

NATIONAL DEFENSE UNIVERSITY EXPANDS SECURITY TO MEET FUTURE DEMANDS



NATIONAL DEFENSE
UNIVERSITY
LINCOLN HALL,
WASHINGTON, DC

National Defense University relies on security consultant's foresight and design expertise to solve migration and integration challenges for new campus building.

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Diebold Security designed and implemented a comprehensive, turnkey security system for the new Lincoln Hall building on the campus of the National Defense University. The solution included a complement of electronic security systems, such as advanced card readers, and their integration into a custom console and security monitoring center. Diebold was the only government-approved vendor with the technical know-how and breadth of products to meet the complex needs and budgetary requirements of the project.

National Defense University (NDU), situated within Fort McNair in Washington, D.C., provides graduate-level, joint professional military education for future leaders of the armed forces, State Department and other United States government agencies. Lincoln Hall, its newest among seven campus buildings, is a 250,000 square-foot facility that houses classroom, meeting room and conference space.

Diebold was tasked with the design and layout of the electronic security solution and subsystems, and to represent the electronic aspects of the security subject matter. At the same time, Diebold was charged with keeping in line with budgets, while achieving the goals and operational needs of the security director. Diebold's familiarity with existing security systems in other campus buildings along with its consultative expertise positioned it to best address complex migration and integration issues involved in the project.



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One particular challenge Diebold solved required an understanding of how the existing and next-generation common access card (CAC-NG) credential would impact the new system. Diebold engineered the access system to ensure compatibility with current and forthcoming security card technology, including the more stringent FIPS 201 (Federal Information Processing Standards) and HSPD-12 (Homeland Security Presidential Directive) government standards in personal identity verification for federal employees and contractors. In collaboration with the manufacturer, Diebold engineered a "contactless" card technology that remotely connects with the reader's operating system communicating the new upgraded technology/information. The design solved a critical migration issue by allowing the reprogramming of the reader without removing it from the wall.

The lack of space at neighboring Marshall Hall, where the campus' central command is located, created another challenge. Typically, video surveillance from Lincoln Hall would be stored at the console in Marshall Hall, but the existing console did not have space for server and information storage. Diebold's solution was to use IP cameras combined with edge-based recording devices to allow the servers to be stored in communications closets throughout Lincoln Hall. Software was then developed to allow the video to be transmitted and viewed at the console in Marshall Hall, so even without a central location for storage, a central location for viewing and analyzing video was maintained.

To maximize the robustness, reliability and operational integrity of the network, a dedicated and redundant fiber optic ring was installed. In applications of this nature it's critical that the customer never loses the ability to view a camera. The fiber optic ring in this case provided a circular information flow that could not be interrupted if one camera lost its network connectivity.

By being involved from the design phase of this project, Diebold added value that benefited both the short- and long-term interests of NDU. Diebold specified products and derived solutions that not only addressed the immediate needs and desires of the customer, but also established a platform and migration architecture to help provide a solid return on investment and a lower cost of ownership. Ultimately, Diebold provided a cost-effective way to migrate toward the future with minimal, if any, detours. Diebold also created practical benchmark points throughout the process to stop and gauge budgetary adherence and operational requirements that were based on the customer's priorities.

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