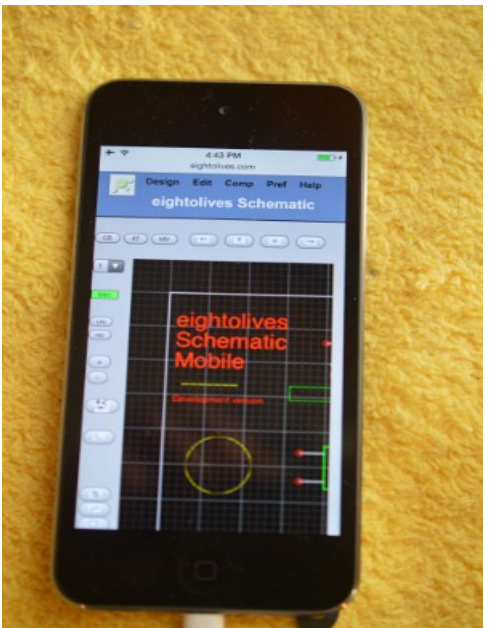
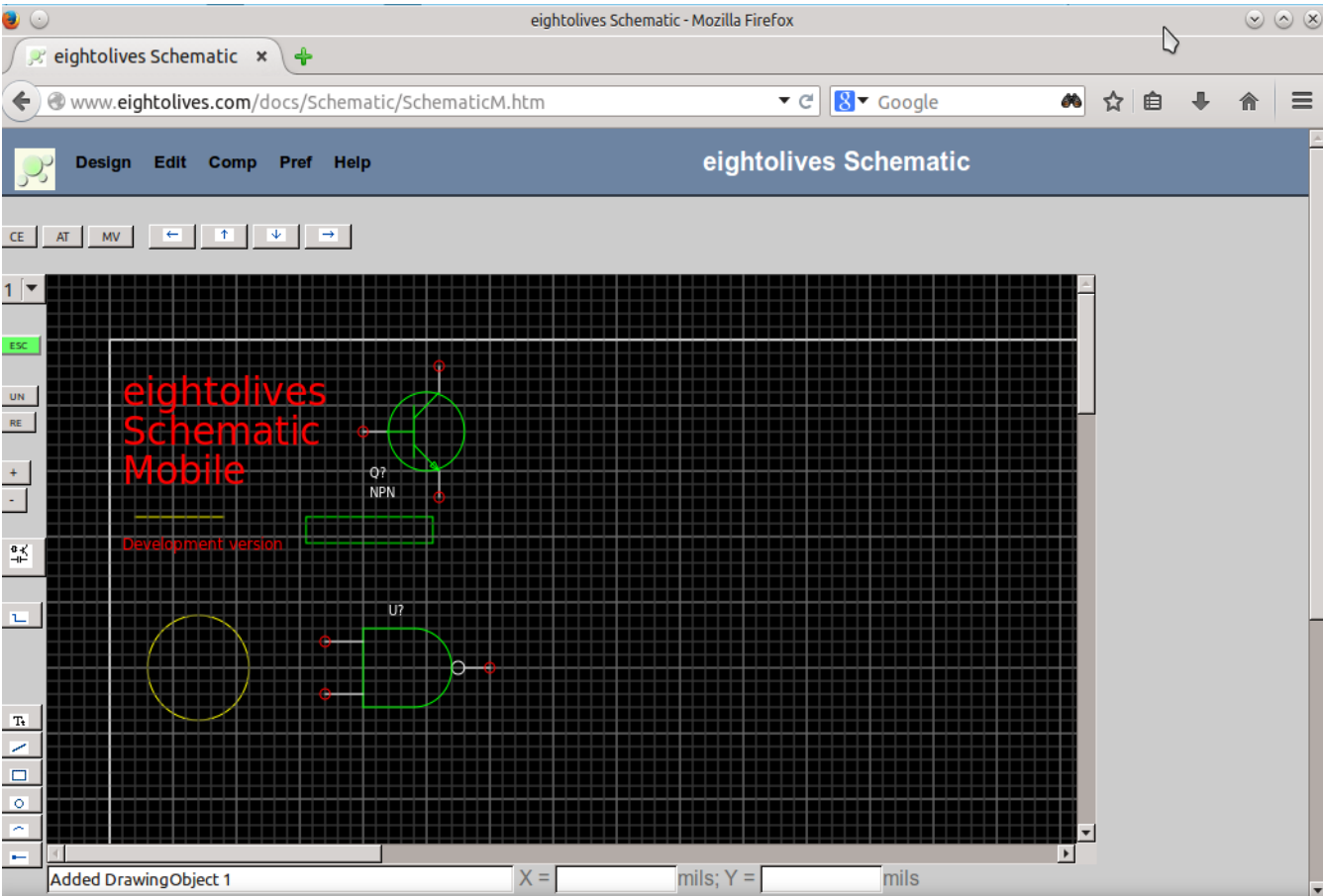




