



## **DCH Technology Consulting**

Independent Consulting in Audiovisual, Control, and Smart Technology Integration

### Capabilities and Services Overview

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## Table of Contents

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|     |                                                     |   |
|-----|-----------------------------------------------------|---|
| 1   | Capabilities and Services Overview                  | 3 |
| 2   | Markets Served                                      | 3 |
| 2.1 | Civic and Government                                | 3 |
| 2.2 | Justice                                             | 3 |
| 2.3 | Emergency Operations                                | 3 |
| 2.4 | Corporate and Executive                             | 3 |
| 2.5 | Education                                           | 3 |
| 2.6 | Performing Arts                                     | 3 |
| 2.7 | Production and Broadcast                            | 3 |
| 3   | Advisory and Project Services                       | 4 |
| 3.1 | Owner Advisory and Requirements Development         | 4 |
| 3.2 | Owner's Representative Services                     | 4 |
| 3.3 | Audiovisual Control and Smart Technology Consulting | 4 |
| 3.4 | Coordination with Architects and Engineers          | 4 |
| 3.5 | Guidelines and Standards Development                | 4 |
| 3.6 | Occupancy Insights and Smart Workflows              | 4 |
| 3.7 | Procurement Support                                 | 4 |
| 3.8 | Acoustics Sightlines and Equipment Integration      | 4 |
| 4   | Systems Design Capabilities                         | 5 |
| 4.1 | Network Based Audiovisual Systems                   | 5 |
| 4.2 | Broadcast and Streaming Systems                     | 5 |
| 4.3 | Recording Systems                                   | 5 |
| 4.4 | Video Conferencing Systems                          | 5 |
| 4.5 | Presentation and Display Systems                    | 5 |
| 4.6 | Performance Audio and Production Communications     | 5 |
| 5   | How We Work                                         | 5 |
| 6   | Discuss Your Project                                | 5 |

# 1 Introduction

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DCH Technology Consulting helps owners and architects define technology requirements and deliver coordinated audiovisual, control, and smart technology systems. Services range from early planning and owner advisory work to systems design, standards development, and owner's representation through project closeout.

Led by Principal Consultant Douglas Hoag, the practice brings experience with global technology companies, municipalities, court systems, educational facilities, and emergency operations environments. Recommendations are independent of manufacturer affiliations and sales incentives, with an emphasis on operational workflows, clear communication, and maintainable systems.

## 2 Markets Served

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### 2.1 Civic and Government

Council chambers, city halls, and public boardrooms, with systems for meeting management, public participation, hybrid attendance, and broadcast.

### 2.2 Justice

Courtrooms and judicial facilities, addressing digital evidence presentation, hybrid proceedings, recording, and judge and clerk operating workflows.

### 2.3 Emergency Operations

Emergency management and coordination spaces, with shared information displays and communication systems for collaboration across agencies.

### 2.4 Corporate and Executive

Boardrooms, executive engagement centers, and collaboration spaces, with coordinated presentation, conferencing, and control systems.

### 2.5 Education

Classrooms, campus meeting spaces, and learning environments, with consistent technology standards and controls informed by teaching and operational needs.

### 2.6 Performing Arts

Auditoriums and performance venues, with sound reinforcement, presentation systems, production controls, and communications between performance and backstage spaces.

### 2.7 Production and Broadcast

Multi-room production, public meeting broadcast, streaming, and recording environments, with coordinated sources, cameras, and operator controls.

## 3 Advisory and Project Services

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### 3.1 Owner Advisory and Requirements Development

Work with owners and stakeholders to define how spaces should function, identify essential requirements, and reconcile operational expectations. Document workflows and functional criteria in owner-facing narratives that establish a basis for subsequent design.

### 3.2 Owner's Representative Services

Represent the owner's technology interests from project inception through closeout. Services include design and submittal review, contractor coordination, procurement support, milestone verification, and review of delivered systems against owner requirements. For portfolio engagements, we coordinate technology deployment and review projects for consistency with owner standards.

### 3.3 Audiovisual Control and Smart Technology Consulting

Assess existing systems and help clients plan improvements based on user needs, infrastructure, budget, and operating capabilities. Evaluate opportunities to coordinate audiovisual, control, and smart building technologies around practical workflows.

### 3.4 Coordination with Architects and Engineers

Coordinate technology requirements with architecture, acoustics, electrical systems, structural provisions, and HVAC. Address equipment locations, cabling pathways, power, cooling, access, and architectural integration early in design.

### 3.5 Guidelines and Standards Development

Develop technology standards that establish room types, functional expectations, performance criteria, and documentation requirements. Support consistent design, deployment, and maintenance across new and renovated facilities.

### 3.6 Occupancy Insights and Smart Workflows

Evaluate scheduling and room-use data to inform space planning and operating decisions. Define integrations that use occupancy or scheduling information to adjust room settings and reduce unnecessary system operation.

### 3.7 Procurement Support

Help owners define technology partner qualifications, compare proposals, and establish measurable evaluation criteria. Coordinate procurement requirements with the owner's purchasing policies and applicable bidding processes.

### 3.8 Acoustics Sightlines and Equipment Integration

Coordinate with architects and acoustics consultants on sound-system requirements, display visibility, camera framing, and equipment placement. Integrate technology into the room while maintaining access for service and accommodating the architectural intent.

## 4 Systems Design Capabilities

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### 4.1 Network Based Audiovisual Systems

Design audio and video distribution across network infrastructure, coordinating routing, capacity, interoperability, and management requirements with IT. Support flexible connections and shared resources across rooms and facilities.

### 4.2 Broadcast and Streaming Systems

Design camera, routing, switching, and operator-control systems for live production and distribution. Coordinate single-room and multi-room workflows for meetings, proceedings, and events.

### 4.3 Recording Systems

Define capture, playback, indexing, and storage requirements for proceedings, meetings, and presentations. Coordinate platform selection and retention needs with owner policies and operating workflows.

### 4.4 Video Conferencing Systems

Design room audio, cameras, displays, and controls around local and remote participation. Address microphone coverage, camera tracking, laptop connectivity, and compatibility with the owner's conferencing platforms.

### 4.5 Presentation and Display Systems

Select and position projection, flat-panel, and direct-view LED systems based on content, room geometry, viewing distance, and ambient light. Plan layouts that keep information readable from the intended audience positions.

### 4.6 Performance Audio and Production Communications

Design sound reinforcement, audio mixing, wireless microphone infrastructure, and production intercom systems. Coordinate operator positions and performance and backstage connections for rehearsals, productions, and presentations.

## 5 How We Work

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Start with the people who use and operate the space. Establish workflows and requirements before selecting systems, then coordinate the design with architecture, IT, facilities, and project stakeholders. Apply relevant industry standards in the context of the project's needs and constraints, with clear documentation of decisions and responsibilities.

The level of involvement is tailored to the assignment: defining owner requirements, delivering systems design, reviewing implementation, or coordinating technology across a facility portfolio.

## 6 Discuss Your Project

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Contact Douglas Hoag to discuss a new facility, renovation, system assessment, or technology standards initiative.

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