

MikroTik Application

Disaster Recovery by BJ Services at the Deepwater Horizon Well

Disaster Recovery & Business Continuity

- Business Continuity Planning – Planning for disaster, predetermining the resources and requirements necessary to restore the critical functions of your business in the event of an emergency.

Disaster Recovery & Business Continuity

- Disaster Recovery – The process of executing the Business Continuity plan to restore critical business functions.

April 20, 2010

Drilling rig
Deepwater
Horizon operated
by BP exploded,
began gushing oil
into the Gulf of
Mexico



June 15, 2010

- David Kendrick with Talladega Services was contracted by BJ Services to provide support for all telecommunications support for the BJ motor vessel Blue Dolphin and other support ships called in to cap the well



Talladega's Task

- Provide network connectivity between three vessels and the platform to support well kill operations



Challenge

- More than 15,000 contractors on site, so there was limited availability of unlicensed spectrum 2.4 & 5 gig



Challenge

- Provide connectivity for network access to each vessel, provide VOIP services from the rig to the vessels
- QOS was a must



Solution

- Build an easily deployed wireless network in a box, carry onto the location via helicopter and deploy with a limited time window
- MikroTik was chosen for size, performance and price point.
- Heavy scrutiny by management due to “legacy thinking”

Approach - AP

- MikroTik 433AH's with 900 MHz radios



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- Weatherproof enclosures manufactured by KamFab



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- 12 dBi Omni by Comet



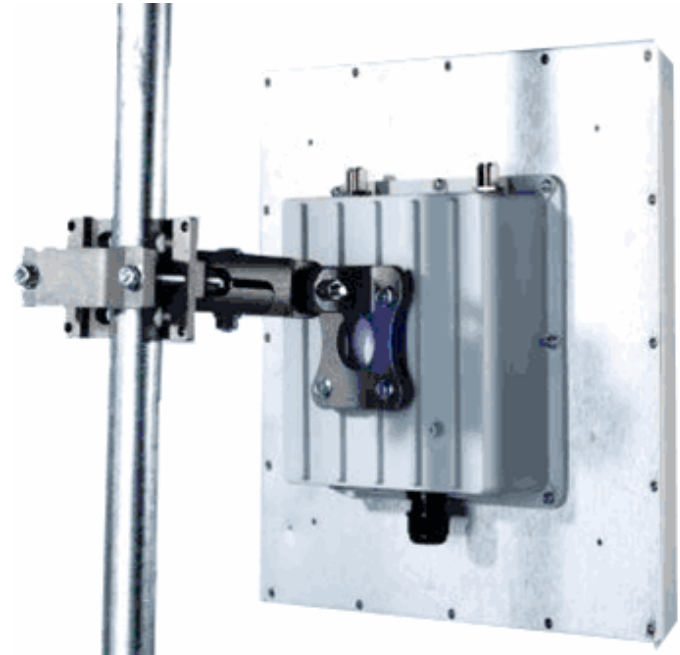
Approach - CPE

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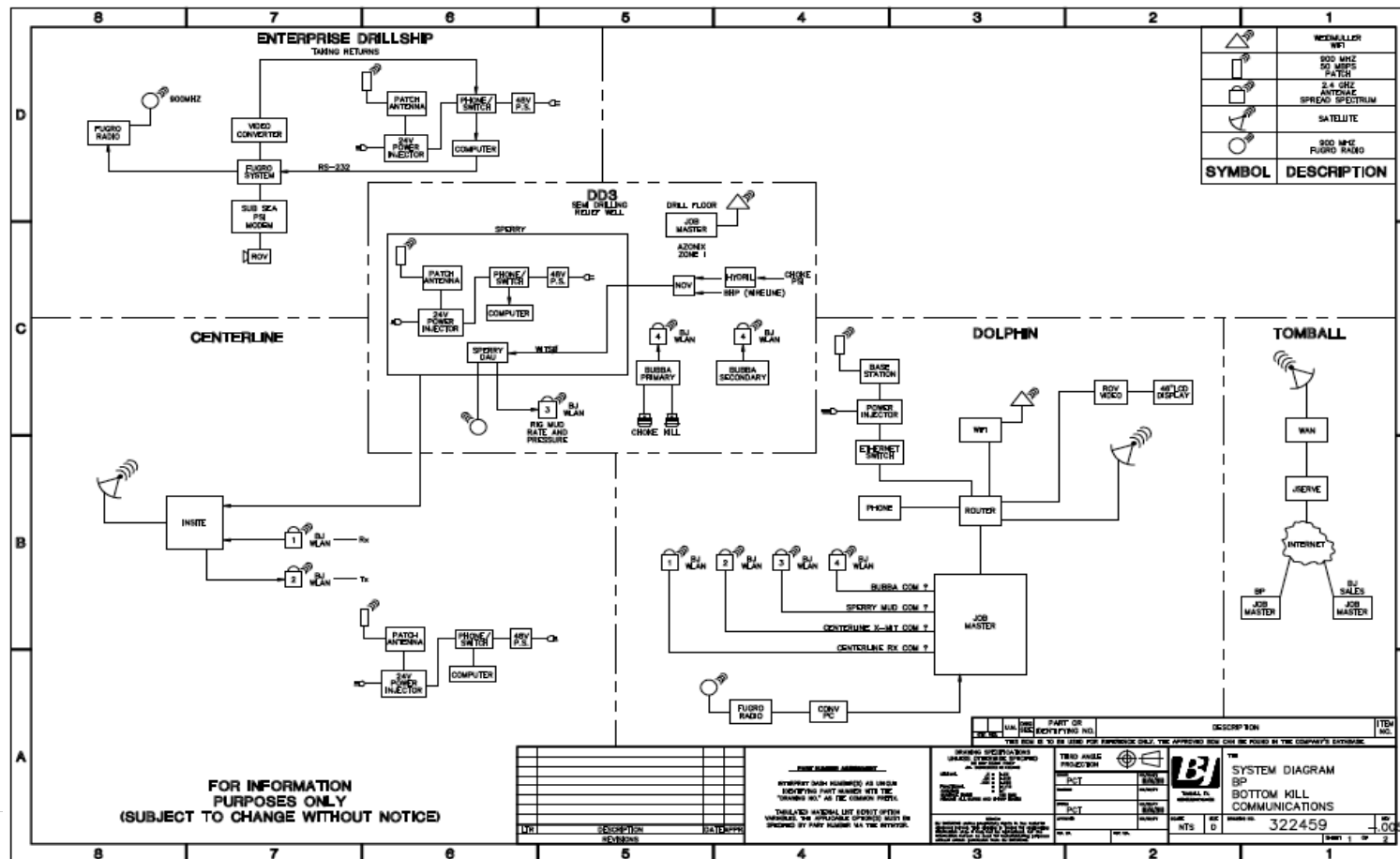


