

## K-12 Education Solution

### Primary & Secondary Education

IPcelerate leverages a Cisco Unified Communication solution to provide a safe environment for teachers and students, enhance communication between teachers and parents, and ensure that administrators have real-time awareness and quick response to emergency events. IPcelerate solutions are currently deployed in a variety of ways within schools:

- ▶ Efficiently communicate attendance information, inclement weather updates, and report card notices to parent's phones
- ▶ Inter-office and classroom communications are streamlined and enhanced with intelligent paging and intercom
- ▶ Customized bell schedules are established for specific grades and sections, and teachers receive visual notices to their phones 5 minutes before the bell – never get 'surprised by the bell' again
- ▶ Bomb threats and harassing calls are recorded from the beginning of the call, even when the threat occurs mid-call
- ▶ Teachers and special-needs students can be provided a personal safety device to alert administrators of emergency
- ▶ First Responder teams are immediately notified when and where 911 has been dialed
- ▶ Principals in a school district or teams of teachers engage in a ad-hoc conference call with a single-button push
- ▶ Administrators leverage an intelligent video surveillance and situational awareness monitoring system to detect improper entry, asset theft, smoke alarms, or emergency notifications, to respond quickly and efficiently



Each of our customers can benefit from our experience in developing compelling solutions for K-12 Education, but we recognize that everyone has their own needs as well – what is yours?

Schools are responsible for laying the foundation to help students develop the skills needed to graduate and be competitive in the global market place. To accomplish this, schools must ensure the health and welfare of teachers and students, and must respond quickly and efficiently to truancy, property theft, inclement weather and emergency situations. Additionally, schools must provide teachers with the best available tools to communicate effectively with students and parents. In every instance, technology-driven support can help provide a compelling solution, at a low cost. Previous IPcelerate engagements with private and public schools have revealed the following key initiatives:

- ▶ Enable efficient and convenient communication between administrators, teachers, parents, and students
- ▶ Broadcast inclement weather messages to a variety of end-points
- ▶ Enhance, automate and centrally manage school bell scheduling systems
- ▶ Increase teacher and student safety and security
- ▶ Identify, monitor, record and respond to 911 calls
- ▶ Record and manage malicious inbound calls (e.g. bomb threats)
- ▶ Visually monitor and document illegal, disruptive or physically threatening student incidents
- ▶ Maintain situational awareness of facility status (e.g. doors and windows), smoke alarms, and high-value assets



The previously listed initiatives are derived from the majority of schools that IPcelerate has provided solutions for; however your school may have other initiatives. IPcelerate offers a collaborative consulting engagement within your school to uncover and solve your critical business initiatives. Whatever the need or initiative, IPcelerate can help you ensure that you are maximizing your investment in IP Telephony to effectively address it.

## Needs & Solutions Matrix

IPcelerate' **K-12 Education Solution** is a pre-configured, pre-integrated set of applications that enables schools and school districts to use IP Telephony to meet their most critical needs. **Table 1.1 Needs & Solutions** defines the primary needs within the K-12 Education vertical, the solutions generated, and the IPcelerate applications resident in the K-12 Education Solution that meet that need.

