



**projectOne SAP 4.6C
implementations
using RLINK at**

PolyOne



**PolyOne, who are we
projectOne Background**

May 1st, Vinyl Compound

- **Scope & Design , Data Views**

Sept. 1st, Colorants

- **Scope & Design, Data Views**

Jan. 1st, Elastomers

- **Scope & Design, Data Views**

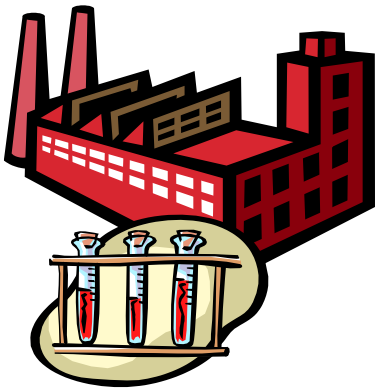
Questions?



Who are we?

PolyOne

*As the world's polymer services leader,
PolyOne forms a crucial link between two groups:*

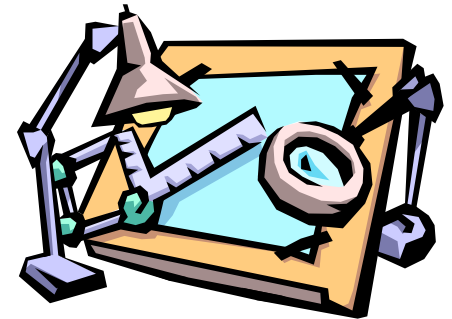


**Large Chemical
Producers**

*Supply us with
polymers and
related materials*

PolyOne

- **Plastics Colors & Compounds**
- **Specialty Resins & Formulators**
- **Engineered Films**
- **Resins & Intermediates**
- **PolyOne Distribution**
- **Elastomers & Performance Additives**



**Designers,
Assemblers,
Processors**

*Industries ranging from
telecommunications to
automotive to building
materials to medical
supplies*



- Annualized Revenues - \$2.1 billion

- Products

Vinyl, engineering resins and additives; specialty colorant and additive systems



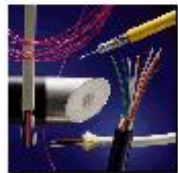
- Markets

Appliance, automotive, building materials, business equipment, consumer goods, wire and cable



- Compound End Uses

Appliance components, automobile trim, fax/printer housing, bottles, pipe and pipe fittings, wire and cable insulation



- Colorant End Uses

Plastic parts in virtually every market

- Known For

Proprietary compounds and technologies, including SPEEDeCOLOR™, a computerized color-matching system





- **Annualized Revenues - \$300 million**

- **Products**

Emulsion polymer and micro-dispersion specialty resins; vinyl plastisols, powders and inks; latex; rigid and flexible urethane and urethane foams

- **Markets**

Appliance, apparel, automotive, flooring, medical, packaging, sports and recreation, toy, wire and cable

- **Product End Uses**

Air filters; automotive instrument panels; vinyl flooring and carpet backing; appliance and fabric coatings; dishwasher and closet rack coatings; medical examination gloves; footwear; screen printing inks, signage

- **Known For**

High quality and consistency in specialty resins and the expertise to offer unique technical solutions for vinyl plastisols and powder, urethane and latex system applications



- Annualized Revenues - \$200 million

- Products

Flexible vinyl sheeting, thermoplastic olefin(TPO) and thermoplastic urethane(TPU) polymer films, polyvinyl chloride (PVC)/polyolefin foam laminates, TPO/polyolefin foam laminates, vinyl laminates

- Markets

Automotive, label/decal, medical, office supply, packaging, pond/pool/spa

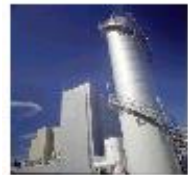
- Product End Uses

Automobile instrument panels, door trim panels, armrests, airbag doors and covers; medical blood bags and intravenous tubes; hospital inflatable mattresses; pool liners.

- Known For

Value-added film finishing technologies such as embossing, printing, painting and laminating





• Equity Joint Ventures

- Australian Vinyls Corporation, Australia - Partner: Orica Ltd.
- Oxy Vinyls, LP, United States - Partner: Occidental Chemical
- Sunbelt Chlor-Alkali, United State - Partner: Olin Corporation

• Other Joint Ventures

- DH Compounding Company, United States - Partner: Dow Chemical
- Geon/Polimeros Andinos, Colombia - Partner: Petroquimica Colombiana S.A.
- So.F.teR S.p.A., Italy - Partner: So.F.teR S.p.A.
- SPCGeon PTE Limited, - Singapore - Partner: Singapore Polymers Corporation
- Star Color Company Limited, Thailand - Majority owned by PolyOne
- Techmer, PM, LLC, United State - Partner: Techmer PM
- Tekno Polimer, Turkey - Majority owned by PolyOne



- Annualized Revenues - \$500 million

- Services

Delivery of more than 3,500 grades of engineering and commodity resins from approximately 20 major material suppliers, as well as standard and custom-compounded materials

- Markets

Custom molders and extruders of applications for automotive, building materials, consumer goods, electrical/electronics, industrial, medical, packaging, wire and cable

- Distribution Locations

United States, Canada, Mexico

- Known For

Adding value, not only through rapid delivery, but through specialists who advise customers on optimal resin formulations and processing support





- **Annualized Revenues - \$500 million**

- **Products/Services**

Thermoset elastomer (rubber) compounds, rubber compounds for roller and specialty applications, elastomer-enhancing colorants and additives, tolling (mixing of raw materials) for the rubber industry

- **Markets**

Aerospace, building materials, automotive, electrical, industrial, medical, sporting goods, wire and cable

