

**ZONITH**

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# MOTOROLA DIPM Failover Solution

# Why Failover?

## Problem:

- DIPM is Motorola Solutions smallest TETRA infrastructure product.
- There is no built-in automatic failover between core systems.
- Motorola Solutions have written a “DIPM Redundancy Strategy” for manual failover.

## Solution:

- ZONITH provides an automatic solution for performing a failover between primary and secondary systems in accordance with the “DIPM Redundancy Strategy” using a Redundancy Switch.
- ZONITH alerts people about the failover using alternative platforms, e.g. Email, SMS
- ZONITH alerts people of general DIPM system errors.



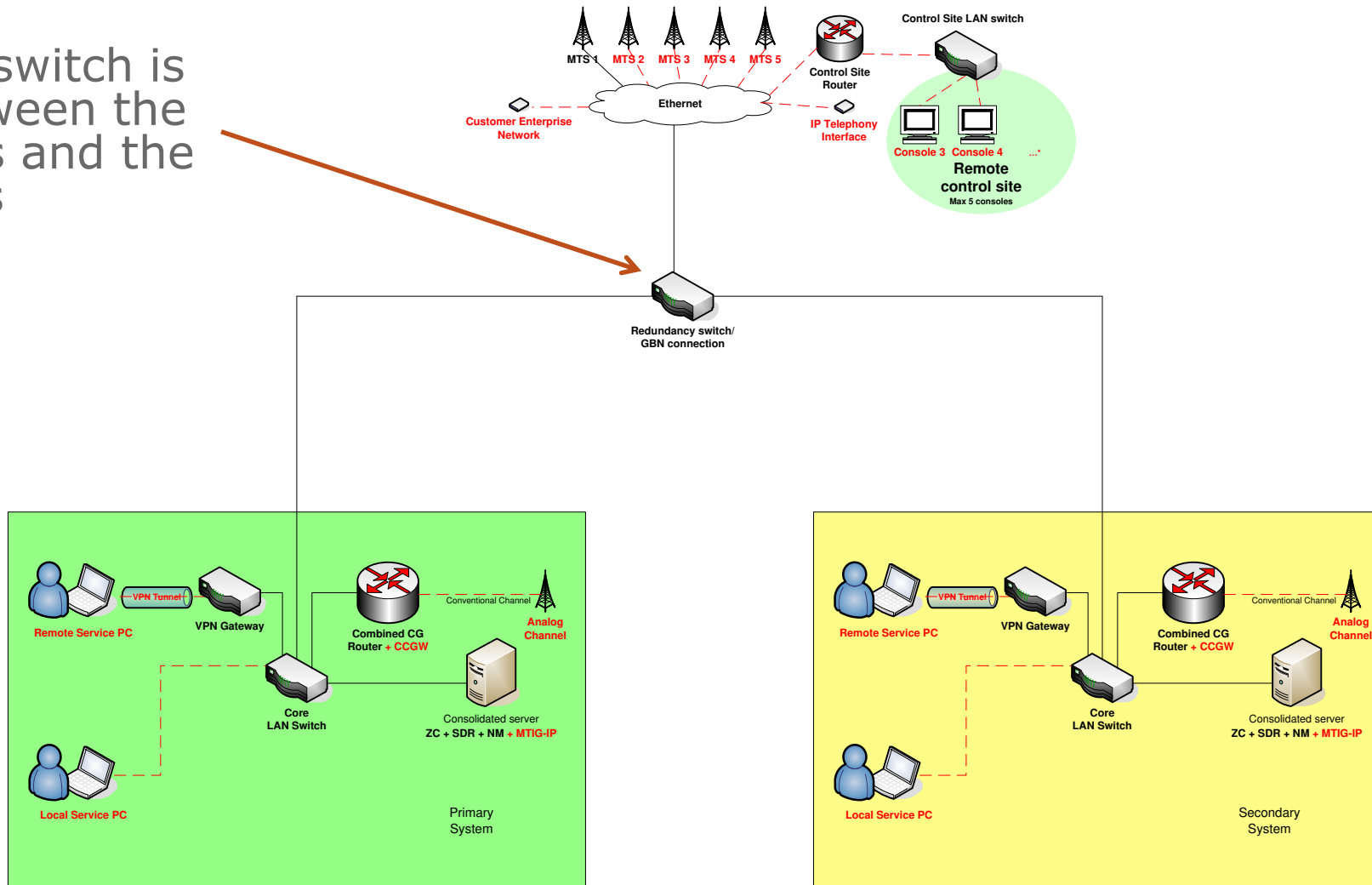
Primary System



Secondary System

# System Overview with switch

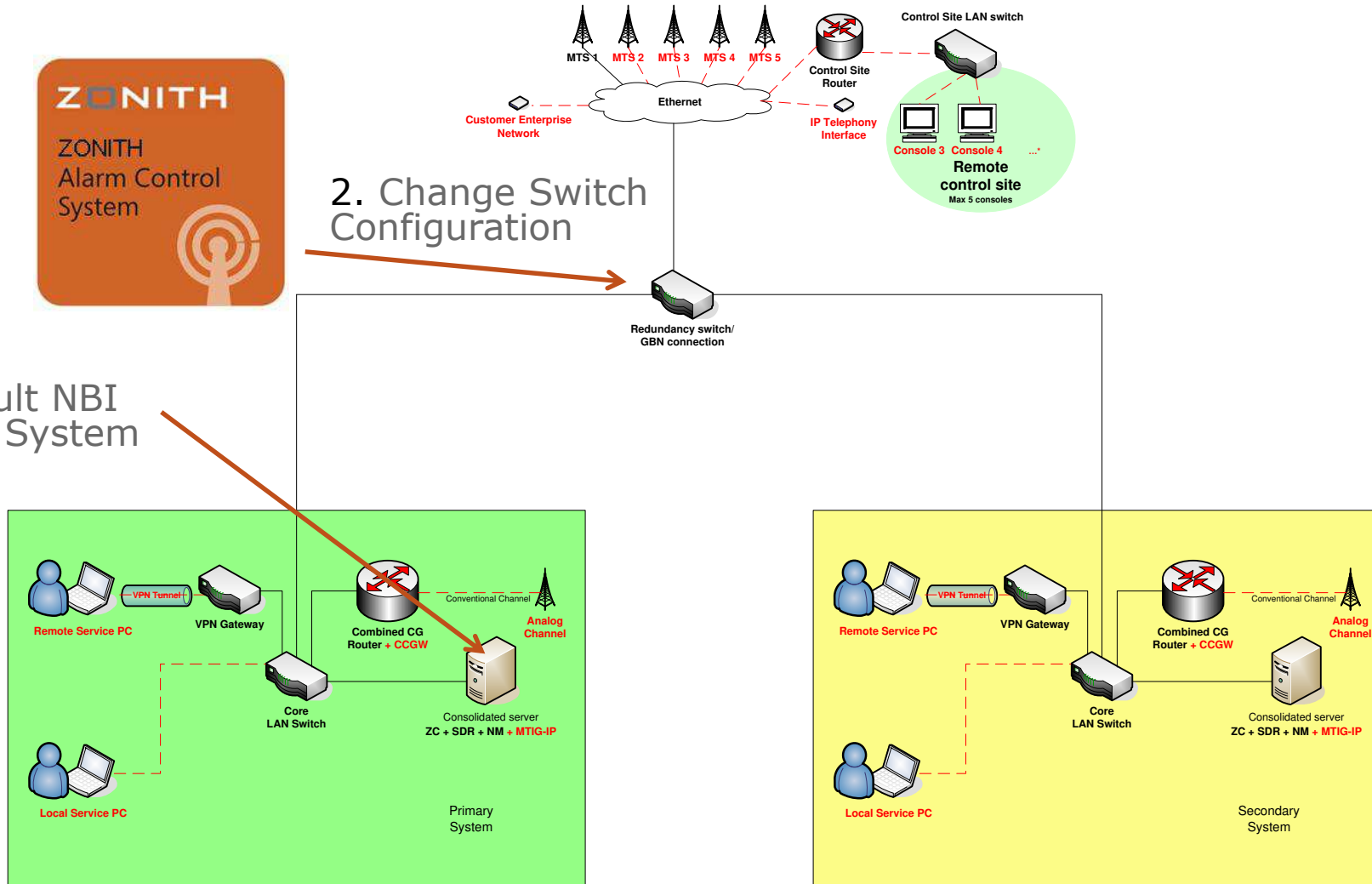
An Ethernet switch is inserted between the base stations and the core systems



