The $65k requested in the 2017 Technology warrant article is to allow us to consolidate and update the 6 school servers noted below this summer. The new server will be designed with appropriate backup and redundancy to ensure these services are reliable, and resilient. The new server will also allow us to add services (such as authenticated WiFi consistent with best practices for a school implementation) that we are currently unable due to limitations in the existing versions of Windows Server 2008 as well as lack of available resources (memory, cpu, storage). This server will also have the ability to scale to accommodate town server needs once we have town-wide fiber and will have the ability to provide the redundancy and fault tolerance needed for those services.

I have reached out to my vendors and received quotes ranging from $29,000 for a basic server build (capable of upgrading 2 or 3 of these servers without ability for future growth) and up to $200,000 for a fully Hyper-Converged infrastructure with the ultimate in fault tolerance similar to what Scituate installed recently. Based on analysis of the quotes thus far I am confident we can implement a solution that accomplishes our goals within the $65k requested.

The existing servers will be repurposed into backup roles where they will function until they can no longer and where a failure will not result in any impact.

Server04 – High School
    Dell PowerEdge R610
    Windows Server 2008
    Installed June 2011
    Current Services
        User Authentication (Microsoft Active Directory)
        DHCP
        DNS
        LANRev desktop and MDM service
        File/Print services for HMS and HHS Engineering labs
        File/Print services for Facilities
        Facilitates sharing of files between Salmond business office and Town Hall finance.
        Repository of software media
        Phonebook for School VOIP phones
        Address book for School copiers (scan to e-mail)

Server03 – High School
    Dell PowerEdge R710
    Windows Server 2008
    Installed June 2011
    Current Services
        Nutrikids
        Backup domain controller (BDC to Active Directory on Server04)
        Backup DNS to Server04
        Helpdesk software
        DokuWiki (technology document repository)

Milestone01 – High School
    OEM Vendor Server
    Windows Server 2008
    Installed June 2011

Current Services
    Milestone software, manage half of school security cameras and record video footage
    Provide web access for HPD and HFD to view cameras remotely

Milestone02 – High School
    OEM Vendor Server
    Windows Server 2008
    Installed June 2011
    Current Services
        Milestone software, manage half of school security cameras and record video footage

Server1 – High School
    OEM Vendor Server
    Windows Server 2008
    Installed June 2011
    Current Services
        Supplied by Carousel, manage HHS phone (VOIP) and voicemail

Server3 - Salmond
    Dell desktop
    Windows Server 2008
    Installed ??
    Current Services
        Salmond user authentication (Microsoft Active Directory)
        DNS
        File/Print services for Salmond staff