L15 - Tools that Simplify Product Sizing, Selection and Design
Agenda

Tool & Lab Overview

Where to access the tools off the web

Survey
Agenda

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Survey
How do you select automation products for your projects?
Specifying Control Systems is Complex

- Over 350,000 standard products
- Working with paper catalogs, selection guides, and data sheets can be cumbersome and inefficient
- Desktop applications and Web-based Tools provide the answer!

Partial Set of RA Product Catalogs and Data Sheets
Tools Working Together to Address Your Selection Assistance/Sizing Needs

- Get selection assistance on standard & configured products
- Validate catalog numbers
- Access product information
- Estimate project costs
- Create RFQs, Proposals, Reports

- Cross-validate parts intended to work together as system
- Validate systems components that sit on same backplane
- Validate network based on devices on it
- Analyze, optimize & simulate solution against application requirements

Low
Integrated Architecture Tools & Resources
ProposalWorks
Integrated Architecture Builder
MotionAnalyzer
Integrated Architecture Tools & Resources

High
To make life easier we have

Integrated Architecture Tools & Resources

Sizing and Selection tools simplify your life and save you money
Premise of the Lab

You are designing a shampoo bottle labeling line. Bottles enter on the right and exit on the left:

1. Entrance conveyor controlled by PowerFlex® 525
2. Label applied by Kinetix® 5500
3. Label smoothed by Kinetix® 5500
4. Exit conveyor controlled by PowerFlex® 525

Drives are controlled by a CompactLogix controller and everything communicates via EtherNet/IP.
Lab Format

- **IA Tools: Popular Configuration Drawing**
  - Use to learn about product combinations and limits

- **Integrated Architecture® Builder (IAB)**
  - Used to select and size the controller and verify network performance

- **Motion Analyzer (MA)**
  - Used to select and size the drives and motors

- **ProposalWorks™ (PW)**
  - Used to combine the results of IAB and MA and to create the final report/proposal as well as select additional components & documentation

- **IA Tools: Drive and Motion Accelerator Toolkit**
  - Use to create application code for the controller and HMI
for Select, Develop, Commission and Maintain Portions of your project

- Popular Configuration Drawings - Guidance for product selection based product capacity
Controller Selection

- Guidance for controller selection based on function and cost while verifying network performance
Servo Drive & Motor Selection

- Guidance for drive and motor selection based on application requirements (motion profile and mechanics). If you undersize, then you can never achieve required speeds. If you oversize, then you paid too much!
Guidance for component selection along with providing the complete proposal
Drive and Motion Accelerator Toolkit – Application Code for you Controller and HMI and more!
**Important Lab Notes**

- The Motion Analyzer user interface is changing in 2018. So to insure that the lab instructions and screen shots match your display DON’T use the shortcut and favorites in the browser rather open the browser and manually type in

  https://motion-analyzer-lab.azurewebsites.net

- Pricing in IAB in PW changes multiple times in a year. Prices change and can expire. So since this event takes place over an entire year you may see prices not match or displayed as “n/a”. Ignore this issue. If you wish to see what pricing looks like, just refer to the lab manual.
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Access the tools off the web

- ProposalWorks™ and Integrated Architecture® can be downloaded & installed onto your computer from

- Motion Analyzer is cloud based and is accessed at
  - [https://motionanalyzer.rockwellautomation.com/](https://motionanalyzer.rockwellautomation.com/)

- IA Tools and Resources can be found at
  - [www.ab.com/go/iatools](http://www.ab.com/go/iatools)
Free Apps

**ROK Catalog, IAB Mobile, & SLC/PLC Migration App**

- Download from iTunes and Google Play Store
Thank You!