PI BatchView 3.0

Presentation of your rich batch information

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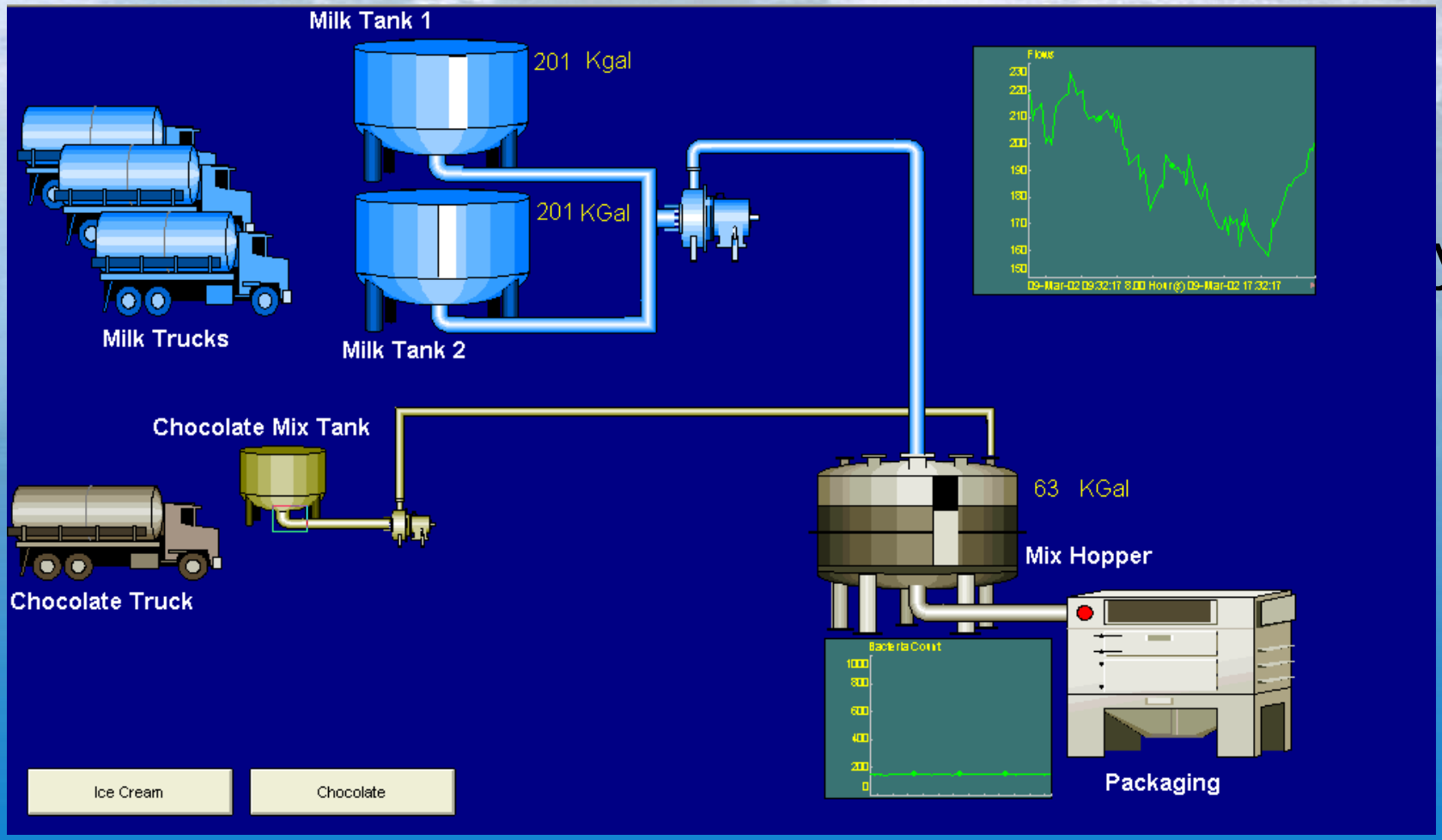
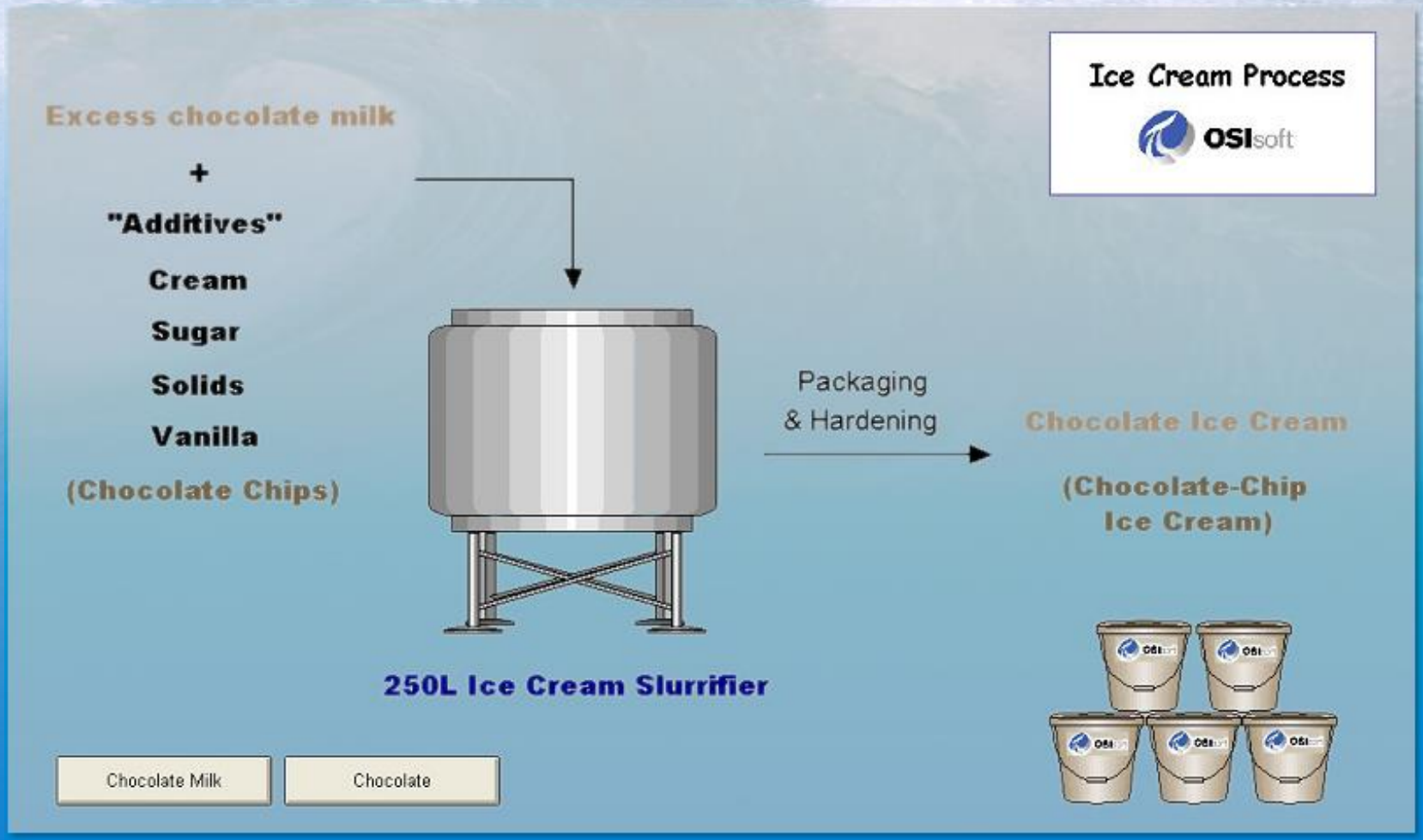
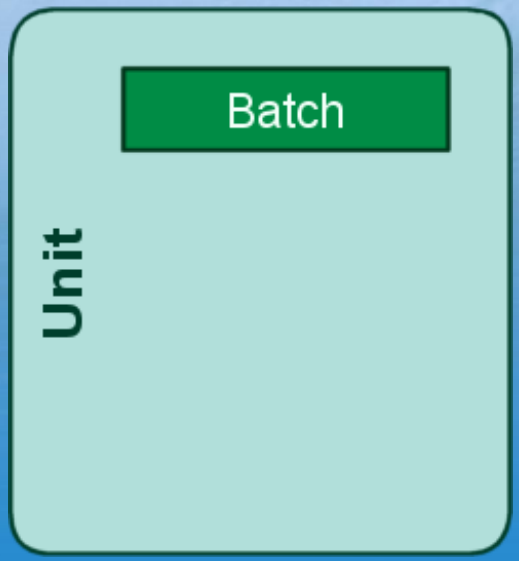
OSISoft Chocolate Milk Factory



