

Case Study: Education

K.T. COMMUNICATIONS connects staff and students alike with innovative communication technologies.



Beech Hill College
Monaghan

Case Study: Beech Hill College, Co. Monaghan

Beech Hill College is a non-denominational, co-educational, democratically administered second level College under County Monaghan Vocational Education Committee.

Beech Hill College is a much valued customer of K.T. Communications, with a relationship now spanning over 15 years. In this time they have consistently updated their communications and technology equipment to keep up with the times. We are proud to say that this college has incorporated all of our products and services into their daily life, including our phone systems, video conferencing, digital signage and much more..



Co. Monaghan
Vocational Education
Committee





Panasonic KX-TDA200 system

Customer requirements:

In 2010 Beech Hill College approached K.T. Communications with the view of upgrading their telephone system and incorporating our new available technologies to improve communications within the school. Previously in 2001 K.T. Communications had supplied and installed a telephone system in Beech Hill College which was still in use. This is a testament to our future proof systems as the school did not need to upgrade their system in nine years.

The main requirements which Beech Hill College had were as follows:

1. Upgrade telephone system and incorporate a DECT cordless telephone system for members of staff who needed to be mobile.
2. Relay instant messages to staff and students via digital signage screens in both corridors and staff rooms.
3. Interest in voice and video conferencing equipment.

Solution provided by K.T. Communications

K.T. Communications worked extensively with Beech Hill College at the consultation stage in order to compile an exact specification of the equipment required to match the requirements of the school. The equipment that was selected and installed includes the following;

- Panasonic TDE-200 system using IP extensions and standard extensions.
- Panasonic DECT system
- Voicemail & auto-attendant with e-mail integration
- Ringmaster Call Management software
- Dual-SIM GSM gateway
- Polycom voice conference unit
- Lifesize video conference unit
- Onelan digital signage system with 42" HD monitors



Panasonic DECT system



For further details
Call: +353 47 30088
E-mail: sales@ktcomms.ie
Visit: www.ktcomms.ie

Newgrove Business Park, Ballinode Road,
Monaghan, Co. Monaghan, Ireland.
T: +353 47 30088 F: +353 47 30089
E: sales@ktcomms.ie www.ktcomms.ie



K.T. Communications was chosen as the preferred supplier of the school's required communications upgrade. The system was installed in March 2010 and full training was given to all necessary members of staff.

Details of equipment and their effectiveness for Beech Hill College

1. Panasonic TDE-200 system using IP extensions and standard extensions

The Panasonic KX-TDE-200 IP PBX system is an advanced communications platform for IP networking environments, supporting SIP connectivity for desktops and networks. The system supports a range of advanced IP telephones, as well as the standard digital & analogue extensions together with ISDN and GSM trunks. It has allowed Beech Hill College to have over 60 extensions in total.

2. Panasonic DECT system

Panasonic DECT mobile wireless handsets coupled with the Panasonic KX-TDE-200 system offers the ideal mobile communications solution. The Panasonic DECT system keeps certain members of staff in constant touch with colleagues and does not restrict them to a desk phone.

3. Voicemail & auto-attendant with e-mail integration

Voicemail with e-mail Integration allows the caller to leave a voicemail message when the reception/office is unavailable and automatically sends an e-mail to the relevant person with the attached voicemail message. This greatly reduces the number of missed calls which can often fall through the net.



.WAV voicemail notifications
via e-mail integration



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Polycom voice
conferencing unit

Another feature which Beech Hill College have included in their system is auto-attendant. This automates the management of everyday call-handling by allowing callers to be automatically transferred to an extension without the intervention of an operator or receptionist.

4. Ringmaster Call Management software

Ringmaster is a highly flexible & reliable call management system. Ringmaster records call data from your telephone system and with its built in selection of reports and graphs gives you all the information necessary to completely evaluate your telecommunication usage, reduce overall telecommunication spent and allocate costs accurately.

5. Dual-SIM GSM gateway

This device provided a link between the system and the GSM mobile network. Calls can be channeled through this unit to give the cost effectiveness of mobile to mobile rates.

6. Polycom voice conferencing unit

The Polycom voice conferencing unit sets a new standard for everyday business conferencing. It has remarkable voice quality, smart technology - such as dynamic noise reduction, and also a traditional telephone. Having such a unit has allowed Beech Hill College to conduct numerous multiple person conversations since its installation.

7. LifeSize video conferencing unit

LifeSize video conferencing allows the school to widen its horizons and to do more while traveling less. The system that Beech Hill College have installed provides them with a gateway into the world. Recently, the school has used the system to connect with the European Space Agency and have a Q&A session with Europe's No. 1 astronaut as part of their science week.



LifeSize video
conferencing unit



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8. Digital Signage

Beech Hill College opted to install a Onelan digital signage system into the school. There are two monitors in total, one is solely for staff and the other is for students. The system can play out scrolling text, images, video, html and RSS feeds and much more. A bespoke design was prepared and incorporated into the signage allowing the following; RTE news scroller, images from school events, message board and exam timetables. K.T. Communications provided selected staff members with full training on how to update the system, which is done regularly and thus keeps students and staff up to date with the schools notifications.



42" NEC Monitor



Pic left:
Digital signage installed
in Beech Hill College

The result:

The various systems installed by K.T. Communications have not only served their initial purpose for Beech Hill College but also provides them with a future proof system. The particular systems installed have the ability to allow the school to grow its ICT sector without the need to upgrade for many, many years. As a result of the work completed by K.T. Communications, Beech Hill College is now recognised as having one of the most advanced ICT infrastructures in Ireland.



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Onelan digital signage systems