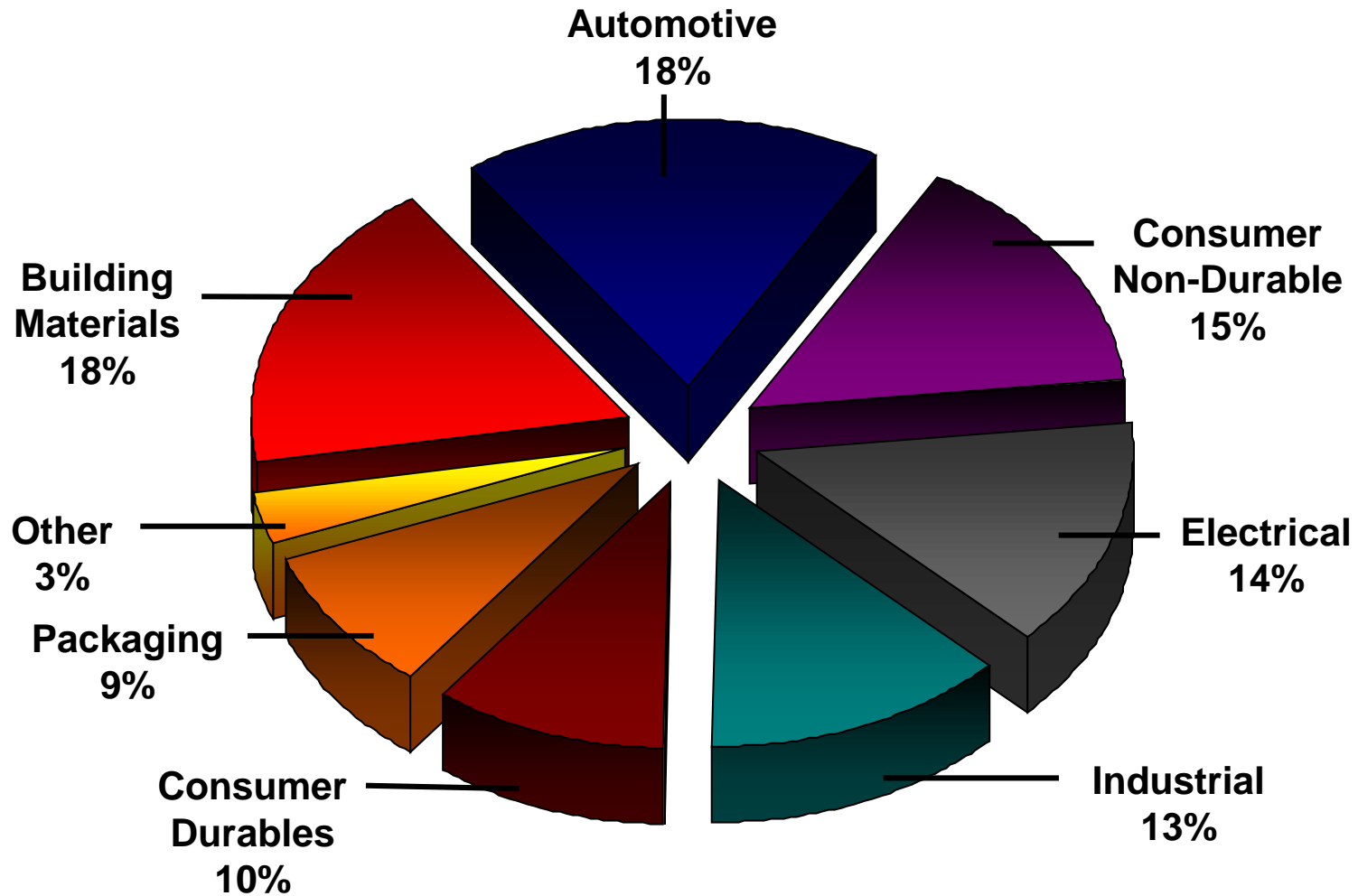
- **Product End Uses**

Automotive hoses and belts, footwear, escalator railings, industrial conveyers

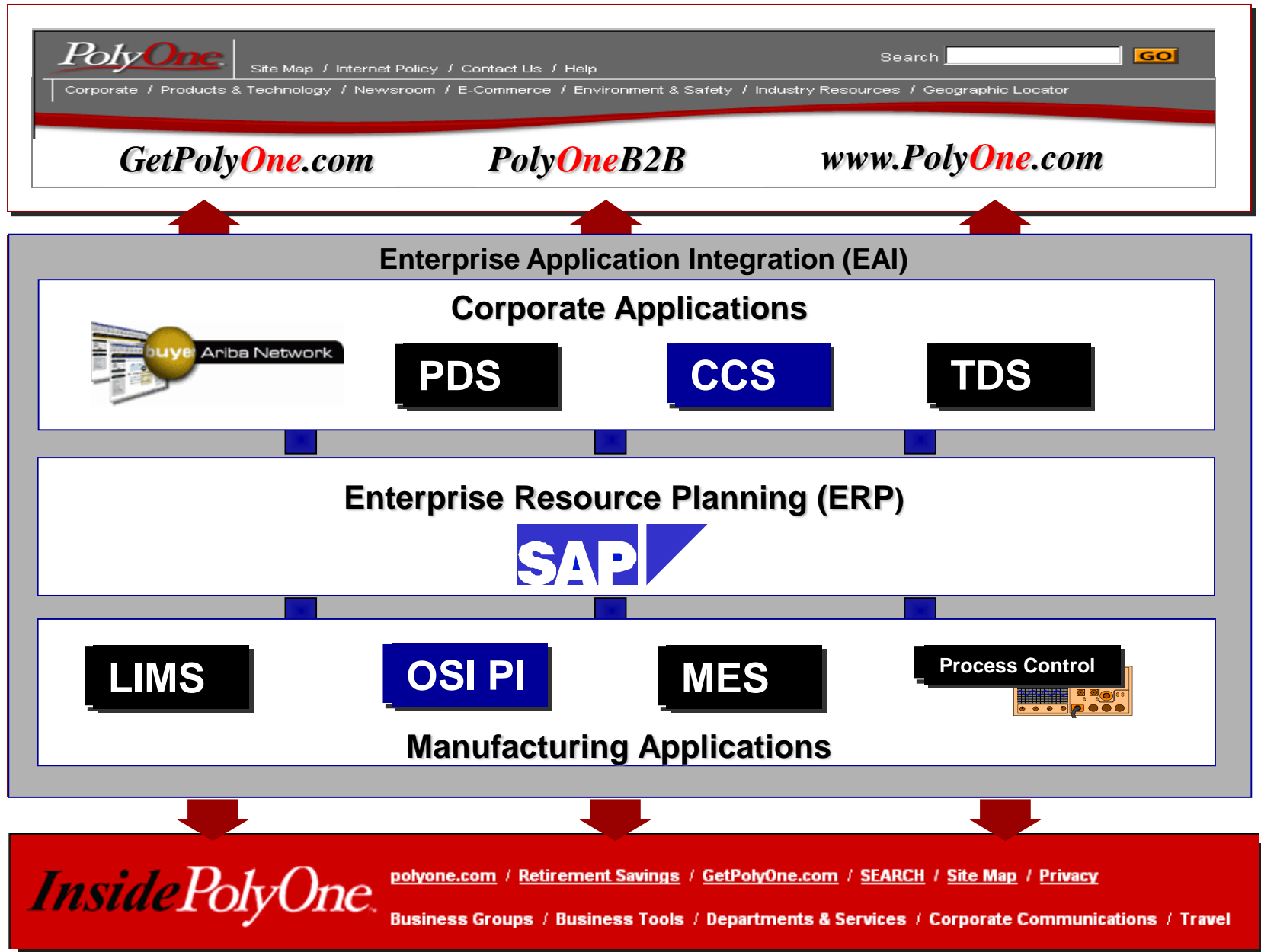
- **Known For**

The leading non-tire rubber compounder in North America





PolyOne Future Common Business Platform





2001 Rollout

PolyOne

Gaggenau, Germany
Seabrook, TX

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

VCSR

EM

Color & Europe

Elastomers

Avon Lake, OH (*)
Burlington, NJ
Farmingdale, NJ
Henry, IL (*)
Lakewood, NJ (UNICCO)
Long Beach, CA (*)
Louisville, KY (*)
Niagara Falls, Ont (*)
Orangeville, Ont
Pasadena, TX (*)
Pedricktown, NJ (*)
Plaquemine, LA (*)
St. Remi, Quebec
Terre Haute, IN (*)
Valleyfield, Quebec

Bethlehem, PA
Corona, CA
Dyersburg, TN
Houston, TX
Norcross, GA
Macedonia, OH

Assesse, Belgium
Bendorf, Germany
Broadview Heights, OH
Cergy, France
Elk Grove, IL
Florence, KY
Fort Worth, TX
Gastonia, NC
Glendale, AZ
Gyor, Hungary
LeHigh Valley, PA
Norwalk, OH
San Fernando, CA
Somerset, NJ
St. Peter's, MO
Suwanee, GA
Tossiat, France
Vonore, TN

Burton, OH
DeForest, WI
Dyersburg, TN
Jonesborough, TN
Queretero, Mexico
Santa Fe Springs, CA
Solon, OH

