



Embedded. Connected. Aware.

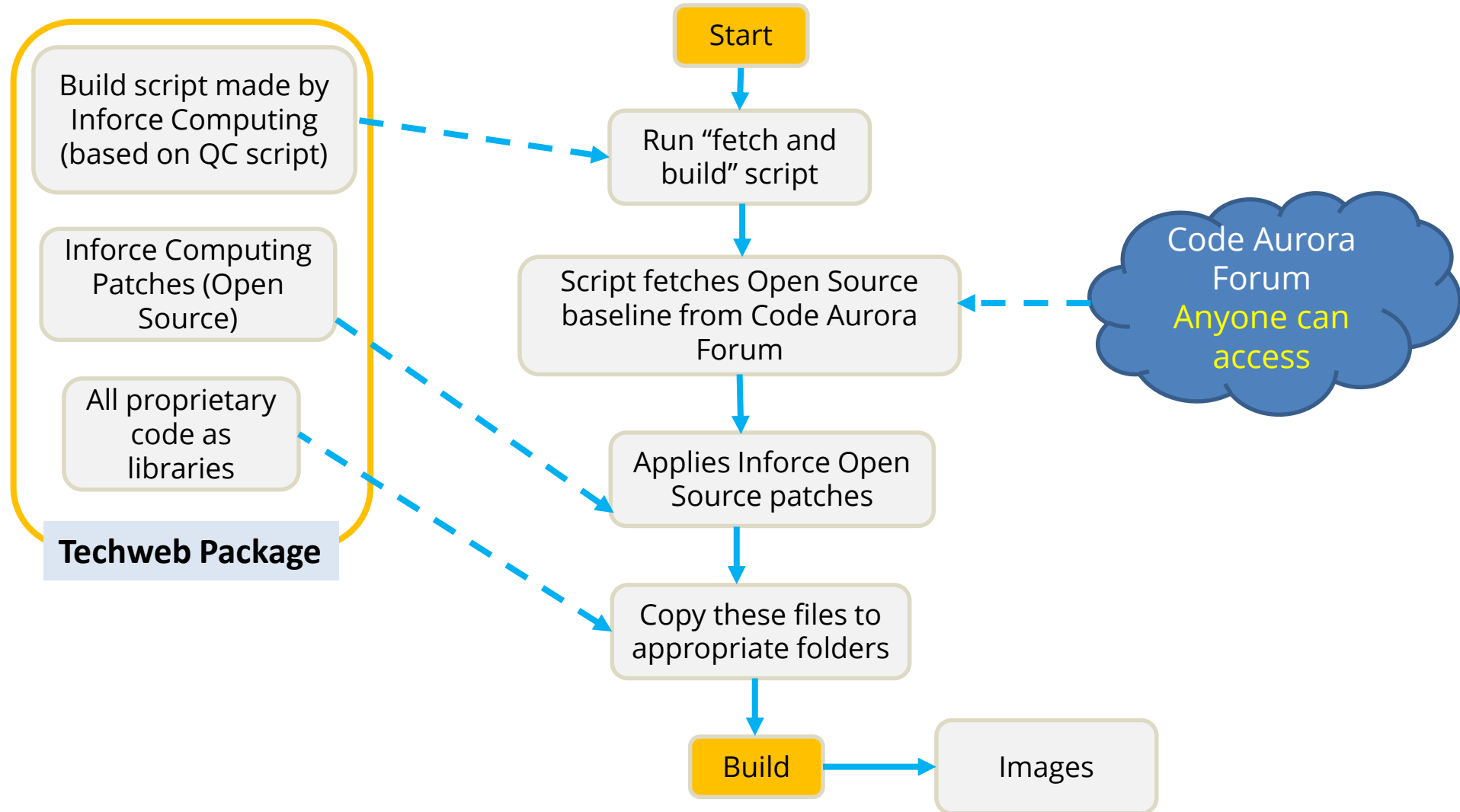
## **SW Delivery Process**

***February 2016***

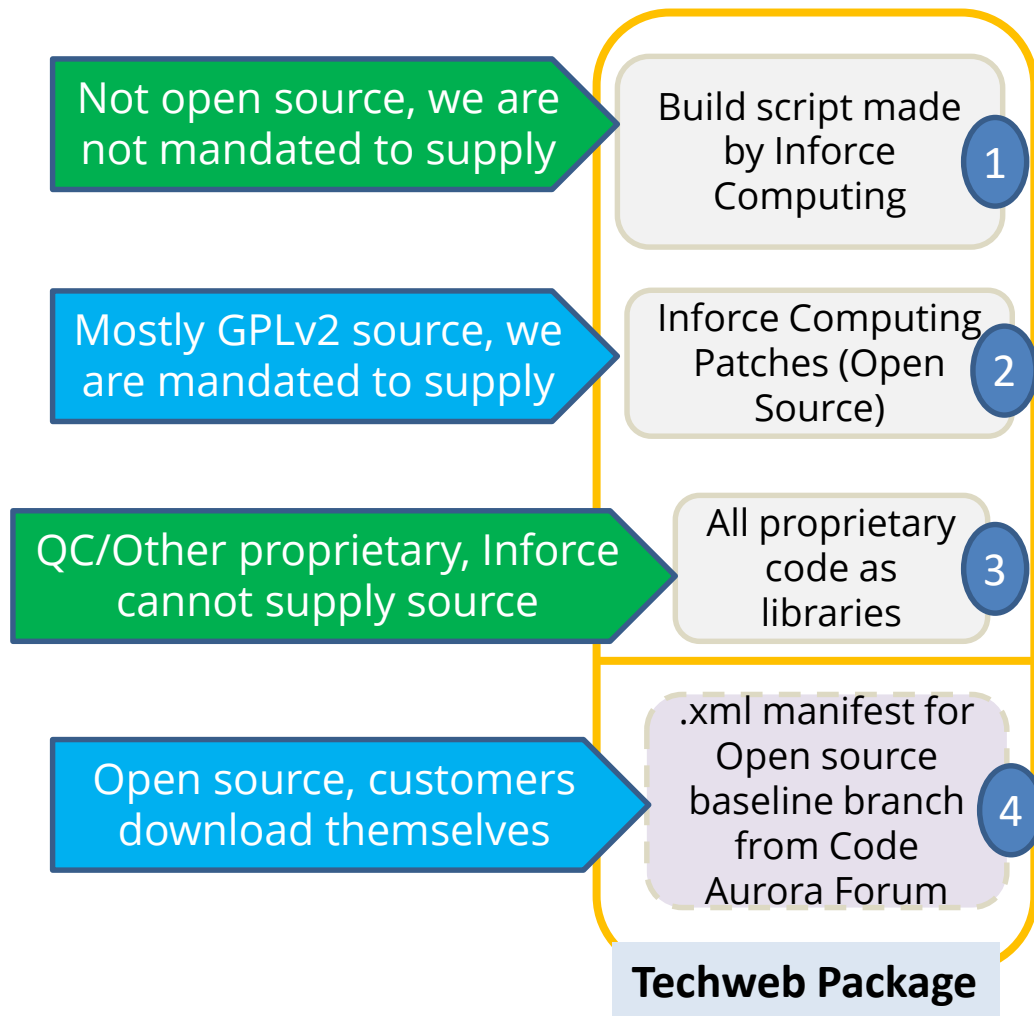


- ◆ **The overall BSP package which is downloaded from the Inforce Techweb repository (accessible once board is registered), consists of**
  - Open Source drivers and OS – **source** downloaded from codeaurora.org git via correct .xml tag for the distribution (via “fetchsrc\_and\_build” script provided by Inforce)
  - Proprietary IP drivers – **binary/libraries** delivery in the BSP download as a .zip file; extracted and placed in appropriate folders by “fetchsrc\_and\_build” script; this includes
    - » GPU
    - » Camera
    - » HW video encode/decode
    - » Sensor HAL
    - » WLAN/BT (firmware and some settings/APIs)
    - » GPS
  - DSP firmware(e.g., some audio codecs) – placed by a separate script that loads the meta binaries (including the NON-HLOS/rpm/tz binaries)
  - Inforce-added drivers – provided in **source** as patches, extracted and placed by “fetchsrc\_and\_build” script
- ◆ **Lower-level boot-loaders are proprietary and are not distributed in source; ONLY provided on the board or in encrypted update package (for updates across Android releases). The exception is the kernel bootloader (“emmc\_appsboot.mbn”) which is included in source.**

