

# Making Intent work with what we already have

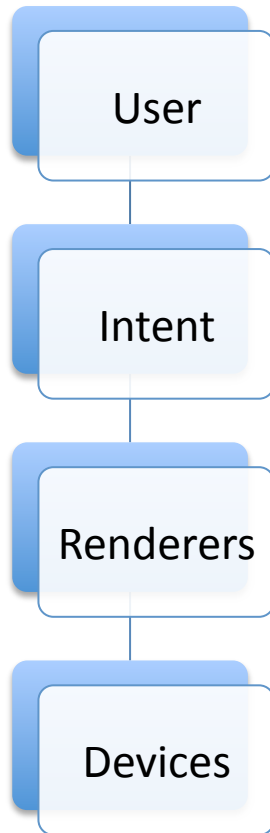
Colin Dixon, Brocade, ODL

Intent Summit

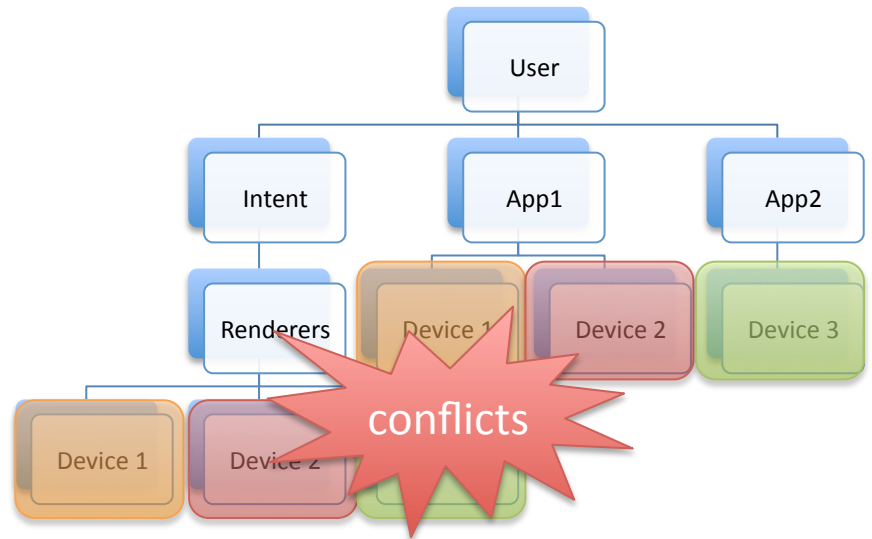
January 20, 2015

# The Problem

## The vision

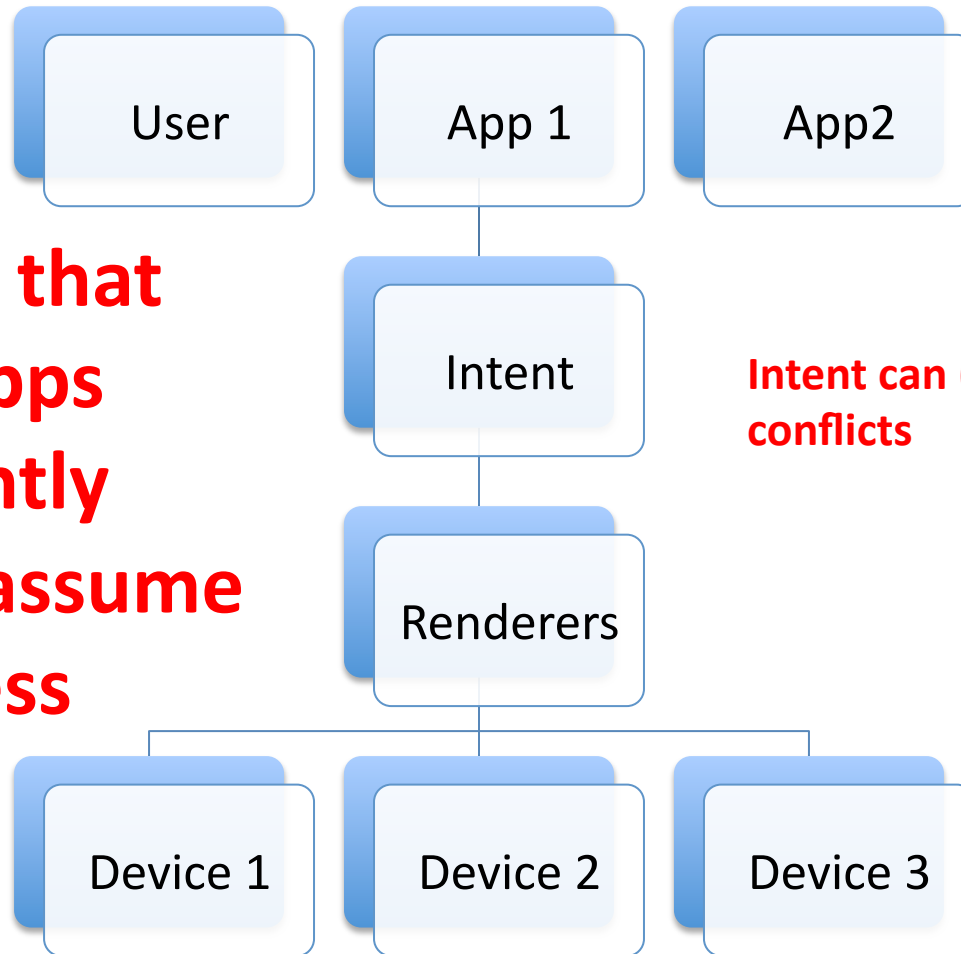


## Current Reality



**These are the same devices!**

# Solutions



**Apps and users  
both talk intent**

**Problem is that  
we have apps  
that currently  
work and assume  
direct access**

**Intent can (hopefully) resolve  
conflicts**

Can intent and non-intent coexist?

# Can't we all just get along?

- Not as well as if everyone used intent...
- ...but still maybe.
- Build context where we can
  - What app installed conflicting config?
  - Ideally also group it so it can be backed out?
- Provide sane conflict resolution mechanisms

# In the OpenFlow Context

- Slightly change flow programming model
  - Not just flowmods
  - Instead groups of flowmods with a bit of metadata
    - e.g., does this group expect to be (partially) overridden or does it need to be fully installed
  - Let apps know if their flows get backed out
- Now, we can (kind of) make “legacy” apps play well with intent-based apps

# In the broader context?

- Tracking who installed configuration
- Understanding *if* there is a conflict
- Understanding how to back things out when there is