Data Director® Toolkit

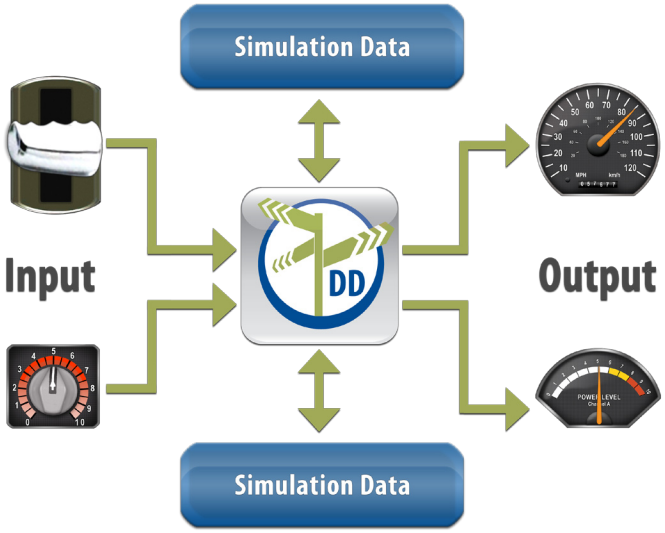
The Data Director seamlessly connects multiple data sources, such as math models or simulation data, to user interface objects with no programming. This tool is ideal for the Human Factors and Prototyping communities who wish to quickly connect instrumentation to physical data models in an easy to use GUI environment.

Instruments

The Data Director includes a library of common instrument types for out-of-the-box integration into user layouts using a drag-and-drop methodology. Users can extend the instrumentation library by purchasing additional RSO bundles from DiSTI or utilize content built with GL Studio.

Interoperability Modules

Data interoperability modules are loaded through a plug-in architecture. The interoperability modules serve as the bridge to connect the properties available in the instrumentation to the simulation parameters. The connections are made in the Data Director GUI without writing any application code.



Data Converters

Standard data converters are available to manipulate data values passing through the Data Director. Users select from a list of converter types in the Data Director's GUI to connect the asset data attributes. These converters allow the Data Director to handle disparities between simulator values and the instrumentation such as unit conversions.

Example Converters	
Assign	Simply passes value from the input to the output unchanged
Clamp	Restricts output to fit within a specified min/max range
Scale	Multiplies the input by a constant multiplier
Mean	Finds the arithmetic mean of the inputs
Offset	Adds an offset to the input
Custom	Use the plug-in SDK to create unique converters

Planned Data Director interoperability modules:

- » Concurrent Computer Corporation's SIMulation Workbench
- » MathWorks' Simulink
- » Telelogic Statemate
- » Laminar Research X-Plane
- » CIGI

Plug-In SDK

The Data Director includes a software development kit which enables users to embed Data Director configuration files into deployable user applications and create custom converters and importers.

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