As our community transitions through the phases of the COVID-19 pandemic, school district leaders planning for the reopening of school buildings and campuses have an obligation to protect students and teachers. In doing so, they must continuously anticipate COVID-19 cases and exposure to occur in these facilities. For a safe learning environment and to slow spread, consulting CDC COVID-19 School and Program Administrators guidance, taking preventative measures and practicing social distancing will be integral to returning safely.

What School District Leaders Need to Know

While taking preventative measures, the reality is that we will see returning students, teachers, and staff who have tested positive for COVID-19 or are asymptomatic, inadvertently come into school campuses or buildings. Upon notification by these individuals of their condition, district leaders will be obligated to take immediate remediation actions and identify and notify individuals who have made prolonged contact and risk possible exposure. In doing so:

- Will you know where the infected individuals have been on campus, in which areas they visited and for how long?
- Will you know who they were in contact with and for how long?
- Will you know in which zones or areas where this prolong contact occurred?
- Will you know where individuals are congregating in high numbers that could increase the risk of COVID-19 spread?
- Will you be able to alert students, teachers, and staff to avoid passing through or visiting areas on campus that are non-compliant in social distancing?
- Will you know which areas or zones on campus needs extra cleaning and disinfection?

Proximity Tracing Solution for School Buildings and Campuses

Contact tracing has been adopted as a central strategy by public health organizations to trace and monitor contacts of infected people. Access to the tools and this data is not intended for use outside of these organizations, therefore they are not readily available for making school campus opening or school business operation continuity decisions. However, school district leaders are obligated to implement measures for a safe learning environment. They’ll need to know who enters and exits the school campus, measure social distancing policy compliance, be ready to trace the contacts made on campus of COVID-19 tested positive individuals and set guidelines for individuals’ gathering onsite subject to the district’s privacy policies.

To help accomplish this, Juniper Networks Proximity Tracing solution is available to support the unique contact tracing needs on
school campuses and buildings. It provides district leaders the tools and insights to reopen and resume school operations safely over the following three use cases:

<table>
<thead>
<tr>
<th>Use Cases</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Journey Mapping</td>
<td>For individuals who have reported testing positive or showing symptoms for Covid-19, view which zones on campus they visited and how much time they spent in the zones.</td>
</tr>
<tr>
<td>Proximity Tracing</td>
<td>Quickly identify which individuals and how much time was spent in proximity of individuals who reported testing positive or showing symptoms for Covid-19</td>
</tr>
<tr>
<td>Hot Zone Alerting</td>
<td>View in real time the number of individuals in zones and monitor compliance to capacity limits. Generate compliance reports to understand trends and areas with physical distancing issues. Use these insights to take actions for remediation and targeting deeper cleaning and disinfection. Use insights to disperse or divert traffic away from congested areas with real-time user alerts.</td>
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</tbody>
</table>

How does the Solution Work?

The Juniper Mist solution leverages AI-driven analytics, self-driving Wi-Fi, and patented virtual Bluetooth® LE (vBLE) technology to enable user journey mapping, proximity tracing and hot zone alerting. The solution enablers are:

- **An individual’s location is established based on the ID of a mobile device, BLE badge or proximity tracing mobile application running on their device**
- **The standards-based Wi-Fi, virtual BLE, and IoT enabled Access Points deployed on campus help locate and interact with devices and individuals. Same infrastructure supports campus-wide Wi-Fi**
- **A set of Mist Cloud Services enables zone-based analytics and real-time reporting on hot zones, user journey map reports, proximity tracing reports, and compliance reports.**
- **Mist does not collect, store personal health information. Identification of COVID-19 tested positive individuals is the customer’s responsibility, not Mist. Mist provides tools for customers to track an individual’s location in a de-identified manner.**

Summary

As communities move along in its pandemic recovery, resuming teacher lead classroom based-learning means reopening school buildings and maintaining a healthy campus for students and teachers. Important work is being done by public health organization contact tracing initiatives, but these tools and data will not be readily available to help support school campus reopening and school business operations continuity decisions. Juniper offers the Mist Proximity Tracing solution which uniquely provides to school districts a converged Wi-Fi and BLE based location platform as part of its AI-driven Enterprise portfolio for supporting contact tracing and hot zone detection. To learn more, contact your Juniper Networks account manager, authorized Juniper Partner or visit us at SAFELY GET STUDENTS BACK TO SCHOOL.