



# Weaving Your Way Through the Web of Technology Conference

**New Innovative Technologies Available to Law Enforcement  
Open Source Software Usage by Law Enforcement**



Dave Woolfenden  
County Architect

PCCD Office of Criminal Justice System Improvements



# AGENDA

- Open Source Software Background
  - What is it?
  - Why is it important?
  - Who is involved?
- PCCD's County Justice and Public Safety Information Sharing (CJPSIS) Program usage of Open Source Software
  - Intalio's Open Source software based BPMS
  - Toolkit usage of open source software
- Q&A

# What is Open Source?

## Source

```
static void
vdev_raidz_reconstruct_
q(raidz_map_t *rm, int_
x)
uint64_t *dst, *src,
xcount, ccount, count,
mask, i;
uint8_t *b;
int c, j, exp;
xcount = rm-
>rm_col[x].rc_size /
sizeof (src[0]);
ASSERT(xcount <= rm-
>rm_col[VDEV_RAIDZ_Q].r
c_size / sizeof (src
```

## Binary

```
011011010010000001100010011011110111010
10111001011000010110111001110100001011
100000110100001010000011010000101001010
100011010000110010100100000011011010110
10010110111001100100001000001100010011
011110110011101100111011011000110010101
11001100111011001000000110111011010000
110111100100111011100110010000001100010
011001010110100001101001011011100110010
00010000011101000110100001100101001000
00011001110110111011001110110011101101
10001100101011100110011111010000110110
110001100001011010010111001001110110011
011110111100101100001011011100111010000
111010001000000100100100100111011011010
01000001100010011011101110101010111001
011000010110111001110100001011100000110
100001010000011010000101001010100011010
000110010100100000011011010110100101101
11001100100001000000110001001101110110
011101100111011011000110010101110011001
1101100100000011011101101101000011011100
100111011100110010000001100010011001010
```

## OSI Definition



1. Free Redistribution of Code
2. Source Code Available
3. Allows Derived Works
4. Allows Integrity of The Author's Source Code
5. No Discrimination Against Persons or Groups
6. No Discrimination Against Fields of Endeavor
7. Distribution of License with Code
8. License Must Not Be Specific to a Product
9. License Must Not Restrict Other Software
10. License Must Be Technology-Neutral

- > The best way to foster innovation in software
- > Open source requires freedom: you cannot control it