How to Run the Schematic Mobile Demo



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Start Schematic Mobile

- You can start from a link on the eightolives Home Page

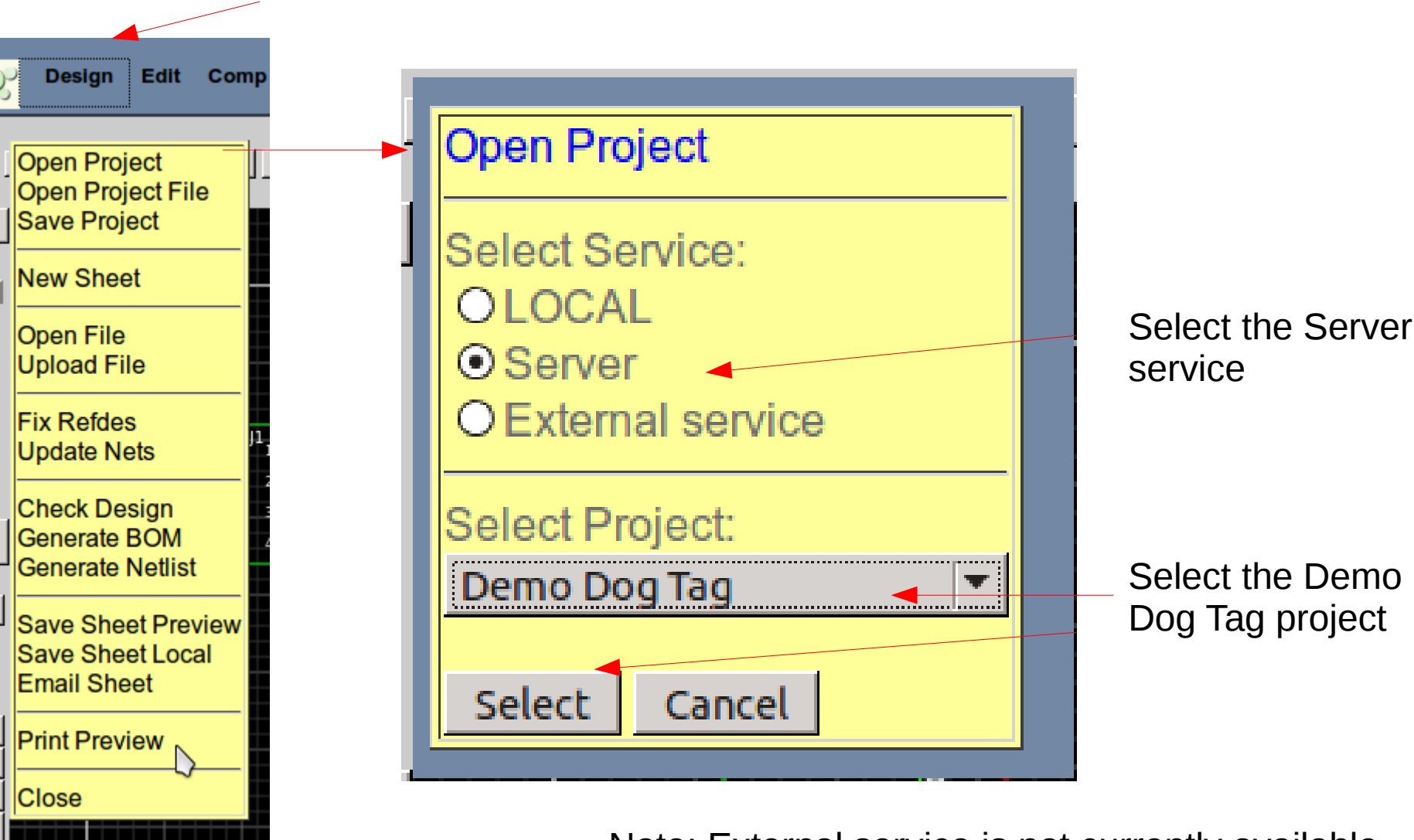
or

- Directly enter the URL:
<http://www.eightolives.com/docs/Schematic/SchematicM.htm>

- You can also start from the eightolives' QuickApps Menu by selecting the Schematic Mobile option



