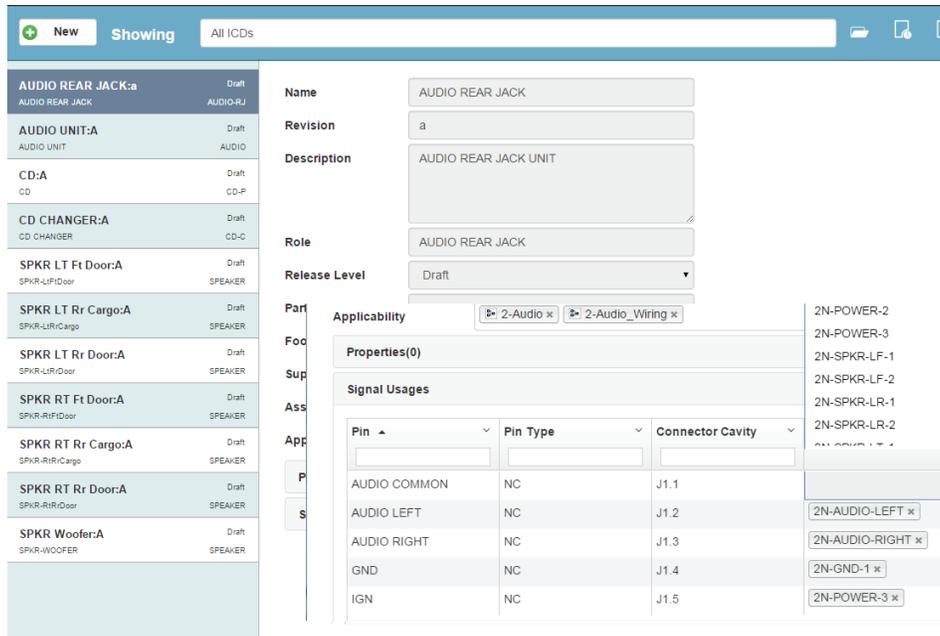


# Capital Devices

## Capture Device Definitions Into Capital



Capture device definitions securely into the Capital electrical design flow, with comprehensive data management.

### Device Definition and Verification

Capital Devices is a software application that allows librarians, component engineers and system designers to capture device characteristics directly into the Capital electrical design flow. Sometimes known as a “device transmittal” or “interface control document” this device-centered data is frequently the starting point for detailed electrical system design. Examples of devices whose characteristics can be documented include automotive ECUs, aerospace LRUs and other electrical components such as sensors, actuators, and switches.

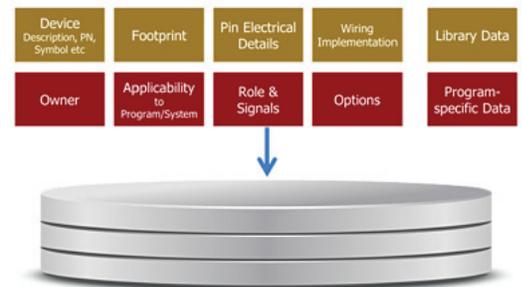
The data captured typically falls into two categories:

1. Generic device data that normally populates a component library: indeed Capital Devices is integrated with the core Capital library functionality. Examples include general description, part number, symbol, pin electrical details, pin plating, and connector mating data (footprints).
2. Data relating to how the device is used in a specific design or program context, sometimes termed “applicability”. Examples include ownership, roles, signal names, and option information.

Significant control and verification of input data is provided by Capital Devices. For example Capital Object Type Information ensures appropriate data is entered for different types of device; and dictionaries ensure only valid signal names can be used. Automatic data population is provided wherever possible.

