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TIBCO Spotfire® Platform for Clinical and Translational Medicine

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ABSTRACT

Learn about the TIBCO Spotfire® Clinical software and how a focus on standards allows us to go from STDM to analysis and review in minutes, leveraging out-of-the-box templates. In addition hear how PerkinElmer, Inc. is broadening data access to include omics and related data to enable translational analysis in a single environment.

Note: Safe Harbor. This document shows current intentions regarding product features, behaviour, schedules and support; these intentions may change without notice as we respond to customer requirements.

Any unreleased products, services or features referenced herein are not currently available and may not be delivered on time or at all. Customers who purchase PerkinElmer's Informatics applications should make their purchase decisions based upon products, features and services that are currently available.

INTRODUCTION

The number of clinical trials being conducted worldwide each year has been steadily increasing, which places additional demand on the need for improved technologies to get optimum value from the data collected. With a broad range of study designs, varying data collection methods and time points, efficient data analysis in clinical development is imperative. The appropriate analysis of the data is important not only for patient safety, but for efficient running of clinical trials and addressing problems while they are still manageable.

The TIBCO Spotfire® platform is one of the premier solutions in the analysis of data generated in the clinical development process. In an IDC Health Insights Perspective, entitled: "Familiar and User Friendly: TIBCO Spotfire® owns the Front End in the Life Sciences", TIBCO Spotfire was called: "the de facto end user interface of choice for the strategic assessment of clinical data."

The flexibility of the TIBCO Spotfire® platform has allowed it to be applied in a wide number of use cases in clinical development including: Clinical data monitoring and review, Medical review, Clinical Operations, Resource Management, Pharmacovigilance, Risk-Based Monitoring, Portfolio/project management and Outcomes Analysis.

PerkinElmer, Inc., through a strategic alliance with TIBCO Software, Inc., has been granted exclusive, worldwide rights to distribute and resell licenses to the TIBCO Spotfire® software platform in both the scientific and clinical research and development markets. The strategic alliance combines the depth and strength of PerkinElmer's domain knowledge and solutions with the analytical capabilities of the TIBCO Spotfire® platform to provide a broader, richer set of analytical solutions.

PerkinElmer has already delivered value-added products compatible with the TIBCO Spotfire® platform in multiple areas of scientific research and development such as Chemistry, Genomics, High Content assay analysis, etc. The expansion of the strategic relationship in the summer of 2013 included the addition of the clinical research and development market and it is the goal of

PerkinElmer to investment in the delivery of value-added products and solutions for that market as well. Additional efforts are being made to foster improved collaboration and integration between discovery research and clinical development to serve the increasing interest in the translational approach to medicine.

TIBCO SPOTFIRE® PLATFORM IN CLINICAL

It is PerkinElmer's vision to provide solutions tailored to meet the evolving business needs of our clinical R&D customers and accelerate their transition to an end-to-end holistic approach with respect to data and data analysis across clinical.

PerkinElmer's approach to solutions in clinical research and development will be based around a number of key pillars; standardized data connectors, leveraging data standards and standardized TIBCO Spotfire® software templates.

Standardized data connectors

The provision of standardized access to common clinical data sources, e.g. SAS®, Oracle Life Sciences Data Hub, Oracle Argus, etc. will facilitate quick and easy access to the most relevant data. To date this has been achieved through professional services lead engagements but there will be significant benefits to customers in providing out-of-the-box connectivity to the most common data storage environments.

Leveraging data standards

A key component of standardizing the approach to clinical data analysis is being able to leverage existing data standards such as SDTM, AdAM, SEND, etc. A metadata-based mapping layer will allow for incoming data to be mapped to a variety of data specifications.

Standardized TIBCO Spotfire® software templates

Standards-based data access allows for the delivery of a solid and reusable set of TIBCO Spotfire® solutions, which can be easily used in the analysis of data across studies. PerkinElmer will provide a suite of products and collateral tools to facilitate the implementation of TIBCO Spotfire® products in a fully validated environment.

TIBCO SPOTFIRE® PLATFORM IN TRANSLATIONAL MEDICINE

It is the vision of PerkinElmer to provide a holistic approach to data analysis across translational medicine, which will involve moving beyond traditional clinical data to incorporate high content assay and omics data to facilitate translational medicine approaches. The approach taken in translational medicine will closely mirror that outlined for clinical R&D and again will depend on the three pillars of data connectors, data mapping to industry standards and standardised TIBCO Spotfire® analytic solutions.

CONCLUSION

The flexibility, ease of use and technical strength of the TIBCO Spotfire® platform combined with PerkinElmer's commitment to delivering best of breed solutions in Clinical R&D and Translational medicine will ensure that the TIBCO Spotfire® platform remains the analytics leader into the foreseeable future.

REFERENCES

TIBCO Expands Strategic Spotfire® Relationship with PerkinElmer to Include Clinical Research and Development Market

<http://www.tibco.com/company/news/releases/2013/tibco-expands-strategic-spotfire-relationship-with-perkinelmer-to-include-clinical-research-and-development-market>

IDC Health Insights Perspective: Familiar and User Friendly: TIBCO Spotfire® owns the Front End in the Life Sciences

<http://spotfire.tibco.com/assets/blt0196ca8777bf2d5b/idc-perspective-spotfire-life-sciences.pdf>

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