Expanding pipeline capability for SCIEX CE with BioPhase software

Presented by Philip Hoang | August 2026



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The BioPhase 8800 system

Robustness

The system's hardware & software is designed to support consistent operation and standardized workflows

Software

Reimagined software makes getting results quick and easy. The BioPhase 8800 driver for Empower software for integration with the Empower Chromatography Data System (CDS) and a data converter for the BioPhase 8800 system is available for analysis in both the Empower and Chromeleon CDS.



Validated workflow consumables

Streamline method development, simplify operation and minimize user error.

Flexibility

Flexible for your workflow requirements, switching between UV, LIF and NF detection is simple and seamless. Integrated detection modules can enable ease to go from one assay to the next, without sacrificing consistency or performance.

Compatibility

The 96-well plates are designed to ANSI/SLAS standards and are conveniently compatible with commercial liquid-handling systems.

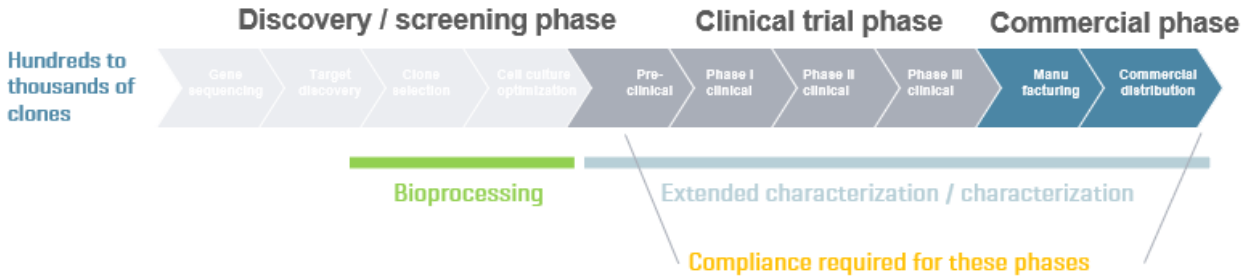
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Capillary electrophoresis across the development pipeline

SCIENCE MOVES FORWARD

Protein therapeutic and gene therapy CE workflows can move from early research into method development, characterization, quality-focused testing, and controlled operations.





The BioPhase 8800 system can be made 21 CFR Part 11 compliant using BioPhase software

One analytical technology. Many stages of development.

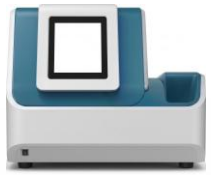
Capillary electrophoresis workflows may be used in a variety of research and development applications, depending on laboratory requirements and validation practices

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The method stays the same. The requirements change.

1 User

1 Project



1 Instrument

WHERE WE BEGIN

Focused. Flexible. Fast

5 Users

20 Projects



Multiple instruments

AS WE GROW

More users. More Projects. More instruments.

