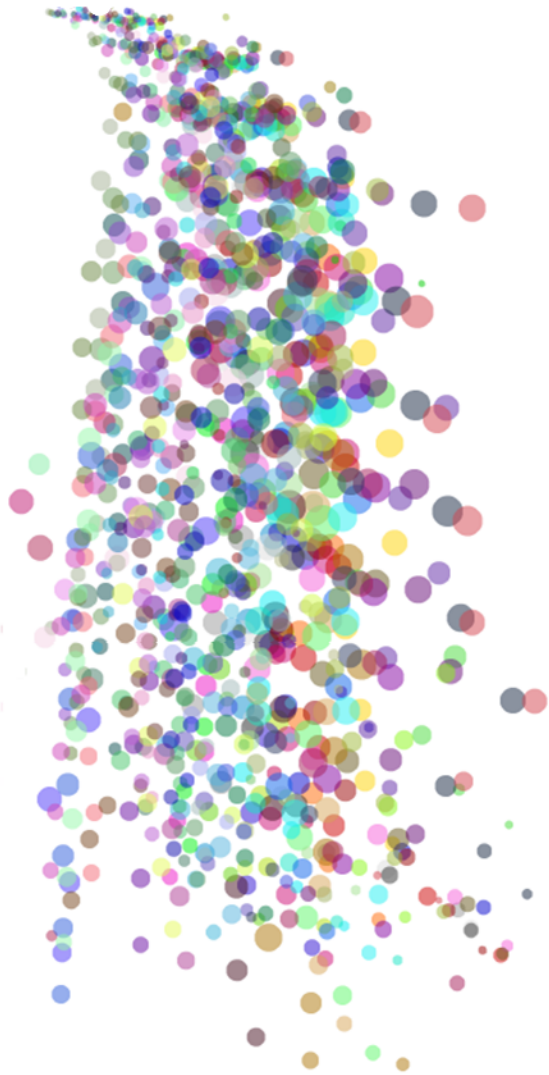


# ProcessPad

## Bioprocess Monitoring and Data Visualization Platform



ProcessPad is a data visualization and process monitoring platform for the bioprocess data. The visualizations are specially designed for bioprocess data and provide the user to easily visualize, analyze and interact with process data. ProcessPad has an extremely user friendly browser based interface to give your employees an easy on-demand access to bioprocess execution data anywhere within the secure company intranet. The product will be useful for process development, technical operations, manufacturing sciences and manufacturing groups. ProcessPad's unique visualizations will help managers, scientists, engineers, supervisors and operators within these groups to effectively communicate process issues and spot unusual trends.

## Key Highlights

- Secured web-browser based access
- Automatic data assembly
- Rich contextual visualization
- Process Monitoring
- Process Capability and trend rules
- Lot Genealogy and buffer/media tracking
- Visual timeline of events and batches
- One click analysis sharing
- Analysis discussion forums

## Data Assembly

ProcessPad assembles data for various batches, parameters and unit operations from MS-Excel templates. The MS-Excel templates have been designed specifically to capture bioprocess data and are flexible to capture various kinds of data such as time-series data, end-point performance data, textual observations and events. While doing so, the assembly engine keeps intact the relationships that exist between batches, unit operations and parameters and stores them into a central database. The platform is flexible to enable on-the-fly addition of any number of parameters by the system user without the need of any special IT skills and expertise. In addition to data capture via Excel, ProcessPad can also be configured to connect to other existing RDBMS data sources.

## Automatic Lot Genealogy

ProcessPad is uniquely programmed to automatically generate lot genealogy for any batch without the need to define any fixed hierarchy for the process unit operations. This makes the tool highly flexible to accommodate any process and does not need any process specific configuration. This eliminates or minimizes the need of any IT intervention for configuration and customization when a new process or product is introduced.

## Visualizations and Analysis

The visualizations in ProcessPad specifically cater to the needs of bioprocesses that involve lot of numeric data as well as events and textual information. In designing various charts and visualizations, a special focus has been given to displaying events and textual information related to the particular batch. This provides rich context to the various trends/charts/visualizations bringing together all the necessary information in one window that is required to draw useful conclusions about the process and the product. The browser based access to these visualizations gives this an edge over desktop tools by making the right information available to right people at the right time. This on demand accessibility of useful information proves of real significance in timely and efficient handling of various kinds of analysis requirements for:

- Root Cause Investigations
- Process Monitoring and Trending
- Tracing and tracking of buffer/media and product batches
- Outlier batch detection
- Cell Culture Profiles Comparison and Trend Analysis
- Process Capability assessment

## Key Highlights

- Flexibility to add new products, process, unit-operations and parameters
- User friendly interface and minimal training
- Easy deployment and maintenance

## Sharing and Collaboration

Data and analysis often need to be shared among various stakeholders in order to discuss process and product issues and problems. With ProcessPad, analysis can be shared with just a click with the relevant people. The shared analysis is then available for the people (among whom the analysis is shared) to discuss and comment providing a forum to share process insights about the problem. The sharing feature is helpful in sharing with external parties where only particular information needs to be shared and access to the whole application is not required.

## Data Export

The data aggregated by ProcessPad can be easily exported in analysis ready format which can feed advanced statistics or multivariate analysis tool. This takes away the pain of manual assembly of information for various batches, parameters and unit operations significantly bringing down the unproductive time and effort that goes in collecting and arranging the data.

## 100% browser based

ProcessPad runs on any modern (JavaScript and Flash compatible) web-browser. It doesn't require any installation on end user PC's and runs as a web-application completely from a securely hosted server within the company intranet. Key advantages to our 100% server side (desktop independent) technology are:

### Security

Being installed on a secure server with controlled access the application is secured within company firewalls. End user will only have access to the front end delivered via a web-browser. Granular access roles can be defined for system administrator, general user (company employee) and external user (client or vendor) based on users' need to access data for a drug product. Web based application also enables easy and secured sharing of information over the company LAN/WAN network.

### Scalability and Easy Maintenance

The application can easily scale to handle data from multiple products and processes. The application deployment is extremely simple via installation at a central server with no need to install or upgrade any client application on the user machines.

### Training and Usability

The user familiarity with browser based applications makes it very user friendly. Furthermore, the application is designed ground up for bioprocess professionals. This considerably cuts down the roll out time and the resources/investments needed in training.

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