



2003
OSISOFT USERS CONFERENCE

PI BatchView and the PI Batch Products

*Chris Coen, Software Developer,
OSIsoft*

A Batch Is...

- *...an event with a start and an end.*
- *Implied: The product has higher value than the raw materials*

- *Traditional examples:*
 - *Specialty chemicals*
 - *Pharmaceuticals*
 - *Beer*



A Batch Is Also...

- *Discrete Manufacturing*
- *Examples*
 - *Automobiles and auto parts*
 - *Semiconductor wafer manufacturing*



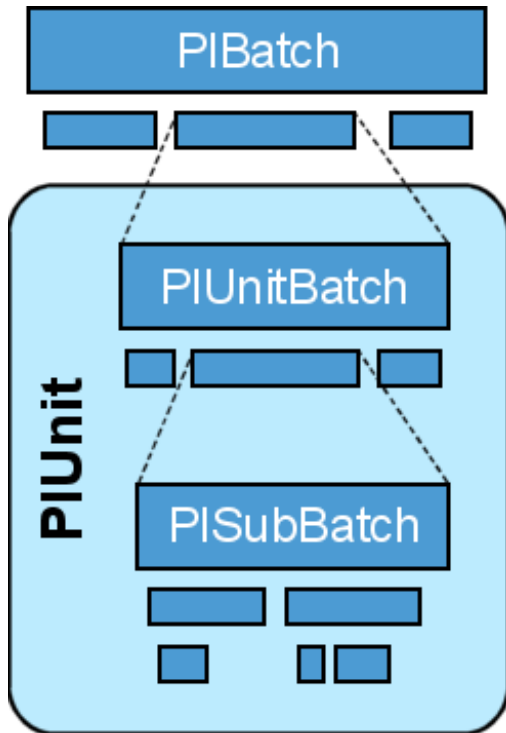
A Batch Is Even...

- *Product does not have a value...*
- *...but tracking these events has value.*

- *Examples:*
 - *A fixed time period like a day or a shift*
 - *Equipment startup and Equipment downtime*
 - *Within 5% of EPA emissions limit*
 - *Within 5% of available power production*



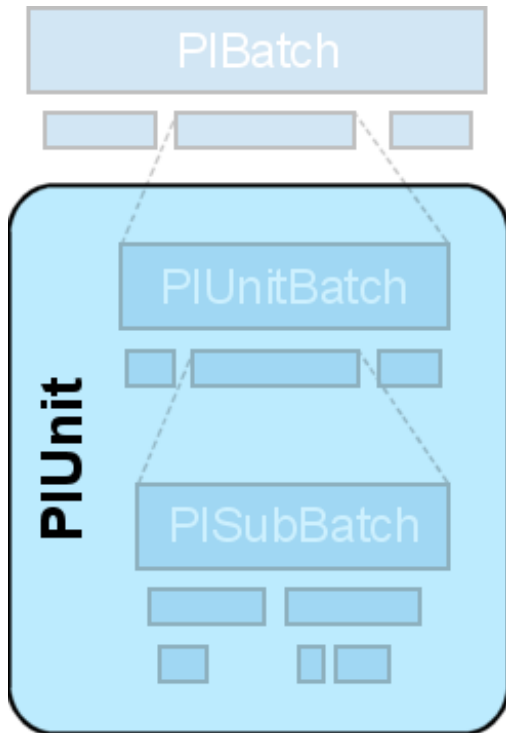
PI Batch Database (BDB)



- *PI 3.3 and greater*
- *Multiple batch levels*
- *Integrated with PI Module Database*
- *External data generation*



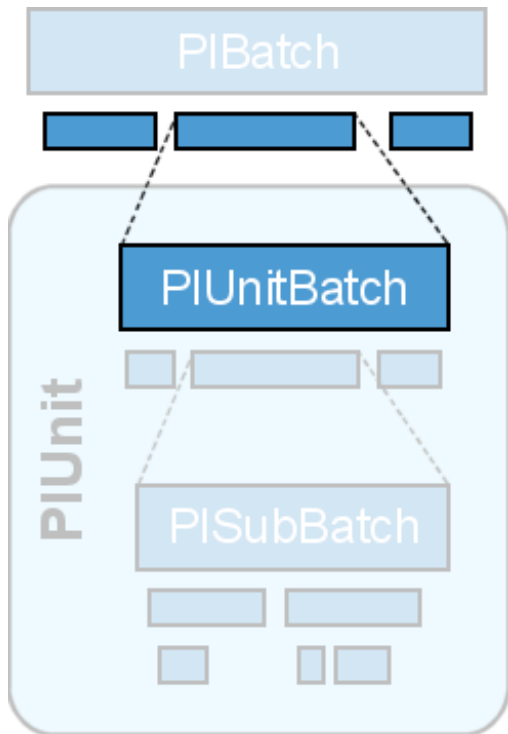
PIUnit



- *A PIModule*
- *Configured with PI Module Database Editor*
- *Name, PIAliases, PIProperties*



