Gaining Advantage







dEX 2.0 Software for DataTaker DT80 Series



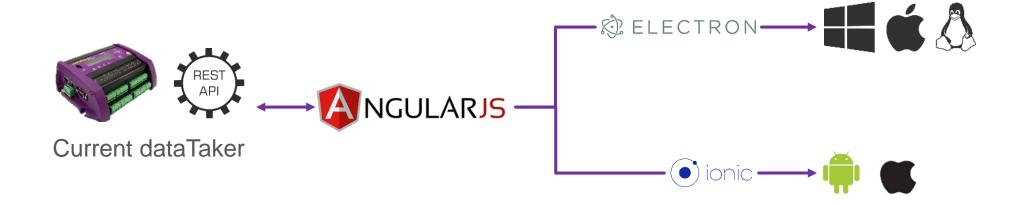
Design Philosophy

AngularJS is an open source full featured JavaScript framework



- AngularJS is a structural framework that can be of help in using Single Page HTML for declaring dynamic views in web-apps
- Promotes Code Reusability With Angular, developers can reuse the codes that were previously used in other different application, thus promoting code reusability and making Angular a unique and outstanding framework
- Faster Application Development Angular makes everything from development to testing and maintenance quite fast and quick. The MVC (model view controller) architecture assures this
- Play Components With AngularJS, you can add existing components to a new application by simply copying and pasting the code

System Architecture



Software Modules

API Interpreters

- dataTaker Series 3 & 4
- Next Generation DT products



Angular JS Shared Modules

- Visualizations Module
- Device Configuration Module
- Data Explorer
- User Preferences





Apps

- Desktop app
- Mobile app (Stage 2- Q2 2020)
- Webpage application (Stage 3- Q3) 2020)







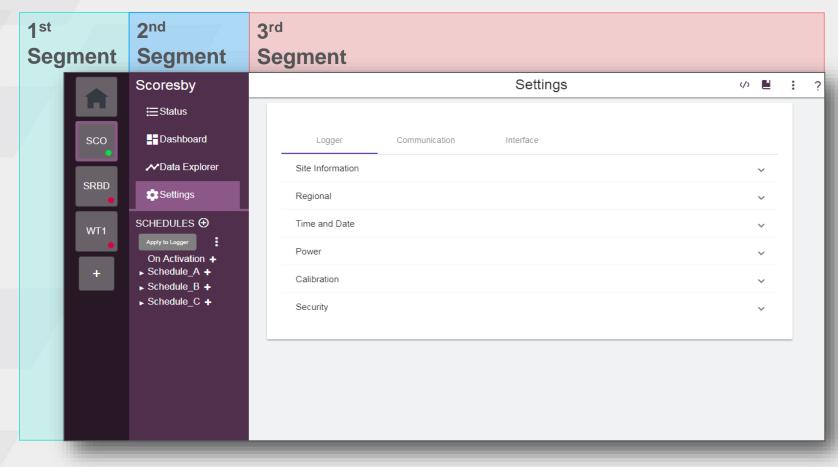
dEX 2.0 Introduction

dEX Application



- Compatible with previous dEX program
- New improved UI design to provide agility and flexibility to new or seasoned users
- Single 'centralized' page for accessing all registered loggers:
 - Each logger has individual access for programming and data display
 - Easy navigation from one logger to another via logger tab with connection indicator
 - Home button for displaying data from various loggers in the network
- Template creation for improving speed of scalability with porting configuration to different loggers

Tab Structure



1st Segment:

 Selecting home page or individual logger

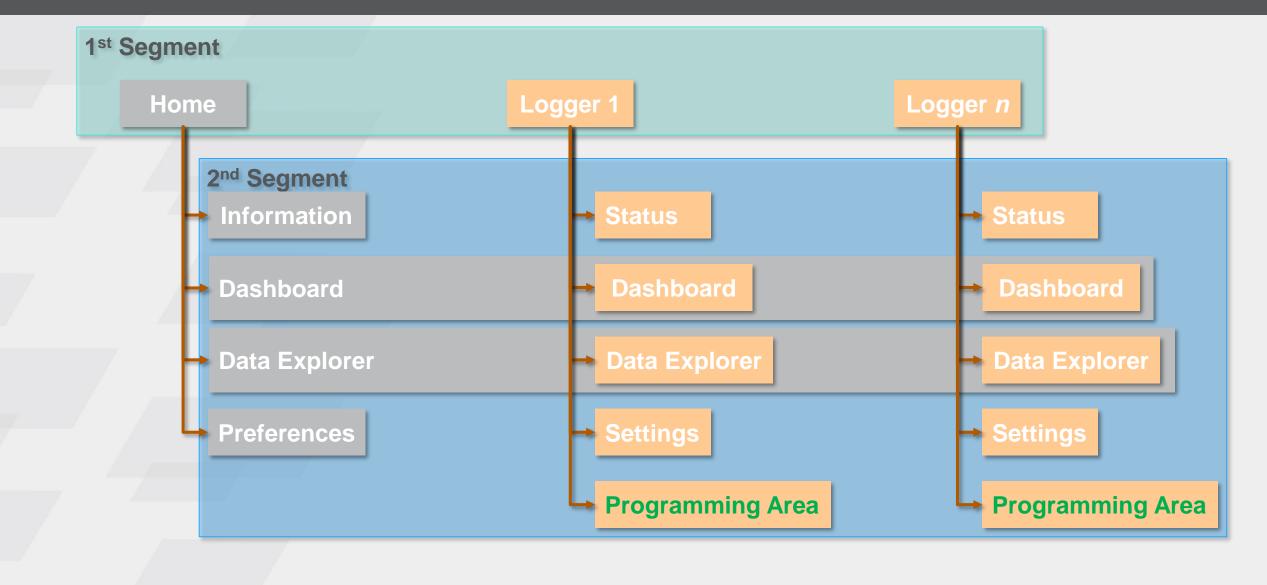
2nd Segment:

 Further options after selecting 1st column

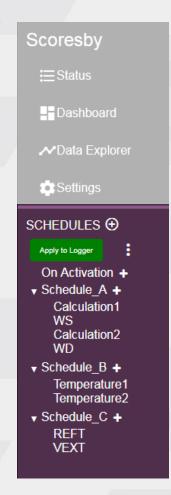
3rd Segment:

Action area

Tab Structure - Continue



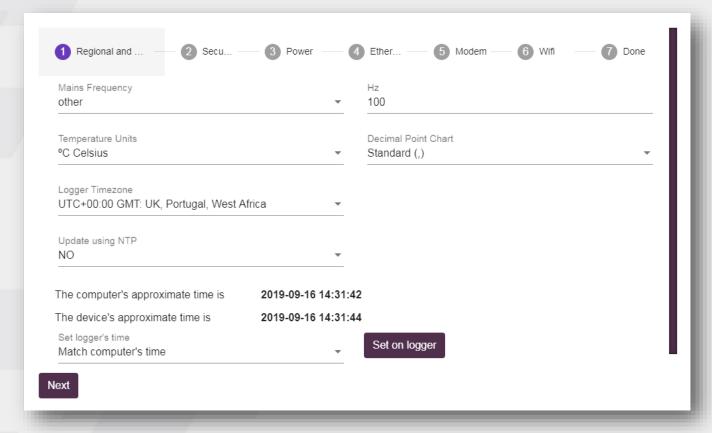
Programming Area



- Located on 2nd segment on every individual logger
- Only available when the logger is connected (status: green) or during creation of program template
- Simplify button on adding schedules/ channels and sending the program to the logger
- Using similar tree structure as previous dEX and retain channel functions such as move up/ down and duplicate
 - Move up/ down is limited within a schedule
- Located at the same page as Dashboard and Data Explorer
 - No need to switch back and forth between programing and data viewer

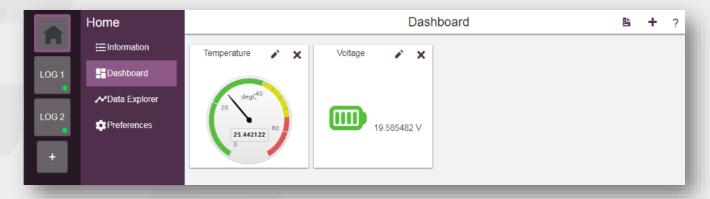
New Features – Data Viewer

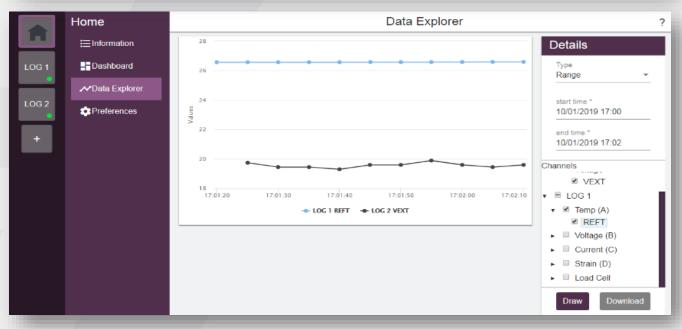
Setting Wizard



- Accessible from individual logger,
 when connection status is green
- Separation of profile configuration to the main program
 - Changing profile does not need changing program
- Better assistance to first time users
- Categorized and highlighted the default setting – new user does not necessarily change the setting