Chocolate Ice Cream Process

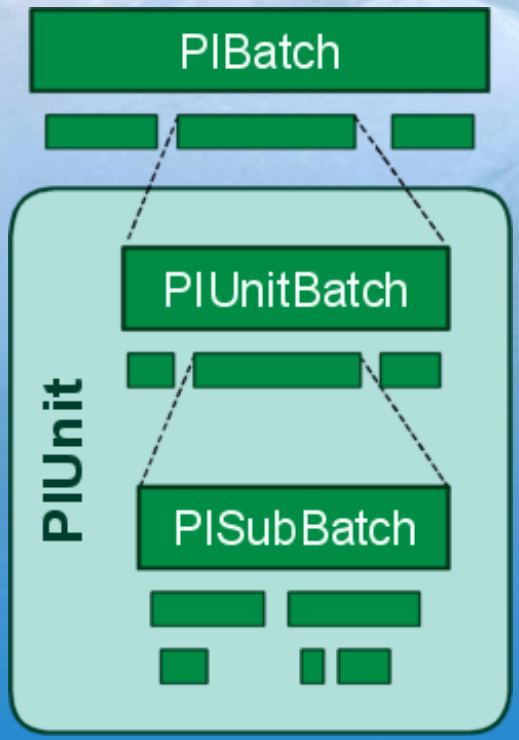


Batch Subsystem (BSS)



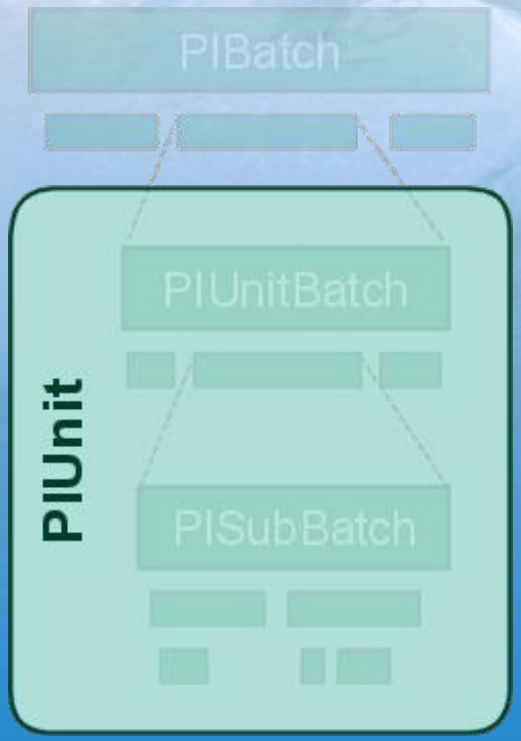
- PI 2.x and PI 3 Servers
- Unit
  - Exclusive Batch execution
  - Aliases
- BSS monitors batch active tag and creates batches

Batch Database (BDB)



