

Mapping Suite

The Smart Way to Map Your Environment

Cleanroom Schematic 1
This schematic represents where loggers (or stacks of loggers) will be placed within the space. Loggers (or stacks of loggers) are displayed as pins functioning as place-holders on each of the planes assigned. Pins may be added one at a time, moved, removed, have planes assigned, and have loggers assigned.

Schematic Details **Logger List** **Auto-Assign Loggers**

Add Data Loggers

Placeholders:
Total Placeholders (300)
Placeholders Unsigned (259)

Pins:
Total Pins (100)
A.B.C (100)

Pin 097

Plane A: 12182438
Plane B: 12182439
Plane C: 12182442

Assign Planes **Remove**

DICKSON
Summary Report: Winter 2024 Temperature/Humidity Mapping Study for Dickson Services Mapping Room, Fridge, and Freezer
Created on 04/12/2024 2:07 CDT by Matt M ANs Mapping | Project ID: 20240222 | Revision: 0
Appendix 1: Mapping Programming Room Results

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Mapping Programming Room
Temperature T Distribution
04/12/2024 6:00 CDT to 04/11/2024 6:00 CDT

Temperature T (°F)

Low Limit T

Logger Position: A001, B001, A002, B002, A003, B003, A004, B004, A005, B005

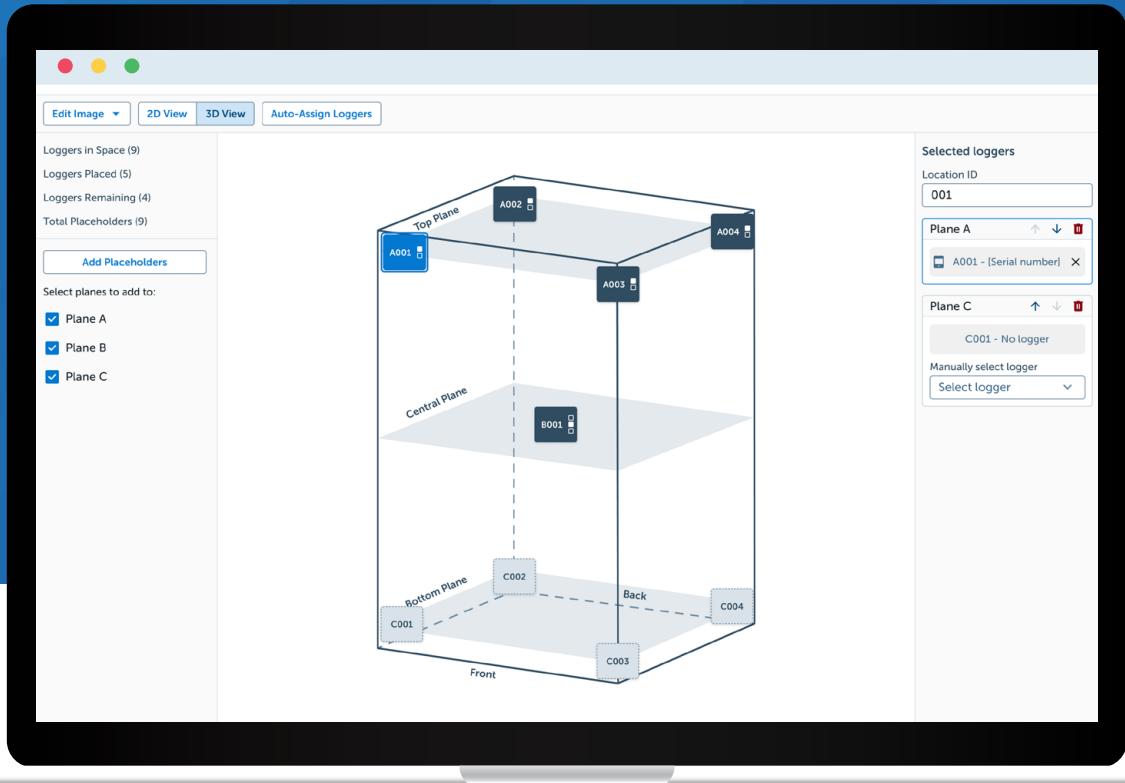
Overall Temperature Summary - Mapping Programming Room

Item	Value
Max Max Temp	78.84
Min Mean Temp	73.80
Max MCT	79.62
Min MCT	73.99
Loggers Outside Temperature Range	A001, B001, A002, A003, B003, A004, A005
Loggers with incomplete data	N/A

EFFICIENCY STARTS HERE

Streamlining Mapping Studies with One Powerful Application

In highly regulated industries, mapping studies are crucial for compliance but often complex and time-consuming. Mapping Suite automates the process, from data collection to one-click reporting, reducing manual effort and errors. This results in quicker, more reliable studies, allowing your team to focus on more strategic tasks.