Home Page – One Page Views All

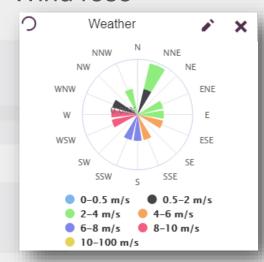


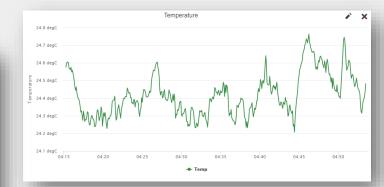


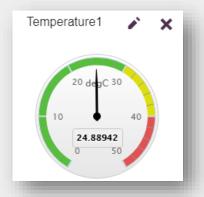
- Home Page can display or unload data from all registered loggers
 - Dashboard and Data Explorer
 Home version has different
 function compare to individual
 logger version
- Users may select specific data from different logger:
 - To be plotted next to or against each other
- User may change the language setting of dEX application

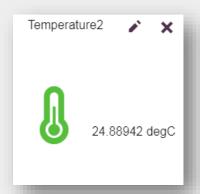
Dashboard – Real Time Viewers

- Dashboard for displaying real time data as Widgets (previously called Mimics)
- Selections:
 - Gauge
 - Digital Indicator with various icons
 - Chart (line, area, column) value vs time
 - Scatter Plots value1 vs value2
 - Wind rose



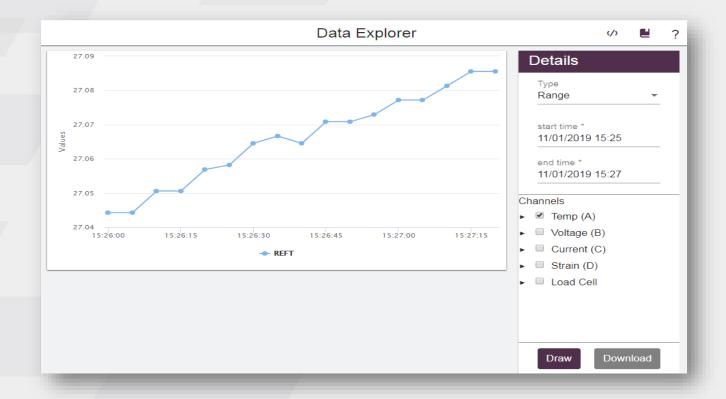








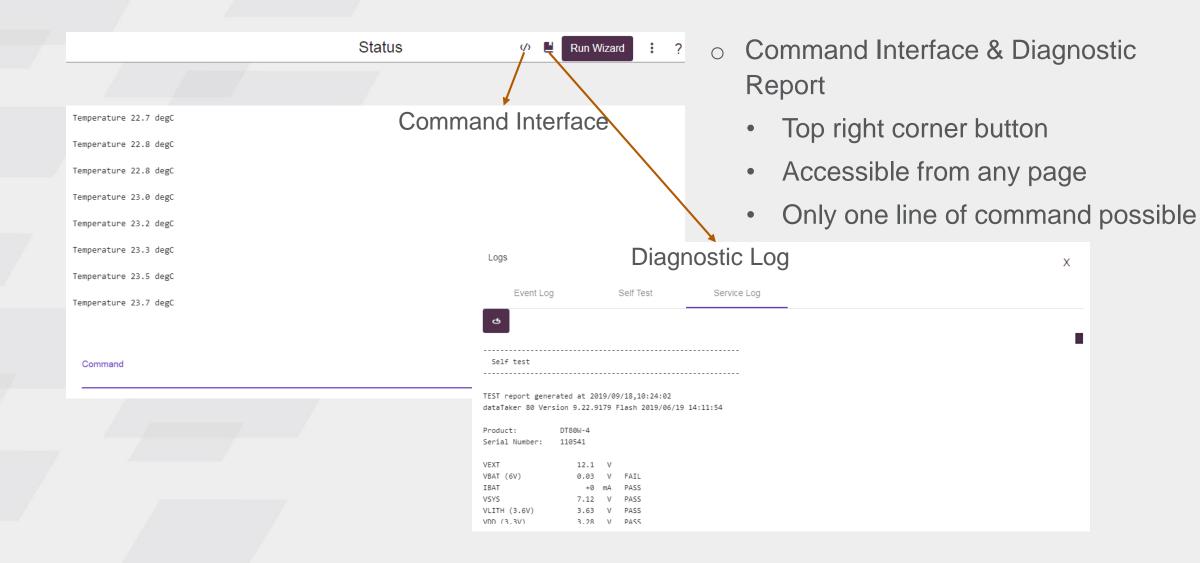
Data Explorer – Historical Viewers



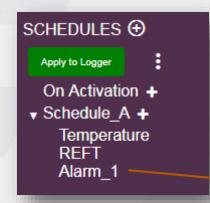
- Data Explorer for displaying or unloading all historical data or based on time frame setting
- Downloadable file as CSV or DBD format