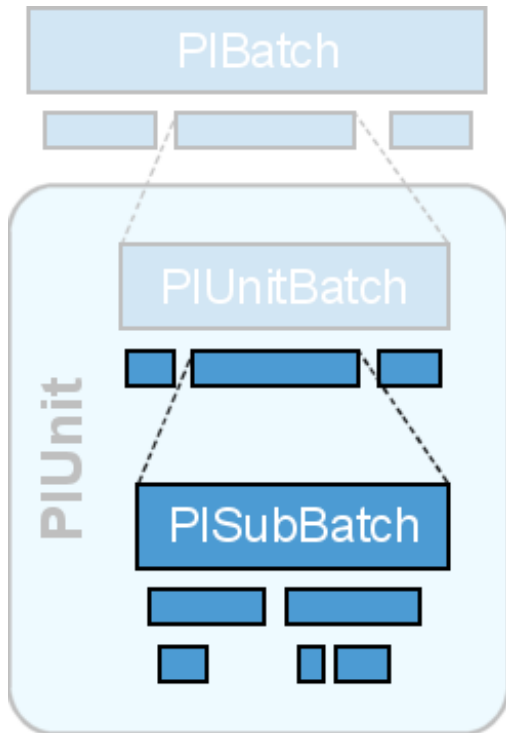
PIUnitBatch



- *Exclusive – one batch in unit at given time*
- *Equivalent to*
 - *Batch in PI 3.2*
 - *S88 Unit Procedure*
- *Batch ID, Procedure, Product*

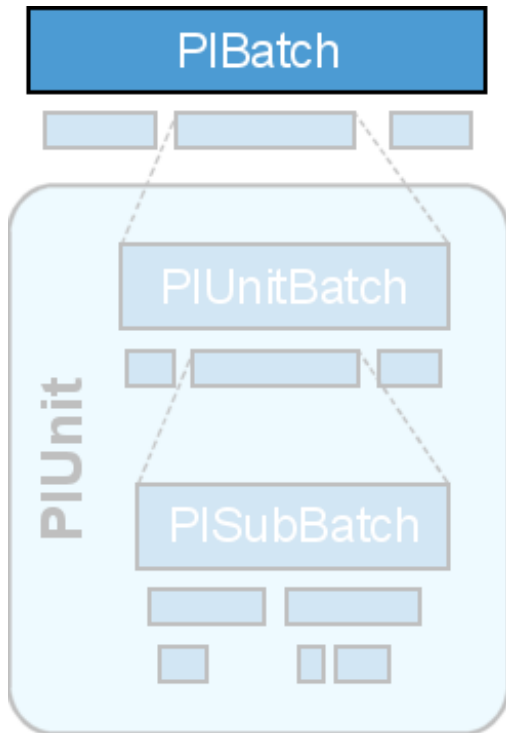


PISubBatch



- *Hierarchical*
 - *Operation*
 - *Phase*
 - *Step*
- *Name, PIHeading*

PIBatch



- *Independent from physical equipment*
- *Relates to overall recipe and the material produced*
- *Batch ID, Recipe, Product, PIProperties*



How about a beer...

Cull Canyon Brewing Co.



Dale Forrest, Plant Manager



Alex Pressman, Process Engineer



Bill Saunders, Senior Operator



PI BatchView – what's next?

- *BatchView 3.0 for PI ActiveView*
- *BatchView 3.0 for PI ProcessBook 3.0*
- *BatchView 3.1*
 - *Excel Add-in redesign for BDB*
 - *Custom naming*

