

Avaya one-X™ Quick Edition

Adding a Door Phone and Overhead Paging

This application note explains how to add a door phone and paging amplifier to the Avaya one-X Quick Edition system.

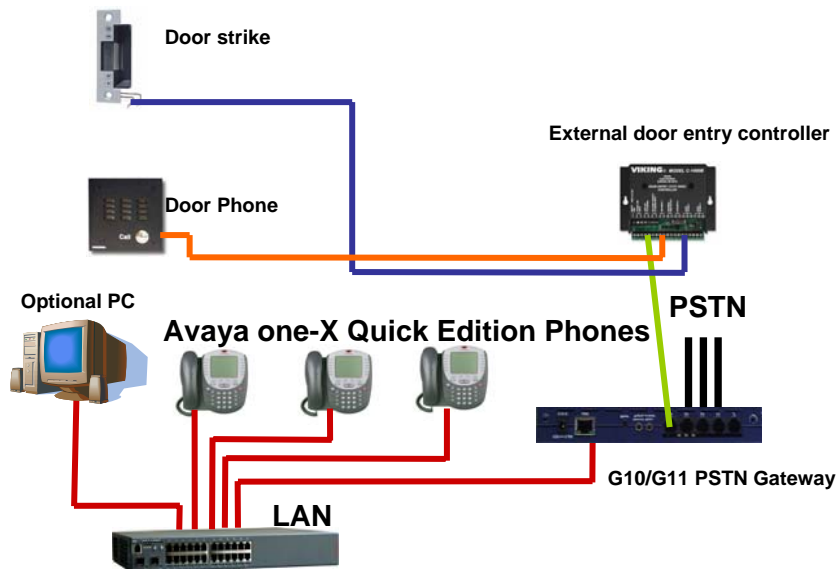
This application note will not discuss the different settings and dip switch configuration required on the door entry controller or paging amplifier since they are vendor-specific. Please note that Viking Electronics equipment is illustrated in this application note as an example only.

Adding a door phone

Many businesses require a door phone to be used in conjunction with their telephone system. This provides security via two-way communication from a door or gate. It also provides the ability to remotely open a door or gate.

Requirements for adding a door phone to the Avaya one-X Quick Edition system:

- An analog PSTN gateway (G10 or G11) with an unused FXO port
- Have at least one Avaya one-X Quick Edition telephone to answer the door phone call
- A compatible door entry controller (must allow the line-in to connect to an analog PABX/KSU station port)
- A compatible door phone (must work with the door entry controller)
- A compatible door strike (only needed if remotely opening door/gate is a requirement. Must work with the door entry controller and the door entry controller must support DTMF detection).
- A PC to access the Avaya one-X Quick Edition system.
- Appropriate wiring



Configuring the Avaya one-X Quick Edition system to ring the desired answer point for the door phone:

1. Identify which gateway (G10 or G11 – not needed in single gateway setup) has been wired up to the door entry controller and identify the PSTN port number (1, 2, 3 or 4) used for this application.
2. Determine which QE phone(s) you wish to ring when the door phone button is pressed.
If you wish to ring a group of phones, you need to create a ring group if one is not already created. Detailed information can be obtained in the “Creating and Managing Telephone Groups” section of the “Avaya one-X Quick Edition System Administration Guide” available on <http://support.avaya.com/quickedition>
3. Access the “Lines” configuration tab of the gateway identified in step 1.
4. Configure the incoming line configuration of the PSTN line number identified in step 1 to ring the desired extension or ring group.
5. Configure the loop length of the PSTN line identified in step 1 to “Short”.
6. Test the call flow to verify the setup works. If a door strike has also been implemented, test it as well.

Call flow:

