

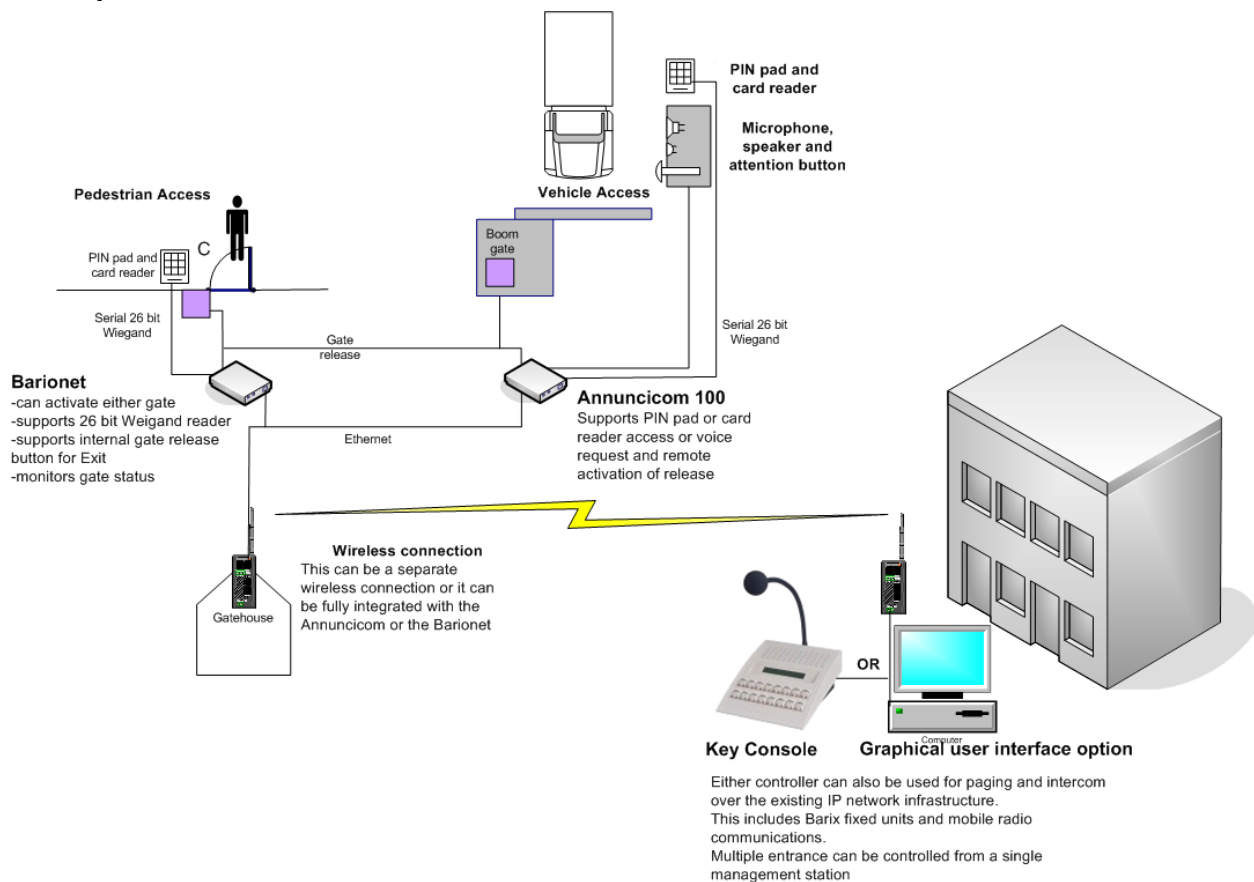
Barix GateControl

The Barix GateControl is designed as a flexible physical access monitoring and management system for entrances. These may be a single entrance to a facility or multiple entrances to car parking centres or campuses. The system incorporates both wired and wireless connectivity over a TCP/IP network.

The entrance station can operate on PIN keypad, card reader or intercom with remote gate release. This can be controlled from a keystation console, a graphical user interface on a fixed computer, a laptop or a PDA. There is also the option to control access from a mobile radio.

Barix GateControl can also integrate readily with Voice over IP (VOIP) telephone systems using the SIP protocol.