St. Etienne, France

(*)=plant + warehouse



2001 Rollout

PolyOne

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

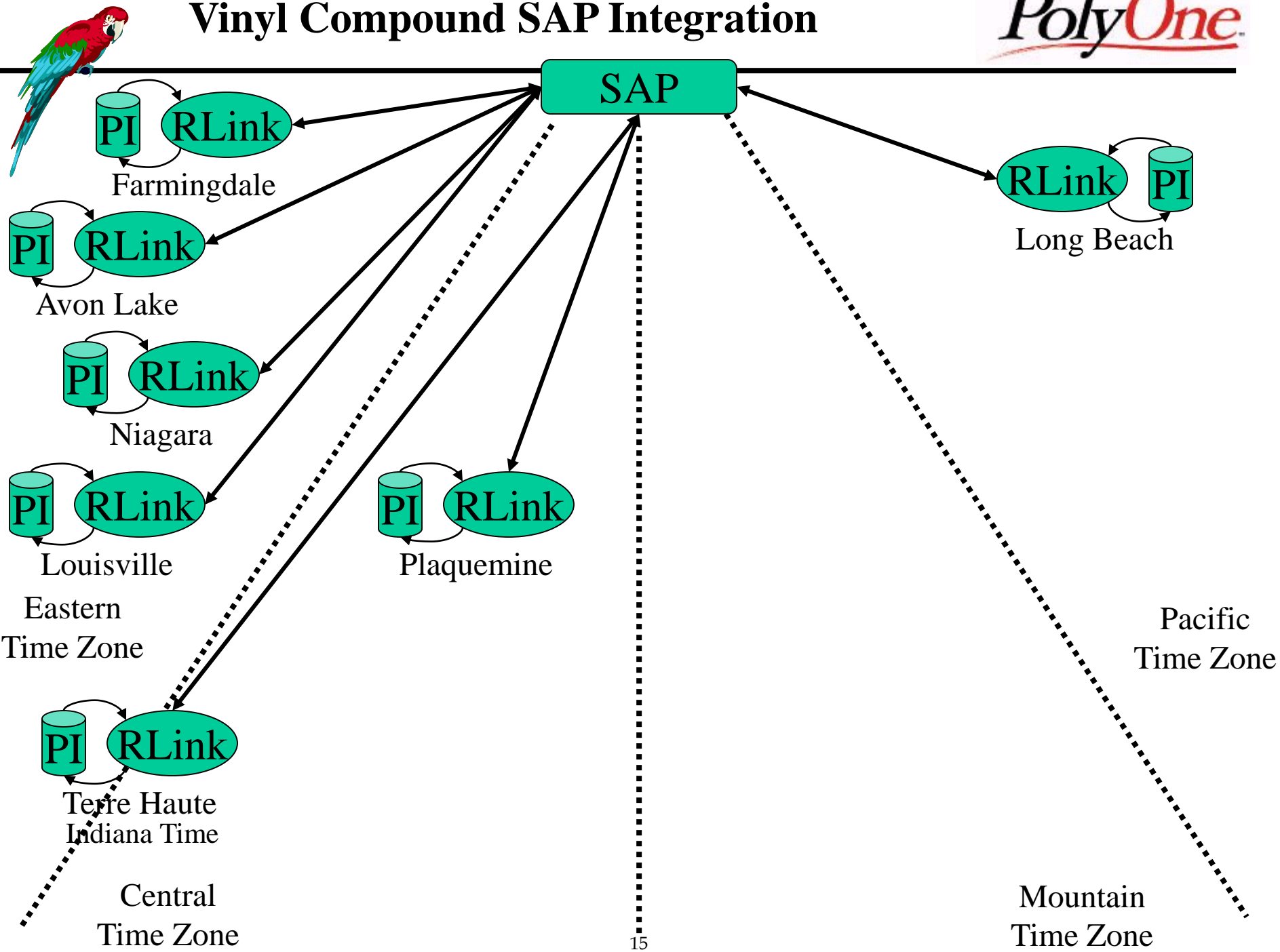
VCSR

Avon Lake, OH (*)
Burlington, NJ
Farmingdale, NJ
Henry, IL (*)
Lakewood, NJ (UNICCO)
Long Beach, CA (*)
Louisville, KY (*)
Niagara Falls, Ont (*)
Orangeville, Ont
Pasadena, TX (*)
Pedricktown, NJ (*)
Plaquemine, LA (*)
St. Remi, Quebec
Terre Haute, IN (*)
Valleyfield, Quebec

(*)=plant + warehouse



Vinyl Compound SAP Integration





Each Order has One Operation

MASTER BATCH MATERIAL

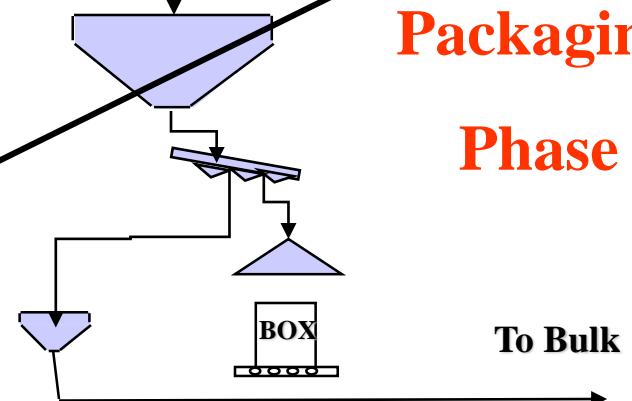
BULK MATERIAL

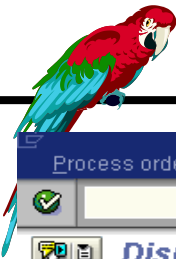
HAND ADD
AND
COLOR BLEND
MATERIAL

**Mixer
Phase**

**Extrusion
Phase**

**Packaging
Phase**





VC SAP Order Operations & Phases

Process order Edit Goto Operation System Help

RESTRICTED

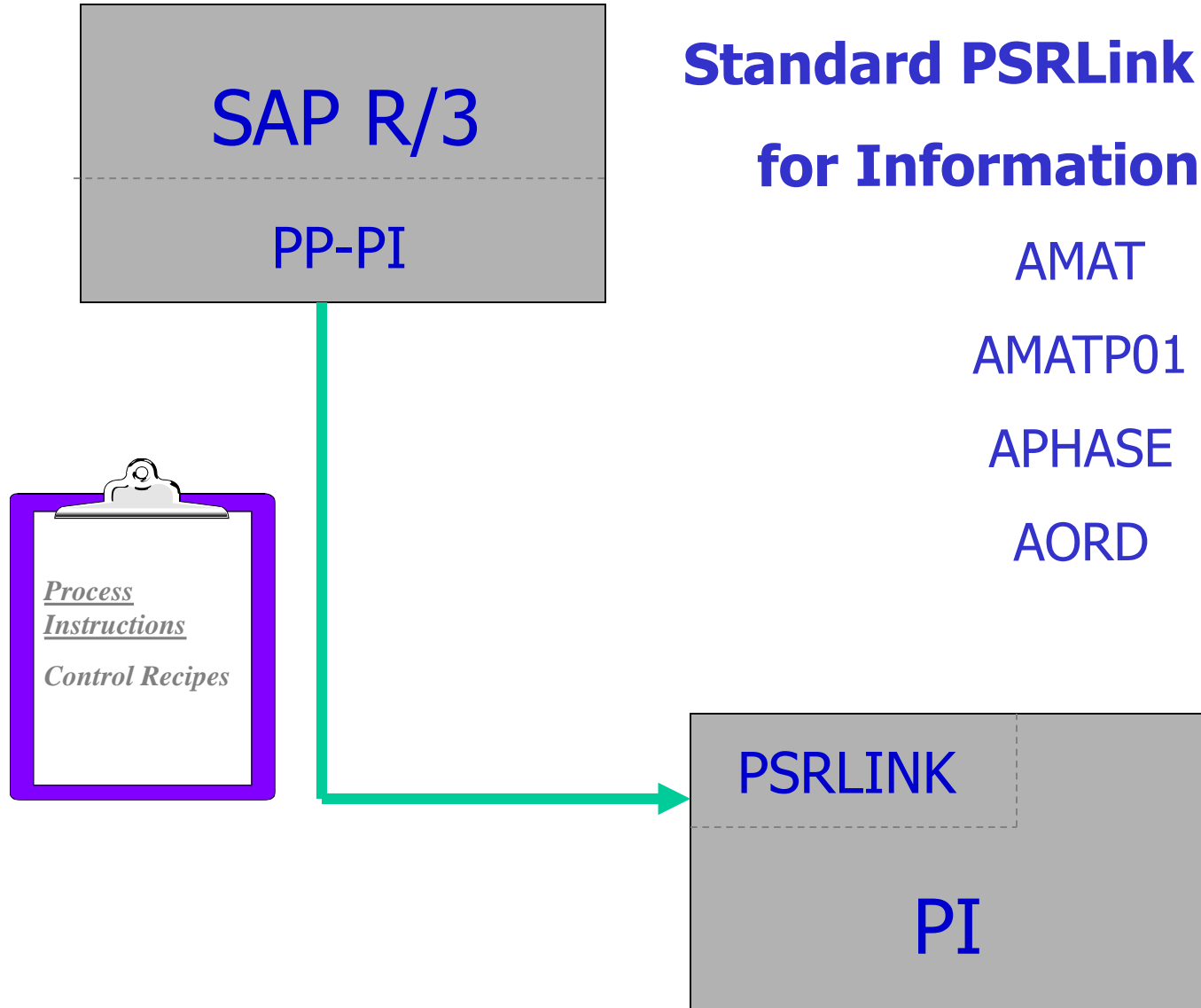
Display Process Order: Operation Overview

Material 2078033 Type ZI01
Material 85857000138060 GEON 85857 WHITE 1380 Plant 1012

Op...	P...	Sup...	Ct...	Resource	Cont...	Standar...	Short text	L...	System status	Latest start...	Latest st...	Latest finis...	Latest fi...	Mat...	Sec...	Operation g
0010				C	PI01		FCM prod.line (bld&proc...		CRCR_DSPT_REL	02/16/2002	01:12:52	02/16/2002	23:31:38			6
0015	<input checked="" type="checkbox"/>	0010	PD	C	PI01		FCM prod.line (blending)		CRCR_DSPT_REL	02/16/2002	01:12:52	02/16/2002	23:31:38	<input checked="" type="checkbox"/>		6
0025	<input checked="" type="checkbox"/>	0010	PD	C	ZI06		FCM prod.line (packagin...		CRCR_DSPT_REL	02/16/2002	23:31:38	02/16/2002	23:31:38	<input checked="" type="checkbox"/>		6
0035	<input checked="" type="checkbox"/>	0010	PD	C	ZI06		FCM prod.line (processi...		CRCR_DSPT_REL	02/16/2002	23:31:38	02/16/2002	23:31:38			6