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

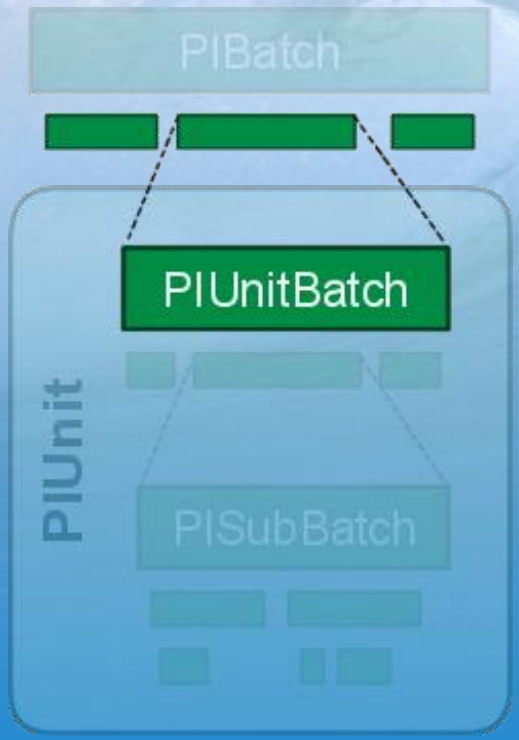
PIUnit



- A PIModule
- Configured with PI Module Database Editor

- Name, PIAliases, PIProperties

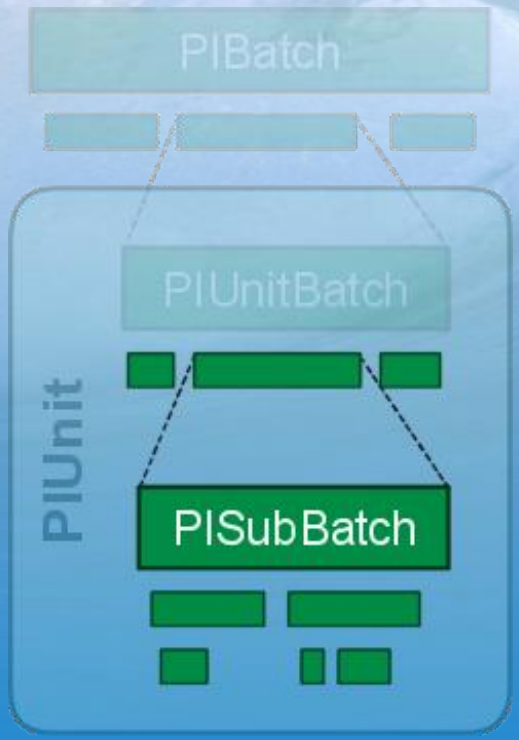
PIUnitBatch



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

- Batch ID, Procedure, Product

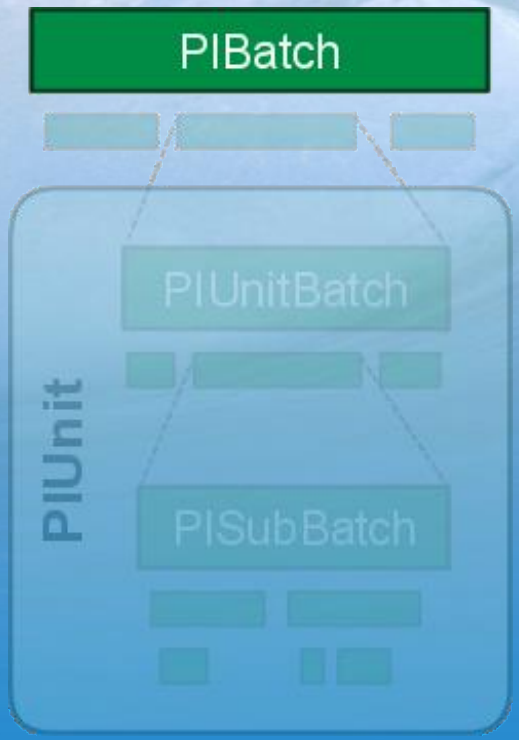
PISubBatch



- Hierarchical
  - Operation