Example



In this example the pedestrian access is controlled by a Barionet and offers access via PIN pad or card reader. The vehicle entry offers PIN pad, card reader and intercom to a master station, mobile phone or a radio. If the campus also has network wireless capability then a laptop or PDA could also be used.

Pedestrian Entry and Exit – PIN or Card

Uses the Barix Barionet

- The entrance is automatically locked when closed.
- The system manager provides a PIN code on a secure server or the GateControl to authorise access.
- The system checks the PIN/password file every 10 mins and downloads the codes and the amount of time that they are authorised for
- The authorised user is issued with the PIN code and enters it on the keypad or swipes the corresponding card when they wish to gain access
- When the correct code is entered the entrance is unlocked
- Controlled access is available to multiple entries such as a vehicle and a pedestrian gate.
- When the system senses all gates are closed it will relock automatically
- One time password codes are then deleted and the action is logged
- If an entrance is opened without the entry of the authorisation code an alert will be issued to the auto-dialler and an audible alarm will be activated.

Car Park Entry and Exit –Audio plus PIN or Card

Uses the Barix Annunicom 100 or Annunicom 1000

- The entrance is automatically locked when closed.

Pre-authorised PIN or Card Entry

- The system manager provides a PIN code on a secure server or the GateControl to authorise access.
- The system checks the PIN/password file every 10 mins and downloads the codes and the amount of time that they are authorised for
- The authorised user is issued with the PIN code and enters it on the keypad or swipes the corresponding card when they wish to gain access
- When the correct code is entered the entrance is unlocked
- One time password codes are then deleted and the action is logged

Audio response Entry

- The user presses the access button at the entrance
- The access request is alerted at each management console
- A manager answers the request and a full duplex conversation is commenced.
- This conversation is logged.
- The manager activates the door release via the console (virtual or physical) and the entrance is opened.

Or if the night manager is only available by mobile phone or radio

- The access request call is relayed to the mobile radio network or a call is initiated to the night controller's mobile phone using the Barix Voice Alert (see below).
- The call is answered and the gate release is activated if the person is authorised to gain access or to exit. This can be done by the entry of a code on the phone keypad or the activation of a button on the radio.

Multiple gate control

- Controlled access is available to multiple entries such as a vehicle and a pedestrian gate.
- When the system senses all gates are closed it will relock automatically
- One time password codes are deleted and the action is logged
- If an entrance is opened without the entry of the authorisation code an alert will be issued to the auto-dialler and an audible alarm will be activated.

Barix Voice Alert

When a system is being managed by a mobile phone or radio it is vital that there is certainty that an authorised person received the request.

The Barix Voice Alert ensures that a responsible individual receives the alert. When a request is received the Barix Voice Alert determines which numbers are to be called and in what timing and sequence. It then commences to dial the set of responsible individuals who are nominated and authorised to receive the call. This can be a fixed or a mobile call.

If a telephone call is answered then the Barix Voice Alert requests the entry of a PIN code. This ensures that an authorised individual has in fact answered the phone and is able to accept the message. This precludes the potential for a phone to be answered by a third party or a child who may not pass on the message to the authorised individual. If a successful PIN code is entered then an alert specific message is transmitted. Otherwise the BVA continues with the predetermined call cycle until such time as a valid PIN is entered. A log of all calls made is maintained for audit purpose.

The person requesting access will be able to speak directly with the manager who can activate a gate release using the DTMF tones generated by the telephone keypad. The same applies for a mobile radio.

Software resources for Integrators

The Barix GateControl system offers source code resources for both operation and browser interface management functions to qualified integrators. This allows an integrator to customise their use of the system and to integrate other functionality.

Routines (documented - including connection diagrams)

- Wiegand card reader or PIN pad attached to an X8
- Enrolment of multiple IDs
- Generation of multiple log entries
- Access Security to enrolment process and log files
- Read tamper sensor on X8
- Activate relay 1
- Activate relay 2
- Activate relays on additional R6s
- Entry strike management (strike open/closed (ie gate locked, gate open, gate closed)
- Sense gate access request button and sound alert
- Sense a gate exit request button and open the gate (both GateControl and X8)

These routines are consistent in terms of variable names etc

A substantial source code implementation comprising:

- GateControl with an attached Wiegand reader plus two X8s each with a reader attached.
- Door control on the GateControl and an X8
- Generation of access lists and log entries

is provided. This will give context to the routines and will provide an operational basis for testing any modifications.