

Strategy for Designing Electronic Lab Notebook Workflows Both Flexible Enough for R&D <u>and</u> Comprehensive Enough for Regulated Work Brian D. Beato*; April L. Pisek; Jessica M. White AIT Bioscience, 7840 Innovation Boulevard, Indianapolis, IN 46278

Purpose

Electronic laboratory notebook (ELN) workflows are typically designed for <u>either</u> research <u>or</u> regulated use. Documentation requirements for regulated sample analysis are unnecessarily comprehensive and rigid for free-form research. Creating and validating separate templates targeted for different uses is inefficient. Presented here is a widely applicable, strategy for designing practical ELN workflows (templates), whereby <u>the same template</u> can be used across the <u>full range</u> of regulatory requirements, from non-regulated R&D to fully regulated sample analysis.

Key Features of Strategy:

- Validating a single, multifunctional template is more efficient than validating multiple templates targeting different experiment types.
- Valuable ELN functionality is made available and practical for R&D experiments to whatever extent desired by the end user for any given experiment.
- Experiments performed during R&D, where 21CFR Part 11 compliant documentation and error checking are not required, are prevented from use in support of regulated sample analysis.

