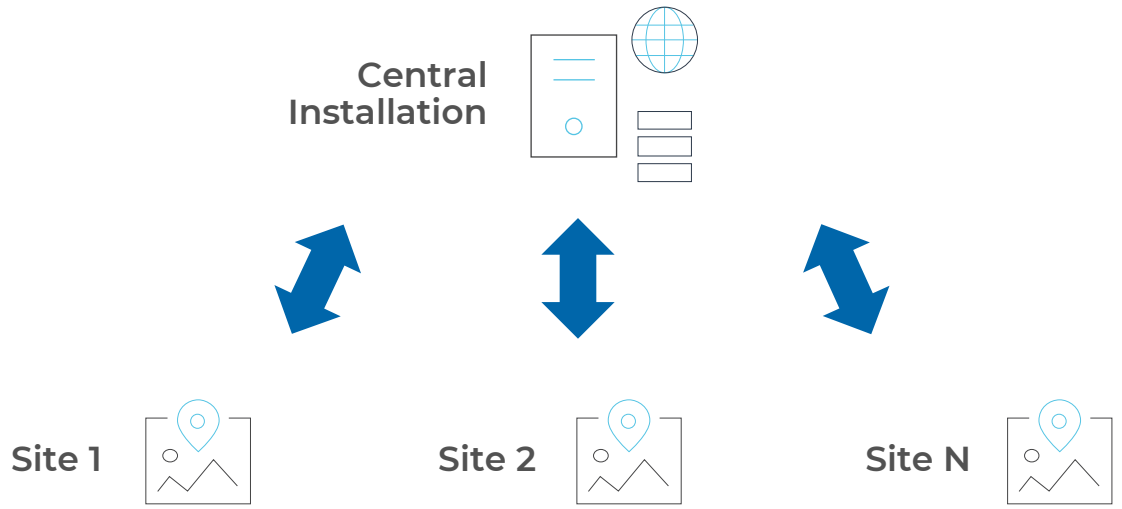
Single-Instance Multi-Site

Motivations



Shared Environment

Consolidate Hardware and System Maintenance

Pooled Licensing

Share License Elements and Concurrent Users

Standardization

Unify Updates, Upgrades and Implementation Philosophy

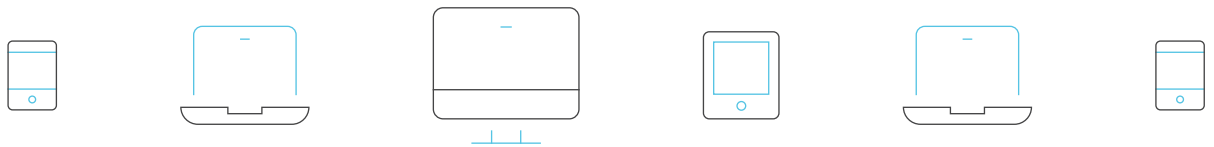
Common Content

Deploy and Maintain shared Configuration and UIs

Single-Instance Multi-Site

Site Segregation

Clients



Site 1

Equipment
Master Data
Business Rules
User Interfaces
Production Data
Users / Roles

Site 2

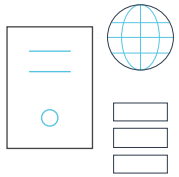
Equipment
Master Data
Business Rules
User Interfaces
Production Data
Users / Roles

Site N

Equipment
Master Data
Business Rules
User Interfaces
Production Data
Users / Roles

Root Site

Master Data | User Interfaces | Users / Roles



TrakSYS™ Multi-Site Installation

Single-Instance Multi-Site

Root Site

What is the Root Site?

The Root Site contains optional shared / common configuration and behaviors that can be used across all Sites configured within the SIMS.

Master Data

- Materials
- Categories
- Locations
- Notifications
- Custom Properties
- Users / Roles / Permissions

