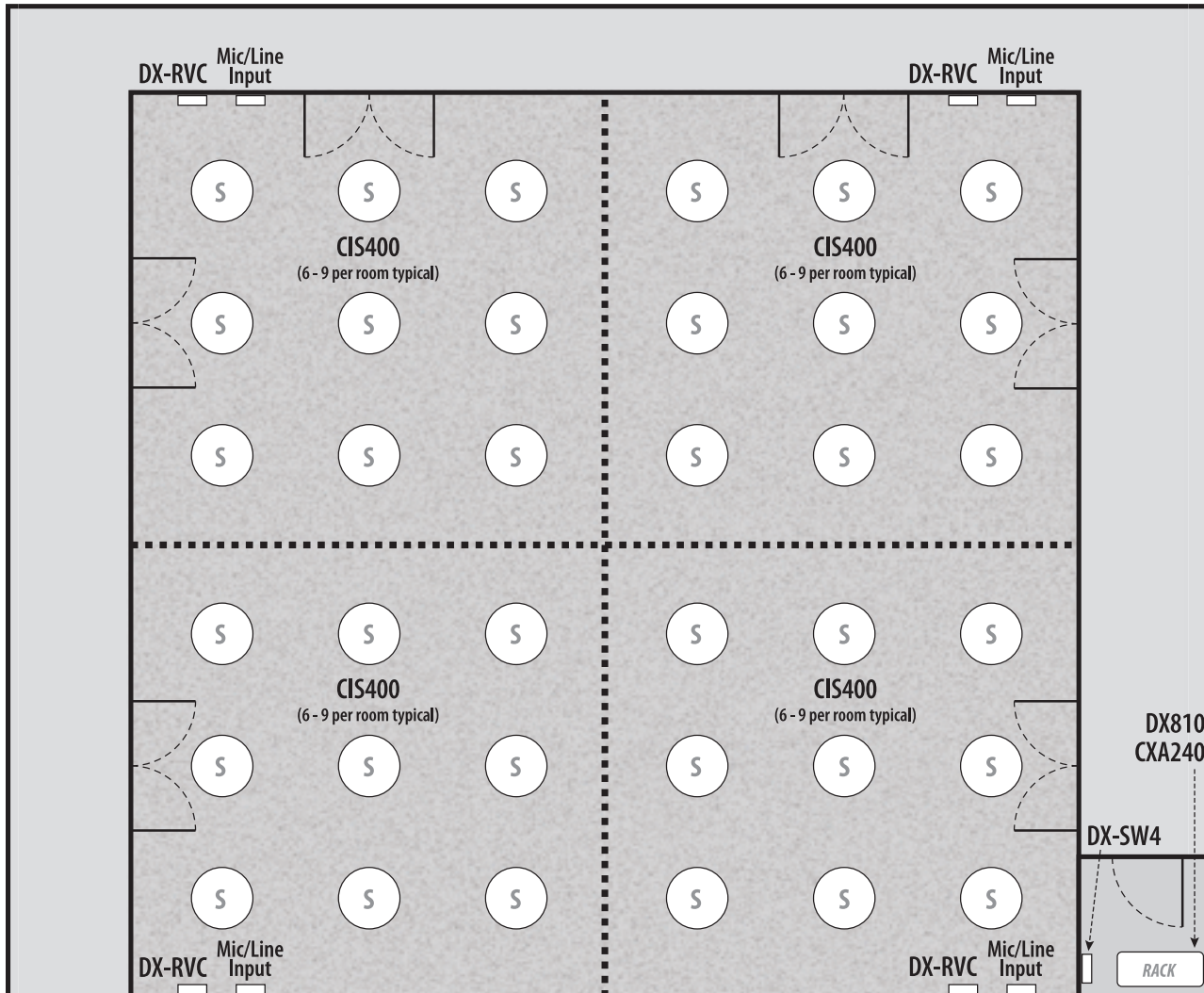


APPLICATION NOTE

4-Zone Room Combining



Typically this application involves a large space (a hotel ballroom, for instance) with multiple entrances and movable floor-to-ceiling dividers. Portable audiovisual equipment might be brought in for specific events, but the facility needs to provide basic speech and music playback for meetings, as well as emergency paging across all four rooms or any combination.

The DX810 is the right technical hub for this application, since its matrix capabilities allow any local input signal to be routed to any combination of outputs. A wall-plate in each room provides a microphone input, a line-level input and a line-level output. Each room section has a DX-RVC for local control of volume. Presets for common configurations are programmed in PC software and selected via the DX-SW4, or for larger venues via a Crestron or AMX control network.

Each room section is covered by 6 CIS400 ceiling speakers, which are powered on a 70V line by CXA240 amplifiers. This combination will give adequate coverage over a surface area of 600 – 1000 square feet, with a ceiling height of 10 – 18 feet. Using 9 ceiling speakers would extend the coverage to 900-1,600 square feet.

An equipment closet in another area of the building holds the DX810 and the CXA240 amplifiers. The DX-SW4 and/or Crestron/AMX controls could be located in one of the office areas. This restricts access to the setup functions while allowing the users of any room to adjust the volume to their own requirements.