### FEATURES AND BENEFITS:

- Data creation: provides a complete authoring environment for device library population and program applicability data
- Controlled & verified data entry: maximizes device definition data quality
- Data revisioning & release management: maximizes process robustness
- Controlled access within a centralized environment: improves data security while ensuring visibility to stakeholders
- Integrated application: reduces design costs and avoids errors by inserting data directly into the Capital flow
- Rich, extensible data model: supports broad information capture (examples: safety information, environmental information, data sheets)
- Spreadsheet-like tool with many ease of use features, accessed by web browser: supports a wide community of users
- Downstream automation: reduces design costs and eliminates errors by automatically creating logical or physical connectivity; DRCs verify devices used in designs correctly match definitions



## Secure Data Management and Reporting

Capital Devices creates native Capital data that is stored centrally for subsequent use. Security features such as user authentication & secure communication, and data management functions such as import/export and revisioning & release management are supported. These capabilities create a robust environment for managing device definition data while providing visibility to legitimate stakeholders, fully within the Capital flow.

## Downstream Automation and Verification

Pin signal names used in specific applications is a key data element typically captured using Capital Devices. Downstream, Capital Logic is able to use this information to automatically create pin-to-pin connectivity, both in the logical (nets) and physical (wiring) domains. This automation substantially improves the schematic capture process, reducing design creation time and improving design quality by eliminating manual connectivity authoring. Furthermore, checks can be run to ensure that devices used in designs correctly match definition data originated using Capital Devices. This last capability even extends to verification of connectors in the harness domain.

## Extended User Community

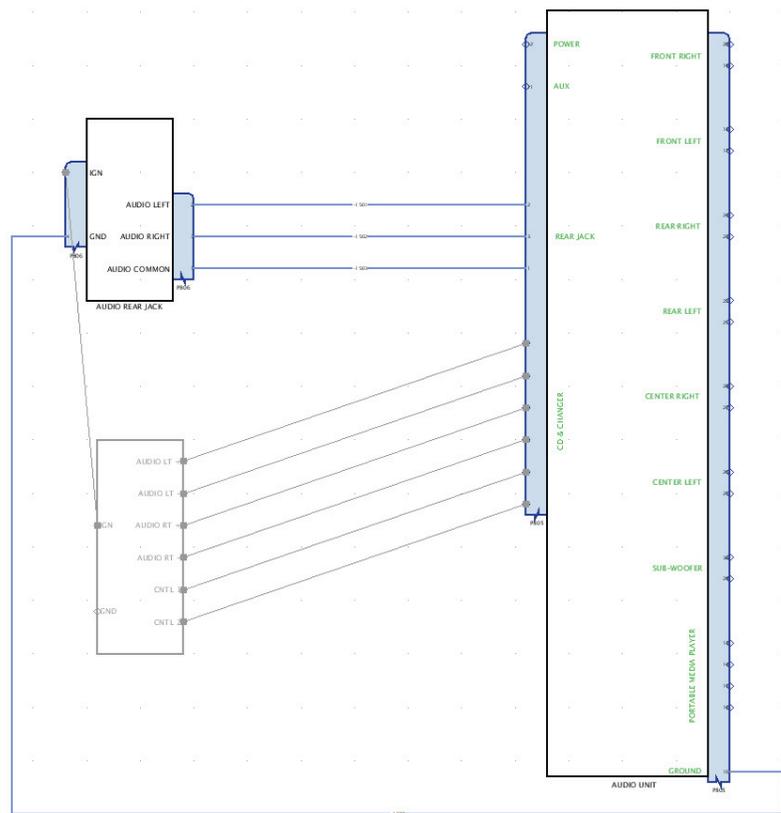
Capital Devices is intended for use by a wide community of librarians, device engineers and system designers. It is a web application, with a variety of browsers supported. So long as Capital database access is present users do not need a Capital software installation. Capital Devices is an easy-to-use, spreadsheet-like tool with multiple

productivity features such as pre-population, filtering, sorting, copying, and automatic completion. The combination of web architecture and ease-of-use make the software highly productive for most occasional users, in addition to intensive users.

## Hardware and Software Requirements

For details on hardware or software requirements please contact your local sales office or visit:

[www.mentor.com/supportnet/spt\\_configs/](http://www.mentor.com/supportnet/spt_configs/)



*Capital Logic can automatically create connectivity using data originated using Capital Devices*

**For the latest product information, call us or visit: [www.mentor.com/capital](http://www.mentor.com/capital)**

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