**Table 1.1 Needs & Solutions**

Need	Solution	IPcelerate Solutions
<p>Increase teacher and student safety and security</p>	<p>Teachers, administrators and students with special needs are equipped with an RFID 'panic button,' enabling them to call for help immediately. This will trigger the device of your choice on campus and make all personnel aware of the situation.</p> <p>Initiate emergency alert broadcast messages from a Cisco IP Phone with a touch of a button.</p> <p>Create and broadcast audible, text and text-to-speech messages to IP Phones, other voice endpoints, and the overhead paging system (audio only)</p>	<ul style="list-style-type: none"> <li>▶ Situational Awareness</li> <li>▶ RFID Pendant</li> <li>▶ Cisco IP Phone Panic Button</li> <li>▶ Dial Out</li> <li>▶ Paging</li> </ul>
<p>Enable efficient &amp; convenient communication between teachers, parents &amp; students</p> <p>Broadcast inclement weather messages to a variety of end-points</p> <p>Enable an intuitive visual environment to allow school officials to easily invoke solutions</p>	<p>Initiate instant, prerecorded or scheduled notification of attendance information, inclement weather updates, school event highlights and report card notices to parent's phones or PDA's.</p> <p>Establish pre-programmed conference groups for teachers to quickly contact classes, study groups, or student organizations. Students are able to easily contact class teams, extracurricular groups, or project teams etc.</p> <p>Instantly initiate a live or prerecorded announcement of inclement weather to parent home, business or mobile phones announcing school closings, operating hours, bus schedules or school events</p> <p>Dashboards can be personalized based on role within school. Principals, Teachers Counselors and staff can each have their own personalized Dashboard</p>	<ul style="list-style-type: none"> <li>▶ Dial Out</li> <li>▶ Pre-Programmed Conference</li> <li>▶ Dashboards</li> </ul>
<p>Identify, monitor, record and respond to 911 calls</p>	<p>Immediately locate, monitor and record the origination of 911 calls.</p> <p>Alert and notify on-site safety personnel, faculty and emergency response teams via audio, text and text-to-speech to multiple Cisco IP Phones</p> <p>Establish pre-configured 'emergency response' conference call in response to 911 calls with a single button push on a Cisco IP Phone</p> <p>Automatically record 911 conversations when 911 or other emergency numbers (311, internal security number, etc.) are dialed</p>	<ul style="list-style-type: none"> <li>▶ Internal 911 Alert Notification</li> <li>▶ Location Enforcer</li> <li>▶ Pre-Programmed Conference</li> <li>▶ IPstudio (911 Call Recording)</li> </ul>
<p>Record and manage malicious inbound calls (e.g. bomb threats)</p>	<p>Bomb threats and harassing inbound calls to schools are recorded from the beginning of the call, even when threat or harassment occurs in the middle of a call.</p> <p>School administrators can easily mark, notate and download recorded threatening calls, via a web interface</p> <p>Downloaded recorded conversations can then be distributed via email to the appropriate recipients.</p>	<ul style="list-style-type: none"> <li>▶ Always-On Call Recording</li> <li>▶ On-Demand Call Recording</li> <li>▶ Call Marker</li> <li>▶ Book Mark</li> </ul>

Need	Solution	IPcelerate Solutions
Visually monitor and document illegal, disruptive or physically threatening student incidents	<p>Activate Video Surveillance cameras based on manual and automatic threshold triggers (intruders, smoking, fighting, theft, etc.)</p> <p>Prevent incidents by monitoring “trouble spots” and planning for potentially volatile events</p>	<ul style="list-style-type: none"> <li>▶ IP Video Surveillance</li> <li>▶ Situational Awareness</li> </ul>
<p>Maintain situational awareness of facility status (e.g. doors and windows) and smoke alarms</p> <p>Protect the schools high-value assets</p>	<p>RFID sensors integrated with existing environmental control systems give you the ability to notify School officials by automatically paging Cisco IP phones and other communications devices when a specific event occurs. The following is a list of RFID sensors and environmental controls systems:</p> <ul style="list-style-type: none"> <li>• Window breaker/Door sensors for unauthorized entry/exit</li> <li>• Cigarette buster sensor for student smoking prevention</li> <li>• Temperature sensors (food preservation &amp; equipment rooms)</li> <li>• Moisture sensors for bathroom flooding</li> <li>• Fire alarm/Security access control system integration</li> </ul> <p>RFID tags are placed on valuable equipment and property that triggers an alarm if those assets are being removed without authorization. Furthermore, RFID tags can be placed on valuable assets to simplify inventory management.</p>	<ul style="list-style-type: none"> <li>▶ Situational Awareness</li> <li>▶ RFID Sensor Devices</li> <li>▶ Paging                             <ul style="list-style-type: none"> <li>▶ Text-to-speech</li> <li>▶ Text</li> <li>▶ Audio</li> </ul> </li> </ul>
Enable effective, flexible, and efficient communication mechanisms for teachers, principals and staff	<p>Deliver Text, Text to Speech (TTS) &amp; Audio messages to Cisco IP Phones in a single classroom, multiple classrooms, grade level, school campus or the entire school district</p> <p>Easily pre-record messages, through a Cisco IP Phone or on the Web, for later delivery.</p> <p>Provide greater confidentiality, as you can send messages to individuals, rather than broadcasting to the entire school or disrupting classrooms.</p> <p>Do-Not-Disturb can be scheduled based on classroom timetable.</p> <p>Establish pre-configured conference bridges in response to system or personal activation triggers</p> <p>Provide teachers with customized alerts (visual or audio), prior to class completion – never be ‘surprised by the bell’ again</p> <p>Use the intercom function to communicate with other personnel whether they are on the phone or not.</p>	<ul style="list-style-type: none"> <li>▶ Paging</li> <li>▶ Intercom</li> <li>▶ Intercom Whisper</li> <li>▶ Intercom Text Reply</li> <li>▶ Do-Not-Disturb</li> <li>▶ Pre-programmed conference</li> <li>▶ IP Speakers</li> </ul>
Enhance, automate and centrally manage school bell scheduling systems	<p>Customize bell scheduling by grade or school ‘section’. Establish zones within the school that designate which classes or sections should receive specific bells.</p> <p>School administrators are able to control an entire school district’s bell system, easily change or update the schedule throughout the year based on holidays, special school events and final exams.</p> <p>Bell tones can be customized to boost student morale to play mascot tones, school alma maters and school fight songs on Cisco IP Phone, IP speakers and analog overhead paging systems.</p>	<ul style="list-style-type: none"> <li>▶ Paging                             <ul style="list-style-type: none"> <li>▶ Pre-scheduled bells</li> <li>▶ Pre-recorded audio</li> <li>▶ Text-to-speech</li> </ul> </li> <li>▶ IP Speakers</li> </ul>