Process inst. Entry 1 of 4

PRD (1) (010) polr3ap4 OVR





- **AORD - Order Data**

- including start/finish date/time, PolyOne ProdVers

- **APHASE - Phase Data**

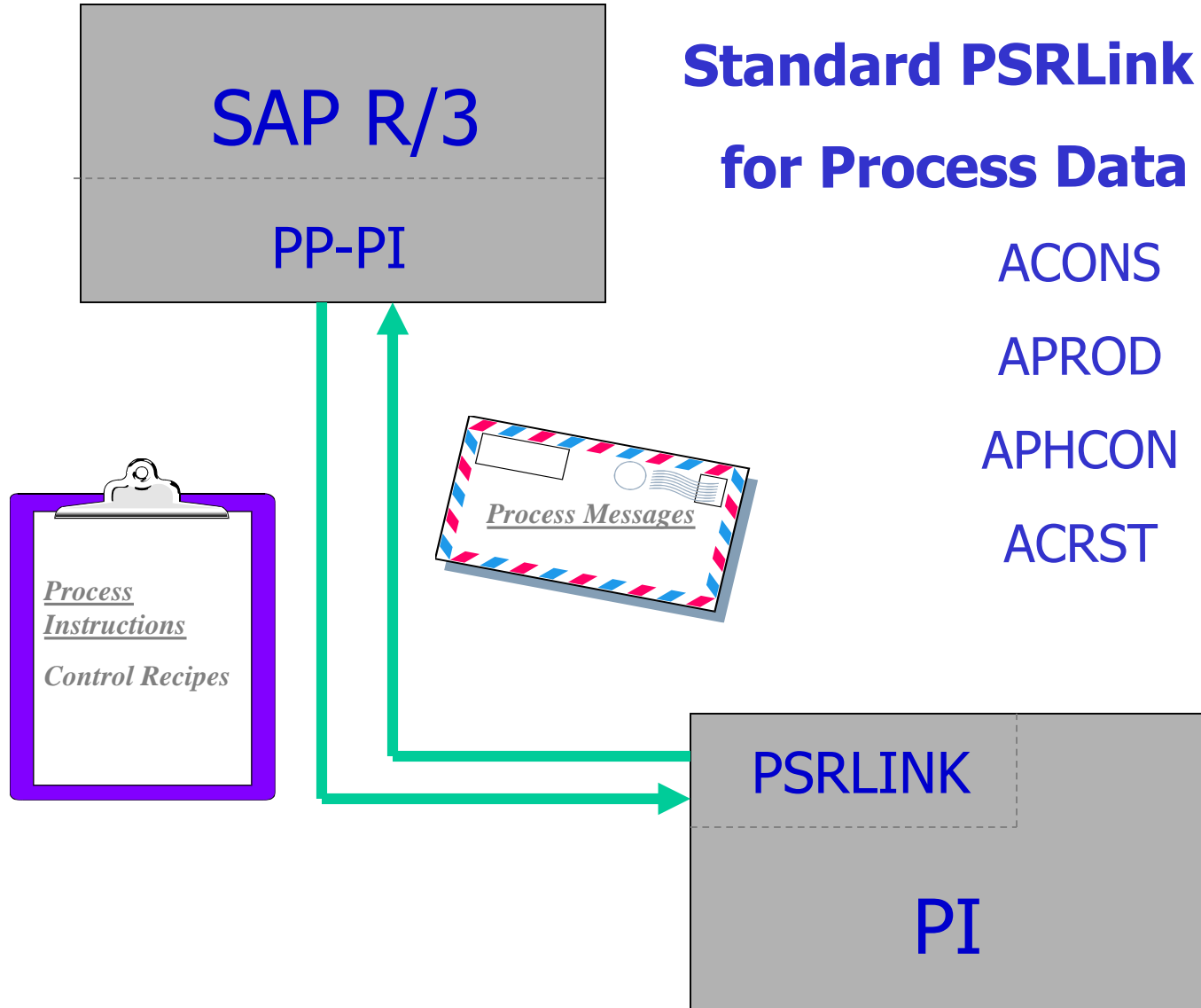
- including External Phases

- **AMAT - Material Allocation Info**

- Raw Material consumption

- **AMATP01 - Material Allocation Info**

- Finished Goods production





- **ACRST - Control Recipe status**
 - Start/Processed/Discarded
- **ACONS - Goods Issue**
 - Raw Material consumption (MAT_CONS)
- **APROD - Goods Receipt**
 - Finished Goods production (MAT_PROD)
- **APHCON - Time Ticket Info**
 - Confirmation Qty & Time



Display Process Order: Process Instruction Overview

Operations  Materials

Process order	2078033	Type	Z101
Material	85857000138060	GEON 85857 WHITE 1380	Plant 1012
SupOperatr	0010	FCM prod.line (bld&proc&pkg)	
Operation	0015 <input checked="" type="checkbox"/> Ind.:Phase	FCM prod.line (blending)	
CtrlRec.destin.	PD	OSI/PSRLINK	

Numb...	Proc.instr. category	Object ty...	Description	Change num..
0000	ACONS_1	3	Goods issue (PCS interface example)	
0000	AMAT_1	1	Material allocations (PCS example)	
0000	AMAT_1	1	Material allocations (PCS example)	
0000	AMAT_1	1	Material allocations (PCS example)	
0000	AMAT_1	1	Material allocations (PCS example)	
0000	AMAT_1	1	Material allocations (PCS example)	
0000	AMAT_1	1	Material allocations (PCS example)	
0000	AMAT_1	1	Material allocations (PCS example)	
0000	AMAT_1	1	Material allocations (PCS example)	
0000	AMAT_1	1	Material allocations (PCS example)	
0000	APHCON	2	Time Ticket Info. (Activities 1 to 6)	
0010	AORD_1	1	Order data (PCS example)	
0020	APHASE_1	1	Phases (PCS example)	
0030	ACRST_I	3	Change ctrl. recipe status (PCS example)	

Entry 1 of 15

PRD (1) (010) polr3ap4 OVR



Display Process Order: Process Instruction

Process order	2078033	Type	Z101
Material	85857000138060	GEON 85857 WHITE 1380	Plant 1012
SupOperatr	0010	FCM prod.line (bld&proc&pkg)	
Operation	0015	<input checked="" type="checkbox"/> Ind.:Phase	FCM prod.line (blending)
CtrlRec.destin.	PD	OSI/PSRLINK	
Instruction no.	0010	AORD_1	1 Order data (PCS example)

[illegible]

 Values Assign InitValue Entry 1 of 8



VC SAP Order Process Instructions in RLink

PolyOne

Microsoft Access - [dbo_crfv : Table]

File Edit View Insert Format Records Tools Window Help

crnid	ftno	fvno	atnam	atfor	atwrt
000000000000035335	00000070	0001	PPPI_MATERIAL	CHAR	961715028KA1
000000000000035335	00000070	0002	PPPI_MATERIAL_ITEM	CHAR	0150
000000000000035335	00000070	0006	PPPI_MATERIAL_QUANTITY	NUM	8.1061520000000004E+04
000000000000035335	00000070	0003	PPPI_MATERIAL_SHORT_TEXT	CHAR	SUSP RESIN 240 (LVL) BULK R.
000000000000035335	00000070	0004	PPPI_OPERATION	CHAR	0010
000000000000035335	00000070	0005	PPPI_PHASE	CHAR	0015
000000000000035335	00000070	0009	PPPI_RESERVATION	CHAR	0003472026
000000000000035335	00000070	0010	PPPI_RESERVATION_ITEM	CHAR	0006
000000000000035335	00000070	0007	PPPI_UNIT_OF_MEASURE	CHAR	LB
000000000000035335	00000080	0008	PPPI_MESSAGE_CATEGORY	CHAR	PI_PHCON
000000000000035335	00000080	0001	PPPI_OPERATION	CHAR	0010
000000000000035335	00000080	0002	PPPI_PHASE	CHAR	0015
000000000000035335	00000080	0003	PPPI_PHASE_RESOURCE	CHAR	A
000000000000035335	00000080	0004	PPPI_PLANT_OF_RESOURCE	CHAR	1011
000000000000035335	00000080	0005	PPPI_PROCESS_ORDER	CHAR	000003038886
000000000000035335	00000080	0006	PPPI_REQUESTED_VALUE	CHAR	PPPI_UNIT_OF_MEASURE
000000000000035335	00000080	0007	PPPI_REQUESTED_VALUE	CHAR	PPPI_YIELD_TO_CONFIRM
000000000000035335	00000080	0009	PPPI_REQUESTED_VALUE	CHAR	PPPI_STATUS_CONFIRMED
000000000000035335	00000080	0010	PPPI_REQUESTED_VALUE	CHAR	PPPI_EVENT_DATE
000000000000035335	00000080	0011	PPPI_REQUESTED_VALUE	CHAR	PPPI_EVENT_TIME
000000000000035335	00000080	0012	PPPI_REQUESTED_VALUE	CHAR	PPPI_ACTIVITY_1
000000000000035335	00000080	0013	PPPI_REQUESTED_VALUE	CHAR	PPPI_ACTIVITY_1_UNIT
000000000000035335	00000090	0006	OSI_END_DATE	DATE	20010209
000000000000035335	00000090	0007	OSI_END_TIME	TIME	011228
000000000000035335	00000090	0001	OSI_ORDER_QUANTITY	NUM	1.6800000100000002E+05
000000000000035335	00000090	0004	OSI_START_DATE	DATE	20010208
000000000000035335	00000090	0005	OSI_START_TIME	TIME	131227
000000000000035335	00000090	0008	POLYONE_PROD_VERSION	CHAR	A001
000000000000035335	00000090	0003	PPPI_PLANT_OF_RESOURCE	CHAR	1011
000000000000035335	00000090	0002	PPPI_RESOURCE_NETWORK	CHAR	A
000000000000035335	00000100	0006	PPPI_EXTERNAL_PHASE	CHAR	BLD_A
000000000000035335	00000100	0002	PPPI_OPERATION	CHAR	0010

