From: Jeffrey Epstein <jeevacation@gmail.com>
    To: William Murphy <█████████████████████>
Subject: Re: LSJ/FTC Telecom/Data services summary
    Date: Tue, 24 Nov 2009 20:28:26 +0000

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there are few numbers attached to your proposal..s I would like to see this in a more readable format. benefits, cost , downside, . the useless switches that you describe . are as a result of what?

On Tue, Nov 24, 2009 at 12:28 PM, William Murphy <█████████████████████> wrote:

    I met with Gary Kerney, Darren, Cecile, Jeanne and Gary Moses last week in an effort to explain existing issues, gather input from key players and forge a direction on how to proceed with regard to technology. We are at a point where the single mode fiber delivering data and telephone service is broken and the laundry construction is forcing careful consideration of a future action plan. I would like to get your input prior to making some decisions; particularly on telephone services.

    The LSJ phone switch is currently down and a support rep with whom I have spoken suggests the power supply was damaged in the lightning strike. A replacement power supply will cost $150. The existing BCM on LSJ should be capable of VoIP communications though we have received inconclusive answers from previous local technicians when we attempted to use it and cannot determine VoIP licenses enabled without powering on the switch. We currently do not have VoIP handsets for the BCM series and so this additional purchase would be required. It is definitely running an older version of BCM software and will most likely require a software upgrade. We were unable to determine for certain where the lightning struck ground last Monday. Without the device powering on, it will be impossible to determine its functional state.

    STT has a smaller version of the Nortel BCM phone switch that was purchased during Dave Lampert's tenure. This switch was purchased with a T1 interface; FTC does not currently have T1 service for their telephone switch but rather 6 analog telephone lines. We will have to either purchase a separate module for the BCM to handle the 6 analog lines, or purchase additional service from Innovative.

    We still have a quote from the Valcomm guys in New Mexico to replace the Vodavi phone switch there with the Adtran NetVanta 7100 VoIP solution. They are very fond of this system citing its ease of use and stability as key points in customer satisfaction.

    My feeling is that the easiest solution for you and travelling staff members would be one where a consistent phone platform is provided at all three of these locations. We have a substantial investment in the Nortel BCM series, including the $15000 we spent on the switch for FTC that has yet to be installed; however, Nortel is currently in bankruptcy protection and we cannot be sure of the LSJ phone switch's operational status until we replace the power supply. I would like to upgrade the software version on the switch if we decide to keep it so that the LSJ and FTC switch can be managed in the same manner. Also there will probably be additional costs for VoIP user licenses and VoIP handsets, but again I will need to power the switch on to verify this.

    The Nortel support representative I have been in contact with has stated that the Nortel BCM series is still widely used and that support for this platform is not affected by Nortel's bankruptcy status. Also, he informed Nortel has recently released an upgraded BCM model, so they have not abandoned the platform from a manufacturing perspective.

    VoIP has the advantage of being highly adaptable to geography since wireless network bridges provide access to places where running copper cable is difficult. This advantage is very applicable to the geographies of LSJ, FTC, Lafayette and Zorro and would eliminate the need for large capacity underground copper cables connected to a phone.

Ultimately, we have an unused 15K phone switch at FTC that we either use or abandon. Implementing a new VoIP solution would be easier for me from a support perspective as the telephone wiring infrastructure is eliminated. I see the most important factor in this decision being the delivery of a consistent handset; but what you see as most important is my goal. The Adtran equipment has consistently received high marks from VoIP implementers for it usability, feature set and comparative cost. Brice mentioned to me that you have also seen the handset and found it acceptable. Please feel free to give me a call if you have some time and we can discuss this a bit more.

Following are other issues outstanding related to FTC and LSJ. I've listed them as a summary for your review.

Financial Trust:

Three outstanding issues there persist:

1. The server where user documents reside is near capacity and needs to be upgraded. Jermaine has retained a quote from a local St Thomas vendor that Jeanne has suggested we will purchase after the end of the year. This server will be installed into the same logical group that our servers at 71st street currently reside in an effort to resolve persistent authentication issues that are having a large performance impact on users in this office.

2. Category 6 wiring at the FTC office has not been completed. A dispute with the vendor originally retained for install makes using him in the future impossible. Jermaine and I should be able to complete the remaining work. I will get costs on tools and equipment required for this.

3. We have a new BCM 50 telephone switch that has yet to be installed in the FTC office. This is dependent on the completion of the wiring in item 2 above. The current phone system does not provide conference calling and requires an upgrade.

Little Saint James:

1. The fiber break we experienced three weeks ago has now been tabled as laundry room construction on the island will disrupt the conduit that delivers the data and telecom services to the island (single-mode) as well as provides numerous structures with local data connectivity and local telephone wiring (multimode/ telephone). Interim internet connectivity has been provided by several WWAN cards connected to Linksys routers. Cell phones are bridging the voice issues while the BCM is down. I've attached a PDF of a rudimentary drawing of conduit and buildings on the island and we can talk about this when you have a moment.

2. I contacted a BCM technician regarding the lightning strike near the communications room. He believes the power supply to the unit was damaged and that we can be up and running for $300 (after fiber issue is

resolved). He has given me a price of just over $2K for assisting us in migrating the BCM to the new engineering building. This does not include flight, lodging and per-diem. We would want to have the single-mode fiber installed and terminated at the new engineering building and local telephone wiring run prior to his visit to maximize progress. The 2K includes remote support advising us on wiring and preparation. The BCM may require a software upgrade to be determined once the switch is operational.

3.   I'm working with a fiber installer out of Puerto Rico for an estimate in repairing our single-mode installation. Repair and maintenance is required on the Caprita Point side as well as a splice on LSJ to connect and light the new engineering building. Again, it is our intention to have the fiber runs completed prior to their visit to maximize progress. A power outage window will be required at LSJ to migrate the single mode fiber from MH1 to the intended future splice location at MH8.

4.   As far as internet connectivity is concerned, LSJ has a single T1. Were you to visit the island tomorrow, speed and reliability on LSJ pales in comparison to your existing internet setup at Palm Beach. Multimedia downloads via Apple TV would be extremely slow. I have been in contact with a local wireless provider looking to relay wireless to St John and St Thomas. They have yet to provide any specifications on the tower requirements promised two weeks ago. If we can make this happen, it would be the most cost effective internet access and probably the closest thing we can provide to your Palm Beach experience; however, it has been very difficult to get this project moving or have any commitment deadline met. The quickest solution would be to increase the bandwidth provided by Sprint. Their cost for 6M (4XT1) is about $5500 per month with a three year agreement. This solution is dependent on us repairing the delivery mechanism over the single-mode fiber running from Caprita Point to LSJ.

5.   There are two iMac machines on the island in your office at the Main House. Also, there is limited wireless on the island. We should consider where you wish to have Mac machines and wireless so that we can develop a viable option to remedy this. To my knowledge, there is no Apple TV device on the island as well.

William Murphy

Systems Administrator – HBRK Associates

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P: ████████████

M: ████████████

F: ███████████