Approach - CPE

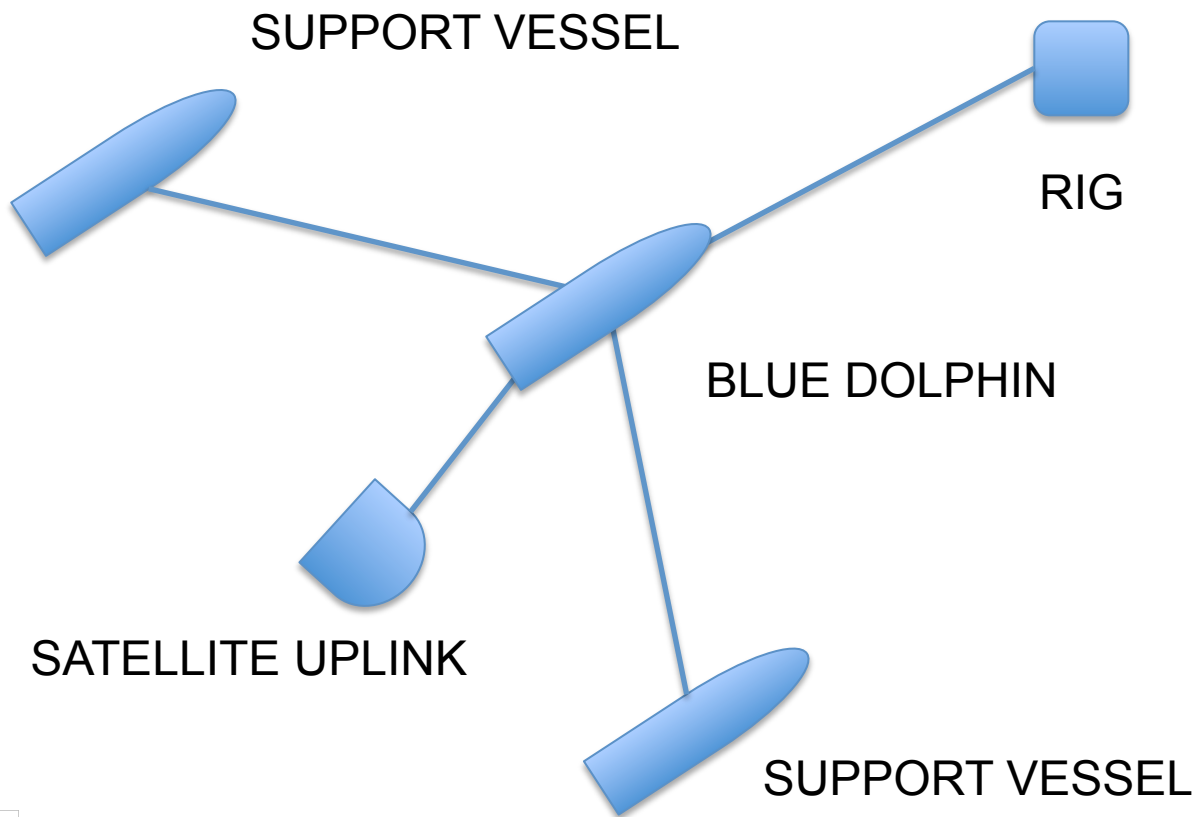
- MikroTik 433AH's
- Arc Wireless integrated enclosures



Network Diagram



Installation



Installation



The Damage

- Estimated 230,000 tons of oil, approx 40 million barrels
- \$ Cost: More than 10 billion dollars



Summary

- Installation worked flawlessly delivering internet access, VOIP services, and monitoring application access
- Operation was completed in early September
- BJ was so impressed with the performance and price point, they have asked Talladega to prepare a formal DR plan for both land and marine operations using the MikroTik gear and create a DR response “kit”

Idea

- Develop and offer a business continuity plan for network communications that includes a disaster recovery solution using MikroTik RouterOS, wireless, etc.

Questions?

Thank You

Special thanks to Talladega Services, David Kendrick and BJ Services for providing the photos and information for the presentation

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