

# Executive Summary

## Prepared for Board of Trustees Meeting February 12, 2019

### Update on 2019 E-Rate Requested Districtwide Fiber Optical Equipment

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**Board Goal:** I. Vision, VI. Growth, Change & Fiscal Responsibility...

#### **Purpose of Report**

This report is an overview of the equipment that the district applied for to the FCC E-Rate program for discounts. The District applied for this equipment in the 2016 E-Rate cycle and was approved, but subsequently received a denial of service and is currently under appeal. The equipment is optical grade that passes data far faster than the copper network and offers a greater degree of redundancy. This equipment also puts Denton ISD in the “hub” status link as we will deliver Region 11 E-Rate discounted Internet connections to surrounding districts.

#### **Objectives**

- Further improve the district data delivery for our teachers and students
- Build better data redundancy with district owned fiber and optical equipment
- Most efficient and cost effect solution for the district now and into the future

#### **Operational Impact**

This optical network design will move our network into a high-level distribution class of a data provider for both our teachers and students but also in providing DISD services to local school districts. As Denton ISD migrates into a Hub Site for Region 11, this equipment will allow DISD to distribute data and Internet to all area ISDs connected back to Denton ISD by fiber. The fiber connections are being funded by Region 11 E-Rate and are at the cost of each school district seeking Internet connections to Region 11 via the Denton ISD hub site.

#### **Results**

Attached are the quotes for equipment to be submitted to FCC E-Rate to build out the DISD optical network.

Overall cost of the optical hardware project	\$2,046,576.61
E-Rate 60 % if funded	\$1,227,945.97
Denton ISD 40% possible expense	\$ 818,630.64

#### **Other Options**

We researched other data delivery options with *RFP # 1901-04 E-Rate Category 1 Eligible Lit, Dark or Self Provisioned Fiber* and by adding E-Rated Region 11 dark fiber combined with district owned optical equipment over a 30 year we will save more money.