New Features – Programming

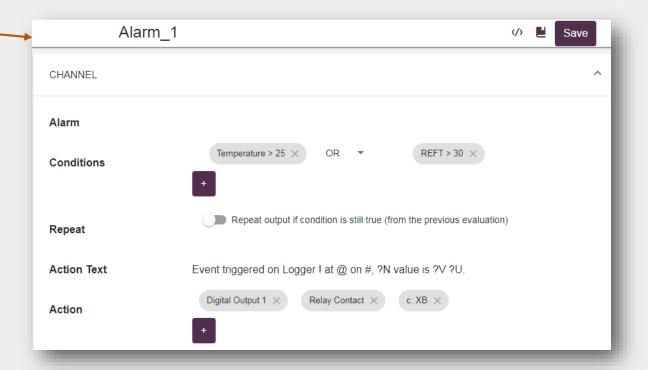
Function Relocation and Adjustment



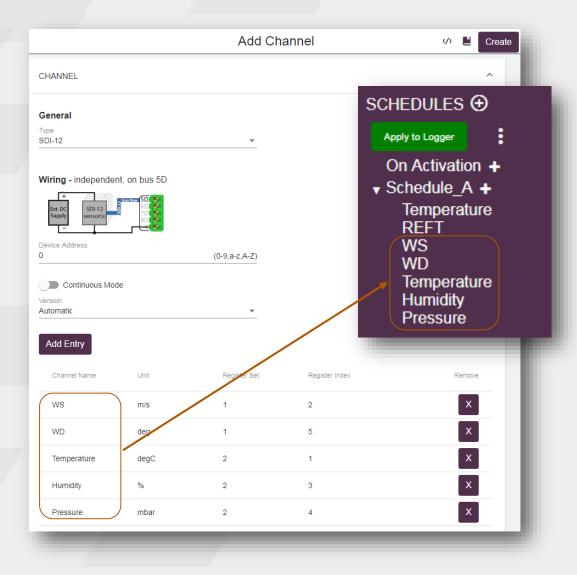
Alarms – New Approach



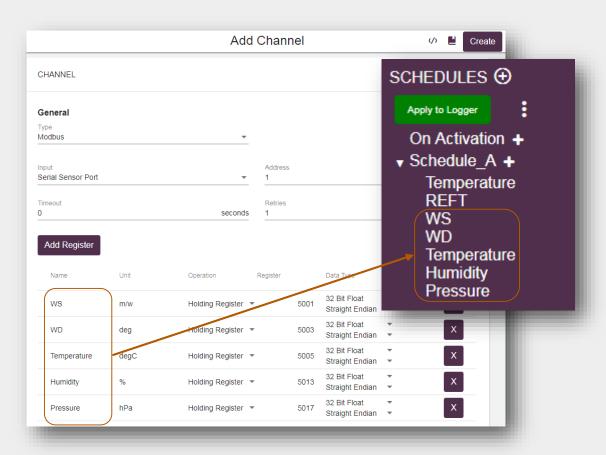
- No longer part of a channel but becoming a channel
- The same approach to text programming rather than following the old dEX method
- Allow multiple condition to be tested with Boolean link (AND, OR, XOR)
- Multiple outputs are possible:
 - Text
 - Digital state, Relay, CV
 - Email
 - Command Trigger



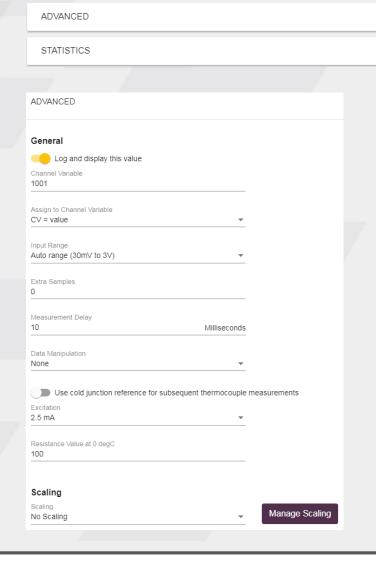
SDI12/ MODBUS - New Approach

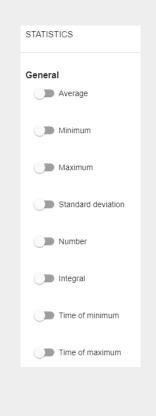


- Single page channels creation
- Easier for parameter mapping



Channel Hidden Options





- Advanced and Statistic options remain hidden (not displayed)
- Some channels have different Advanced option
- Without these hidden option, user may still run any measurement.
- Only for advance users



Thank you



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