Review

Approvals

Traceability

Governance

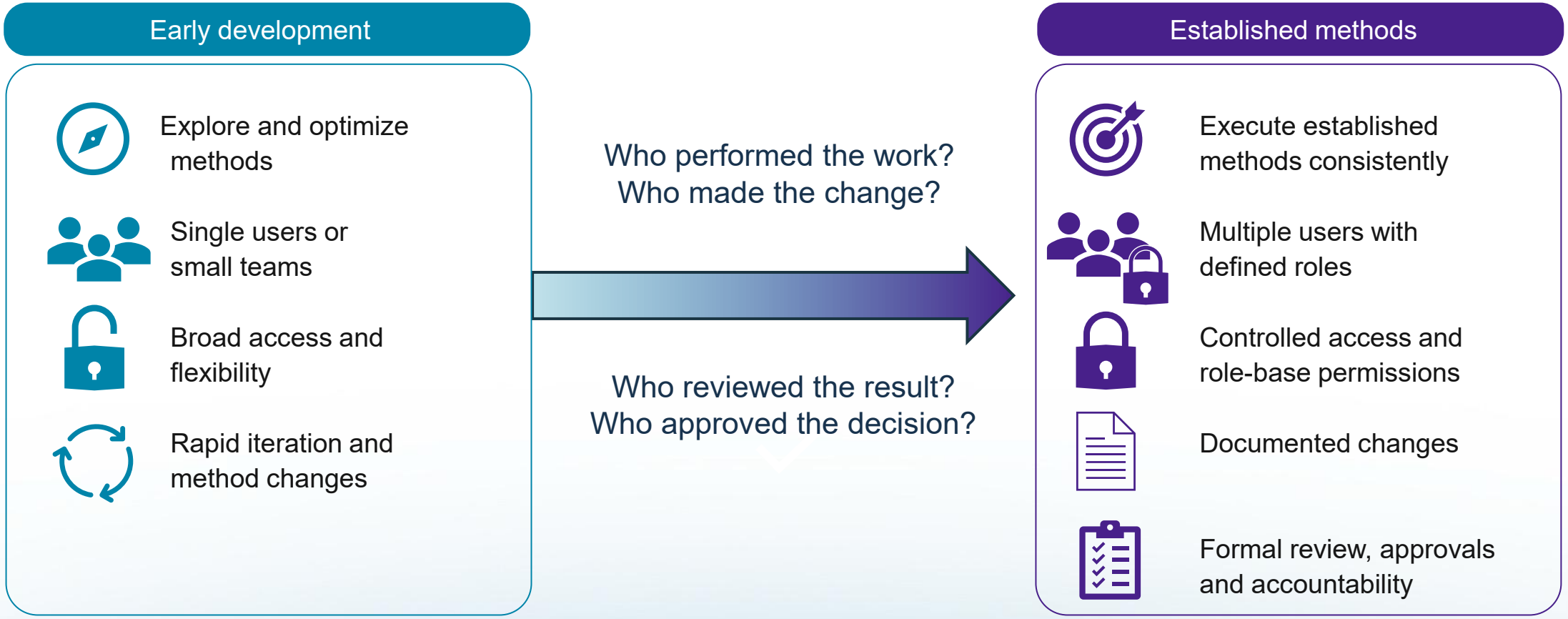
NEW EXPECTATIONS

Review. Approvals. Traceability. Governance

STARTING SIMPLE — **GROWING COMPLEXITY** — **BUILDING CONFIDENCE**

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And workflow expectations evolve



User controls | Project governance | Traceability | Electronic signatures

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Introducing BioPhase software 1.6



Introducing BioPhase software 1.6

One software. Across different stages of development

Designed to help laboratories manage projects, maintain traceability, and support evolving workflow needs across different stages of development and testing.



Adaptability: Apply the level of governance that fits the work, then increase it as expectations change.

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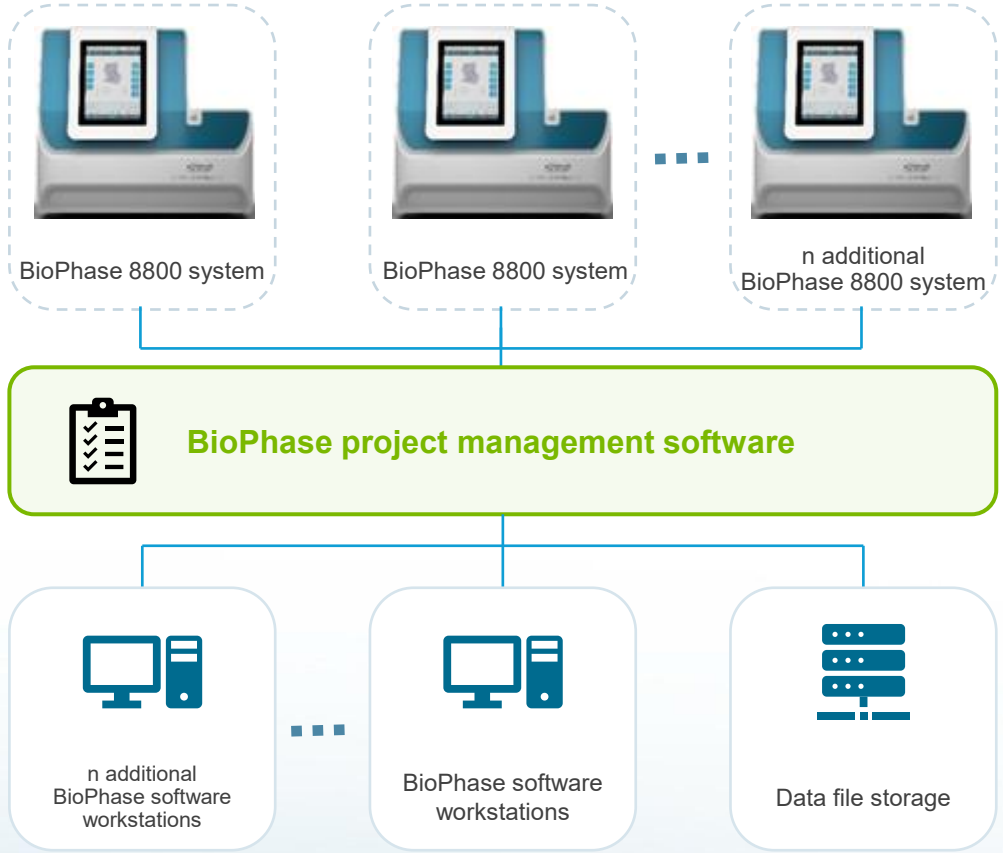
Centralized project management across the lab