Business Rules

- Script Libraries
- Workflow Processes
- DMS Modules

User Interfaces

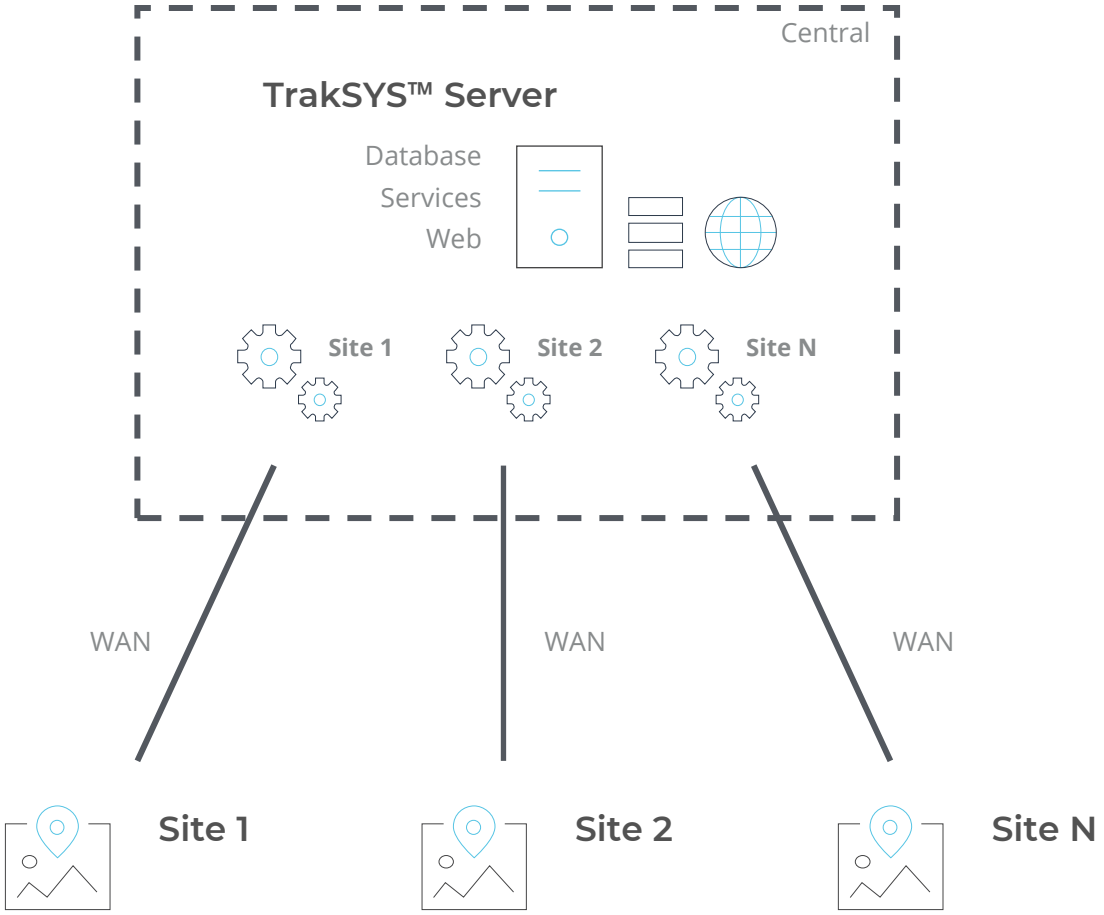
- Content Parts
- Content Pages

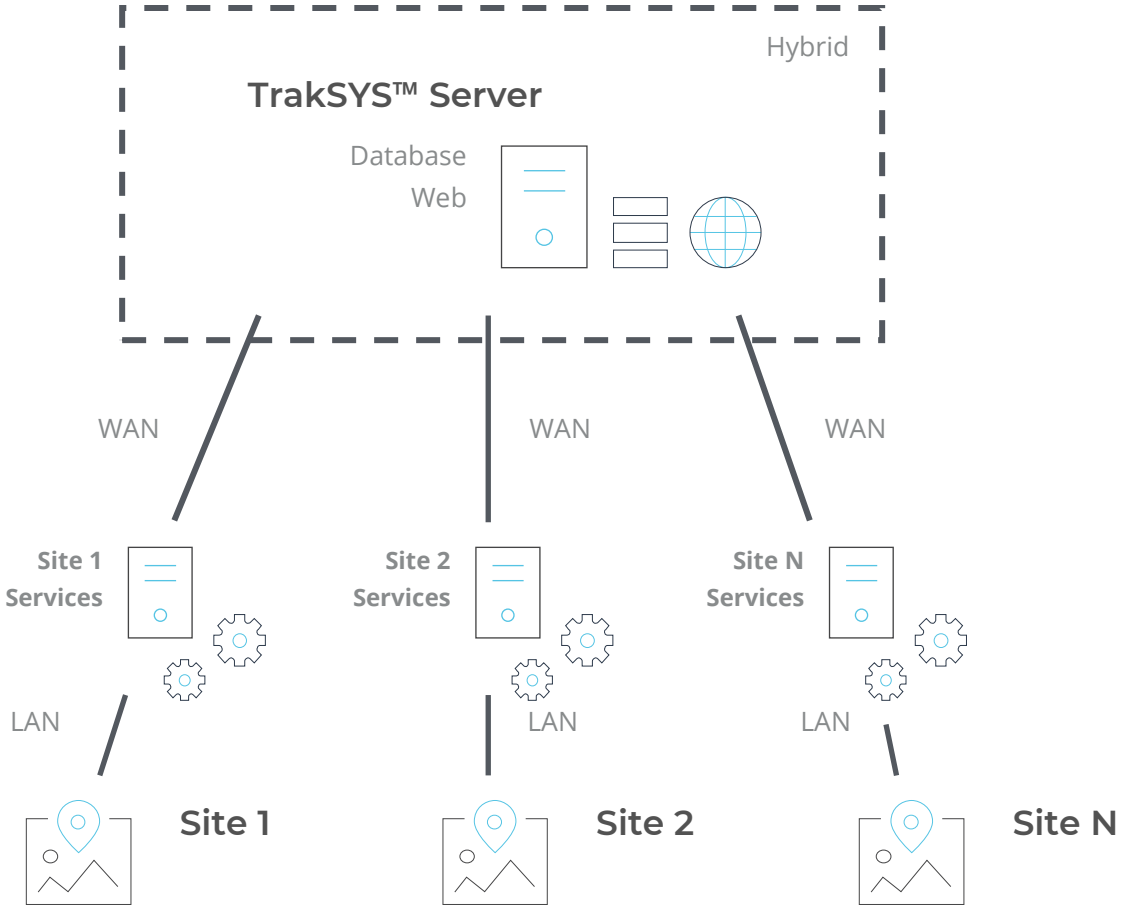
Aggregate Reporting

Central historical reporting and dashboards that combine data from all configured SIMS Sites.

Single-Instance Multi-Site

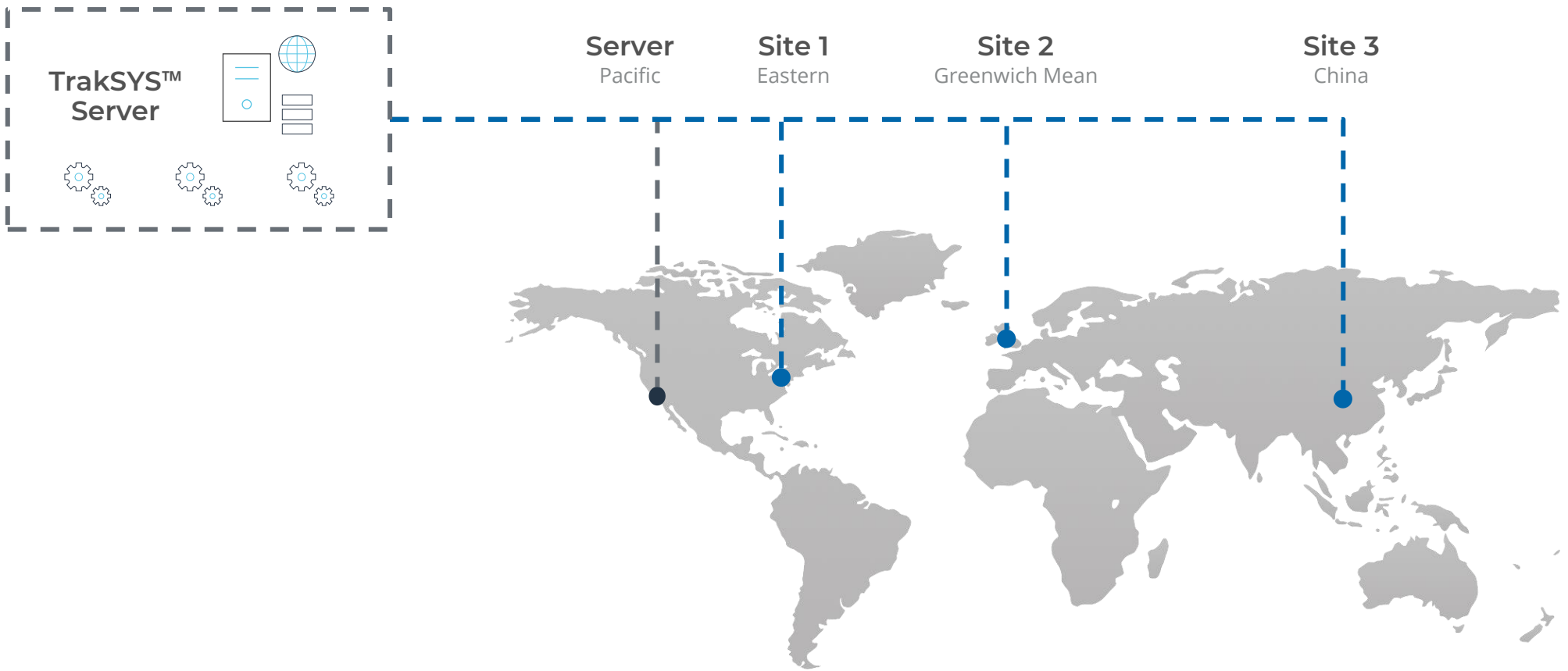
Architectures





Single-Instance Multi-Site

Time Zones



Single-Instance Multi-Site

Considerations

Server Load

While data collection Services can be distributed, the database and web server are shared.

Remote Communication

Network visibility/ports must be open and accessible between local automation devices and client browsers.

Speed and Availability

Network speeds and connection availability must be adequate for the application requirements.

Governance

A clear plan should be in place for who manages system upgrades, support renewals, and other global decisions.

Upgrades and Maintenance

Any system maintenance or upgrades will affect all Sites housed within the shared implementation.