Telephone wiring upgrade

Admin & Finance Committee 12/19/2017

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Agenda

- History (how did we get here)
- Current state (where are we now)
- Why we need to act
- Our approach
- Recommendation
- What we need from you



History

- 2012 Last time we invested in our phone system
 - New phones for all city workers (Mitel 5312 IP Phone)
 - Decided to NOT upgrade the wiring system behind the phones
 - Only one vendor (TIG) thought this was a viable approach
 - Brought forward a design that converted our IP based phones to run on our older copper based wiring system
 - Special hardware needed to pull this off: Phyadapters and Phybridge switching units
 - Lots of problems early on getting this design to work





Current state – What the legacy system looks like

Phybridge Components and Topology





Current state (DPW) – What works a lot better





Current state – Phone system Layout

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Why we need to act now:

- Support costs for the legacy system are increasing
 - PhyAdaptors fail often. Replacement parts getting harder to find.
 Cost of a new PhyAdapter is \$100 each
 - PhyBridges have errors, cost up to \$5,000 to replace
 - Copper pairs within buildings are failing.
 - Senior Center has been 50% upgraded as we keep losing copper pairs.
 - Customers without service for 1 hour to 1 week depending on issue.
- National Ave construction
 - Poses a **significant** risk to the under ground copper wiring





Our approach

- Staffing constraints at DPW made it difficult to consider them for this effort
- Worked with Purchasing to conduct an RFP
 - Scope of work included the 6 buildings where the risk was greatest due to the National Ave construction
 - Excluded the Police Department and City Hall; will address in 2019
 - 5 contractors included
 - Kelly Communications, a West Allis based firm, was the only one to respond
 - Senior Center= \$2.361.60
 - Health Dept= \$10,782.64
 - Library= \$7,921.52
 - Fire Admin= \$4,364.58
 - Fire Station 1= \$2,691.11
 - Fire Station 2= \$4,271.86
 - Our own Electricians confirmed this was very attractive pricing





Options/recommendation

- Do nothing:
 - Service disruptions will continue to increase; fixes will be done in a reactive mode (increasing costs); significant risk exposure to Senior Center, Health and Library to due underground copper cable continues
- Do some of the work:
 - Mitigates the highest risk areas (Senior Center, Health, Library); but spreads out the work over a longer period
- \checkmark Recommendation: Accept the quote in the RFP
 - May never get better pricing, vendor really wants to work with us



Where we need your help - Budget

- Since 2012, plan was to spend \$10k annually to convert buildings to the new wiring infrastructure
 - Never got off the ground due to changing priorities and staffing
- Thought we had \$10k in 2017 general IT budget, but upon further review, it is not there as a specific line item
- We do have funds available in an IT Joint venture account:
 - Where we receive hosting fees from other municipalities
 - Current balance: ~\$85,000



Where we need your help - Budget

- We'd like to:
 - Communicate to Kelley Communications that they've won the bid
 - They've been waiting patiently for over a month
 - Since this is a capital type expense, transfer \$33,196.66
 from the IT Joint Venture fund to the General Government
 Capital Improvement fund
- Do we have your support to move forward with this recommendation?

