

## Enhance Process Performance with D/3® Optimizer Services

Every D/3 user is familiar with the system's unmatched reliability and data granularity. In fact, so much is possible with the D/3 that even the most sophisticated user may have untapped value and hidden efficiency yet to be harnessed in their systems.

NovaTech is therefore proud to offer D/3 Optimizer - a suite of five services designed to increase value, reduce costs, and improve operating efficiencies for our customers. Through strategic implementation of new features and enhancement of existing applications, D/3 customers can increase production rates, reduce staffing requirements, and improve quality levels. D/3 Optimizer services help analyze and benchmark current practices, implement meaningful changes, quantify results, and ensure your process is running at peak performance.

D/3 Optimizer can be implemented as part of NovaTech's Facets lifecycle maintenance program, giving customers an opportunity to utilize unused Facets hours to find additional value from their control system investment.

### Optimization of Application Software

One of the most important components of any control system is the Application. For over 25 years, NovaTech has successfully developed applications for many of our Fortune 500 customers. NovaTech has extensive expertise in areas such as:

- Design and implementation
- Standards development
- Documentation and testing
- Commissioning and validation

NovaTech can work to reduce cycle times, improve product quality, provide more meaningful information to operators, create custom reports, enhance interlocking schemes, and improve plant safety.

### Optimization of PID Control Loops

Properly tuned loops can have a dramatic effect on product quality, production capacity, energy usage, and equipment longevity. D/3 Loop Optimizer enables staff members to tune PID loops intuitively, accurately, and efficiently. NovaTech offers on-site engineering services that can work closely with your organization to support any loop tuning needs.

### Optimization of Alarms

Excessive alarms can present a significant productivity drain for operators, burden Quality organizations, and cripple the decision making capacity of supervisors and managers. Dynamic Alarm Management can be employed to change alarm characteristics based on the state of a process unit. D/3 Alarm Suppression can prevent a flood of alarms from downstream equipment based on upstream failure. Alarm Delays can reduce or eliminate nuisance alarms due to a noisy analog input. Our engineering

staff is prepared to help implement these and other alarm reduction techniques across your enterprise.

### Optimization of System Components

NovaTech offers a Reliability Centered System Life Planning (RC-SLP) service. RC-SLP is a comprehensive maintenance assessment service that provides maintenance and reliability engineers with a thoroughly detailed and prioritized analysis of their control system's reliability. This process enables staff members to specifically identify and correct potential points of failure that can abruptly lead to downtime. This approach allows your staff to shift from a response or time-based stance to a needs-based strategy that is more proactive, effective, and economical.

### Optimization of Plant Personnel

NovaTech's training programs are designed to give your plant personnel hands-on training related to your control system, networking, programming, and OSHA needs. These comprehensive training packages ensure that a customer's staff is current with the latest technology and capable of operating at peak performance. Customized curriculums provide for on-going development of engineers, technicians, and operators. A well trained staff is an investment in your future and enables informed and meaningful decisions as they relate to your business.

NovaTech recently completed two successful 8000 Series I/O installations at two MillerCoors brewery sites. These installations represent a new opportunity for NovaTech within MillerCoors to demonstrate the flexibility and reliability of the 8000 Series I/O product and its capability to support Asset Management and Ethernet communication.



The initial installations at the MillerCoors Albany, GA and Milwaukee, WI breweries were both successful implementations on brewery modernization and expansion projects. As a result, MillerCoors recently awarded NovaTech with its third 8000 Series I/O project at the Irwindale, CA Brewery.

NovaTech 8000 I/O is ideal for new installations or for upgrading or replacing older I/O families such as 16000, Siemens 505, Provox Series 20 or Modicon 200 I/O. Retrofit panels facilitate connection to new termination panels with minimal impact to

existing connectors and wiring. With a -40°C to +70°C operating temperature range and conformal PCB coating, the NovaTech 8000 Series I/O may be used in control rooms and in hostile field environments. All 8000 Series I/O modules are listed to UL 61010. NovaTech offers a full range of I/O products for analog and digital modules including intrinsically safe modules.

## D/3 and FlexBatch® Application in 21 CFR Part 11 and GAMP 5 Compliant Application in France

NovaTech recently sold the first-ever D/3 and FlexBatch system in France, winning the project over a competing HMI / PLC solution. The production facility and the control system design and implementation must be in compliance with both the 21 CFR Part 11 and GAMP 5 standards.

To simplify the compliance and validation effort, NovaTech has modified the D/3 and FlexBatch products. These modifications will be incorporated into NovaTech's standard product offering so our entire customer base will be able to benefit from the new features such as Windows® authentication, detailed logging information, automatic generation of Master Recipe Versions when an existing Master Recipe is edited, etc.



The new line, scheduled to begin trial runs in September and make marketable product by the end of 2009, will produce intravenous bags containing parenteral nutrition supplements.

