



CASE STUDY – MYSTRO AT A CLINICAL STAGE BIOPHARMACEUTICAL COMPANY

BACKGROUND

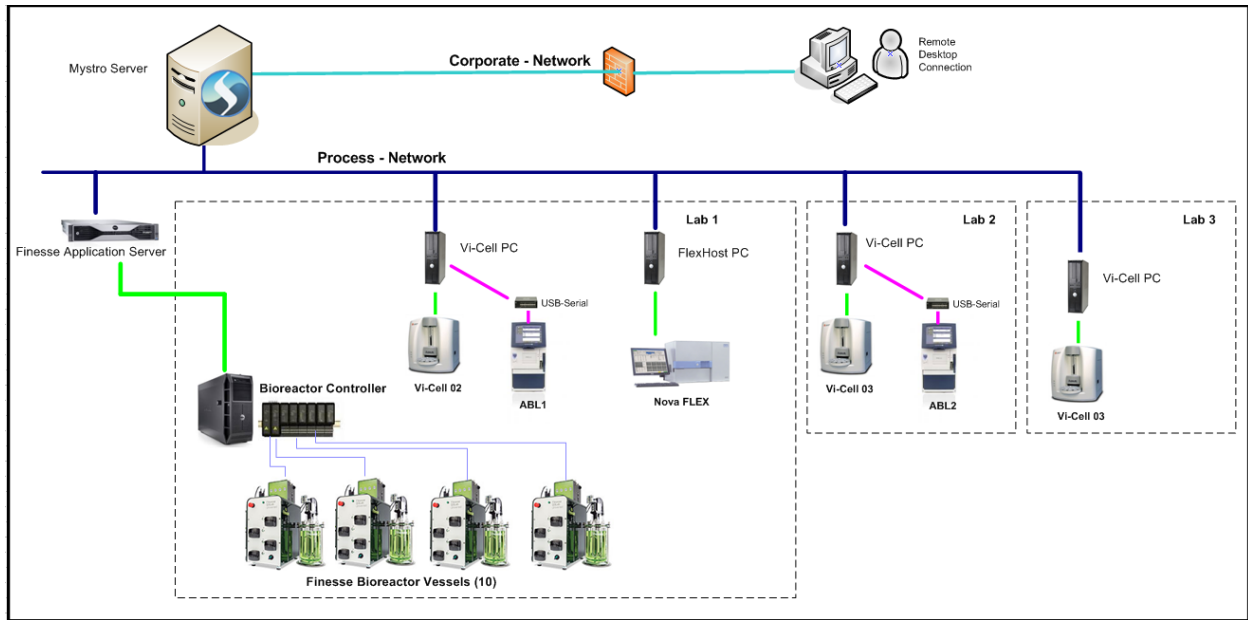
- The customer is a leading gene therapy company advancing novel, liver-directed treatments for diverse rare diseases to automate lab data.
- Their process development/pilot lab works with mammalian cell culture.

CUSTOMER NEEDS

- The customer is using Mystro integrated with the following equipment:
 - 10 Finesse G3Lab Bench Scale bioreactors
 - 3 Beckman-Coulter Vi-Cell analyzers
 - 1 Nova FLEX BioProfile Analyzer
 - 2 ABL-90 Radiometer Blood Gas Analyzers
- The customer wants to automatically incorporate all of the lab data in one location with the ability to create reports on current experiments as well as batch data generated from past runs.
- They want to include the result data from all of the analyzers and graphically view those results in the same time context as the Finesse Bioreactor data.

LABORATORY

- The network layout is shown below. The Mystro server resides on the company's Virtual Machine network and has access to their process and corporate network.
- The green network paths represent the instrument's private control connection and purple lines indicate serial connection.
- Once the network was in place, Mystro client applications were installed on the 5 data source nodes:
 - Finesse Application station
 - 3 Beckman-Coulter Vi-Cell Windows PC's to include 2 ABL-90 Radiometer Blood Gas Analyzers
 - 1 Nova FLEX Windows 7 PC
- The customer ran sample experiments on each data source. Mystro was used to track and view the experiment data; then an install qualification was run. This verified that all of the data points on each instrument were being collected properly with Mystro.



RESULT

- The customer now has the ability to view all of their data in one central location. They are pleased with report generation and the ability to see everything in the same context.
- They are able to utilize the remote viewing and remote alarming function.
- The customer likes the ability to monitor alarm frequency for each piece of equipment on the network. This allows for early detection of potential problems as well as faster decision making.
- They are looking to potentially expand with mini bioreactors in the near future.
- The customer is pleased with time savings associated with manual data capture and analysis.