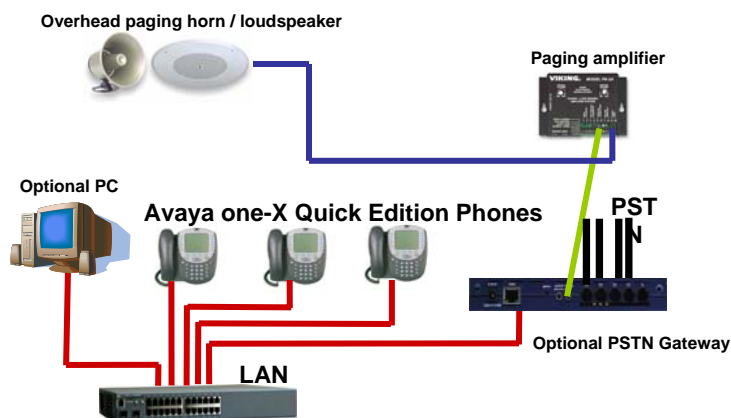
1. The doorbox button rings the door entry controller.
2. The door entry controller forwards that call to a PSTN port of the G10/G11.
3. The G10/G11 port is configured as a DIL (Direct Inward Line) to the designated telephone or ring group. This designated answer point will ring (no CLID is given so “Unknown” is displayed).
4. The answer point answers and presses a key on their phone to remotely open the door (if this has been implemented).

Adding an External Paging Amplifier

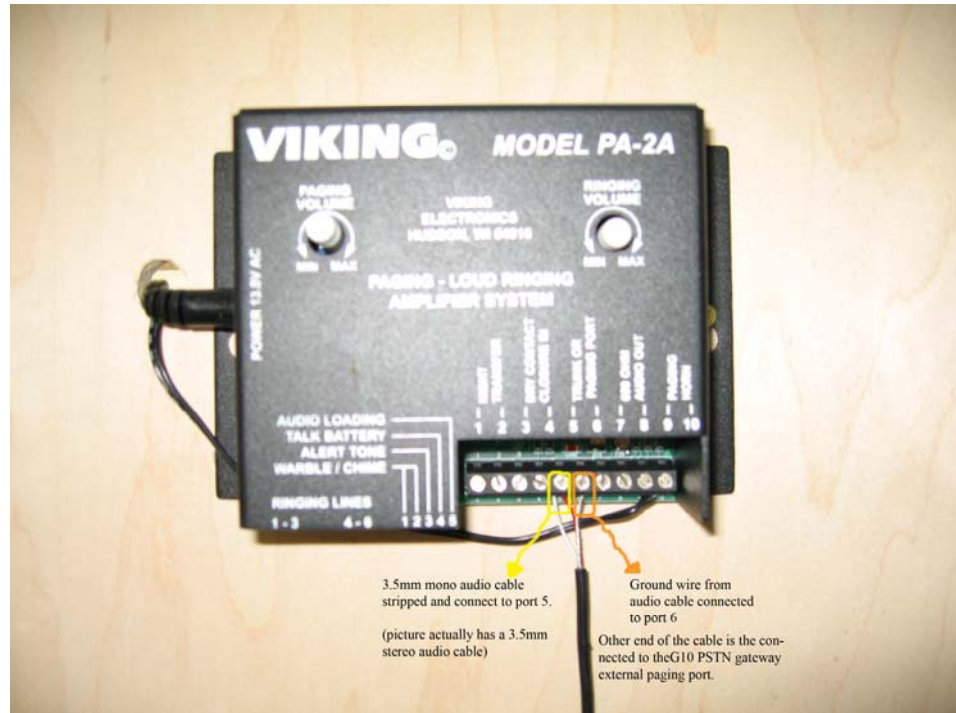
Many businesses require an external paging amplifier to allow their telephone system’s paging feature to page an overhead speaker.

Requirements for adding an external paging amplifier to the Avaya one-X Quick Edition system:

- An analog PSTN gateway (G10 or G11) with an unused paging port
- Have at least one Avaya one-X Quick Edition telephone to initiate the page
- A compatible external paging amplifier
- A compatible overhead speaker (must work with the external paging amplifier)
- A 3.5mm mono audio jack cable
- A wire stripper
- Appropriate wiring



The wiring example below uses the Viking Electronics PA-2A. The original wire is simply a 3.5mm audio jack connection. One end is directly connected to the paging port of the G10/G11, the other end is stripped and wired appropriately. Notice the ground wire is also included in the wiring. A 60Hz hum can occur without earth grounding.



Configuring the Avaya one-X Quick Edition system to page the overhead paging horn/speaker:

- Keep in mind that only two paging zones page the external paging port. Those zones are the “General Page” zone and “Paging Zone 2”.
- If you wish to have a paging zone that does not include all the phones, but includes the overhead paging zone, move the undesired phones out of paging zone 2.
- Adjust the volume of the external paging amplifier and make test pages to tune it appropriately.

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