Automated Data Logging

Logging parameters are pre-set and captured automatically, reducing manual effort and ensuring consistency.



One-Click Reporting

Audit-ready reports provide structured, traceable data formatted to meet documentation requirements.



Real-Time Visibility

Monitor conditions in real-time, enabling quick decision-making and timely issue resolution.



Scalable Workflows

Support a range of study sizes with flexible kits and setup options tailored to your protocols and facility needs.

KEY CHALLENGES SOLVED

A Smarter Solution for the Most Common Mapping Study Challenges

Mapping Suite is more than just a tool—it's a solution designed to eliminate the pain points associated with conducting mapping studies. Manual data collection, error-prone reporting, and complex workflows are streamlined through automation, helping teams execute studies faster, with fewer errors, and full compliance.

Learn how Mapping Suite can help you overcome these obstacles below.



Compliance

Mapping tasks are automated and traceable, with reporting that supports 21 CFR Part 11, EU Annex 11, and GxP requirements.



Resources

Data collection and logger tracking are automated, saving time and allowing your team to focus on mission-critical tasks.



Reporting

One-click reports include the structured data and traceability required for audit review—no manual formatting needed.



Data Access

Real-time and historical data give your team the visibility to resolve issues quickly and review past studies for analysis and improvement.



Costs

Scalable, cost-effective solutions are available, fitting your budget while meeting the needs of both small and large operations.



Seasonality

Temperature changes are tracked throughout the year, optimizing equipment placement and ensuring product integrity.



Diverse Needs

Map diverse facility and equipment types, including chambers, freezers, and warehouses, all from one unified system.



Implementation

Setup is simplified with built-in cellular connectivity and an intuitive interface—no IT setup required, just plug in and start.



Scalability

Scale seamlessly across facility and equipment types and manage multiple locations from a single, centralized interface.

ONE-CLICK REPORTING

Generate Accurate Reports Instantly

Mapping Suite generates audit-ready reports with one click, including sensor IDs, calibration dates, time-stamped readings, min/max/mean values, and deviations from defined limits. Reports are fully traceable, exportable in PDF or CSV formats, and include the detail required for audit and QA review.

Designed to support 21 CFR Part 11, EU Annex 11, and GxP requirements, reporting can be customized to align with internal SOPs and documentation standards—making it easier to stay compliant and inspection-ready.



Detailed Study Output

Includes device-level data such as sensor IDs, calibration records, and deviation metrics.



Traceable and Audit-Ready

Generates time-stamped, non-editable reports that are 21 CFR Part 11 and EU Annex 11 compliant.



Historical Data Access

Easily retrieve past reports and study data from one system to support audits or reviews.



EFFICIENCY REDEFINED

Automate Your Mapping Workflow

Mapping Suite simplifies the execution of mapping studies by automating device setup, data collection, and reporting workflows. A centralized interface with step-by-step guidance reduces the risk of manual error, supports consistency across studies, and frees up your team to focus on results rather than routine tasks.

✓ Faster, Simplified Setup

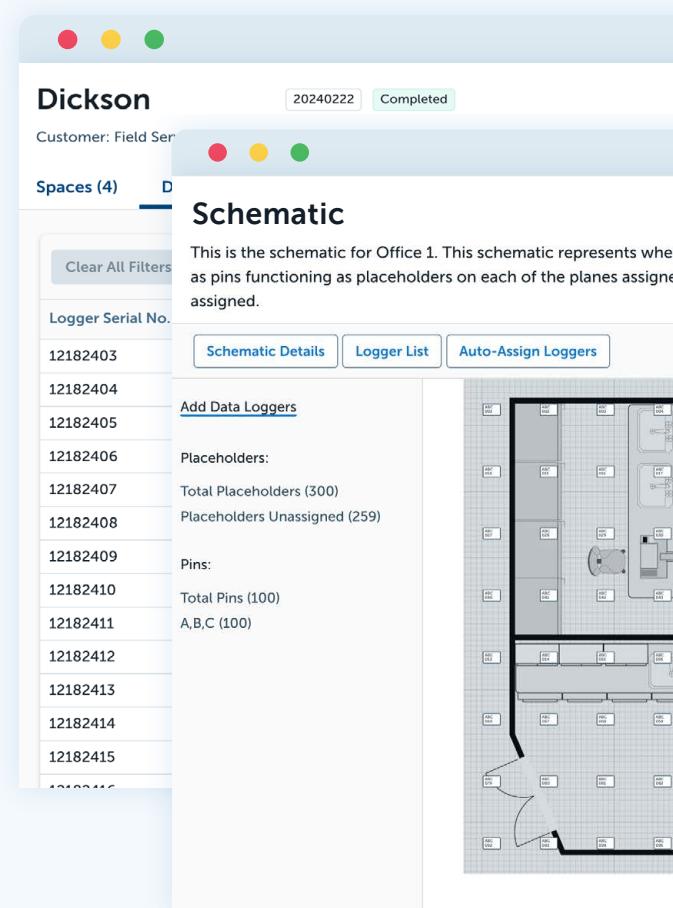
Bulk-configure devices using preloaded templates and study parameters, reducing setup time and ensuring consistency across mapping studies.

