From Custom Maven Builds To Tycho

A (somewhat) epic journey towards standards
The Opening

*Who am I?*

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**Bio:**

- Jonathan Wright
- Software Engineer, Cerner Corporation
Shut up and take my money!
Health care is too important to stay the same
engineering.cerner.com
The Opening

Who am I?

Bio:
- Jonathan Wright
- Software Engineer, Cerner Corporation

Experience:
- Writing custom extensions of Eclipse RCP (3.X / 4.X)
- Maven plugins
  * OSGi
  * Custom P2 Tycho

Where from here?
An examination of the present, a foray into the past and a look to the future.
The product

What do we make?
The product

What do we make?

Infrastructure
The product

What do we make?

Consumers

I GET IN TROUBLE FOR SHOWING UP CONTENTED AT PROTESTS.

THINGS ARE PRETTY OKAY!

ANYONE FOR SCRABBLE LATER?

http://xkcd.com/470/
The product

What do we make?

Dependencies
The build

Jenkins + maven

Tycho

Features / Products

bnd + m2e

Bundles

How does it happen?
The journey

Cerner and Maven (circa 2005)

Eclipse RCP development (circa 2007)

   Eclipse and Maven integration?

Custom maven plugin development

   PDE artifact generation
   OSGi Testing Plugin
   Custom OSGi Reporting
The detour: Why maven?

Alternatives?
The detour: Why *maven*?
Existing expertise
The problem

Also known as, why should I change?
The problem: Also known as, why should I change?

Change is hard - what's the incentive?

The Silver Bullet - Equinox P2

Piecemeal assemblies (products) and updates + update dev process

How do we deliver our platform?
"Normal people... believe that if it ain't broke, don't fix it. Engineers believe that if it ain't broke, it doesn't have enough features yet." - Scott Adams
The switch

How did we do it?
The future

Where are we going?
The missing piece(s)  What more would we like?

FAIL!
If it doesn't fit, you made something wrong...
Weighted Companion Cube

It will never threaten to stab you.