



Samples Management

Samples management represents the most important functionality used by laboratories. It is in fact by providing a large range of flexible functions that more efficient laboratory management can be implemented to satisfy all quality activities.

LabPlus provides all the functionality your laboratory needs and even more. With the extensive line of LabPlus tools, all work cycles related to sample management have never been so easy to configure and so simple and rapid to implement. This document further describes the generic functions and tools that can be used to deliver the perfect set of business rules that will satisfy all your needs.

As with all the LabPlus system entities, them being generic or configured, identification can be defined as required by laboratory, laboratory section, analytical request, project, or based on any other entity. It is no more required to work with a vendor predefined system ID numbering.

As well, only the required attributes, for each role or laboratory profile, will be available. These dynamic attributes can be chosen between generic or configured ones as needed. Having to customize your system by deleting out-of-the-box attributes in various screens that still will have to be maintained as empty fields in the database is a thing of the past!

Already your LabPlus system can satisfy your needs for data identification and description without having to develop any code to modify the LabPlus features. Creation of sub samples has never been so simple; just one click away! Moreover, there is no limit to the sample hierarchy level. The same process can be used to create composite samples. A complete range of functions is provided within LabPlus for samples grouping based on your needs and to allow information exchanges between these samples. As such, a simple function allows you to modify any attribute values of one or more samples in a single process (batch edit).

Sample attribute values can be captured in various ways; they can come from a request (cascade), transfer from the web service interface (automatically), enter by users (manually) and manage by Plug-ins (business rules such as default value, calculated values, etc.). All these modes can be used to acquire information within the same sample. Additionally the LabPlus history and audit features will automatically capture all information pertaining to data creation, change, and versioning.

Samples can be created manually and automatically using various mechanisms: by third-party software interface, by specific business rules defined in Plug-ins, by the LabPlus task scheduler, and by LabPlus analytical profiles and test plans. As for all LabPlus system entities, samples have a life cycle that can evolve from login to disposal. States and statuses available at each sample life stage are managed by the LabPlus State machine which is entirely configurable and reside in the LabPlus configuration file. The engine can be configured to allow any possible status changes and this for each stage associated to the sample life cycle. It is the easy to configure a data list comprising all the sample statuses and to define for each cycle stage which statuses should be available or set as a default value for a sample. The



LabPlus engine is one of the most important features as it is no more required to try to make do or customize a vendor specific list of statuses as well as to customize sample life cycle business rules to incorporate these new statuses!

LabPlus also offers the ability to create various sample reports such as analytical, discovery, statistics, chain of custody and many other types of reports. All these reports can also include bar code technology.

As soon as a sample is logged-in, analyses can be assigned and as described in the LabPlus feature « Analysis » many other functions are available to better manage the laboratory workload and backlog, both based on samples and analyses to be performed.

The cornerstone of your laboratory activities, samples management can be adapted to your samples creation, follow-up, and documentation work cycles without any programming effort; with LabPlus, the solution that Quality demands.