



RETHINKING SECURITY DESIGN FOR MODERN DEMANDS WITH AUTOMATED DESIGN SERVICES (ADS)

MODEL PRECISION.
DESIGN FASTER.
BUILD BETTER.

2026



Executive Summary

Today's security landscape places growing pressure on organizations to deliver smarter, faster, and with greater accuracy. Whether you're overseeing infrastructure, managing upgrades, or planning a new facility, legacy design workflows often introduce more risk than clarity. Fragmented coordination, reactive planning, and a lack of visual documentation delay schedules, increase cost, and reduce project confidence.

4Liberty's Automated Design Services (ADS) solves these challenges. Through a fusion of Building Information Modeling (BIM), automation, and deep domain expertise, ADS helps teams design faster, align earlier, and build with precision, turning design from a bottleneck into a strategic advantage.

Defining ADS

ADS is a turnkey, BIM-enabled design service built specifically for physical and electronic security systems. It delivers install-ready documentation that is visual, precise, and actionable, supporting faster decisions and smoother implementation across projects of any scale.

Core capabilities include:

- 3D precision modeling with environmental overlays for site-specific accuracy
- Field-of-view (FOV) simulation showing real camera coverage before procurement, installation, or commissioning
- Access control schematics and infrastructure planning for pathways, power, and connectivity
- Manufacturer-grade digital twins for realistic representation of devices
- Optimized bill of materials (BOM) to support forecasting and procurement
- Interactive deliverables available in PDF and secure web viewer formats

Whether you're deploying a new site or standardizing across multiple facilities, ADS brings clarity from concept to commissioning.



Why Security Leaders Choose ADS

ADS supports decision-makers across departments—security, facilities, IT, capital planning, and compliance, by delivering faster alignment, clearer outputs, and greater project control:

- Precision modeling eliminates design ambiguity and reduces scope creep
- FOV simulation validates coverage before hardware is selected or installed
- Visual-first documentation accelerates stakeholder review and approvals
- Remote collaboration tools streamline feedback loops and reduce coordination meetings
- Fewer change orders due to first-pass accuracy and contextual design
- Audit-ready packages that align with internal and regulatory requirements
- Lowers design costs while reducing ongoing operational expenses.

ADS brings consistency and control to the design process, supporting higher performance across the project lifecycle.

Proven Results

Organizations using ADS have reported measurable improvements in both delivery and value:

- One utility reduced substation design time by 33%, achieving up to 20% total cost savings
- Portfolio-wide implementations saw 26% fewer devices installed, with improved coverage and stakeholder alignment
- Clients report faster procurement, clearer scopes, and fewer change orders when ADS is introduced early

These aren't hypothetical gains, they are field-proven outcomes from a smarter design strategy.



Tailored Design Solutions for Critical Verticals

ADS supports a wide range of industries with unique regulatory, operational, and coordination challenges. In each of these environments, ADS enhances planning, stakeholder alignment, and installation confidence through purpose-built, visual-first design documentation.

- **Utilities** – NERC-aligned documentation and perimeter modeling, substation layouts with sensor zones and reusable BIM templates, and scalable designs for capital programs and multi-site portfolios.
- **Healthcare** – HIPAA-conscious coverage of ERs, pharmacies, and sensitive zones, with visual layouts that enable remote stakeholder reviews and designs that align security with clinical workflows and compliance needs.
- **Biotech** – Cleanroom-compatible infrastructure modeling, access control planning integrated with badge systems and audit trails, and visualization packages that meet FDA and DEA documentation expectations.
- **Education** – District-wide camera coverage and egress planning, mass notification and access control integration, and grant-ready visuals that streamline board approval and funding requests.
- **Government** – SCIF/SAPF-compliant models with agency-specific requirements, unified layouts for access control, CCTV, intrusion, and command centers, digital twin-based reviews for stakeholder consensus and lifecycle planning, and solutions ideal for assets vital to national security, including restricted military airfields and entry control points.
- **Data Centers** – BIM-enabled, compliance-ready designs with zero-downtime upgrades, rack-level security, and audit-ready documentation to accelerate deployment and protect uptime.

From design consultants and facility managers to compliance officers and security directors, ADS enables smarter, faster decisions across the board.



How We Operate

ADS integrates cleanly with your existing process, no new platforms, software, or retraining required.

1. You define the opportunity, a new project, upgrade, or portfolio rollout
2. We manage modeling, simulation, and documentation using your standards
3. You receive install-ready outputs with field context, BOM alignment, and clear scopes
4. It's fast, collaborative, and built to deliver clarity, not friction.

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Scaling with Your Growth

Whether you're managing one site or dozens, ADS provides consistency, accuracy, and repeatability at scale:

- Standardized templates and workflows across regions and project types
- Design packages aligned to real-world variables like topography, hardware, and risk
- Faster stakeholder onboarding through visual packages and web viewer access
- Improved cost control and margin protection through better scope definition

ADS is more than a design service; it's an engine for scalable delivery and long-term program success.

Conclusion

In an environment where security demands are growing more complex and timelines more compressed, 4Liberty's Automated Design Services (ADS) delivers the precision, clarity, and efficiency modern projects require. By combining BIM technology, automation, and deep industry expertise, ADS transforms design from a reactive task into a strategic advantage, accelerating delivery, reducing costs, and aligning stakeholders from day one.

The result is a repeatable, scalable approach that not only meets today's security challenges but positions organizations for long-term success across any portfolio or program.



Expanding Partner Ecosystem

We are actively building partnerships with leading Architectural & Engineering affiliates and technology providers—including Hanwha, Axis, Commend, Motorola, Genetec, Milestone and many others—to ensure seamless integration, compliance, and scalability across verticals.



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Let's Connect

Discover how ADS can transform your design workflows and strengthen your delivery strategy.



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Schedule a Demo



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