Record: 1 of 218 (Filtered)

Datasheet View

FLTR



VC SAP Order Bill of Materials in RLink

Microsoft Access

File Edit View Insert Format Records Tools Window Help

dbo_material_list : Table

	id	recipe_id	phase_id	material_id	item	quantity	eng_unit_id	actual_quantit	reservation	reservation_ite
▶	1797	000000000000035335	0035	W320300B000060		-168000.001	LB			
	1795	000000000000035335	0025	000000000151000900	0031	124.46	EA		0003472026	0010
	1796	000000000000035335	0025	000000000141000054	0041	124.46	EA		0003472026	0011
	1794	000000000000035335	0025	000000000121000904	0021	124.46	EA		0003472026	0009
	1793	000000000000035335	0025	000000000121000900	0011	124.46	EA		0003472026	0008
	1792	000000000000035335	0015	961715028KA1	0150	81061.52	LB		0003472026	0006
	1791	000000000000035335	0015	94300L002GLF	0140	202.654	LB		0003472026	0005
	1790	000000000000035335	0015	93100P072KA1	0130	48636.912	LB		0003472026	0004
	1789	000000000000035335	0015	92600F019SL3	0120	4053.076	LB		0003472026	0003
	1788	000000000000035335	0015	92500F005KA2	0110	30398.07	LB		0003472026	0002
	1787	000000000000035335	0015	91300S027SL3	0100	3647.768	LB		0003472026	0001
*	umber)									

Record: 1 of 11 (Filtered)

Datasheet View

FLTR



RLink Translation Method



X Rcp1 Resin
Resin1 250#

X Rcp1 ImpMod
ImpMod2 150#

X Rcp1 Stab
Stab3 100#

X Rcp1 Pigment
Pigment4 50#

X Rcp1 Resin
Resin1 250#

X Rcp1 ImpMod
ImpMod2 150#

X Rcp1 Stab
Stab3 100#

X Rcp1 Pigment
Pigment4 50#

X Rcp1 Resin
Resin1 230#

X Rcp1 ImpMod
ImpMod2 140#

X Rcp1 Stab
Stab3 110#

X Rcp1 Pigment
Pigment5 60#

Phase start
Time →

Phase confirmation

Phase confirmation

<u>Tags</u>	<u>1st Conf.</u>			
Recipe	Rcp1	Rcp1	Rcp1	Rcp1
Mat'l	Resin	ImpMod	Stab	Pigment
Batch	Resin1	ImpMod2	Stab3	Pigment4
Qty	250	150	100	50
<u>Tags</u>	<u>2nd Conf.</u>			
Recipe	Rcp1	Rcp1	Rcp1	Rcp1
Mat'l	Resin	ImpMod	Stab	Pigment
Batch	Resin1	ImpMod2	Stab3	Pigment4
Qty	480	290	210	50

Rcp1
Pigment
Pigment5
60



VC RLink Interface data in PI

PolyOne

Microsoft Excel - INF SAP DATA.xls

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

Arial 10 B I U

A3 = 02/06/2001 1:00:00 AM

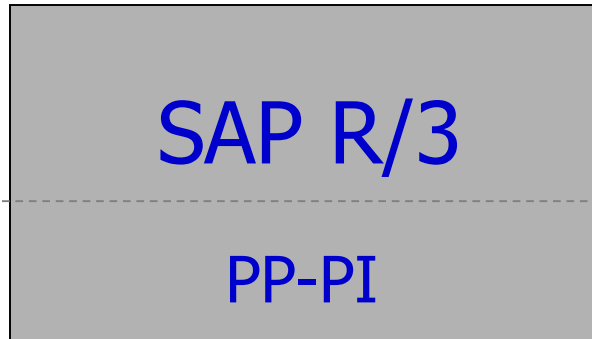
	A	B	C	D	E	F	G	H	I	J
1	Consumption									
2	From:	To:								
3	06-Feb-01 01:00:00	09-Feb-01 23:00:00		663,246.95			PhaseSEMM_L_A_SAPst		ProductPhSEMM_L_A_id	RecipeSEMM_L_A_Phic
4	Event Date/Time	Control Recipe ID	Material ID	Quantity	Vendor Lot		Event Date/Time	status	Product	Control Recipe ID
5	data points:	623	623	623	623		data points:	47	47	47
567	08-Feb-01 03:49:18	000000000000035334	91300S010GLF	13.9829998	869-2				#N/A	#N/A
568	08-Feb-01 03:49:19	000000000000035334	94300L035GLF	13.9829998	207791				#N/A	#N/A
569	08-Feb-01 03:49:20	000000000000035334	961715013KA1	139.8220062	220F				#N/A	#N/A
570	08-Feb-01 04:13:20	000000000000035334	ZTOTMET00000	322.3819885	P55				#N/A	#N/A
571	08-Feb-01 04:20:10	000000000000035334	961715013KA1	4517.401855	220F				#N/A	#N/A
572	08-Feb-01 04:20:32	000000000000035334	ZTOTMET00000	1288.93396	P55				#N/A	#N/A
573	08-Feb-01 04:20:59	000000000000035334	91300S010GLF	13.9739998	869-2				#N/A	#N/A
574	08-Feb-01 04:21:00	000000000000035334	94300L035GLF	13.9739998	207791				#N/A	#N/A
575	08-Feb-01 04:21:01	000000000000035334	961715013KA1	139.7389984	220F				#N/A	#N/A
576	08-Feb-01 04:21:07	000000000000035334	91300S027SL3	325.7669983	351				#N/A	#N/A
577	08-Feb-01 04:21:18	000000000000035334	926710801AL3	92.96499634	15541				#N/A	#N/A
578	08-Feb-01 04:50:09	000000000000035334	ZTOTMET00000	107.4960022	P55				#N/A	#N/A
579	08-Feb-01 04:52:18	000000000000035334	961715013KA1	4517.325195	220F				#N/A	#N/A
580	08-Feb-01 04:52:43	000000000000035334	ZTOTMET00000	1397.250977	P55				#N/A	#N/A
581	08-Feb-01 04:53:07	000000000000035334	91300S010GLF	12.89900017	869-2				#N/A	#N/A
582	08-Feb-01 04:53:08	000000000000035334	94300L035GLF	12.89900017	207791				#N/A	#N/A
583	08-Feb-01 04:53:09	000000000000035334	961715013KA1	128.9900055	220F				#N/A	#N/A
584	08-Feb-01 04:53:18	000000000000035334	91300S027SL3	300.9670105	351				#N/A	#N/A
585	08-Feb-01 04:53:26	000000000000035334	926710801AL3	86.20300293	15541				#N/A	#N/A
586	08-Feb-01 05:24:07	000000000000035334	91300S010GLF	11.8159998	869-2				#N/A	#N/A
587	08-Feb-01 05:24:08	000000000000035334	94300L035GLF	11.8159998	207791				#N/A	#N/A
588	08-Feb-01 05:24:09	000000000000035334	961715013KA1	118.1539993	220F				#N/A	#N/A
589	08-Feb-01 05:24:16	000000000000035334	926710801AL3	79.91000366	15541				#N/A	#N/A
590	08-Feb-01 05:24:26	000000000000035334	91300S027SL3	275.6740112	351				#N/A	#N/A
591	08-Feb-01 05:25:30	000000000000035334	961715013KA1	3471.542969	220F				#N/A	#N/A
592	08-Feb-01 05:25:55	000000000000035334	ZTOTMET00000	1074.457031	P55				#N/A	#N/A
593	08-Feb-01 06:00:11	000000000000035334	961715013KA1	3479.512939	220F				#N/A	#N/A
594	08-Feb-01 06:00:32	000000000000035334	ZTOTMET00000	1075.359009	P55				#N/A	#N/A
595	08-Feb-01 06:01:02	000000000000035334	91300S010GLF	10.76599979	869-2				#N/A	#N/A
596	08-Feb-01 06:01:03	000000000000035334	94300L035GLF	10.76599979	207791				#N/A	#N/A
597	08-Feb-01 06:01:04	000000000000035334	961715013KA1	107.6620026	220F				#N/A	#N/A
598	08-Feb-01 06:01:19	000000000000035334	91300S027SL3	250.7810059	351				#N/A	#N/A
599	08-Feb-01 06:01:41	000000000000035334	926710801AL3	69.78600311	15541				#N/A	#N/A

DataSort / Recipe / ConsData / UnsConsData / PkgData / ProdData / UnsProdData / GradeData / ReworkData