    - Phase
      - Step

- Name, PIHeading

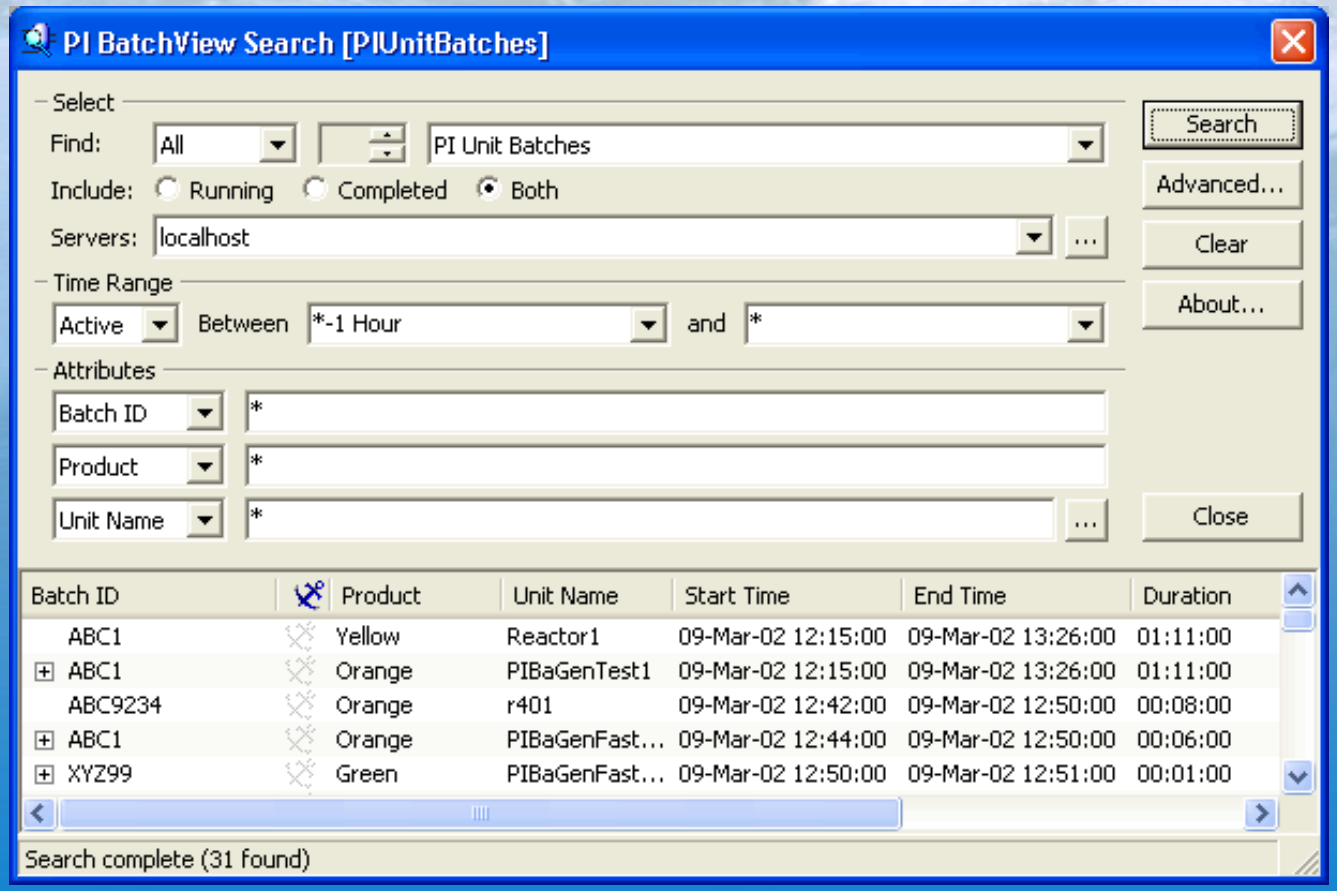
PIBatch



- Independent from physical equipment
- Relates to overall recipe and the material produced

- Batch ID, Recipe, Product, PIProperties

BatchView 3.0 Quick Search



BatchView 3.0 Excel Add-In

Microsoft Excel - icecream batch report.xls

File Edit View Insert Format Tools Data Window PI PI-SMT Help

Security...