Connecting instruments, users, and projects

Multiple instruments
Connect multiple BioPhase 8800 systems

Central project management
Users, projects, permissions, audit policies, and workflow governance

Connected workstations
Consistent access across the laboratory



Secure access
Role-based permissions and authentication

Central governance
Unified management of users, projects, and policies

Audit and traceability
Centralized audit trails and electronic approvals

Scalable connectivity
Built for today's labs. Ready for tomorrow.

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User management and access control

Ensure the right users have the right access

Authentication

Local or Active Directory credentials

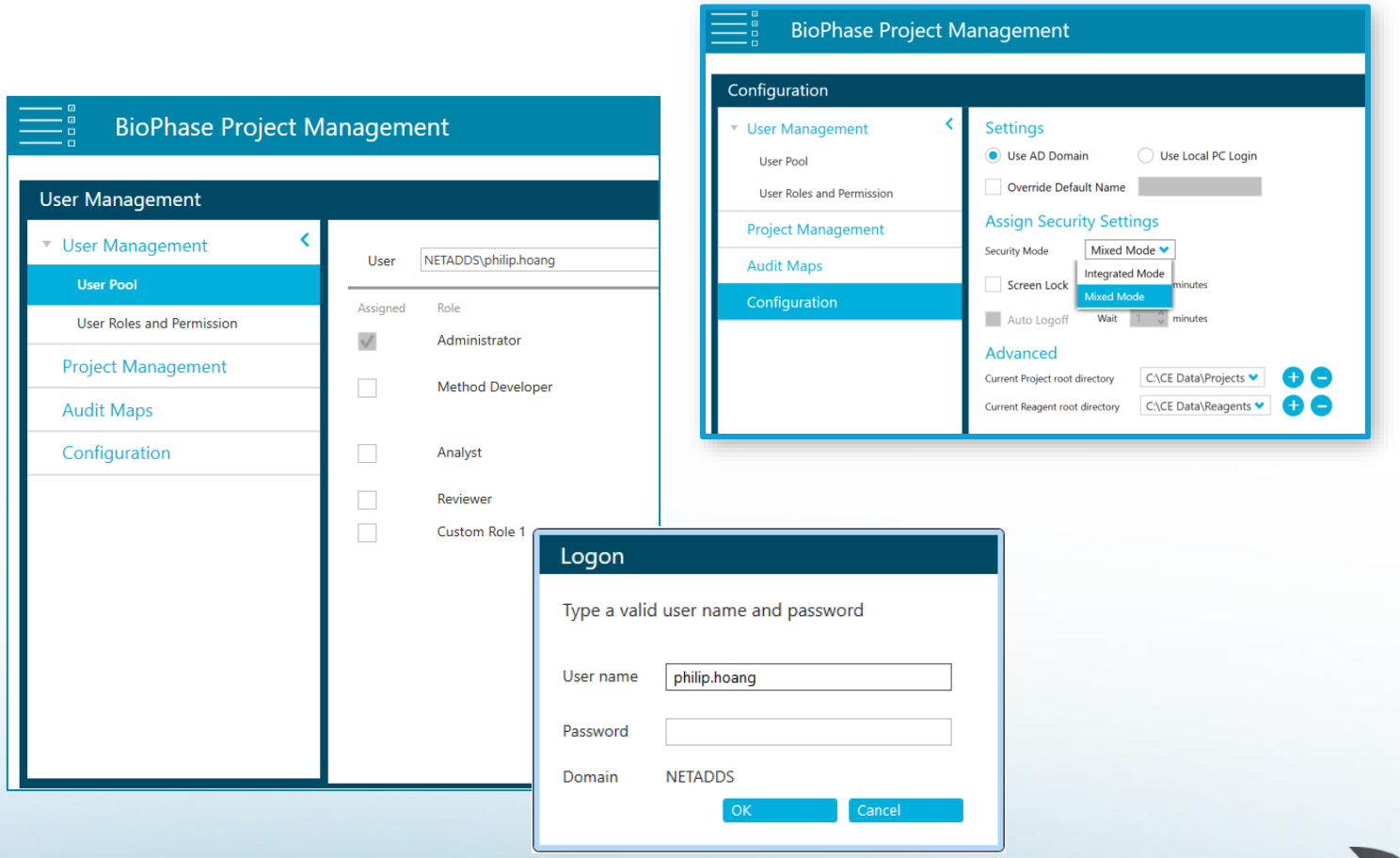
Provides configurable user authentication and role-based access control.

