



CASE STUDY – MYSTRO AT A BIOLOGICS CONTRACT MANUFACTURER

BACKGROUND

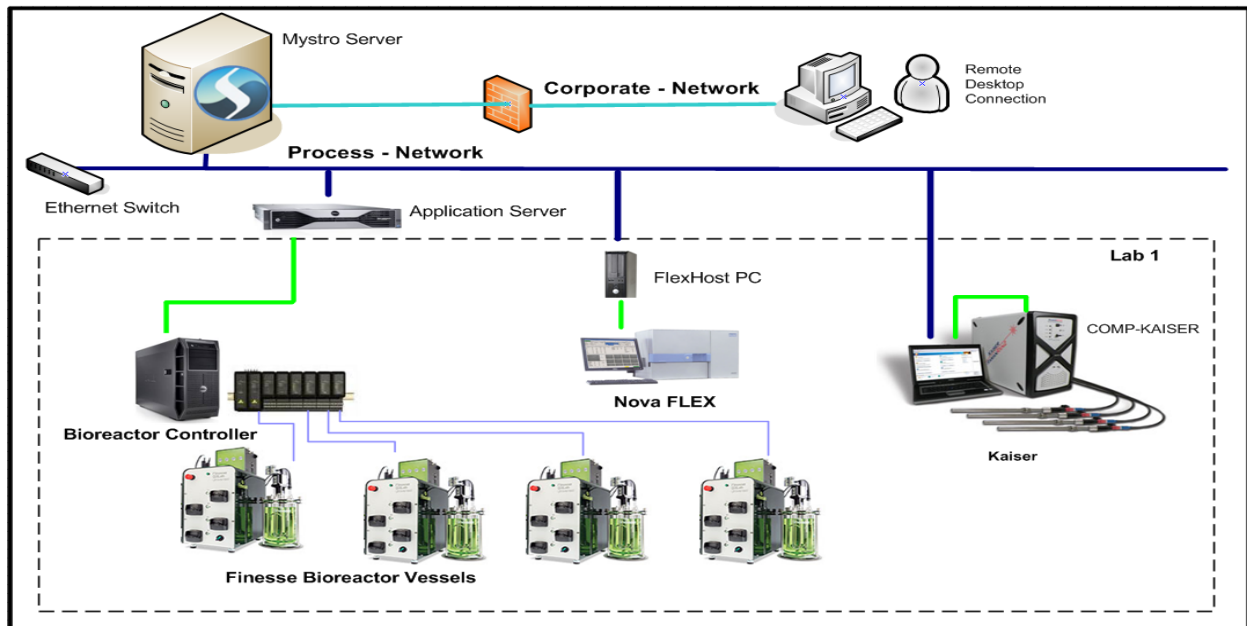
- The customer is a worldwide Biologics contract manufacturer looking to automate lab data collection, specifically Raman and biochemistry analyzers, to their bioreactors for feedback control.
- This global company is one of the world's leading and most trusted contract manufacturers in the pharmaceutical, biotech and specialty ingredients markets. They have several locations worldwide.
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CUSTOMER NEEDS

- The customer purchased a Kaiser Raman optical system which sits in-situ to Finesse bioreactors and outputs values for a specific set of metabolites. These results need to be fed back into the Finesse bioreactors so that they can automatically adjust feed rates based on the Raman data.
- They want to include result data from a Nova Bioprofile Flex analyzer and be able to view those results in the same time context as the Finesse Bioreactor and Kaiser Raman probe.
- The customer also wants a way to automatically send all data to one central location with the ability to create reports for all current and previously run experiments.

LABORATORY

- The network layout is shown below. The Mystro server is a physical server which has 2 network cards for access to both the process and corporate network.
- The green network paths represent the instrument's private control connection.
- Once the network was in place, Mystro client applications were installed on three data source nodes:
 - Finesse Application station
 - Nova Flex Windows 7 PC
 - Kaiser 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 realizes an immediate savings of time in compiling, filtering and exporting datasets that combine the Nova Flex, Raman and process data.
- They can view Nova Flex data in real time and the customer stated that it has been “great for visualizing the trends and very useful for comparing online and offline process values and trends.”
- The bioreactor can now seamlessly control feeds based on real-time Kaiser Raman data and/or data from the Nova Bioanalyzer.
- They can now utilize remote alarming to detect any potential anomalies with data in real-time.