



SCHOOL SYSTEM WHITEPAPER

THE PROBLEM

Schools require a comprehensive communication system which provides safety and security to all individuals within the school – allowing staff to focus on teaching, and students on learning. Reception administration are often faced with obstacles while broadcasting announcements, whether live or pre-recorded. A common issue that occurs is bells ringing during school holidays and weekends. With larger campuses, ensuring audio coverage across the site is sometimes difficult to manage, especially with wide outdoor areas.

From behaviour management, to uninvited trespassers, or extreme emergencies – school staff are always required to be prepared and responsive. When faced with a security breach, information needs to be communicated clearly, efficiently, and effectively with little room for errors. Daily seamless communication for an entire campus is imperative, especially when school staff are responsible for all their students during school hours.

OUR SOLUTION

An integrated communication system featuring IP intercom, public address (PA) and a school bell system with suitable options for primary, secondary and multi-campus schools. The key element of a Jacques system is inbuilt scalability and integration. This means your system can grow with your school by simply adding devices and features as your school expands.

Dynamic selection of PA zones across a school’s network with flexible message distribution, provides more control over select areas of a school. Each of Jacques school system packages include Jacques Announcement Scheduler (JAS). This software was developed by Jacques primarily for the school market, featuring a flexible calendar-based scheduler.

By installing a Jacques School IP Communication System, reception administration can easily manage live/pre-recorded PA announcements, bell schedules, intercom calls, remote gate and door access – all from one location. Emergency evacuation panels provide a quick solution to alert the entire school during the unlikely event of an emergency or lockdown.

A comprehensive communication system which provides safety and security to all individuals within the school

SMALL SCHOOLS

In the application of small schools, we would either upgrade a school’s setup by using their existing speaker hardware or provide a (new) full IP system. By adding a Jacques system, a school is investing in a scalable, flexible solution. Ensuring a future proof installation that can grow with your school – should an expansion occur. The PC master station provides school administration with complete management of the school’s communication with a visual representation of the campus. This includes school zones, device state, and complete PA and endpoint functionality. One of the core requirements of any school is a user-friendly dissemination of bell schedules and announcements – this can be achieved with JAS – our simple, user-friendly interface to make scheduling changes on the go.

For smaller schools on a budget, Jacques UAI module works as a PA zone controller. These can be positioned at each building with existing speaker hardware, or outdoor areas. Bell scheduling ensures bells will ring only at the specified times on the specific days. This allows reception staff to direct their attention to more vital operations rather than manage operations of bells and announcements.

MEDIUM-LARGE SCHOOLS

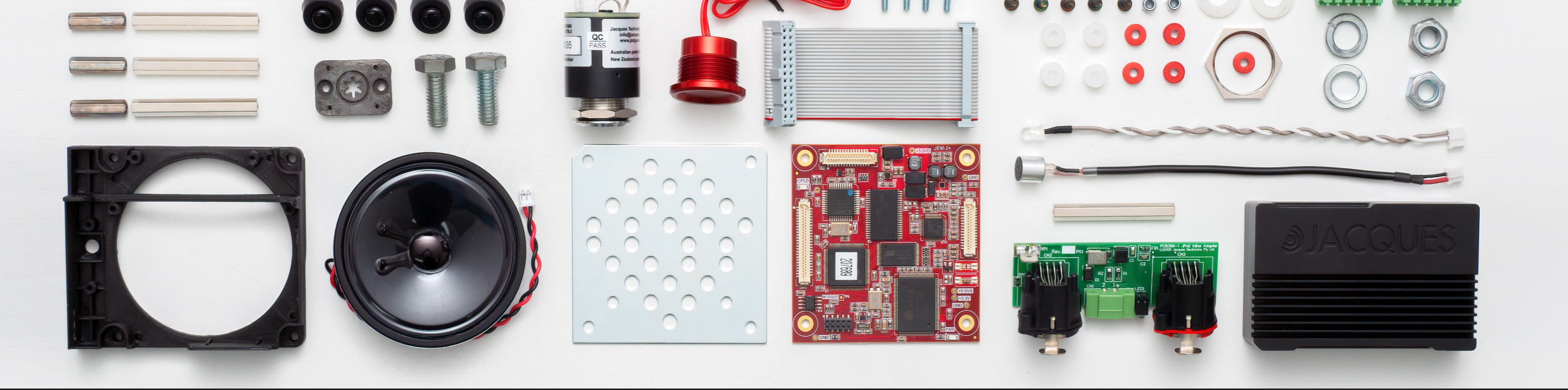
Larger schools require a more complex system that is integrated with other communication systems such as SIP, access control, CCTV and more. Moreover, larger campuses could include more facilities such as multiple buildings with numerous entry points, sports ovals, gymnasiums, and large social areas.

