ILS
Batch Expert+ Software

Manage All Your Bioreactors In One Place with
Web-Based Real-Time Software

Batch Expert+ (BE+) is a **web-based, real-time cell-culture/fermentation control system** that lets you integrate and manage an unlimited number of bioreactors through a single interface from *anywhere*. Each controller can be operated locally or remotely through our software with screens that emulate the controller operations.

Supports All Major Controller Vendors

- One application provides a **direct interface** to legacy controllers: B.Braun/Sartorius, NBS/Eppendorf, ILS, Applikon, ABEC, DASGIP, disposables, & others.

Intelligent Alarming

- You determine who is notified and when. Notifications can be based on equipment assignments, personnel schedules, organisms, and more.

True SQL Data Historian

- BE+ includes seamless integration into SQL databases like SQL Server, Oracle, and mySQL. This allows your IT staff to manage your lab's valuable data.

- Customizable **trend charts** can overlay live data with historical runs.

- Enhanced data access allows you to discover hidden problem areas and **increase your yield**.

- Read & store data from other on-line and off-line instruments like Mass-Spec.

Batch Recipe Management

PID Loops for Temperature, pH, and DO as per customer specification, includes:

- Temperature - jacket/blanket, heating/cooling
- DO Cascade to agitation/gas mixing
- Setpoint Deadband for pH
- PID Integral Deadband
- Acid/Base/Gas mixing for pH
- Setpoint profile
- Weight Loss PID with Scales & Pumps - Mass Flow, Mass Charge, Level Control
- pCO_2 PID with CO_2 and Air/N_2
- Capability for Perfusion setups
- Calibration for all measurements (pH, temperature, gas flow, agitation, DO, pCO_2)

Reporting and scheduling

Remote monitoring and control
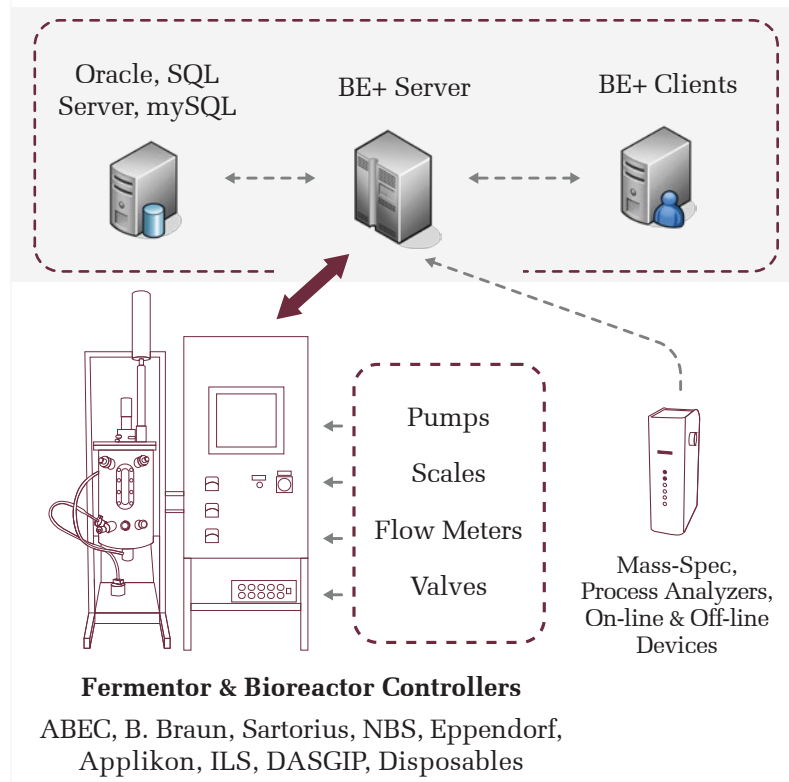
Time or event-based control

Batch trend charting of live, historical, and assay data

Recipe management with scripting & SFCs

21 CFR Part 11 compliant *(optional config.)*

Batch Expert+ Architecture

*BE+ can be implemented on a **single computer** or distributed across a **network**.*

Oracle, SQL Server, mySQL

BE+ Server

BE+ Clients

Pumps
Scales
Flow Meters
Valves

Mass-Spec, Process Analyzers, On-line & Off-line Devices

Fermentor & Bioreactor Controllers

ABEC, B. Braun, Sartorius, NBS, Eppendorf, Applikon, ILS, DASGIP, Disposables

✓ **DATA HISTORIAN**

✓ **INTELLIGENT ALARMING**

✓ **RECIPE MANAGEMENT**

✓ **TREND CHARTING**

inductive automation

CERTIFIED PREMIER INTEGRATOR

Tangible Business Value:
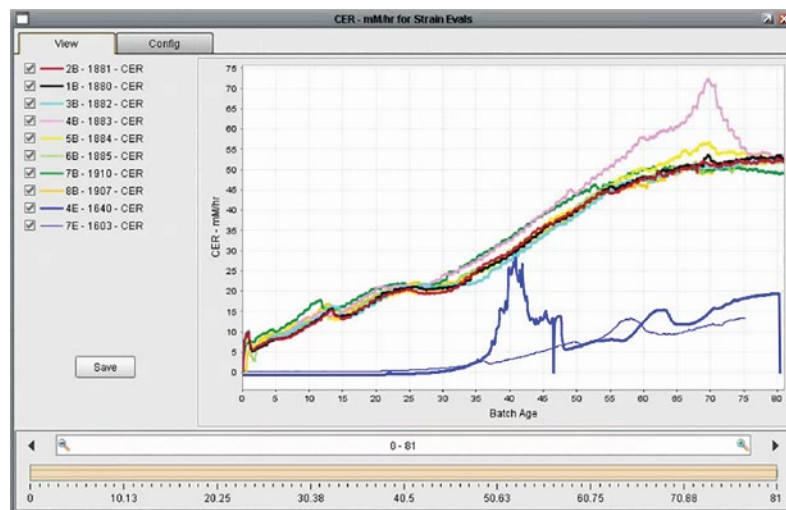
Replace Frustrating Control Software

BE+ is the next-generation alternative to your lab's current supervisory control & data acquisition software.

ILS Does Customer Service & Integration

Our job isn't done until your controllers & devices are properly communicating with our software.

Comprehensive Support

ILS can continue to update & customize BE+ through your VPN to meet your changing needs.

Batch Age Charting