



Architecture Brief

Overview

Commander is a **non-intrusive, web-based administrative platform** that integrates directly with Microsoft SharePoint to provide centralized governance and operational control. It functions as an **overlay management layer**, leveraging native SharePoint APIs to perform real-time administrative actions without modifying the underlying platform.

System Integration & Data Flow

Commander interacts with:

- SharePoint Site Collections, Webs, Lists, and Libraries
- SharePoint REST and server-side APIs
- Workflow engines (2010, 2013, Power Automate)

All operations are executed in real time, ensuring administrators interact with **live system data rather than replicated datasets**, preserving data integrity and eliminating synchronization risks.

Security & Access Control

Commander adheres to SharePoint's native **role-based access control (RBAC)** model. Users can only perform actions permitted by their assigned roles, ensuring:

- No privilege escalation
- Full traceability of administrative actions
- Alignment with federal security policies and Zero Trust principles

The platform supports deployment within **secured, on-premise or restricted federal environments**.

Data Handling & Compliance

Commander does not duplicate or persist sensitive SharePoint content outside the system. Instead, it executes operations directly against SharePoint data sources, ensuring:

- Data remains within governed environments
 - Reduced risk of unauthorized data exposure
 - Compliance with federal data handling requirements
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Modular & Extensible Framework

Commander supports extensibility through:

- Manifest-driven components

SharePoint Commander: Architecture Brief

- Custom modules and widgets
- Configurable UI and styling elements

This enables agencies to tailor functionality while maintaining centralized governance and control.

Workflow Integration

The platform provides unified management of:

- Legacy SharePoint workflows (2010/2013)
- Power Automate flows

This ensures operational continuity while enabling phased modernization strategies.

Scalability & Performance

Commander is designed for large-scale environments, supporting:

- High-volume lists and libraries
- Complex site hierarchies
- Enterprise-wide administrative operations

Optimized queries and bulk processing capabilities ensure efficient performance at scale.

Deployment Models

Commander supports:

- On-premises SharePoint deployments
- Enterprise environments with strict security controls
- Hybrid environments undergoing modernization

Deployment aligns with existing infrastructure and security frameworks without requiring architectural changes.