With the ability to load custom maps and sub maps on Jacques PC master station, school administration teams can easily manage the communication of a large system. Entrance intercom stations allows reception administration to answer visitor calls and remotely unlock doors and gates via the PC master station. For more restricted areas, entrance stations may provide access to the area once a pin number is entered. Alternatively, integration with third party CCTV and card swipe access control is also available.

Jacques IP smart ceiling speakers are the ideal classroom speakers with tamper detection and device removal notification, with an easy plug and play setup. It also features an inbuilt microphone with threshold alarm monitoring. When classroom noise levels exceed a predefined point, a notification will be triggered on the PC master station, alerting the school administration. As these speakers are IP based, the PC master is alerted when any fault occurs allowing schools to direct the appropriate attention to that specific device.

In extreme situations, where a school is required to go into lockdown mode, school staff have the ability to communicate the lockdown to the entire school in an easy and efficient manner while also keeping maintaining a calm emergency protocol. Emergency messages can be triggered from a PC master station or from emergency evacuation panels with trigger buttons for the alarms.





SCHOOL SYSTEM CASE STUDIES

Private college, Victoria

A Melbourne college contacted Jacques with the requirement of a PA system upgrade back in 2015. The college had three separate schools, consisting primary, secondary and senior schools (prep up to grade 12) all on one campus. This college sums up the benefits of installing a scalable Jacques school system, starting out with a small school system and expanding into a comprehensive school system with full IP speakers, an emergency evacuation system, graphical user interface with custom maps.

The college required a flexible system with the ability to connect to other buildings on the campus (in preparation for an expansion). The initial requirement was 3 PA zones, for which Jacques provided 3 UAI-3B1 (PA zone controller) modules connected to 3 separate groups of speakers. Jacques Announcement Scheduler (JAS) made it easy to manage PA announcements and bell schedules across the school site.

Later in 2018, Jacques successfully installed 25 IP smart ceiling speakers (SCS-150+) as part of the school expansion. Installing IP speakers provided the school administration with more control over communication to each classroom, tamper detection and device removal notifications. Moreover, with the built-in microphone featured in these speakers, classroom noise level monitoring was achieved. The college expansion included specialist facilities such as a music centre, performing arts auditorium, a chapel, as well as computer laboratories, technology facilities, wetlands, and a mini farm – all of which were equipped with audio coverage using the Jacques system.

In 2020, a further 40 IP ceiling speakers were installed along with a PC master station (PCC-650WTS) which allowed the school to upload custom maps of the schools with complete control over PA and endpoints. An emergency evacuation panel was also installed for emergency alarm management.

Private college, QLD

A K-12 private school on the Gold Coast approached Jacques for a school bell system that offers a lock down that is easy to setup and use. The school required 4 PA zones across the campus that comprised junior and senior schools, a separate sports precinct, and performing arts centre.

Jacques successfully installed 50+ analogue speakers with 5 UAI-3B1 modules, 30+ IP smart ceiling speakers along with 16 horn speakers for outdoor areas at this school. For an emergency lockdown system, Jacques 4 button emergency panels (PBP-044) were installed. With the PC master station, emergency messaging for lockdown purposes can be distributed from a central location.

The school required 2 separate paging stations for the campus, the IPM-360G and Jacques PC master station were used. The PC master was setup for a central control of the site's communication system. It also allowed school staff to have a visual representation of the school zones, devices and device states.

This school also required intercom terminals for gate access and entry points, for which Jacques supplied intercom terminals.

Private school, QLD

A primary school on the Sunshine Coast required a full IP PA communication system. Jacques installed 16 IP smart ceiling speakers across this school. By selecting the IP speaker range ensured the school was able to call each individual classroom (if required), and monitor the activity thus ensuring a safe learning environment.