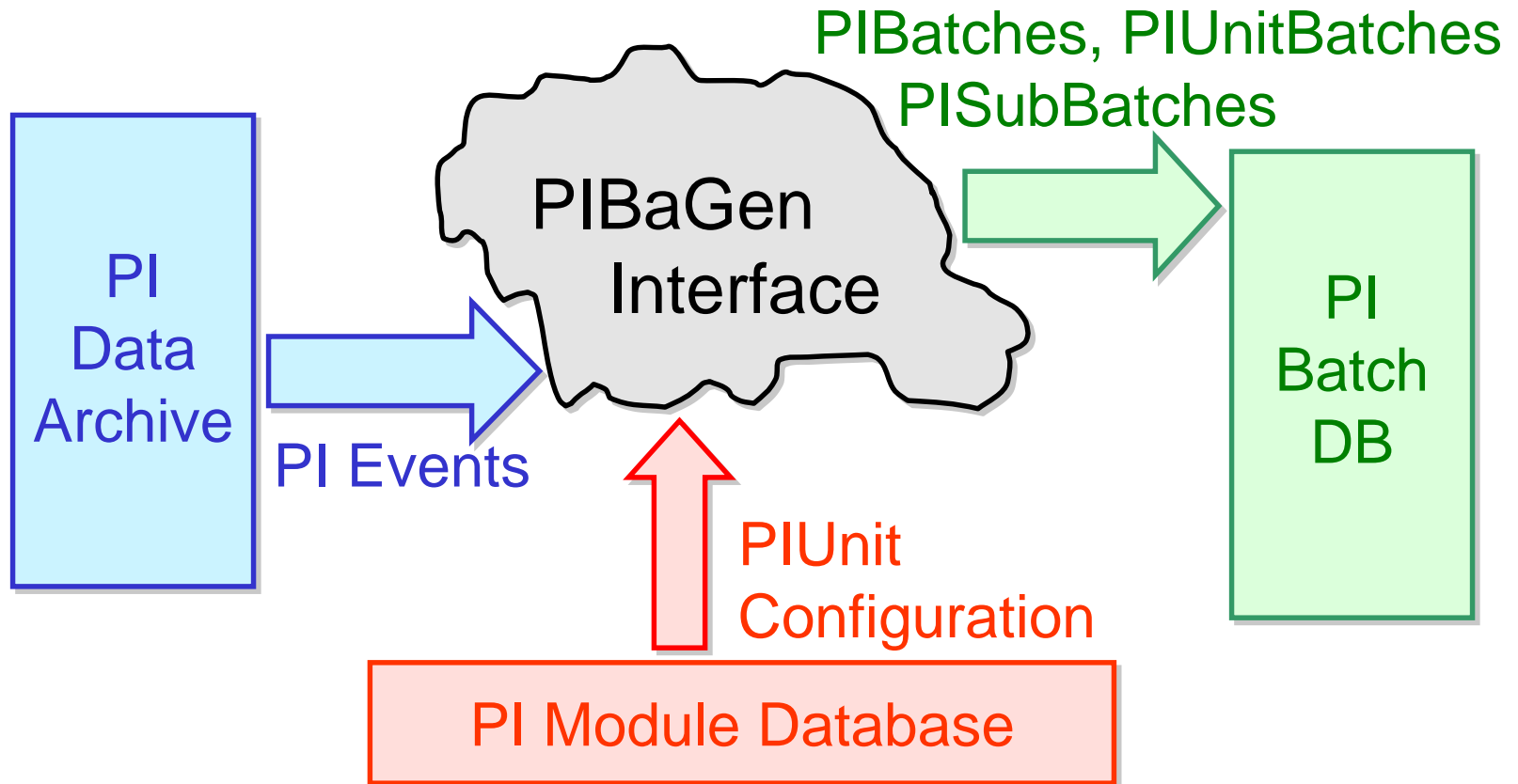


How to create batches

- *Create a tag*
- *Create a unit*
- *Configure PI Batch Generator Interface*



PI Batch Generator Interface

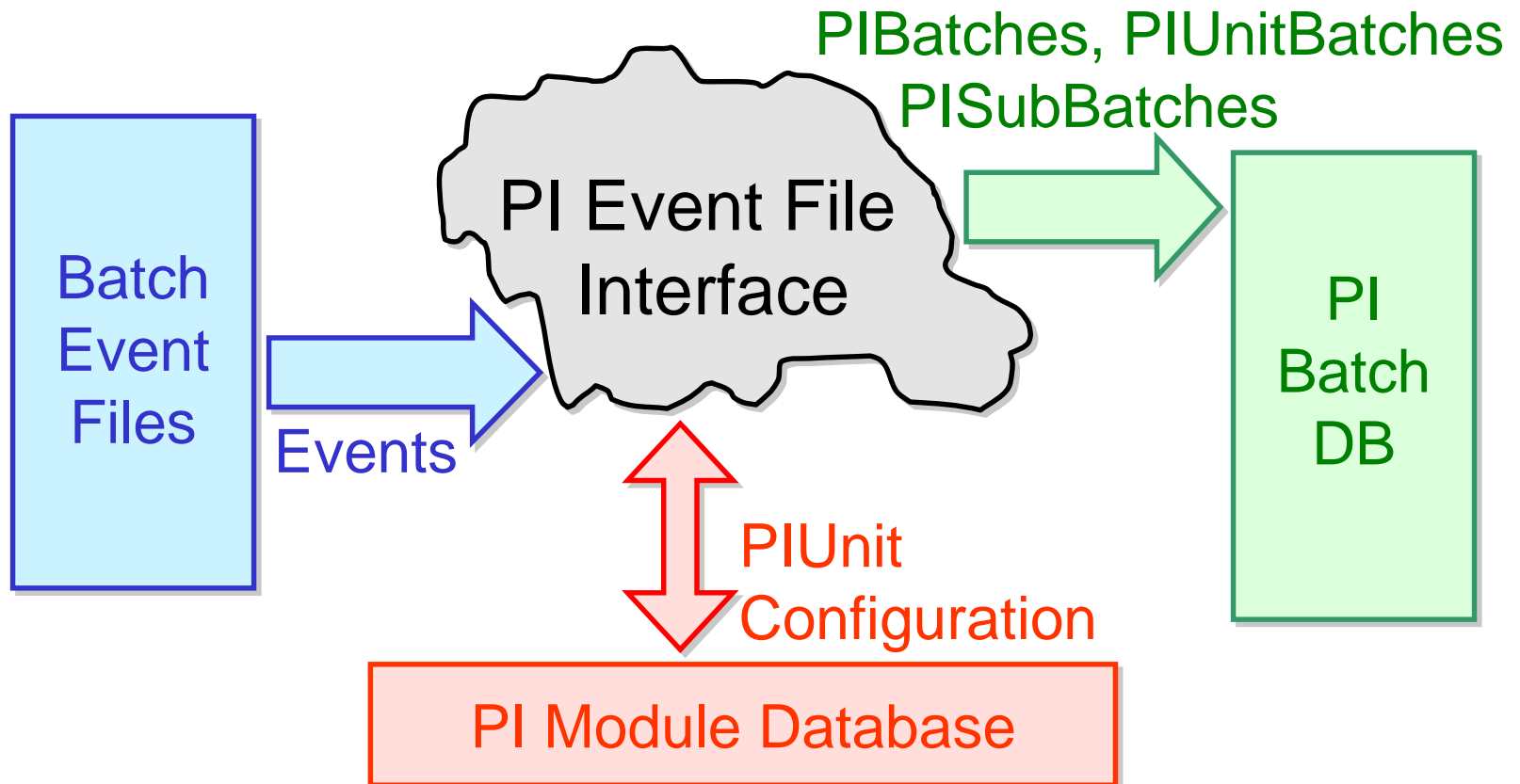


PI BaGen 2.0

- *Interface based on PIUnits*
- *Active points: integer, digital and string*
- *Full support of PISubBatch hierarchy*
- *Recovery of all batch objects*
- *Redesigned Configuration Tool*
- *Run on remote computers*



PI Event File Interface



PI Event File Interface

- *OpenBatch-based Batch Execution Systems*
 - *Sequencia OpenBatch*
 - *Emerson DeltaV Batch*
 - *Honeywell TotalPlantBatch*
 - *Intellution iBatch*
 - *Rockwell RSBatch*
- *Recipe-driven process control*
- *Batch Events from Event File*
- *Can create equipment configuration info*



PI OLEDB Provider

- *Remote database batches*
- *PI OLEDB presentation*
 - *Bodo Bachmann, OSISoft*
 - *8:00-8:40am*
 - *Yerba Buena Salon 9*
- *Visit the demo room*



Visit us in the demo room

- *Test drive PI BatchView 3.0*
- *PI BaGen and PI Event File Interfaces*
- *Ask us questions*
- *Give us feedback*
- *Tell us about your batches*



PI BatchView and the PI Batch Products

2003 OSISOFT USERS CONFERENCE SAN FRANCISCO CALIFORNIA USA

Development Team

- *PI BatchView*
 - *Chris Coen, Richard May, Michael Lemley (Omicron)*
- *Interfaces*
 - *PI Batch Generator Interface – Satyam Godasi*
 - *PI Event File Interface – Dave Oda*
- *PI SDK (Batch and Module Objects) – Ken Coates*
- *PI Server – Jon Peterson*