# Automatic Failover Solution

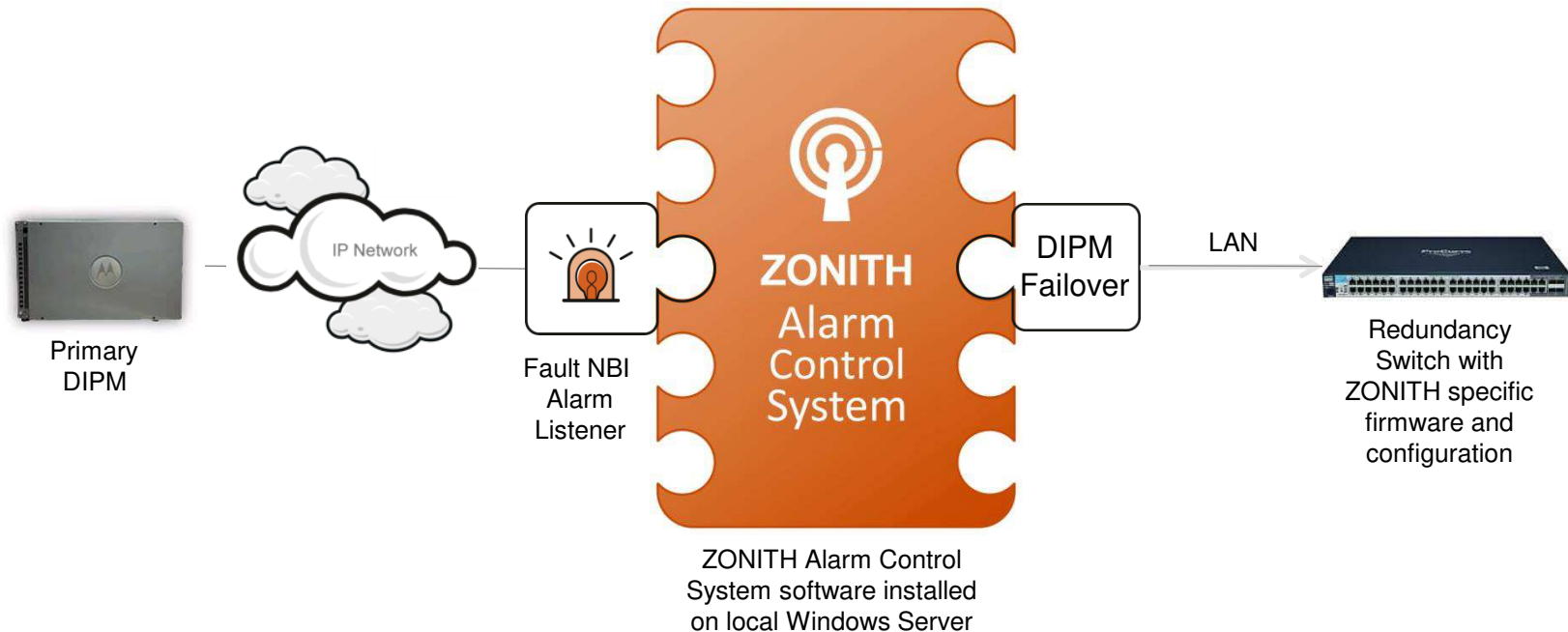
1. Monitor Fault NBI from Primary System