For outdoor areas, the school wanted to use their existing amplifiers and horn speakers. By using Jacques UAI-3B1 modules, the school was able to convert the outdoor spaces into an IP system. The use of horn speakers for outdoor areas is preferred, this is to ensure the sound waves are amplified in large open spaces such as playgrounds and ovals.

With recent tragedies unravelling in the world, schools must be prepared for emergencies and security breaches. Jacques installed a two-button evacuation panel PBP-052 at this site, allowing for immediate communication at the bush of a button.

Private college, Burleigh QLD

A private collage located in Queensland - Australia implemented Jacques school solution to efficiently manage bell scheduling, public address announcements as well as oversee the overall communication of the campus. The college have selected Jacques touchscreen PC master station to enable school administration to easily manage all devices within the school using the map view of the premises in a graphical user interface.

Jacques successfully installed 24 PA zones as well as over 100 vandal resistant intercoms throughout the school. With a state-of-the-art library, 25-meter pool, large athletic field, 2 outdoor basketball courts, 2 outdoor astro-turf sand tennis courts, 2 soccer fields, 2 rugby fields, and a handful of buildings – this school is now able to successfully manage the safety of all students and teachers with immediate communication to all facets of this college at the simple push of a button.

Private college, Toowoomba QLD

This private college in Toowoomba required a communication solution to suit two different bell schedules – primary and secondary school – as well as a comprehensive public address solution of the entire campus. The all boy's school consisted of students from prep to year 12 with a total of 1,085 students enrolled at any given time.

Jacques implemented an IP audio master station with a handset (IPM-360H) to manage 10 PA zones, 2 LED message displays, as well as one vandal resistant intercom. School administration were able to easily make announcements to one or all PA zones via the master station. Administration staff were also able to display messages on the LED message boards throughout the school.

Private college, Brisbane QLD

A Brisbane-based college with two separate campuses from primary and secondary required a communication solution that would easily manage the campus communication system. This college has a capped enrolment limit of 1,000 students, encompassing a large multi-purpose centre, creative arts precincts, indoor and outdoor sports facilities, as well as multiple buildings consisting of classrooms.

The school required a PA system of 16 zones with LED message displays. Jacques successfully implemented the 16 PA zones with an audio master station (IPM-360). The college only required one bell schedule, with Jacques easy-to-use announcement scheduler (JAS) the school administration no longer required to manually ensure each bell rings at the beginning and end of each period. The entire campus is contactable through a simple push of a button on the audio master station.

Project References

- ACS International School, Doha (QA)
- Aitken College (AU)
- Ambrose Treacy College (AU)
- Anglican Church Grammar School, Churchie (AU)
- Aranmore Catholic College (AU)
- Auckland University (NZ)
- Bohlevale State School (AU)
- Brigidine College (AU)
- Brisbane State High School (AU)
- Bundaberg Christian College (AU)
- Catholic Education, Diocese of Rockhampton (AU)
- Catholic Regional College Melton (AU)
- Cedar College (AU)
- Claremont College (AU)
- Curtin University (AU)
- Eileen O’Connor Catholic College (AU)
- Garden College (AU)
- Good Shepherd Catholic Primary School (AU)
- Griffith University (AU)
- Hambledon State School (AU)
- Hillbrook Anglican School (AU)
- Immanuel Lutheran College (AU)
- Inner City North State School (AU)
- Jacana School for Autism (AU)
- Mackillop Catholic College (AU)
- Macquarie University (AU)
- Malek Fahd Islamic School (AU)
- Mary MacKillop Catholic College (AU)
- Marymount College (AU)
- McAuley College, Beaudesert (AU)
- Melbourne Grammar School (AU)
- New Farm State School (AU)
- OLSH Thamarrurr Catholic College
- Oxley Christian College (AU)
- Raffles College (AU)
- Robert Townson High School (AU)
- Saint Ignatius’ College (AU)
- Shalom Christian College (AU)
- Somerset College (AU)
- Southern Cross University (AU)
- Springfield Anglican College (AU)
- St Andrew Lutheran College (AU)
- St Columbia Anglican School (AU)
- St Emilies Catholic Primary School (AU)
- St Finbarr’s Catholic Primary School (AU)
- St Joseph’s Catholic Primary School (AU)
- St Raphael’s Catholic School (AU)
- Stuartholme School (AU)
- Sydney University (AU)
- Toowoomba Grammar School (AU)
- Yandelora School (AU)



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