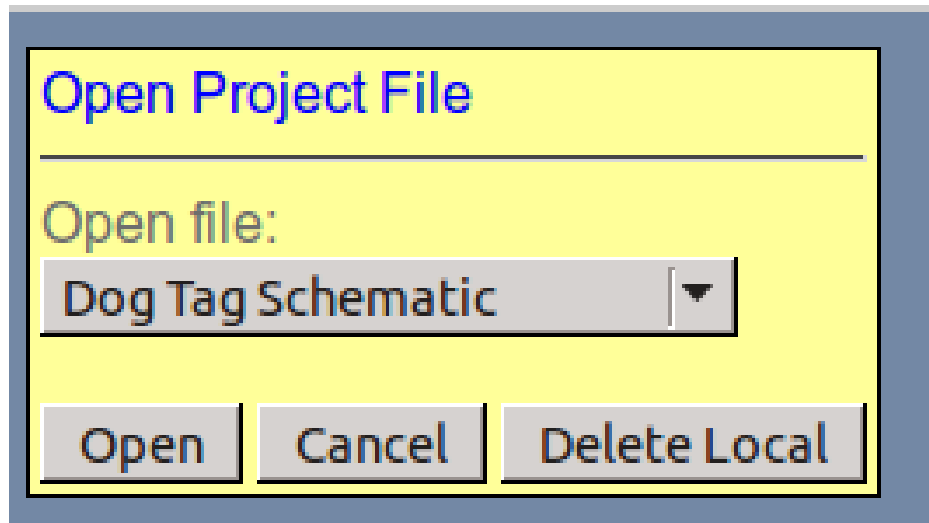
Click Design > Open Project



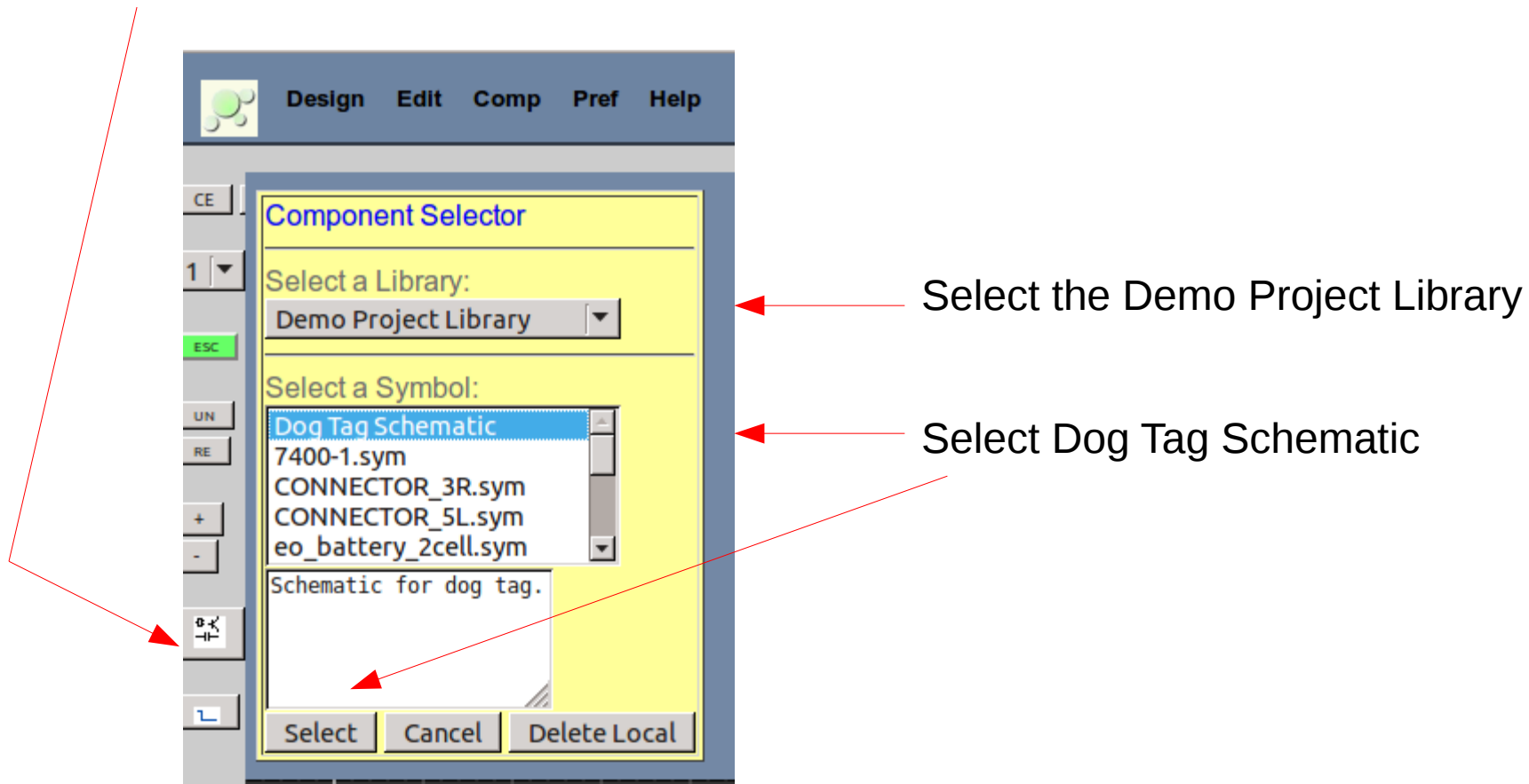
Note: External service is not currently available.