✓ Visual Logger Placement

Upload facility schematics and digitally place loggers for clear identification and accurate spatial coverage.

✓ Secure Data Retrieval

Securely access time-stamped data without manual exporting, supporting traceability and streamlined analysis remotely from any internet-connected device.



Dickson
Customer: Field Ser
Spaces (4) D

Schematic
This is the schematic for Office 1. This schematic represents where pins functioning as placeholders on each of the planes assigned.

Clear All Filters
Logger Serial No.
12182403
12182404
12182405
12182406
12182407
12182408
12182409
12182410
12182411
12182412
12182413
12182414
12182415

Add Data Loggers
Placeholders:
Total Placeholders (300)
Placeholders Unassigned (259)
Pins:
Total Pins (100)
A,B,C (100)

Auto-Assign Loggers
Logger List

20240222 Completed

REGULATORY EXCELLENCE

Ensure Compliance with Every Mapping Study

Mapping Suite is built to meet the rigorous data integrity, access control, and documentation standards required in regulated environments. From real-time audit trails to secure data handling, it fully supports compliance, giving validation and quality teams the tools they need to maintain oversight and inspection readiness.

✓ Built for Regulated Environments

Aligns with FDA, WHO, GxP, ISPE Good Practice Guide for Mapping, and USP recommendations for environmental monitoring, storage validation, and reporting requirements.

✓ ALCOA-Compliant Audit Trails

Every system action is time-stamped, attributed, and locked, with logs preserved to meet 21 CFR Part 11, EU Annex 11, and ALCOA data integrity standards.

Meets guidance standards for the following:



DATA AT YOUR FINGERTIPS

Track Data in Real-Time for Smarter Studies

With Mapping Suite, you gain real-time visibility into study conditions—before, during, and after execution. Wireless data transmission and centralized access enable your team to verify setup, monitor performance, and respond quickly to prevent data loss or study failure.

✓ Pre-Study Verification

View live data before starting the study, making necessary adjustments in advance to ensure accuracy.

✓ Live Study Monitoring

Track environmental data in real time to detect deviations early and reduce the risk of compromised results.

✓ Remote Data Access

Access data anytime, anywhere, from any device, keeping your team connected no matter where they are.



Any Device



Any Time



Anywhere

EFFORTLESS EXPANSION

Scale Your Mapping System with Ease

Mapping Suite adapts to the scale and complexity of your study, whether you're validating a single unit or coordinating a multi-site deployment. With bulk device setup and centralized control, you can quickly expand coverage, close compliance gaps, and maintain consistency across all environments.

✓ Streamlined Scaling

Add new mapping points efficiently with bulk setup tools and reusable equipment kits.

✓ Configurable Study Design

Customize your setup for any environment, from a small storage unit to large, multi-site operations.

✓ Centralized Management

Manage all mapping activity from one interface for consistent execution across sites and teams.

Logger Serial No.	Space Name	Location ID
2369237423	[Space Name]	A1
2369237423	[Space Name]	C4
2369237423	[Space Name]	B3

PREDICTABLE COSTS, RELIABLE RESULTS

Protect Your Budget Without Compromise

Mapping Suite's annual rental model helps teams avoid large upfront costs and long approval cycles. With bundled kits, flexible terms, and simplified renewals, it's easier to plan recurring studies, scale as needed, and maintain continuous compliance without budget delays.



Budget-Friendly Subscription Model

Avoid large upfront costs with a scalable annual subscription that's easier to budget and doesn't require CAPEX approval.



Designed for Repeat Use

Perfect for organizations that run multiple studies a year—swap sensors at renewal and stay compliant without long-term risk.



All-in-One Convenience

Each kit includes software access, calibrated sensors, data loggers, and a gateway—everything you need in one preconfigured box.



Ready When You Are

Plug-and-play and internet-ready, with no IT involvement required. Kits align with ISPE recommendations for studies up to 20m³⁽¹⁾.