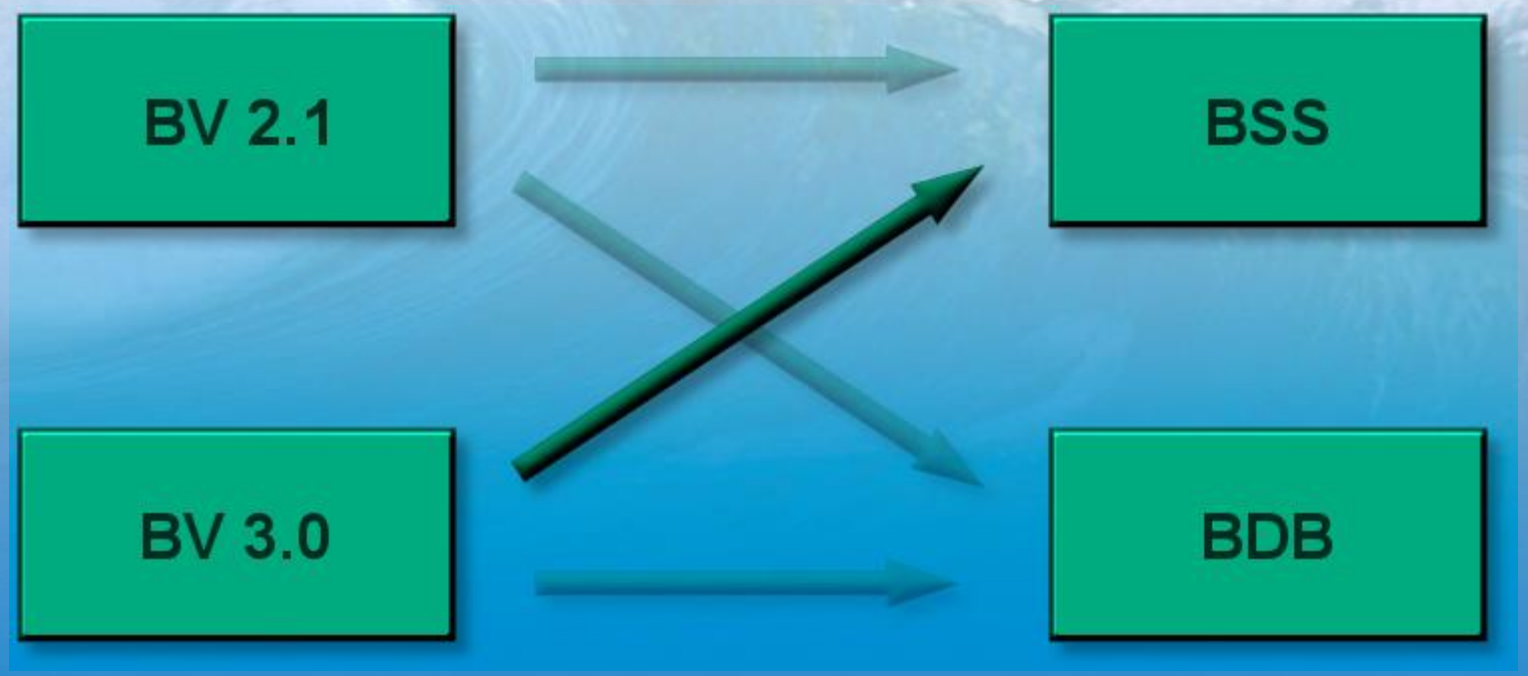
I7 =

	A	B	C	D	E	F	G
1							
2	BatchID	chocolate23					
3	Start	4-Mar-02					
4	End	5-Mar-02					
5							
6							
7	PIBatch	PIUnitBatch	Operation	Phase	Step	StartTime	EndTime
8	Chocolate23					04-Mar-02 10:35:03	04-Mar-02 11:10:21
9		Chocolate23A				04-Mar-02 10:38:12	04-Mar-02 11:08:17
10			Prechill			04-Mar-02 10:38:24	04-Mar-02 10:40:14
11			Charge			04-Mar-02 10:40:14	04-Mar-02 10:44:33
12				Chocolate Milk		04-Mar-02 10:40:18	04-Mar-02 10:41:48
13				Additives		04-Mar-02 10:41:48	04-Mar-02 10:44:04
18			Aerate			04-Mar-02 10:41:53	04-Mar-02 11:01:33
20			Unload			04-Mar-02 11:02:28	04-Mar-02 11:05:19
24			Clean			04-Mar-02 11:04:41	04-Mar-02 11:07:40
25		Chocolate23B				04-Mar-02 10:38:12	04-Mar-02 11:08:17
41							
42							

Migrating to BDB and BatchView 3.0

- Clients
- Data
- Data generation

Migrating Clients



Migrating Data

- Unit migration
  - Create PIUnit in ModuleDB
  - BV 3.0 sees BSS data alongside new BDB data
  - Units have a cutover date from BSS to BDB data

- Data Migration
  - Reprocess all old archives

Migrating Data Generation

- Migrate units
- PI Batch Generator
- PI Event File Interface

Batch Data Generation

- BSS uses the pibatchss
  - Pibatchss installed with PI Server Applications
- BDB
  - PI Batch Generator (PIBaGen)
    - Interface installed with PI Server Applications
    - Creates PIBatches, PIUnitBatches, PISubBatches from PI Points
  - PI Event File Interface
    - Version 3.0 will create BDB data
    - OpenBatch-based batch execution systems

What's Next

- PI BatchView 3.0 beta 1
- PI BatchView 3.0 for PI ActiveView
- PI Batch ICE

Visit us in the demo room

- Test drive PI BatchView 3.0
- Ask us questions
- Give us your feedback