
Indicators of Digital Readiness

Indicator	Intranet/Internet Network Availability
Element	Technology Support & Services
Priority Level	P1
Organizational Level	District

Description of the Indicator

Increasing end-user's Digital Learning access should be one of any district's highest priorities. Investments in wireless connectivity and infrastructure will increase staff and student access to resources that support learning, teaching, communication, and productivity.

Why is this indicator important?

Students and staff in schools should have an always available access to information, tools to analyze what is gathered, and the means to store and share what they have created. Redundancy in information pathways ensures that the school continually provides the resources needed to be Digital Ready.

Indicator Rubric

<p>Insufficient Evidence of Implementation</p> <p>(0 Points)</p>	<ul style="list-style-type: none">● No physical or virtual private network exists
<p>Foundational Stage of Implementation</p> <p>(3 Points)</p>	<ul style="list-style-type: none">● All district schools are inter-connected either via a physical or virtual network and share resources/connectivity through a district data center● District ISP bandwidth does not meet District's instructional/operational needs or NJSLS/PARCC Bandwidth Recommendations● District does not have a redundant ISP connection available
<p>Achieving Success in Implementation</p> <p>(6 Points)</p>	<ul style="list-style-type: none">● All district schools are inter-connected either via a physical or virtual network and share resources/connectivity through a district data center with an uninterruptible power supply● District ISP bandwidth is sufficient to meet District's instructional/operational needs (at a minimum meets NJSLS/PARCC Bandwidth Recommendations of 100 Kbps/student)● District has redundant ISP connection(s) available for emergency use to ensure no school building loses connectivity and maintains basic operational requirements
<p>Exemplary Success in Implementation</p> <p>(9 Points)</p>	<ul style="list-style-type: none">● All district schools are inter-connected either via a physical or virtual private network and share resources/connectivity through a district data center with an uninterruptible power supply and an emergency generator● District ISP/WAN bandwidth is sufficient to meet District's instructional/operational needs (at a minimum meets twice (2x) the NJSLS/PARCC Bandwidth Recommendations of 100 Kbps/student)● District has redundant ISP connection(s) available for failover ensuring no school building loses connectivity and minimal impact to District/School operations

Who in the school/district should lead and be involved with this indicator?

- Technology Director
- IT Personnel
- Instructional Technology Staff
- Business Administrator

How to execute the indicator

- Site surveys and indicators showing bandwidth capable connections
- Network topology maps and network design descriptions
- Develop fiscal plan with Business Administrator to determine what is achievable. Be sure to exhaust all funding options, including e-rate which currently covers infrastructure costs
- Implement district plan to reach Exemplary Success

Evidence to submit for successful execution of this action

- Devices have safe and filtered educationally access 24/7. Data is available from cloud-based applications such as G-Suite, Office 365, or Virtual Private networks.
- Wireless and wired survey
- Network maps and diagramming including Intranet, Internet, IDFs, MDF, Data Center, and NOCs
- Equipment inventory which may include makes and models of connectivity hardware connecting to the wireless network

Resources schools can use to complete this action successfully

- Annual budgeting to support Core and Edge Switches upgrades when necessary. Having service contracts available on Core switches, Edge switches, or valid service contracts
- Annual budgeting to continue PFNs and ISP provider connections to support the districts initiatives and mandated assessment testing
- Ability for staff and students to connect to a safe educational environment, whether in school or out of district to complete necessary research and assignments

Certified Schools Exemplars

1. [Benway School, Benway School, 2018 Bronze Certified](#)

Having a clear plan for the internet, with the use of a third party heat map as well as reviewing needed updates and upgrades on a semi-annual basis keeps us current.

2. [Memorial High School, West New York, 2018 Bronze Certified](#)

The IT department has always keep up with technology and speed. They work with the Central Office, Administrators, maintenance and teachers to make see the needs. Once they know the needs they match it to the technology. There is also a district technology plan that is followed to make sure we achieve what is needed. It helps that we are e-rated to help afford the infrastructure.

3. [East Brunswick Campus, Middlesex County Vocational and Technical Schools , 2018 Bronze Certified](#)

Our campus has the following network items to help us achieve this exemplar:

- Site surveys and indicators showing bandwidth capable connections
- Network topology maps and network design descriptions
- Evidence of 24/7 Filtering
- Current ISP E-Rate Agreement
- Wireless Inventory