Mobilink’s network is a series of chains of NE’s. When one NE is unavailable (possibly due to a power outage) then all other NE’s ‘downstream’ also appear to be unavailable. In this case it is desirable to suppress all events from downstream NE’s (Child Events).

The information on this will be supplied to us in this format

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Leaf Node Site Code** | **Link Type** | **A End Site** | **A-End Channel Number/Fiber ID** | **Z-End Channel Number/Fiber ID** | **Z End Site** |
| HWY4677 | Abis | RYK173A\_GulshIqbal | Abis TP 23 | 6-PQ1-23 | NE2290-OSN3500-RYK |
| HWY4677 | Abis | NE2290-OSN3500-RYK | Pass Through | Pass Through | NE1522-KHANPUR |
| HWY4677 | Abis | NE1522-KHANPUR | 2-PQ1-50 | CH16 | KPR0439\_Khan |



If site NE2290 goes down we are likely to get the following alarms

|  |  |  |
| --- | --- | --- |
| NE2290 | Site Down | Parent |
| NE1522 | Site Down | Child |
| KPR0439 | Site Down | Child |
| NE1522 | Various other Alarms | Child |

It is possible that we may get a port down event from RYK173A in which case we would get the following alarms

|  |  |  |
| --- | --- | --- |
| RYK173A | Port Abis TP 23 | Parent |
| NE2290 | Site Down | Child |
| NE1522 | Site Down | Child |
| KPR0439 | Site Down | Child |
| NE1522 | Various other Alarms | Child |

I think this is fundamentally different to the way we normally do Parent Child relationships.

Here there are two types of event that can cause this to happen

1. A Site Down Event
2. A Port Down Event

For both these events for a given node there is a defined list of Child events

This still uses the bulk of the current policy it just simplifies how we define relationships

|  |  |  |  |
| --- | --- | --- | --- |
| **Site Code** | **Site Serial** | **Node** | **Port** |
| HWY4677 | 1 | RYK173A |  |
| HWY4677 | 2 | NE2290 | RYK173A :Abis TP 23 |
| HWY4677 | 3 | NE1522 | NE2290-OSN3500-RYK : Pass Through |
| HWY4677 | 4 | KPR0439 | NE1522-KHANPUR: 2-PQ1-50 |
| HWY4677 | 5 | NE1522 | KPR0439 : port |

So for a given node failure say NE2290 (HWY4677 – 2)

Possible Parents are those events with the same site code and a lower site serial number

Possible Children are those events with a higher site serial number

For Nodes other than the ‘top of the tree’ there will be a port associated with it, with possible parent and children defined as above