User roles

Role-based permissions tailored to responsibilities

Authorized access

Control who can access the software and instrument

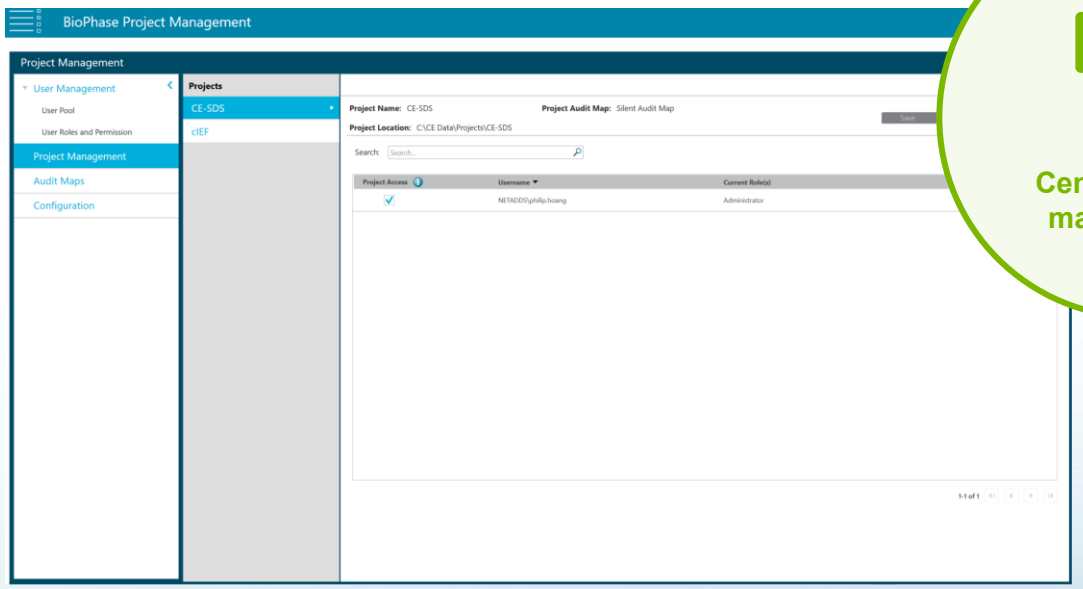


Organizing analytical workflows

Connect authorized users with the methods, sequences, data, reports, and appropriate audit policy for the work.