2. Change Switch Configuration



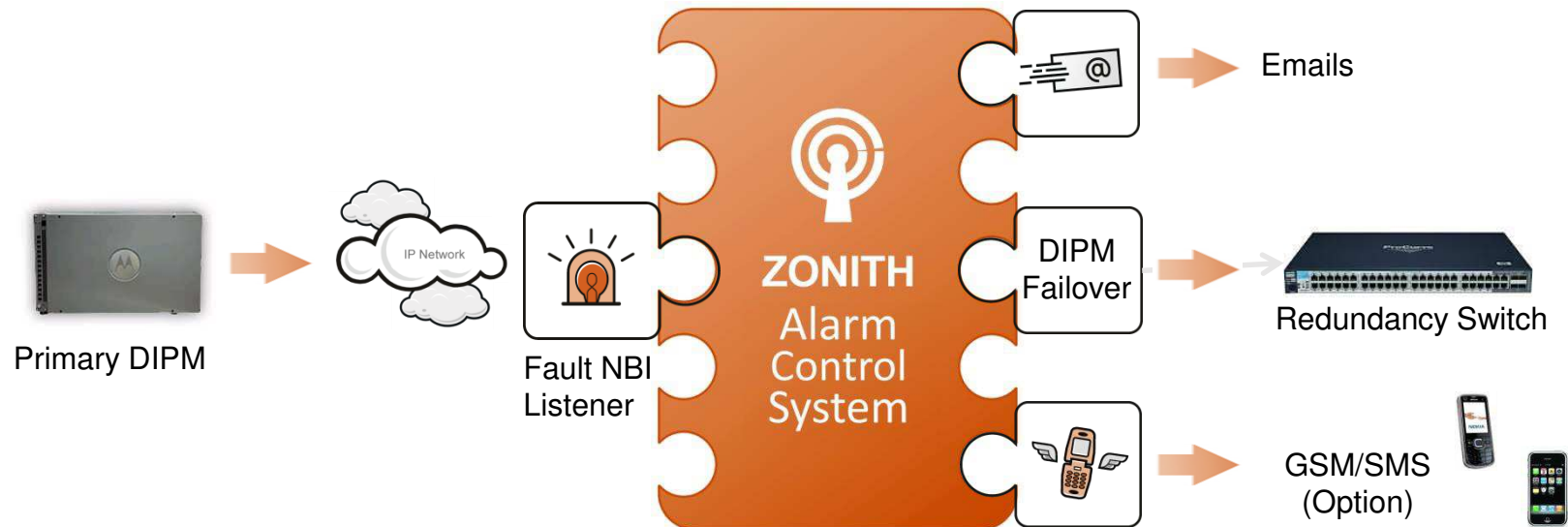
# Basic Functional Description

- ZONITH Fault NBI Listener monitors all error events from Primary System using the Fault NBI service.
- When failover conditions occur (e.g. lost contact with BTS) then an alarm is raised in ZONITH Alarm Control System.
- ZONITH Alarm Control System calls a program to change configuration in the Redundancy Switch for failover to Secondary System.



# Additional Options

- ZONITH Fault NBI Listener monitors error events from the Primary System using the Fault NBI service
- When failover conditions occur, (e.g. lost contact with BTS) an alarm is raised in ZONITH Alarm Control System.
- ZONITH Alarm Control System calls a program to change configuration in the Redundancy Switch for failover to Secondary System.
- **Alert people about failover or other alarms from DIPM via email, SMS (Option), TETRA (option) or**



# Benefits

- Have fast automatic failover in Dimetra IP Micro (DIPM) systems without any manual intervention.
- Alert technical staff immediately in the event of a failover to ensure a fast resolution.
- Be ensured that your DIPM TETRA system is running at all times.
- Alert your technical staff about non-failover errors that are still critical for TETRA network users.



**More information?**

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