Click Design > Open Project File

- Select Dog Tag Schematic
- Click Open



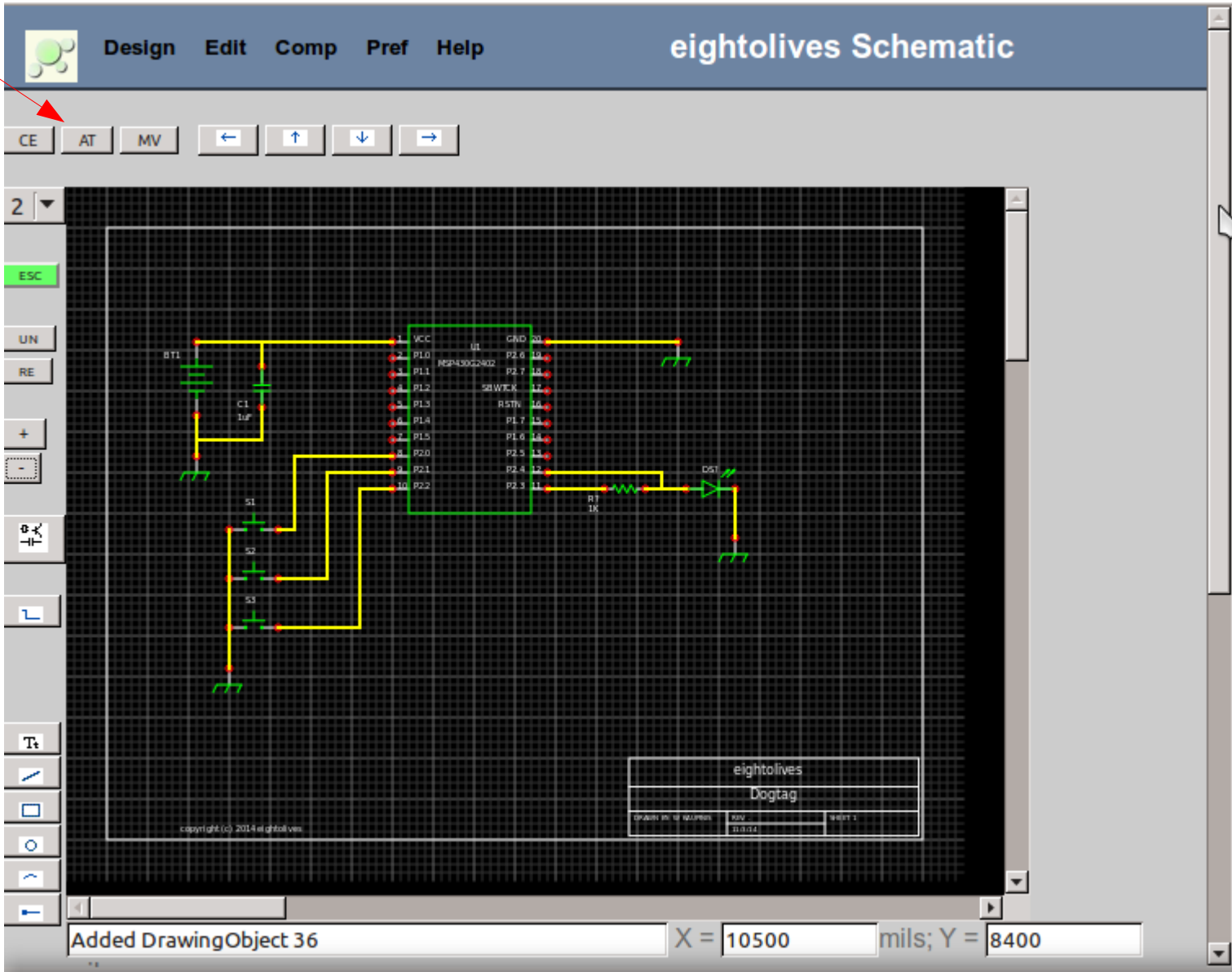
eightolives.com or Click the Component Selector Button



Use the AT button to edit sheet attributes.

The schematic loads starting on sheet 2 leaving the previous empty sheet (1) as-is.

Use the + and - buttons for zoom



Select Design > Check Design

```

Check Design      11/9/14

Net Checks:
Net error net N_00000004 joins net GND
Net error net N_00000007 joins net GND

Nets have 2 errors.

Check Sheet      11/9/14
Design_Name
1: SHEET 1

Check Sheet 1 OK
No warnings
    
```

Note that the one sheet Dog Tag Schematic was added to the blank initial sheet.

Note the 2 net errors.

Note that 2 parts have undefined refdes.

```

Check Sheet      11/9/14
Dogtag
2: SHEET 1

Error: refdes has ? at 7600, 4700
http://www.eightolives.com/docs/Schematic/eo_symbols/eo_led.sym
Error: refdes has ? At 6600, 4700
http://www.eightolives.com/docs/Schematic/eo_symbols/eo_resistor.sym
Warning: U1-2 P1.0 has no connected signal
Warning: U1-3 P1.1 has no connected signal
Warning: U1-4 P1.2 has no connected signal
Warning: U1-5 P1.3 has no connected signal
Warning: U1-6 P1.4 has no connected signal
Warning: U1-7 P1.5 has no connected signal
Warning: U1-19 P2.6 has no connected signal
Warning: U1-18 P2.7 has no connected signal
Warning: U1-17 SBWTCK has no connected signal
Warning: U1-16 RSTN has no connected signal
Warning: U1-15 P1.7 has no connected signal
Warning: U1-14 P1.6 has no connected signal
Warning: U1-13 P2.5 has no connected signal

Check Sheet 2 has:
2 errors.
13 warnings.

Check Design has 4 errors.
13 warnings.
    
```

Unconnected pins are only reported as warnings.

