

CONNECTIVITY (NETAPP) UPDATE FOR URSR 15.3



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CHANGES FOR 15.3

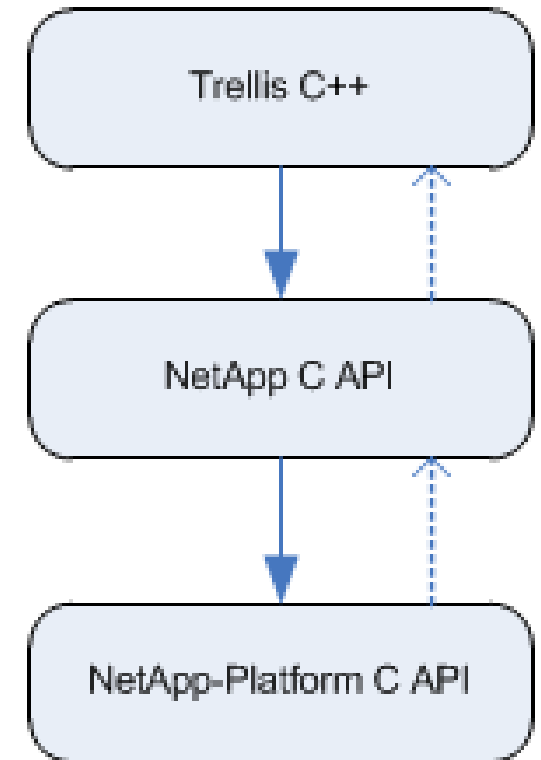
- **NetApp Moved to new home in the Unified Reference Software Release (URSR)**
 - New Home: BSEAV/connectivity
- **Built by BSEAV/connectivity/Makefile**
 - `make -j <num CPU's> examples`
- **Target (build output) moved to `obj.$(NEXUS_PLATFORM)/BSEAV/bin`**
- **Running NetApp (similar to 15.2):**

```
mkdir -p /mnt/nfs
mount -t nfs ${TFTP_SERVER}:${PATH_ON_TFTP_SERVER}/obj.$(NEXUS_PLATFORM)/BSEAV/bin /mnt/nfs
cd /mnt/nfs/bin
export NETAPP_DEBUG=y
source netapp_target_prep.sh
./NetAppTester -i
```

CHANGES FOR 15.3

Split Up of Functionality

- Detach Platform functionality (~45%) from API/App (~55%)
- NetApp-Platform is hidden underneath NetApp-API (netapp folder)
- **IMPORTANT: NO changes to NetApp API (netapp.h) or build process (netapp.inc) for customers**
 - Use the NetApp API as before.

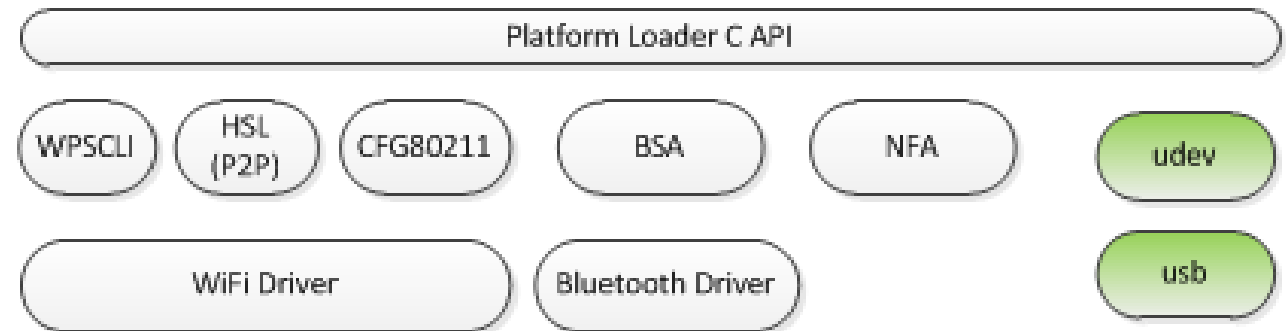


SPLIT UP NETAPP

NetApp-Platform

- **Becomes the Hardware Abstraction Layer (HAL)**
- **Charter**
 - Bundle Connectivity drivers with URSR
 - Builds all components in the connectivity packages
 - Drivers
 - dhd, wl, cfg80211, btusb, bthid
 - userspace apps
 - btdl, dhd, wl
 - libraries
 - wps, wpscli, HSL, bsa, bsaserver, nfa, etc...
 - Maintains NVRAM and platform configurations
 - GPIO configuration
 - HW detection & loading of the drivers
 - Thin Platform API for upper layer application SW
 - Used only by NetApp-API and not to be used by customers
- **Migration of:**
 - netapp/wlan
 - netapp/bluetooth
 - netapp/nfa
 - parts of netapp/src source (platform specific components)

Platform Loader Module



SPLIT UP NETAPP

NetApp-API

- **Platform independent code**
 - No more NEXUS dependencies
 - No more Platform/HW dependencies
 - Requires netapp-platform
- **Functionality**
 - Connection management
 - Database backend
 - IEEE1905
 - DHCP Server/client
 - Discovery
 - Ping, ntp, dnslookup
- **App integration**
- **No API Changes**
 - same nomenclature as before