VC RLink Interface data in PI



Microsoft Excel - INF SAP DATA.xls									
File Edit View Insert Format Tools Data Window PI PI-SMT Help									
Arial 10 B I U [Formatting Icons] 90%									
A4	= Event Date/Time								
A	B	C	D	E	F	G	H	I	J
1 Production									
2 From:	To:								
3 03-Feb-01 01:00:00	09-Feb-01 23:00:00		1,447,086.00			PhaseCMPD_L_A_SAPst	ProductPhCMPD_L_A_ic	RecipeCMPD_L_A_Phic	
4 Event Date/Time	Control Recipe ID	Material ID	Quantity	Vendor Lot		Event Date/Time	status	Product	Control Recipe ID
5 data points:	25	25	25	25		data points:	32	32	32
6 03-Feb-01 03:46:46	000000000000034749	W230100B299900	190100	101111A079		03-Feb-01 03:46:47	00004	W230100B299900	000000000000034749
7 03-Feb-01 15:36:15	000000000000034749	W230100B299900	199900	101111A079		04-Feb-01 03:44:02	00002	W230100B299900	000000000000034749
8 04-Feb-01 03:44:04	000000000000035070	W230200B299900	180100	101111A080		04-Feb-01 03:44:03	00001	W230200B299900	000000000000035070
9 04-Feb-01 16:36:29	000000000000035070	W230200B299900	183300	101111A080		04-Feb-01 03:44:05	00004	W230200B299900	000000000000035070
10 05-Feb-01 02:10:05	000000000000035331	X1111580720360	1400	101112A090		04-Feb-01 16:36:30	00004	W230200B299900	000000000000035070
11 05-Feb-01 02:54:04	000000000000035331	X1111580720360	9800	101112A090		05-Feb-01 02:10:03	00002	W230200B299900	000000000000035070
12 05-Feb-01 05:33:36	000000000000035331	X1111580720360	32200	101112A090		05-Feb-01 02:10:04	00001	X1111580720360	000000000000035331
13 05-Feb-01 07:07:23	000000000000035331	X1111580720360	18200	101112A090		05-Feb-01 02:10:06	00004	X1111580720360	000000000000035331
14 05-Feb-01 09:18:37	000000000000035331	X1111580720360	30800	101112A090		05-Feb-01 02:54:05	00004	X1111580720360	000000000000035331
15 05-Feb-01 10:06:18	000000000000035331	X1111580720360	9800	101112A090		05-Feb-01 05:33:37	00004	X1111580720360	000000000000035331
16 05-Feb-01 18:14:12	000000000000035331	X1111580720360	107800	101112A090		05-Feb-01 07:07:24	00004	X1111580720360	000000000000035331
17 05-Feb-01 21:07:46	000000000000035331	X1111580720360	42000	101112A090		05-Feb-01 09:18:38	00004	X1111580720360	000000000000035331
18 05-Feb-01 21:35:32	000000000000035331	X1111580720360	4200	101112A090		05-Feb-01 10:06:19	00004	X1111580720360	000000000000035331
19 06-Feb-01 15:14:52	000000000000035333	C900000B000060	7000	101112A092		05-Feb-01 18:14:13	00004	X1111580720360	000000000000035331
20 06-Feb-01 17:47:46	000000000000035333	C900000B000060	30800	101112A092		05-Feb-01 21:07:47	00004	X1111580720360	000000000000035331
21 06-Feb-01 18:12:25	000000000000035333	C900000B000060	28000	101112A092		05-Feb-01 21:35:33	00004	X1111580720360	000000000000035331
22 06-Feb-01 21:05:41	000000000000035333	C900000B000060	28000	101112A092		05-Feb-01 21:35:34	00002	X1111580720360	000000000000035331
23 06-Feb-01 21:58:12	000000000000035333	C900000B000060	28000	101112A092		06-Feb-01 15:14:51	00001	C900000B000060	000000000000035333
24 06-Feb-01 23:06:53	000000000000035333	C900000B000060	26600	101112A092		06-Feb-01 15:14:53	00004	C900000B000060	000000000000035333
25 07-Feb-01 01:06:44	000000000000035333	C900000B000060	33600	101112A092		06-Feb-01 17:47:47	00004	C900000B000060	000000000000035333
26 07-Feb-01 02:39:02	000000000000035333	C900000B000060	26600	101112A092		06-Feb-01 18:12:26	00004	C900000B000060	000000000000035333
27 07-Feb-01 04:05:33	000000000000035333	C900000B000060	23800	101112A092		06-Feb-01 21:05:42	00004	C900000B000060	000000000000035333
28 07-Feb-01 05:22:37	000000000000035333	C900000B000060	7000	101112A092		06-Feb-01 21:58:13	00004	C900000B000060	000000000000035333
29 07-Feb-01 06:01:37	000000000000035333	C900000B000060	7986	101112A092		06-Feb-01 23:06:54	00004	C900000B000060	000000000000035333
30 08-Feb-01 04:43:05	000000000000035334	8065600B022000	190100	101112A093		07-Feb-01 01:06:45	00004	C900000B000060	000000000000035333
31 #N/A	#N/A	#N/A	#N/A	#N/A		07-Feb-01 02:39:03	00004	C900000B000060	000000000000035333
32 #N/A	#N/A	#N/A	#N/A	#N/A		07-Feb-01 04:05:34	00004	C900000B000060	000000000000035333
33 #N/A	#N/A	#N/A	#N/A	#N/A		07-Feb-01 05:22:38	00004	C900000B000060	000000000000035333
34 #N/A	#N/A	#N/A	#N/A	#N/A		07-Feb-01 06:01:38	00004	C900000B000060	000000000000035333
35 #N/A	#N/A	#N/A	#N/A	#N/A		07-Feb-01 06:01:39	00002	C900000B000060	000000000000035333
36 #N/A	#N/A	#N/A	#N/A	#N/A		08-Feb-01 04:43:04	00001	8065600B022000	000000000000035334
37 #N/A	#N/A	#N/A	#N/A	#N/A		08-Feb-01 04:43:06	00004	8065600B022000	000000000000035334
38 #N/A	#N/A	#N/A	#N/A	#N/A		#N/A	#N/A	#N/A	#N/A



Standard PSRLink Interface for Unsolicited Process Data

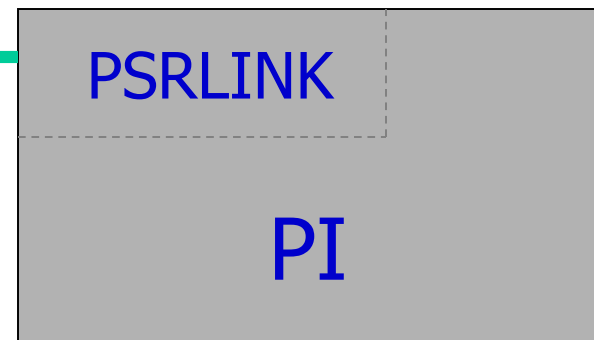
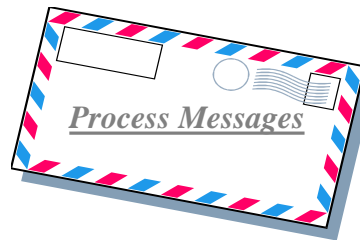
ACONS

APROD

MATRANS1

MATRANS2

LINEVENT





- **PI_CONS - Unsolicited CONS**
 - unplanned consumption (SAP_TRAN)
- **PI_PROD - Unsolicited PROD**
 - unplanned production (SAP_TRAN)
- **MATRANS1 - FG Grading**
 - Move from QI, then Batch ID change
- **MATRANS2 - Rework CONS**
 - Move from Blocked, then CONS
- **LINEVENT - Line Events**
 - Populates custom SAP table