# Why Open Source?

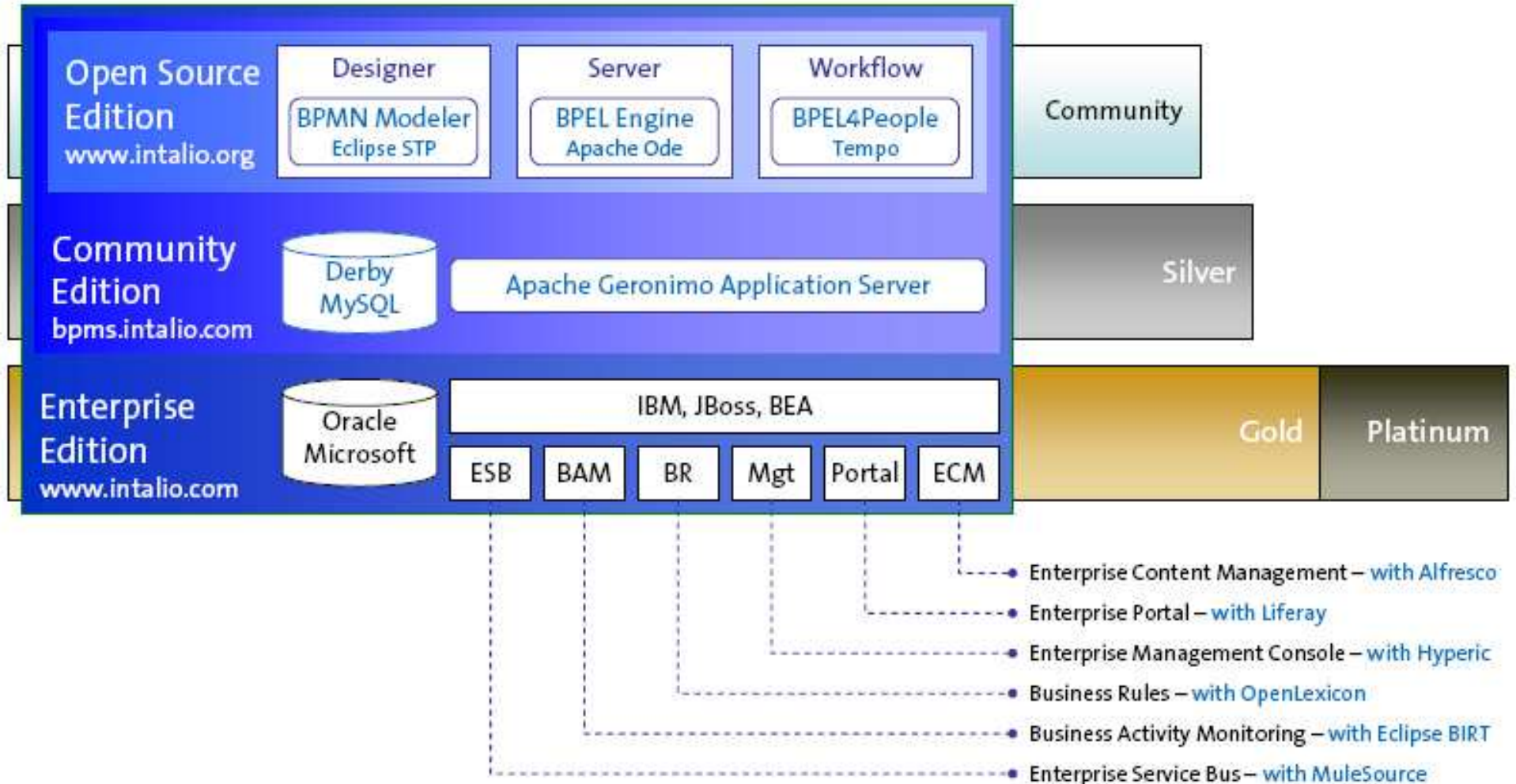
- There's a Trojan Horse at the gate, should we bring it in?
  - > Security is provided through extreme openness.
- Increased quality
  - > Increased exposure of code causes code quality to go up
  - > Public scrutiny causes bugs to be fixed faster
- Psst. Hey buddy, want some free software?
  - > Free to download. Free to try. Free to use.
  - > Pay for support when you need it.
- Barriers to Entry vs. Barriers to Exit
  - > Productization of open source does create dependencies.
  - > But these dependencies are manageable.
- Creativity grows in a robust community
  - > Hundreds of contributions to OpenSolaris, GlassFish, Open Office, etc. by non-Sun community members.

## Open source and open standards attract diverse expertise – e.g., open-esb.org contributors include:

- Adnet – Workflow Service Engine
- Art Gillespie – 3270 Binding Component
- Bostech – TCP/IP Binding Component, Scheduler Service Engine
- Eviware – Soap UI NetBeans Plugin
- Gary Zheng – LDAP Binding Component
- Gestalt-LLC – XMPP, SIP, UDDI & RSS Binding Components
- Imola – CICS & CORBA Binding Components, Semantic Web Service Engine
- Jon Strayer & Art Gillespie – Screen-scraping Binding Component
- Neociclo – Odette FTP, Odette-J Binding Components
- Oscar Montoya – SWIFT Binding Component
- Stelian Markov – eMail Binding Component
- Sun Microsystems – JBI container; NetBeans tooling; Java EE, Java Bridge, XSLT, IEP, MDM, ETL and BPEL Service Engines; Project Metro, HTTP, File and JMS Binding Components
- Vikram India – DCOM Binding Component
- Yasu – Business Rules Service Engine