Reports appear in the Report window at the bottom or in a separate pop-up window.

Fix things

- Select Design > Fix refdes This tries to automatically assign refdes. (You must manually enter the refdes for “slotted” symbols such as 7400 or partial symbols e.g. “U2b”)
- Select Design > Update Nets This tries to resolve net naming issues.
- Using the sheet selector, choose 1 (the blank sheet) and then select Edit > Delete Sheet. This removes the empty sheet.

Select Design > Check Design

Check Design 11/9/14

Net Checks:

Nets OK

Check Sheet 11/9/14

Dogtag

1: SHEET 1

Warning: U1-2 P1.0 has no connected signal
Warning: U1-3 P1.1 has no connected signal
Warning: U1-4 P1.2 has no connected signal
Warning: U1-5 P1.3 has no connected signal
Warning: U1-6 P1.4 has no connected signal
Warning: U1-7 P1.5 has no connected signal
Warning: U1-19 P2.6 has no connected signal
Warning: U1-18 P2.7 has no connected signal
Warning: U1-17 SBWTCK has no connected signal
Warning: U1-16 RSTN has no connected signal
Warning: U1-15 P1.7 has no connected signal
Warning: U1-14 P1.6 has no connected signal
Warning: U1-13 P2.5 has no connected signal

Check Sheet 1 OK
13 warnings.

Check Design OK
13 warnings.

- All issues were fixed.

Select Design > Generate Netlist

```

GND      U1-20  BT1-2  C1-2  S1-1\
          S2-1  S3-1   DS1-K

N_00000000 U1-1   BT1-1  C1-1

N_00000008 U1-8   S1-2

N_00000009 U1-9   S2-2

N_00000010 U1-10  S3-2

N_00000011 U1-11  R1-1

N_00000014 U1-12  DS1-A  R1-2

```

- The resulting netlist itemizes signal name and the refdes-pinnumber connections for that signal in gEDA format.
- Net names N_XXXXXXXX are automatically generated
- A backslash at the end of a line indicates continuation on the next line.

Select Design > Generate BOM

```
// Bill of Materials Design_Name 11/10/14  
  
// eightolives  
// DRAWN BY:  
// copyright (c) 2014 eightolives  
  
QTY PART ID (DEVICE)      REFERENCES  
1   BATTERY                BT1  
1   CAPACITOR              C1  
1   LED                    DS1  
1   MSP430G2402            U1  
3   PUSHBUTTON_SWITCH_NO  S1, S2, S3  
1   RES                    R1
```

- A Bill of Materials lists the quantities of different parts.
- Parts are identified by the device attribute (typically the symbol name) or the partid attribute if it exists.

To Save the Project Locally

- Select Design > Open Project
 - Select LOCAL service, Local Project and click Select
- Select Design > Save Project
- The files are now stored in LOCAL, your browser's cookie memory. You can load those files using Design > Open Project File

Warning: If you or your browser clears cache/cookie memory, data in LOCAL will be deleted.

To save files to your computer's disk

- Note handheld's like iPod have no storage other than LOCAL
- You must manually save each schematic sheet and manually save each symbol you created that does not appear in an accessible library.
- Design > Save Sheet
 - Select the directory where you wish to store the file
 - Save
- For symbols, select the symbol, select again get it's pop-up and select Save Symbol
 - Save

To save on an External Service

- Eightolives' Microservers running on your local network can be used for project file storage support
 - See separate paper on using Microserver with Schematic Mobile
 - Select Design > Save Project
- Use of other commercially available “cloud” services for storage is not currently supported.

For more information:

- Use the Help menu options
- Check <http://www.eightolives.com> for other tutorials