**MORE Information**

For more information about the IPcelerate K-12 Education Solution, visit [www.ipcelerate.com](http://www.ipcelerate.com) or contact your IPcelerate or IPcelerate Partner Sales Associate.

## IPcelerate K-12 Education Solution

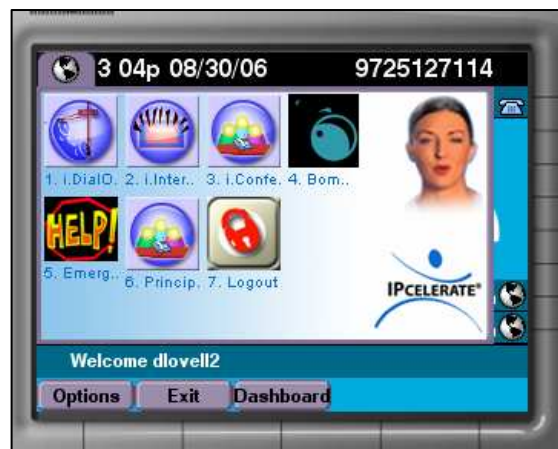
IPcelerate provides numerous VoIP capabilities, features and applications within a Cisco Unified Communication environment. In order to address the specific needs of K-12 Schools, the IPcelerate K-12 Education Solution includes IPcelerate products and applications that just need to be configured; no custom development, everything included. The following is a list of products and a description of the features and applications included in the K-12 Education Solution:

### IPsession 2500 Application Server

IPsession allows you to maximize your investment in Cisco IP Communications. With 32 embedded VoIP applications, IPsession gives you the flexibility to ensure you are getting the most out of your investment in Cisco IP Communications.

IPsession Application Server provides the following features for this solution:

- ▶ Pre-Programmed Conference
- ▶ Internal 911 Alert Notification
- ▶ Location Enforcer
- ▶ RFID device registration and configuration
- ▶ Intercom
- ▶ Whisper Page/Intercom
- ▶ Dial Out
- ▶ Paging (Text, Text-to-Speech, Audio, Pre-scheduled, Pre-recorded)
- ▶ IP Phone Education Dashboard



**IP Phone Education Dashboard**

### IPstudio R10 Master Recording Server G711

IPstudio is an add-on to IPsession that provides call recording in a Cisco IP Communications environment. Use IPstudio to record bomb threat and harassing phone calls and verify conversation details.

Included with this bundle, IPstudio (call recording) server provides the following features for this solution bundle:

- ▶ On-Demand Recording
- ▶ Always-On Recording
- ▶ Call Marker
- ▶ Book Mark
- ▶ Play, download and distribute recorded calls

### IP Video Surveillance Server

IP Video Surveillance is an add-on application server to IPsession and is used to record and monitor video sessions in an organization's IP network. IP Video Surveillance leverages the IPsession single interface to the Cisco Unified CallManager and works with IPsession to receive alert notification and alert detail information about the situations that are relevant to an organization.

Included with this bundle, IP Video Surveillance provides the following features for this solution bundle:

- ▶ Triggered Video Recording
- ▶ Floor plan to camera association
- ▶ Single camera or multiple matrix camera view
- ▶ Integrated alert capability



**Camera Matrix View**