Methods and sequences
Store and manage analytical methods and sequences

Users
Manage access by role



Central project management

Audit maps
Apply the right audit map for each project

Configure audit and approval policies

Audit maps define which actions create records and whether reason or electronic signature is required

Flexible control

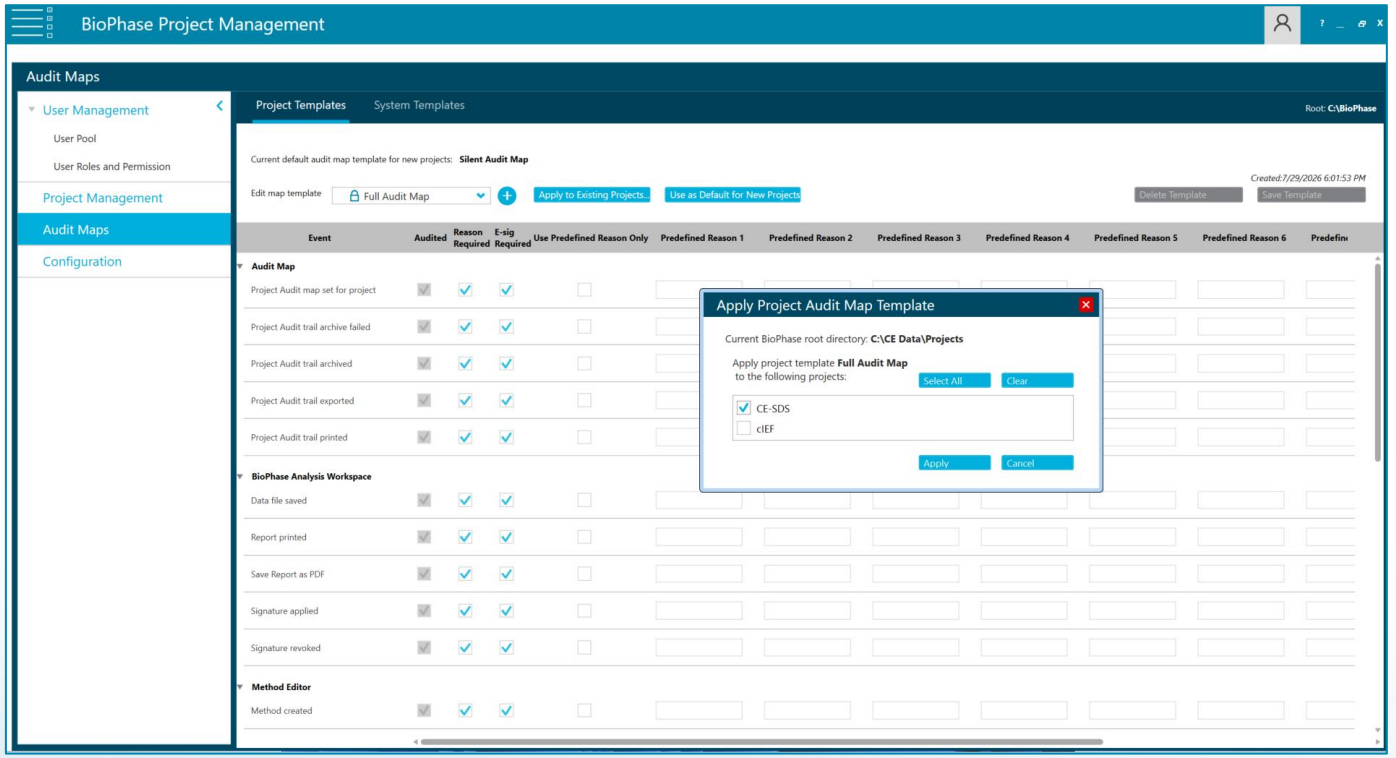
Allows users to configure audit and approval settings based on organizational requirements.

