

# 1. SD8 Infrastructure/Security Overview

*“Infrastructure is the backbone to our district’s technology operations—including our Wide Area Network (WAN), Servers, Security and Communication Systems.”*

Item	Explanation	Notes
1. Network Protection & Recovery	Network protection helps safeguard the health and security of our SD8 network.	<ul style="list-style-type: none"> <li>• 25 Firewalls in our District</li> <li>• APU—back up power supply during power outages</li> <li>• Require a disaster recovery plan at some point</li> </ul>
2. NGN	<b>Next Generation Network</b> replaces <b>PLN</b> (Provincial Learning Network), delivering improved bandwidth through a provincial Telus upgrade.	<ul style="list-style-type: none"> <li>• Scheduled for Fall 2016</li> <li>• Large preparation for project</li> <li>• Expected improvement: Elementary 30 MB, Middle 50 MB, Secondary 90 MB+</li> </ul>
3. Wireless	Wifi has been implemented in 2012-13 as part of the <b>Evergreen Plan</b> in schools across the District. Devices connect to a particular <b>SSID</b> network: School, Staff, or Student.	<ul style="list-style-type: none"> <li>• There are 175 Meraki Access Points across SD8 (schools &amp; administrative offices)</li> <li>• Total of 1882 distinct clients (devices) have connected to date</li> </ul>

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4. Servers	A “ <b>server</b> ” is a powerful computer on an office or school network that manages the resources available to all the other the computers attached to that same network. “ <b>Virtual</b> ” servers is dividing a physical server into multiple mini-servers.	<ul style="list-style-type: none"> <li>• Physical = 43</li> <li>• Virtual = 78</li> </ul>
5. FIPPA	<b>Freedom of Information and Privacy Protection Act of BC</b> —law that governs where data (should) be stored, who has access, and ensuring informed consent for end users. For larger projects such as MyEdBC, Districts completed a <b>PIA (Privacy Impact Assessment)</b> , a tool that outlines the risks of data breaches/issues and how to minimize them.	<ul style="list-style-type: none"> <li>• FIPPA has recently come to the attention of School Districts across the province</li> <li>• We are in the “Awareness” phase, and are moving to “Compliance”</li> </ul>

# SD8 District WAN (Wide Area Network) Wifi Map 2015