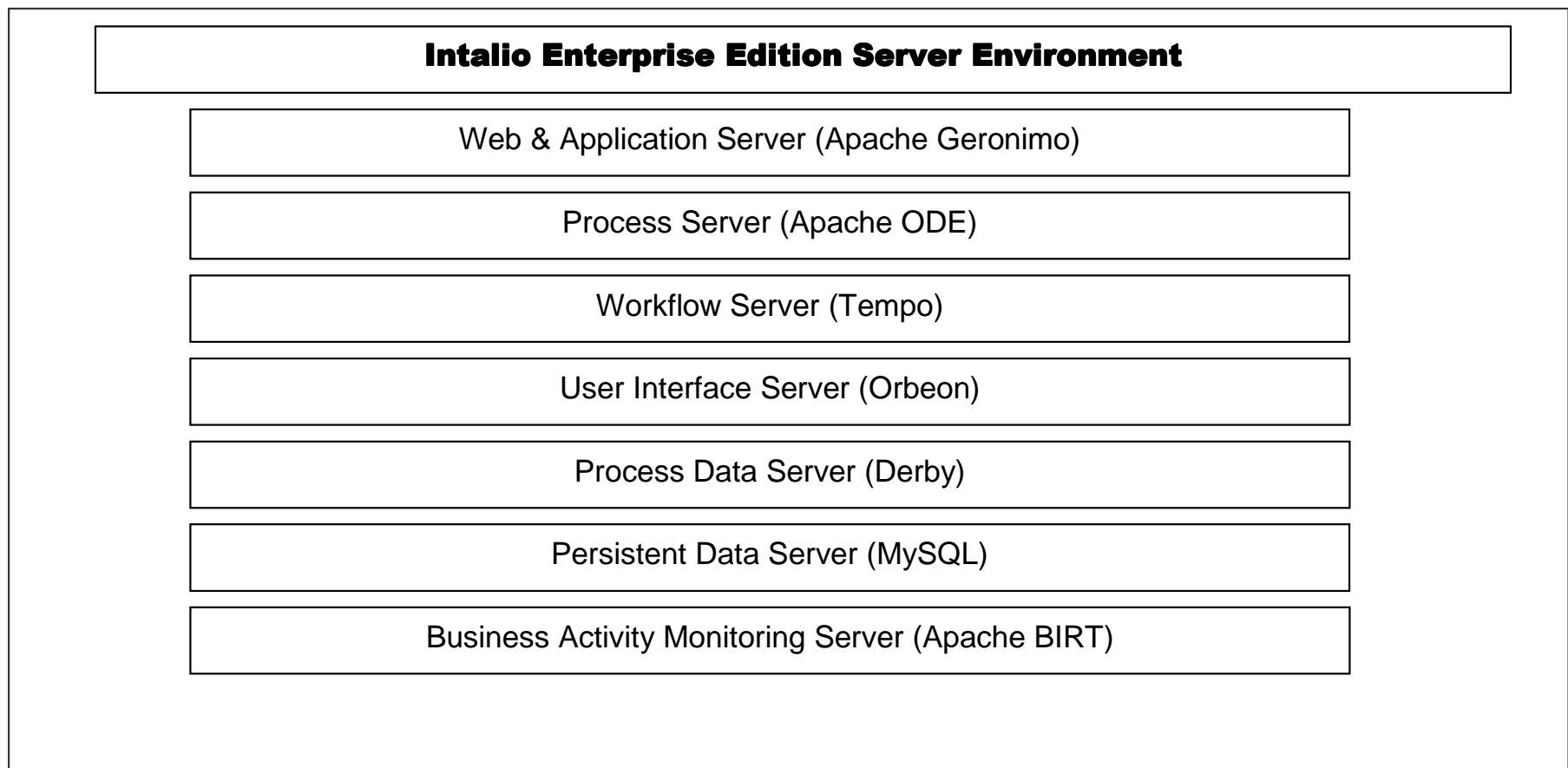
Product

Subscription



# CJPSIS Usage of Open Source Software

*Open Standards based*  *oolKit* providing **A**     **c<sup>2</sup>e S<sup>2</sup>** *capabilities*  
*executing on top of the.....*