Project and system audit maps

Apply maps to projects or system-level actions

Predefined or custom

No audit, silent audit, full audit, or create custom audit maps



Centralized audit trail

One searchable record of what happened, when, and why

User actions

Logins, changes

Project activities

Project creation, updates, access changes

Method and sequence changes

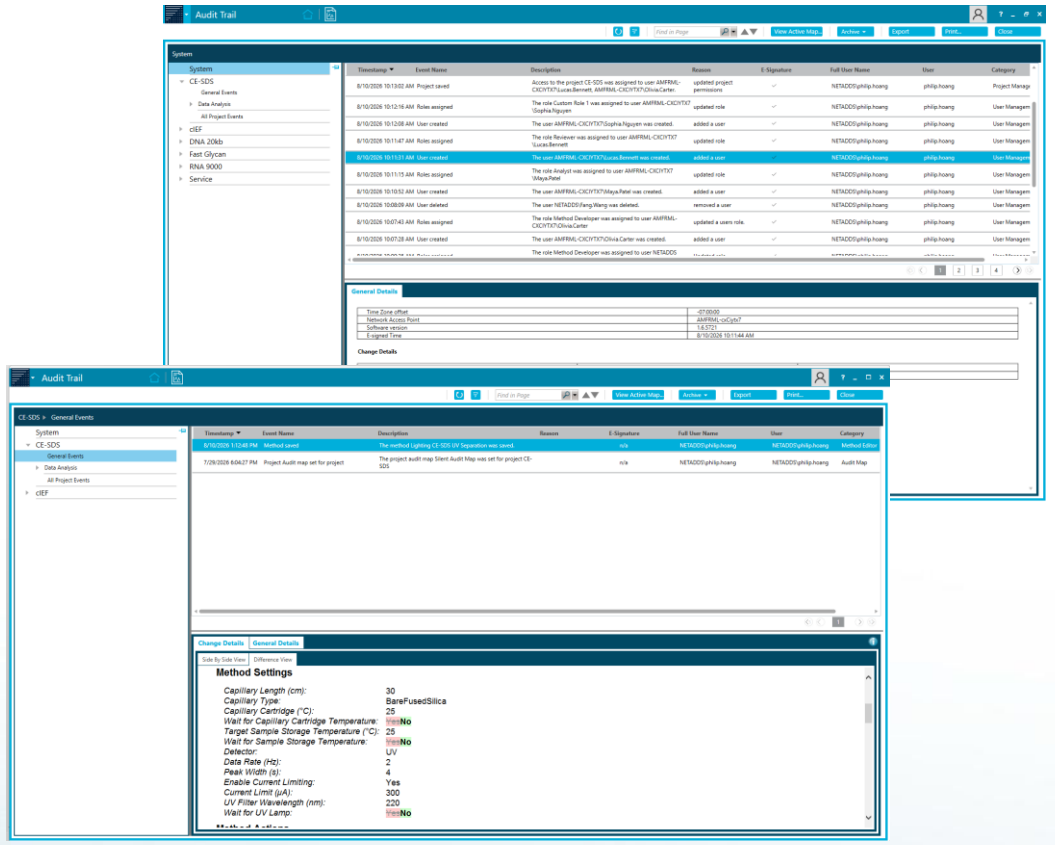
Created, modified, or executed

Data and report

Data analysis and reporting

Electronic approvals

Electronic signatures for analyzed, reviewed, and approved



Provides centralized audit trail functionality designed to record supported user and system activities.

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Configurable electronic review and approval workflows

Role-based permissions determine who can apply or revoke each signature state.