# Building Android BSP Images for Inforce Platforms



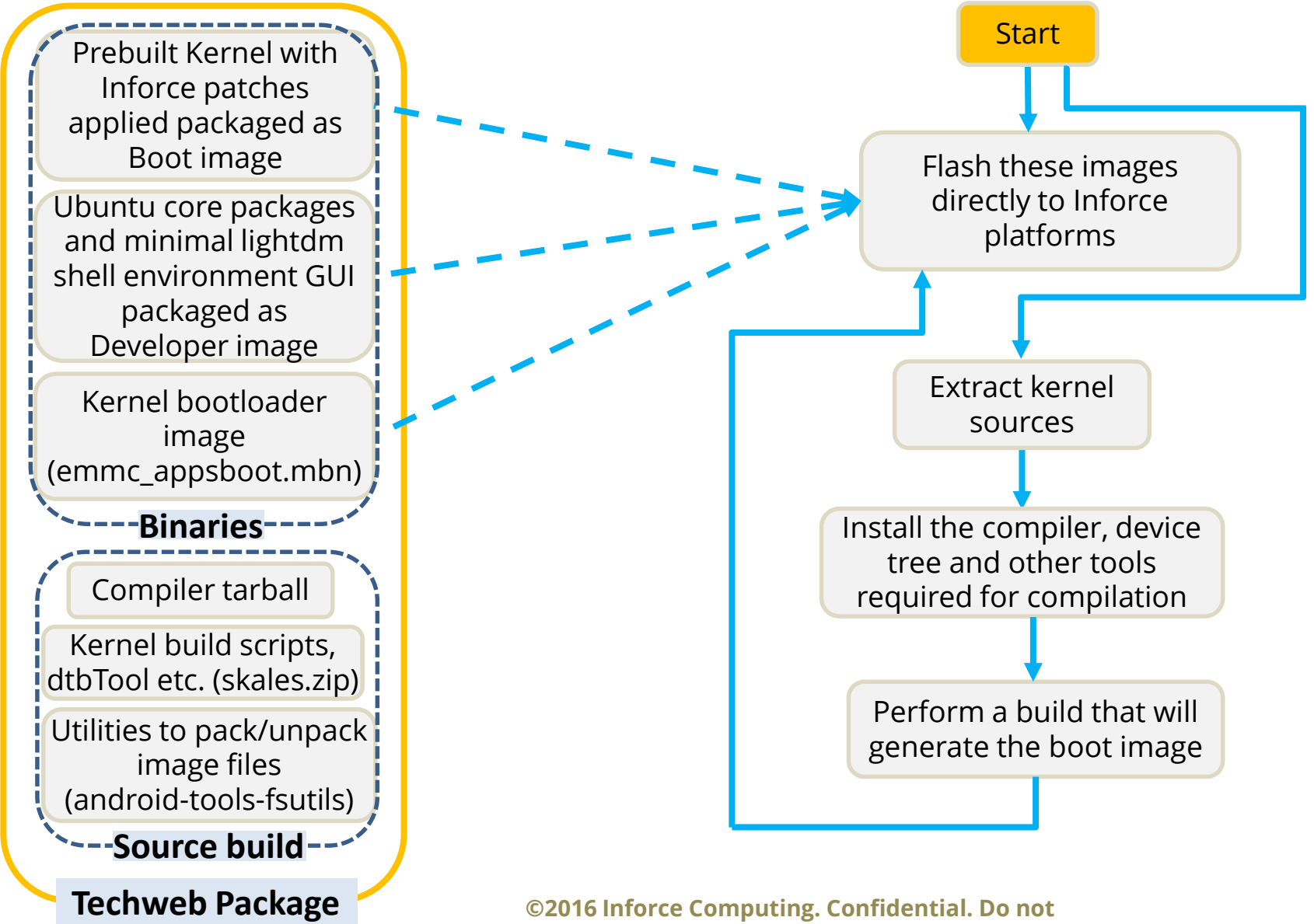
# Building Android BSP Images for Inforce Platforms



- ◆ If build with only ④
- ◆ build will succeed, but board will not boot.
- ◆ If build with ② and ④, build will fail.
- ◆ If customer builds with all 4 components, a fully working binary can be generated.

Note: Most boot loaders/meta-binaries are proprietary, normally provided as directly flashed on board, and not provided as source.

# Building Ubuntu Linux BSP Images for Inforce Platforms





## ◆ Basic build environment

- Ubuntu 10.04 or 12.04 (LTS) OS on PC
- Open Source Tools and Java SDK installation, as described in “Android Programming Guide” document, available on Inforce Techweb



## Thank You!

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