MKIT-01 Ambient Temperature/Humidity	MKIT-02 Refrigerators or -20°C Freezers	MKIT-03 -80°C Ultra-Low Coolers
<ul style="list-style-type: none">Access to Mapping Suite with rights for (16) data loggersSoftware updates(16) Data loggers(16) RS010 sensors (calibrated)(1) RFG-003 Gateway + SIM Card	<ul style="list-style-type: none">Access to Mapping Suite with rights for (16) data loggersSoftware updates(16) Data loggers(16) RS020 sensors (calibrated)(1) RFG-003 Gateway + SIM Card	<ul style="list-style-type: none">Access to Mapping Suite with rights for (16) data loggersSoftware updates(16) Data loggers(16) RS040 sensors (calibrated)(1) RFG-003 Gateway + SIM Card

⁽¹⁾ SOURCE: International Society for Pharmaceutical Engineering, Good Practice Guide: Controlled Temperature Chamber Mapping and Monitoring, 2016.

TRUSTED EXPERTISE

Discover the Dickson Advantage

Dickson helps organizations monitor temperature and environmental conditions with accuracy, consistency, and compliance in mind. From hardware to cloud-based solutions, our products are designed to meet validation requirements, simplify audits, and support critical processes in regulated industries.



A Century of Trust

With over 100 years of experience, Dickson provides reliable, compliant monitoring solutions trusted in regulated environments.



Dedicated Support

Our team is committed to providing personalized, expert support at every stage, helping you overcome any challenges quickly and efficiently.



Commitment to Compliance

Every decision—from product design to customer support—is built around meeting industry and regulatory standards.

READY TO TALK?

Let's Discuss Your Mapping Needs

To learn more about Mapping Suite or to schedule a mapping consultation with our team of experts, contact us at supportinfo@dicksondata.com.

Customer: Field Services Team - Starting: 04/03/2024 13:00:00 America/Chicago - Ending: 04/10/2024 13:00:00	Completed	Artifacts	Location ID	Sample Interval	Temp. Unit
20240222			A005	10 minutes	°F
12182403			B005	10 minutes	°F
-2404			A004	10 minutes	°F
			B004	10 minutes	°F
			A003	10 minutes	°F
			B003	10 minutes	°F
			A002	10 minutes	°F
			B002	10 minutes	°F

Dickson

Customer: Field Services Team

Completed
20240222

Artifacts
04/03/2024 13:00:00 America/Chicago - Ending: 04/10/2024 13:00:00

Settings

Data Loggers (36)

Spaces (4)

Clear All Filters

Logger Serial No. ▾
12182403
-2404

Space Name
Services Team Room
Services Team Room
Services Team Room
Services Team Room
Services Team Room

Location ID
A005

Sample Interval
10 minutes

Temp. Unit
°F

°F

°F

°F

Schematic

This is the schematic for Office 1. This schematic represents where loggers (or stacks of loggers) will be placed within the space. Loggers (or stacks) are represented as pins functioning as placeholders on each of the planes assigned. Pins may be added one at a time, moved, removed, have planes assigned.

Schematic Details Logger List Auto-Assign Loggers

Add Data Loggers

Placeholders:

Total Placeholders (300)
Placeholders Unassigned (259)

Pins:

Total Pins (100)
A,B,C (100)



Mapping Studies

22 Total

Clear All Filters

Study Status

Study Name

Customer Name

Study Owner

Study Start

Study End

Active

Mapping Demo

Dickson

Dickson

06/10/2024 10:10:00

06/17/2024 10:10:00

Draft

Mapping Demo 2

Dickson

Dickson

06/11/2024 10:21:00

06/17/2024 10:21:00

Completed

Hajro's Test Study 5

Dickson

Dickson

04/18/2024 15:15:00

04/18/2024 15:30:00

Completed

Hajro's Test Study 2

Hajro's Desk

Hajro

04/18/2024 12:45:00

04/18/2024 12:50:00

Completed

Hajro's Test Study

Hajro's Desk

Hajro

04/18/2024 11:45:00

04/18/2024 11:50:00

Completed

Study 4

Customer 4.2

Chris_Serv

04/11/2024 12:10:00

04/18/2024 12:15:00

Completed

Study 3

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study 2

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study 1

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study 0

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study -1

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study -2

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study -3

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study -4

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study -5

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study -6

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study -7

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study -8

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study -9

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

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Study -10

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Study -11

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Study -14

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Study -17

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Study -18

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Study -19

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04/11/2024 12:20:00

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Study -24

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study -25

Customer

Chris_Serv

04/11/2024 12:15:00

04/11/2024 12:20:00

Completed

Study -26