Portmapping Example

```
# portmap.conf
# ------------------------------------------------
# DTU Aliases
Teller1 = IEEE802.0003ba44e65b
Teller2 = 00:03:ba:3c:0f:2d

# Globally visible (to Sun Rays) server side port
Central_Printer  = *:/dev/ecpp0

# Sun Ray Session independent Path Aliases
Printer  = /dev/ecpp0

# DTU Assigned server side port
Data_Logger = Teller1:/dev/term/a

# DTU Specific ALNs for DTU named 'Teller1'
Teller1_cash    = Teller1:utcom1
Teller1_sigpad  = Teller1:utcom2

# DTU Specific ALNs for DTU named 'Teller2'
Teller2_cash    = Teller2:utcom1
Teller2_sigpad  = Teller2:utcom2
Teller2_printer = Teller2:utprt1

# Session Local ALNs (unbound to specific DTU):
local_cash      = utcom1
local_sigpad    = utcom2
local_spillover = utcom5
local_printer   = utprt1
```
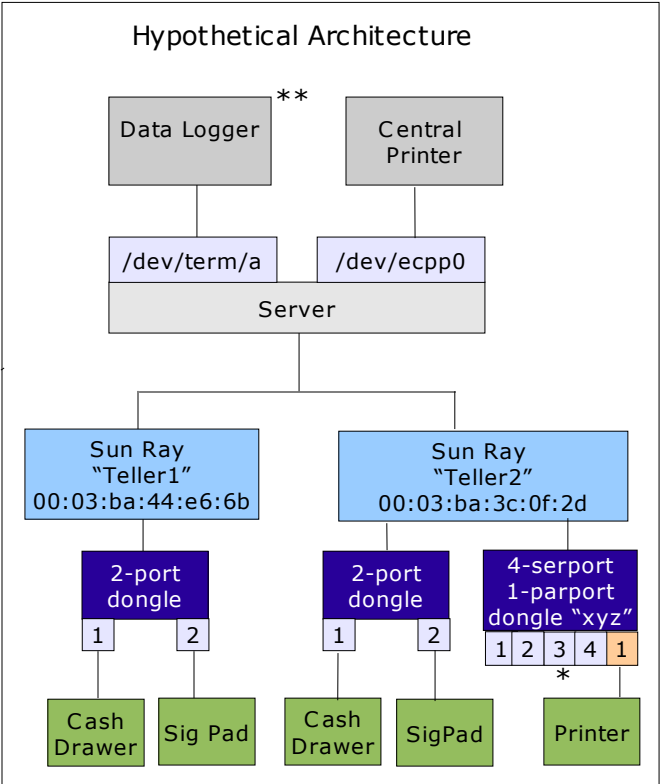
Hypothetical Architecture

* utcom5 ALN 'spills over' to port 3 of 2nd dongle

** Even though the Data Logging device is connected to the server, in this hypothetical scenario, imagine that the wire is long so that it sits next to Teller1

CommPortIdentifier enumeration:

In the above portmap.conf configuration (based on the hypothetical architecture diagram), javax.comm clients would get a different view (shown below) of comm. ports, depending upon whether the user was logged into a Sun Ray or logged into the srver via the console or by ssh, rsh or telnet to the server. Also affecting the ports revealed would be whether the application was running as root, or as non-root. The following depicts various views of available ports as seen from various client contexts. See the Portmapping Configuration Guide for more information.

* Using the 'spillover' feature is not advised under normal circumstances because it depends on the order of enumeration of dongles, which can vary, depending upon vendor name for the device, and upon which USB ports and which hubs dongles are connected to. Thus when multiple dongles are connected to a single Sun Ray DTU, they may be prone to unwanted distruption (ie. movement by the user), and will require significantly more work to determine the order of their enumeration. With a single dongle of sufficient capacity, there is no ambiguity.

IMPORTANT NOTE: *Currently portmapping of Sun Ray ports depends on $UTDEVROOT environment Variable, which is setup by Sun Ray Server Software when a session is created. If $UTDEVROOT has an incorrect value or is removed due to using 'su -', or 'sudo', or for any other reason, portmapping may not work properly. Dependency on $UTDEVROOT may go away with a future patch to Sun Ray server (SRSS) software.*

Server	Server (root)	Teller1	Teller1 (root)	Teller2	Teller2 (root)
Printer	Printer	Central_Printer	Central_Printer	Central_Printer	Central_Printer
/dev/term/a	/dev/term/a	Data_logger	Data_logger	local_cash	local_cash
	Teller1_cash	local_cash	local_cash	local_sigpad	local_sigpad
	Teller1_sigpad	local_sigpad	local_sigpad	local_printer	local_printer
	Teller2_cash		Teller1_cash	local_spillover	local_spillover
	Teller2_sigpad		Teller1_sigpad	xyzdongle@1	xyzdongle@1
	Teller2_printer		Teller2_cash	xyzdongle@2	xyzdongle@2
			Teller2_sigpad	xyzdongle@4	xyzdongle@4
			Teller2_printer		Teller1_cash
					Teller1_sigpad
					Teller2_cash
					Teller2_sigpad
					Teller2_printer