Since the new production will manufacture active ingredients intended for the U.S. pharmaceutical industry, it must be able to be validated by the FDA.

NovaTech will provide an ongoing consulting role throughout the project life-cycle, helping to not only implement our products, but to help define clear requirements for several aspects of the project, including: project organization, responsibilities of the various team members, validation strategy, design/implementation methodology, and documentation.

This project is noteworthy for NovaTech as it will be the first installation of the D/3 and/or FlexBatch in France, as well as the first D/3 pharmaceutical application in Europe.

In the late eighties, Formosa Plastics Corporation made the decision to install what was then a state-of-the-art DCS system based on a PDP computer platform running the RSX operation system. Now, some twenty years later, Formosa Plastics will be upgrading their existing version 3.3 D/3 DCS system to the latest D/3 version 12.3-2 based on the current Windows server operating platform.

Even though the upgrade will include the transition from token ring networks to modern day Ethernet, and involve the recompilation of their databases over nearly 28 previous software releases, this upgrade will occur during a typical production turnaround. In addition, all of the existing applications, graphics, and historical operational data will be preserved in the newly upgraded system.

Moving forward, Formosa Plastics will have the latest NovaTech D/3 DCS offering open system architecture, unparalleled system flexibility and life-cycle reliability in support of their plant operations.

Just one more example of NovaTech's Platinum Pledge to "Never leave a customer behind".

B U Z W O R D S

**Dear Valued NovaTech Customer,**

As the worldwide economy emerges from the most severe downturn since the 1930s, we at NovaTech wish to express our gratitude for the business that you, our customers, have provided for us over the past twelve months. While adjustments were required during this difficult time, we are happy to report that our entire customer base has emerged from the recession intact, and we are on track for another profitable year.

Like you, we have used the past year to prepare ourselves for the inevitable resurgence of the U.S. and global economies. We have made substantial investments in engineering and product development to facilitate the improvement and expansion of your operations.

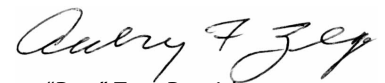
NovaTech applications engineering has expanded in headcount and capabilities, and offers a new suite of packaged services (called D/3 Optimizer) tailored to help D/3 users get the most out of their systems and Facets contracts. The upcoming D/3 User Conference (May 23-26, 2010) will debut the much-anticipated new D/3 console, a more powerful and

flexible visualization and information sharing solution for the D/3 process enterprise.

Several new modules and retrofit panels for the 8000 Series I/O have already seen successful deployment at MillerCoors and other NovaTech customers, and continue to provide superior value with their 1:6 redundancy and other innovations.

In Utility news, we are proud to report that Orion has been identified as the leading "flexible substation automation platform" in the U.S. by Newton Evans (2008 market survey).

As we move past the challenges of 2009, we do so with a certainty that our value to customers is strong in any business climate. Adaptation and innovation have always been at the core of our business, and these strengths serve our customers in lean climates and times of opportunity alike.



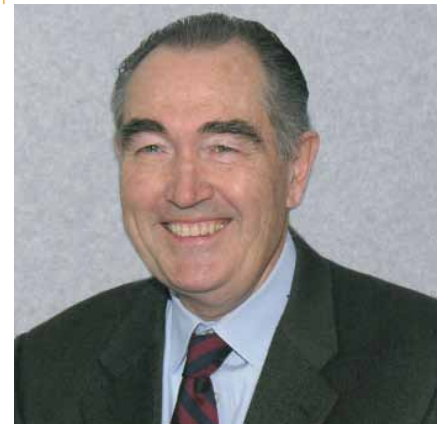
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## The New D/3<sup>®</sup> Console is coming!

Join us in Baltimore May 23-26, 2010 to try the new console in our expanded hands-on Demo Room and exchange ideas with other D/3 users in sessions\* including:

- D/3<sup>®</sup> Console
- Optimize Your D/3
- 8000 I/O Configuration
- I/O Network Configuration
- User Applications
- Simulation
- SABL<sup>®</sup> Programming Standards
- Focus Groups: PCM and Next Steps for D/3 Configuration

\*subject to change

### SAVE THE DATE

**May 23-26, 2010**  
 NovaTech D/3<sup>®</sup> User Conference, Baltimore, MD

Please visit the [Upcoming Events](#) section on our website for [Upcoming Webinars](#), [Technical Symposiums](#), [Industry Tradeshows](#) and [Conferences](#).

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- **Feature:** D/3<sup>®</sup> Optimizer
- **8000 Series I/O at MillerCoors:** Multiple legacy I/O families replaced at several facilities
- **Formosa Upgrade:** Formose Plastics goes from version 3.3 to 12.3
- **D/3 in France :** D/3 and FlexBatch<sup>®</sup> system meets 21 CFR Part11 / GAMP 5 Compliance