# BNSI DPC Alarms

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| **Version** | **Date** | **Author** | **Description** |
| 0.0 | 16th Nov 2011 | Chris Janes | Original |
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|  |  |  |  |

## Description

This policy processes DPC alarms from the BNSI domain. For phase 1, only the source node is processed

## HLD:

BNSI DPC alarms received should generate TTs after specified wait times, which will be held in an external database table for each linkset. The events will also be received from both ends of the connection, and so will need to be de-duplicated. The TT should contain information with regard to the linkset affected, the percentage of links down in the linkset, SLC numbers and the A & Z node names.



## Pre-requisite

1. TSRM updated with map between @EventId “SYN\_IN\_DPC\_001” and Classification “Adjacent DPC Alarms”

Event Filter:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Alarm description** | **Domain** | **Field** | **Value** | **EventId** |
| DPC alarm | IN | Summary | Adjacent signalling point inaccessible.APC=2106  APC=**2106** | NET\_IN\_DPC\_001 |

## Data Types:

|  |  |
| --- | --- |
| **Name** | **Contents** |
| OS\_Status | Object Server |
| SPC | Site point code table, mapping network element to point code |

## Logic:

### BNSI DPC alarm received

1. Assign required EventId as per Event Filter in the snmp probe rules file

### Lookup time to wait

Use hardcoded value of 5 minutes

### Is there an BNSI DPC alarm from…

1. Convert APC to decimal
2. Select node\_name from SPC table where POINT\_CODE\_DEC =<converted APC>
3. Select links from IMPACT\_C7CONNECTIVTY table where A\_NODE = <alarm node>, Z\_NODE = <APC node name> and linkset = <linkset from alarm>
4. Check Object Server for BNSI DPC alarm for same linkset where node = <Z\_NODE> and APC NODE = <A\_NODE>
5. If DPC event found on adjacent node, check for link down events from A\_NODE for same linkset by checking against IMPACT\_C7CONNECTIVITY table.
6. Calculate number of relevant link down events as a total of all links (IMPACT\_C7CONNECTIVTY.SLC’s) for this linkset
7. create synthetic event as an aggregate of the two network alarms. Populate synthetic event as follows

|  |  |
| --- | --- |
| **Field Name** | **Value** |
| Node | A\_NODE + Z\_NODE |
| NodeAlias | A\_NODE + Z\_NODE |
| EventId | SYN\_IN\_DPC\_001 |
| Summary | DPC Alarm + % Link Down |
| AlertGroup | @AlertGroup |
| Agent | Netcool Impact |
| Manager | Netcool Impact |
| Severity | 5 |
| Type | 1 |
| LogTicket | 1 |
| ImpactFlag | 6 |
| MaintFlag | @MaintFlag |
| Class | 200036 |
| Identifier | Node + Summary + Type + EventId + <@Serial from network event> |
| FirstOccurrence/ LastOccurrence | getdate() |
| Domain | @Domain |
| Region | @Region |
| ManCity | @ManCity |
| CovCity | @CovCity |
| OutsourceContractor | @OutsourceContractor |
| BusImportance | @ BusImportance |
| Vendor | @Vendor |
| Information | SLC id’s comma separated |

1. **Resolution action:** On resolution of either network event, resolve SYN\_IN\_DPC\_001 event and therefore TT