VC RLink Interface data in PI



Microsoft Excel - INF SAP DATA.xls

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

Arial 10 B I U

A4 = Event Date/Time

	A	B	C	D	E	F	G	H	I	J
1	Grading						lvcmppi01			
2	From:	To:					PPBAT_L_A_UNSQIMV			
3	21-Jan-01 01:00:00	09-Feb-01 23:00:00		6,483,472.00			PPMID_L_A_UNSQIMV			
4	Event Date/Time	Current Batch	Material ID	Quantity	New Batch		PPQTY_L_A_UNSQIMV			
5	data points:	22	22	22	22		PPOTH_L_A_UNSQIMV			
6	22-Jan-01 08:13:17	101111A057	W120200B000000	171300	001111A057					
7	22-Jan-01 08:13:18	101111A066	W745100B000060	39785	001111A066					
8	22-Jan-01 08:41:38	101111A056	W120000B000000	384000	001111A056					
9	22-Jan-01 08:47:23	101111A058	W320300B000060	1350	401111A058					
10	22-Jan-01 08:48:43	101111A070	8459800B022060	298147	001111A070					
11	24-Jan-01 10:20:28	101111A058	W320300B000060	209330	001111A058					
12	24-Jan-01 10:20:44	101111A072	8064800B021000	381400	001111A072					
13	24-Jan-01 12:42:25	101111A072	8064800B021000	180900	001111A072					
14	25-Jan-01 10:38:52	101111A071	C900000B000000	177300	001111A071					
15	25-Jan-01 13:05:39	101111A059	C700000B000060	281590	001111A059					
16	26-Jan-01 10:02:49	101111A073	8466500B000000	360300	001111A073					
17	29-Jan-01 10:09:22	101111A074	C900000B299960	122995	001111A074					
18	29-Jan-01 10:09:23	101111A075	W340100B299960	23975	001111A075					
19	29-Jan-01 10:10:30	101111A076	W340100B299900	186900	001111A076					
20	29-Jan-01 10:11:18	101111A077	W240200B299800	763500	001111A077					
21	30-Jan-01 09:35:09	101111A078	W241300B299800	379300	001111A078					
22	31-Jan-01 10:16:22	101111A079	W230100B299900	381000	001111A079					
23	31-Jan-01 12:03:39	101111A079	W230100B299900	190000	001111A079					
24	05-Feb-01 07:46:08	101111A079	W230100B299900	1341600	001111A079					
25	05-Feb-01 09:26:51	101111A080	W230200B299900	363400	001111A080					
26	05-Feb-01 13:38:52	101112A090	X1111580720360	70000	001112A090					
27	07-Feb-01 09:52:48	101112A091	C700000B000000	175400	001112A091					
28	#N/A	#N/A	#N/A	#N/A	#N/A					
29	#N/A	#N/A	#N/A	#N/A	#N/A					
30	#N/A	#N/A	#N/A	#N/A	#N/A					
31	#N/A	#N/A	#N/A	#N/A	#N/A					
32	#N/A	#N/A	#N/A	#N/A	#N/A					
33	#N/A	#N/A	#N/A	#N/A	#N/A					
34	#N/A	#N/A	#N/A	#N/A	#N/A					

DataSort / Recipe / ConsData / UnsConsData / PkgData / ProdData / UnsProdData / GradeData / ReworkData



Number of Plants:

6

Number of Lines:

21

DL Functions:

CRDL,

Parameters

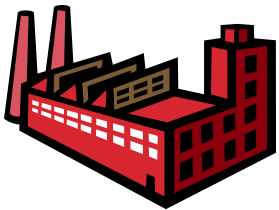
PMU Functions

CONS, PROD,

BlkCONS,

Grading,

LineEvents



Staff:

8

Design/Code:

2 months

Testing:

2 months

Implementation:

Staggered over 3 mo

Control Recipes:

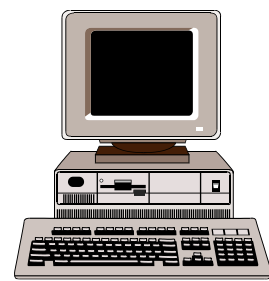
avg. 182/week

CONS PMU :

avg. 4120/day

PROD PMU :