# So, What's in The Toolkit?

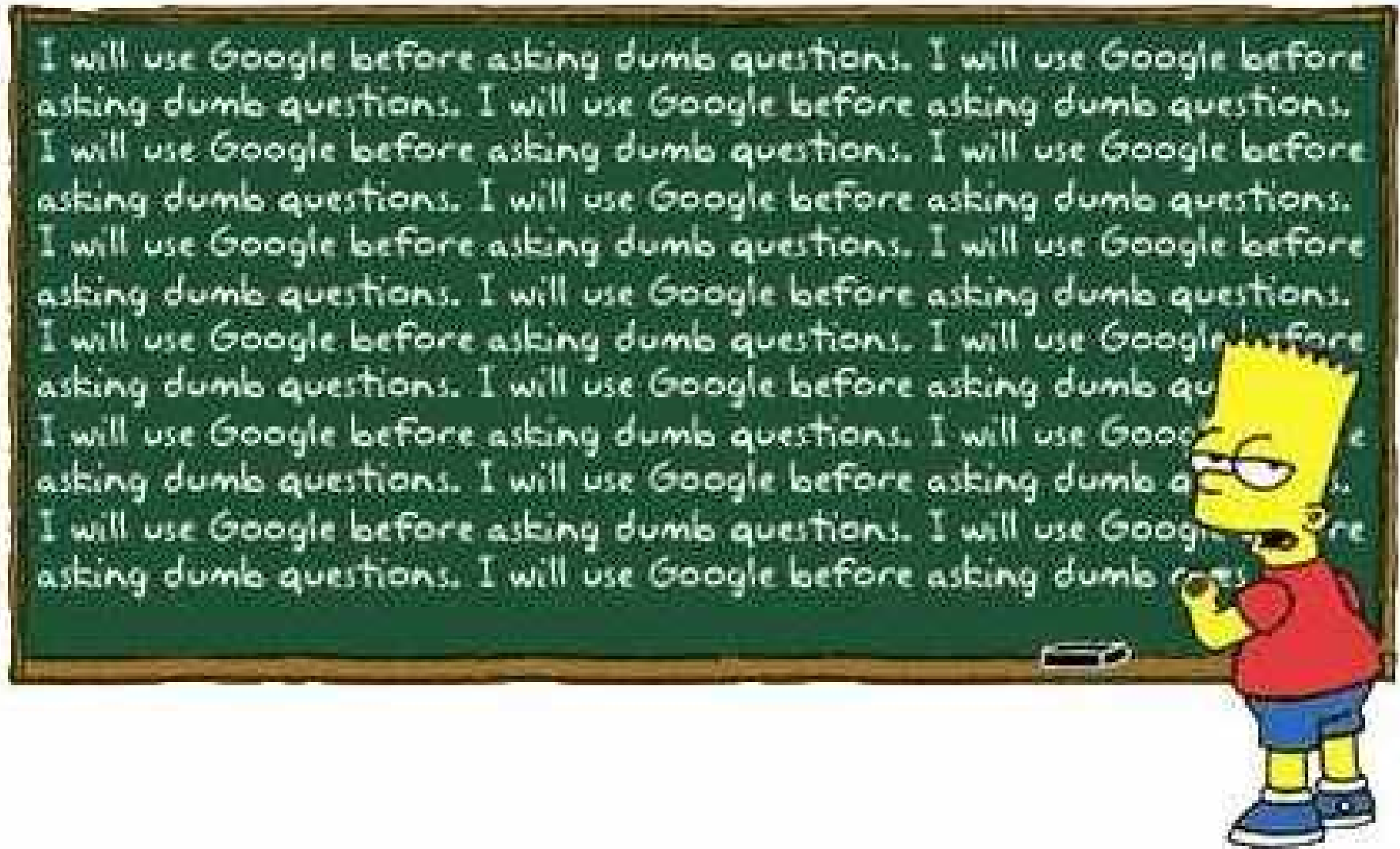
- A **Software Application** that:
  - Initially, facilitates the electronic creation review, approval and electronic exchange of the Criminal Complaint Form
  - Maintains the status of a person as he passes through the criminal justice system
  - Retains key historical information about a person's encounter with the system
- A **Graphical Model** of County Justice System processes shown in an easy-to-read notation
- A **Modeling Environment** that allows the modification of that Graphical Model to customize the Software Application
- An **Executive Information Dashboard** showing key metrics related to the performance of the county

# To learn more about Toolkit provided Automated Criminal Complaint Electronic Submission Services



Please plan to attend the  
*Information Sharing Efforts  
Workshop*  
session tomorrow at 3:00 PM!

# Questions?



# Contact Information

Dave Woolfenden – [c-dwoolfen@state.pa.us](mailto:c-dwoolfen@state.pa.us)