ANALYZED

Data has been analyzed

Analyst

Performs analysis and generated results

REVIEWED

Data has been reviewed

Reviewer

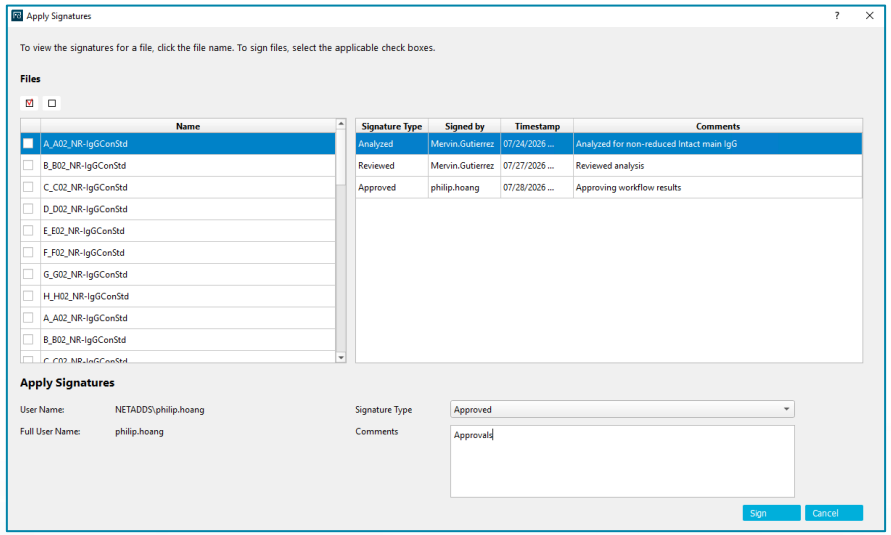
Reviews results

APPROVED

Data has been approved

Approver

Approves results



Electronic Signature Table

E Sign	Date Time Sign made	User Name	E Sign
Analyzed	7/24/2026 11:25 AM	Mervin.Gutierrez	Applied
Reviewed	7/27/2026 8:36 PM	Mervin.Gutierrez	Applied
Approved	7/28/2026 9:49 AM	philip.hoang	Applied

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BioPhase software 1.6 enables connected and automated CE workflows

Connect the BioPhase 8800 system to the broader laboratory ecosystem

The BioPhase 8800 system can now participate in automated laboratory workflows through a REST-based API.

Third-party applications can interact with the system to:

- Monitor instrument status
- Access project and sequence information
- Initiate data acquisition activities

Providing a foundation for workflow scheduling and orchestration within high-throughput laboratory environments.

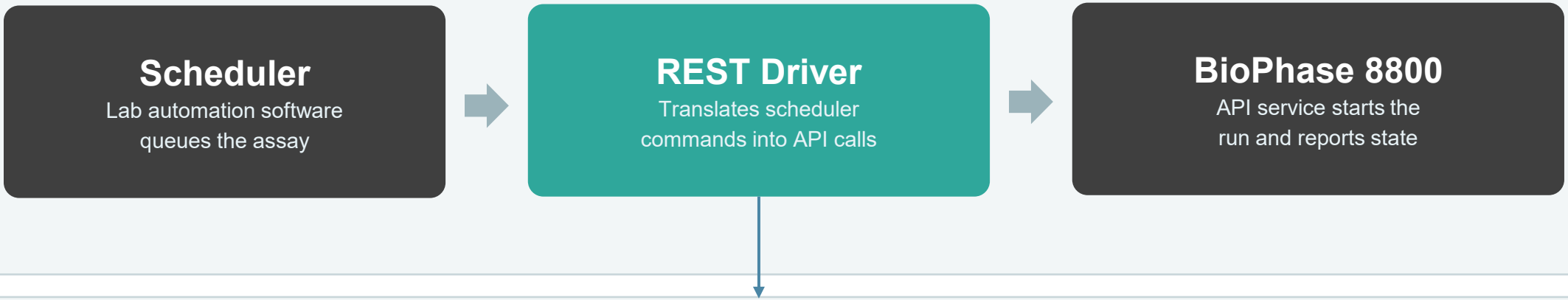


Application Programming Interface (API) connectivity enables the BioPhase 8800 system to integrate into automated laboratory workflows

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How a scheduler, a driver and the instrument API work together

THE REQUEST–RESPONSE LIFECYCLE



BUILDING THE SCHEDULER DRIVER

1

Map the API

Learn the endpoints: start a run, check status, pull results, read error codes.

2

Write the driver

A scheduler plug-in that turns endpoints into an authenticated commands.

3

Manage state

Poll status, handle busy, timeout and retry so robotics stay in sync.

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What BioPhase Instrument API help control?

The API replaces the BioPhase 8800 Front Panel control for lights out automation

Temperate Control

- Set target temperate
- Get current temperate and status

Detector Control

- Turn detector source ON/OFF
- Get detector status

Tray/Cartridge Control

- Tray Load/Eject
- Cartridge Load/Eject

System Control

- System Login/Logout
- System Status

Sequence Control

- Sequence Status
- Sequence Start/Stop/Pause
- Sequence Edit

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BioPhase software 1.6: Extending CE across the development pipeline

One platform. Connected workflows. Scalable oversight.

Software ecosystem that supports laboratories as analytical programs evolve from research and method development to quality-focused and controlled operational environments.

BioPhase software 1.6 provides project management, user administration, workflow traceability, electronic signature, and connectivity features that can be configured to support a variety of laboratory workflows. Available functionality and suitability depend on customer requirements, validation practices, and system configuration.



A single software platform that brings together connectivity, automation, traceability, and user governance to support CE workflows from discovery through quality operations

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