### Insert Problem 1 Event

Cat problem1.txt | nco\_p\_stdio

Check this event is properly formed

After a short while check that Impact Flag = 5 indicating that the event has been processed by maintenance and enrichment Policies and is being processed by ML\_ZTE\_LinkBroken Policy

### Synthetic Event Generation

Check that after the Hibernation period a synthetic event is generated and properly formed

Summary: 1 of MGWPSH in disconnected state from EMS”

### Insert Problem 3 Event

Cat problem4.txt | nco\_p\_stdio

Check this event is properly formed

After a short while check that Impact Flag = 5 indicating that the event has been processed by maintenance and enrichment Policies and is being processed by ML\_ZTE\_LinkBroken Policy

### Synthetic Event Generation

Check that after the Hibernation period an additional synthetic event is generated and properly formed

Summary: 1 of MGWPSI in disconnected state from EMS”

### Clear Problem1 Event

Cat resolution1.txt | nco\_p\_stdio

Check that the Network Event is Cleared?

### Synthetic Event (1) Cleared

Check that the associated Synthetic Event has cleared

Check that the Synthetic Event has the following fields correctly set

Summary: No BSC of MGWPSH in disconnected state from EMS”

### Synthetic Event (2) not cleared

Check that the associated Synthetic Event with problem 2 has not cleared

### Clear Problem4 Event

Cat resolution4.txt | nco\_p\_stdio

Check that the Network Event is cleared?

### Synthetic Event (2) Cleared

Check that the associated Synthetic Event has cleared

Check that the Synthetic Event has the following fields correctly set

Summary: No BSC of MGWPSi in disconnected state from EMS”

# Check Hibernation Periods

## Check that there are no Zero Call Synthetic Events

Using nco\_sql run the following statement to check that there is no Zero Call Synthetic Event

*Select Count (\*) from alerts.status where EventId = ‘SYN\_ZTE\_LINKBROKEN\_001’*

## Insert Problem 1 Event

Cat problem1.txt | nco\_p\_stdio

Check this event is properly formed

After a short while check that Impact Flag = 5 indicating that the event has been processed by maintenance and enrichment Policies and is being processed by ML\_ZTE\_LinkBroken Policy and that Hibernate Flag = 1 (In Hibernation)

Using nco\_sql run the following statement to check that there are no ‘Zero Call’ Synthetic Events

*Select Count (\*) from alerts.status where EventId = ‘SYN\_ZTE\_LINKBROKEN\_001’*

Check the policy log time to show that the Hibernate Period is 1200 Seconds (20 Minutes)

After the Hibernation Period check that Hibernate Flag = 2 (Hibernation completed)

## Insert Problem 3 Event

Cat problem3.txt | nco\_p\_stdio

Check this event is properly formed

After a short while check that Impact Flag = 5 indicating that the event has been processed by maintenance and enrichment Policies and is being processed by ML\_ZTE\_LinkBroken Policy and that Hibernate Flag = 1 (In Hibernation)

Using nco\_sql run the following statement to check that there is 1 ‘Zero Call’ Synthetic Event

*Select Count (\*) from alerts.status where EventId = ‘SYN\_ZTE\_LINKBROKEN\_001’*

Check the policy log time to show that the Hibernate Period is 600 Seconds (10 Minutes)

After the Hibernation Period check that Hibernate Flag = 2 (Hibernation completed)

# Policy Testing with Events from EMS

## Check insertion of event and generation of Synthetic Event

### Insert Problem Event

Moblink cause EMS to generate problem event

Check this event is properly formed

After a short while check that Impact Flag = 5 indicating that the event has been processed by maintenance and enrichment Policies and is being processed by ML\_ZTE\_LinkBroken Policy

### Synthetic Event Generation

Check that after the Hibernation period a synthetic event is generated and properly formed

Summary: 1 of MGWPSH in disconnected state from EMS”

AlertGroup: ‘ZTE Link Broken’

AlertKey: @BSC\_Name

Severity: Major

Type: Problem

FirstOccurrence : Current Time

LastOccurrence : CurrentTime

LogTicket: 1

ImpactFlag: 2

EventId: ‘SYN\_ZTE\_LINKBROKEN\_001’

OwnerUID: 65534

Agent: ‘Netcool Impact’

SourceNode: BSC Location

### Update of Network Event

Check that the Following fields have been updated

SyntheticServerName: Value of ServerName from Synthetic Event

SyntheticServerSerial: Value of Serial from Synthetic Event

ImpactFlag: 6

### Clear Network Event

Mobilink to insert a resolution event

Check that the Network Event is Cleared?

Check that the Network Event has the following fields correctly set

Severity = 0

Cleartime

ExpireId

Check that he Synthetic Event is cleared

Check that the Synthetic Event has the following fields correctly set

Severity = 0

Cleartime

ExpireId