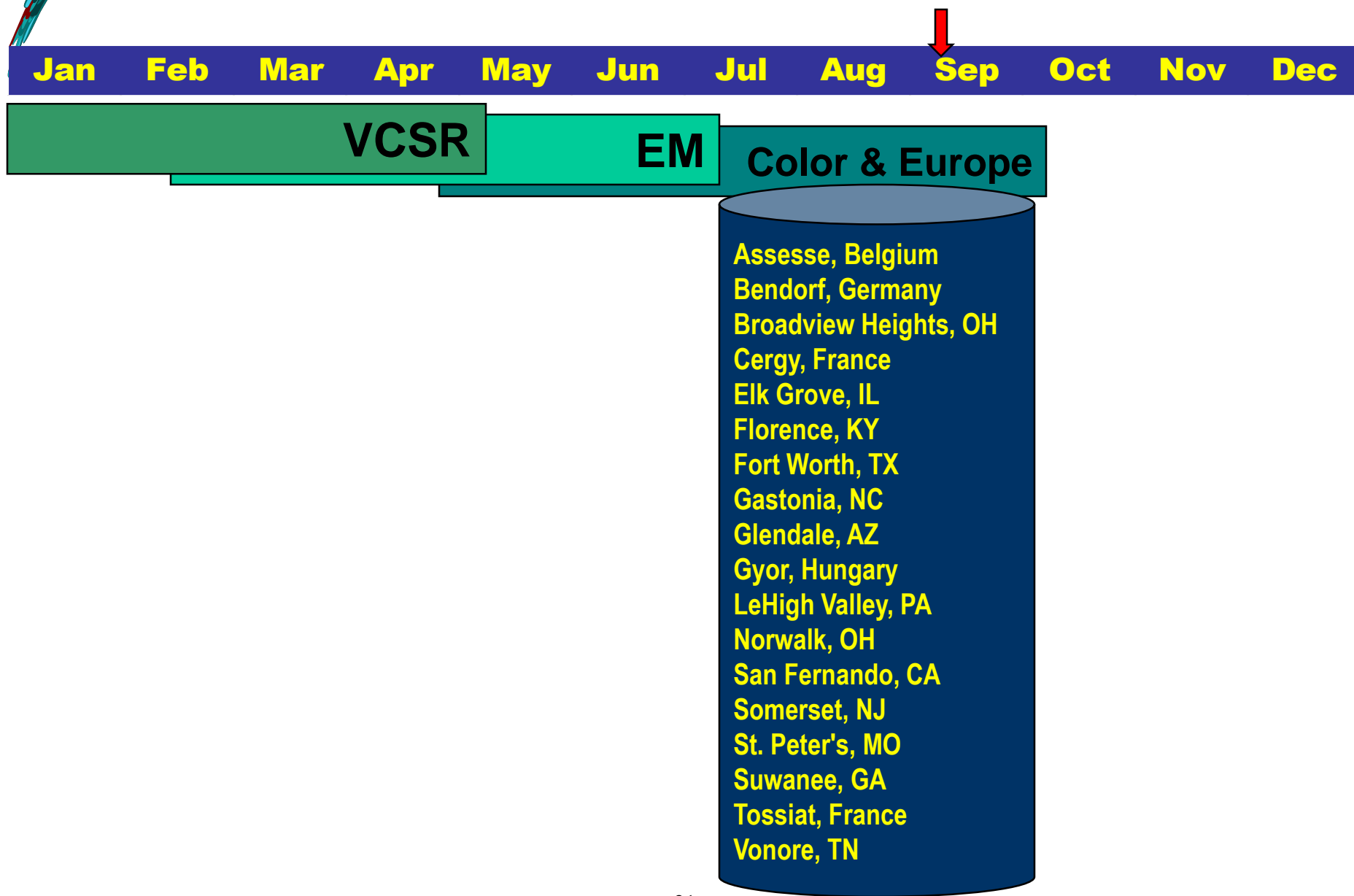
avg. 555/day





2001 Rollout

PolyOne

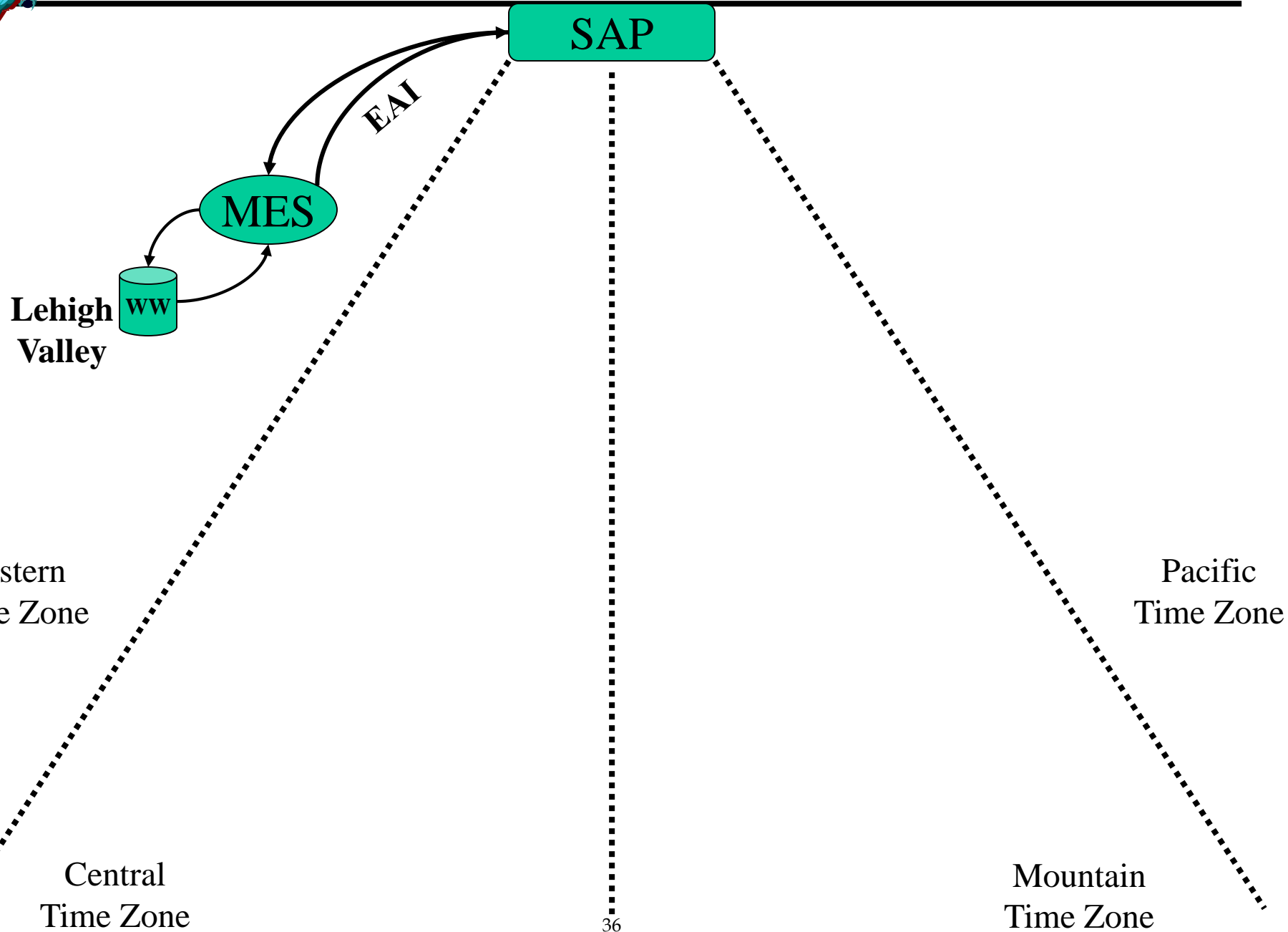




U.S. Colorant Facilities

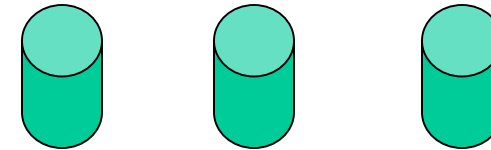
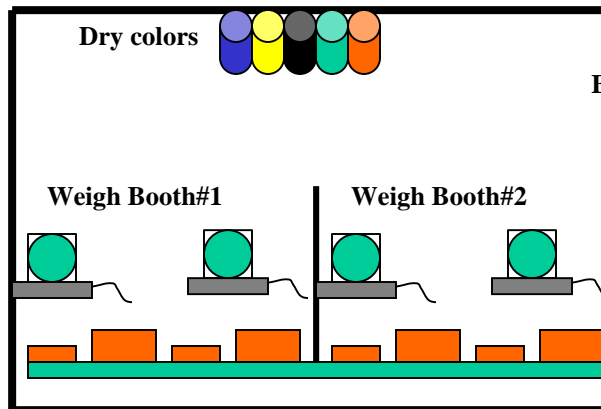


Color SAP-Wonderware Integration

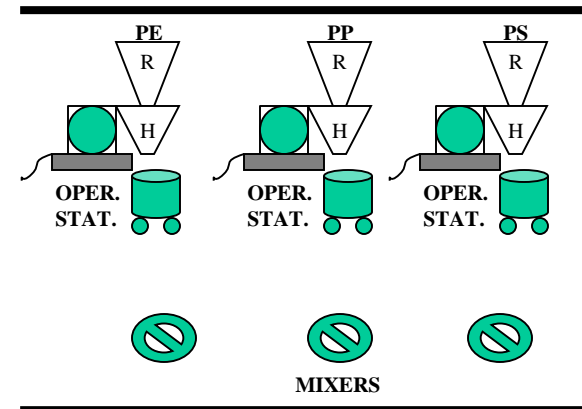




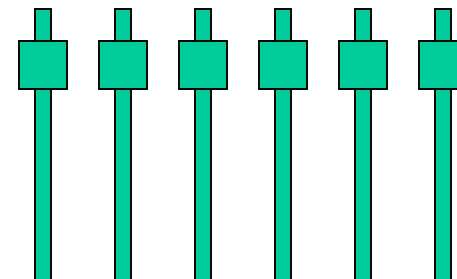
WEIGHMENT AREA



Bulk Storage

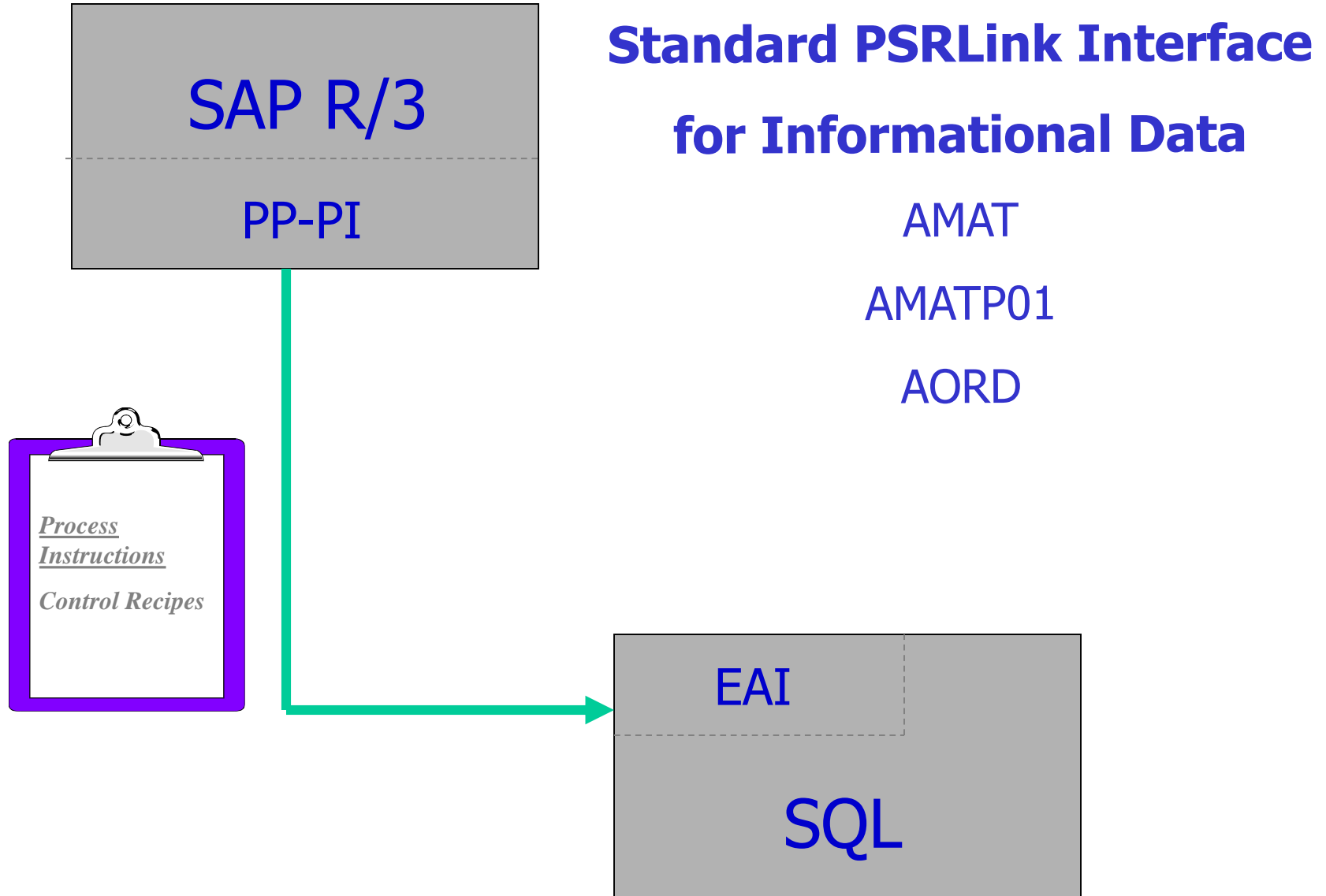


Extruder Area



Each Order has

- One Operation
- One Phase





- **AORD - Order Data**

- including start/finish date/time, PolyOne ProdVers
- Batch_Size, Num_Batches

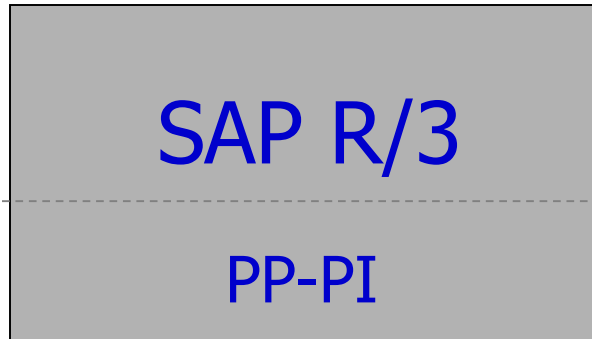
- **AMAT - Material Allocation Info**

- Raw Material consumption

- **AMATP01 - Material Allocation Info**

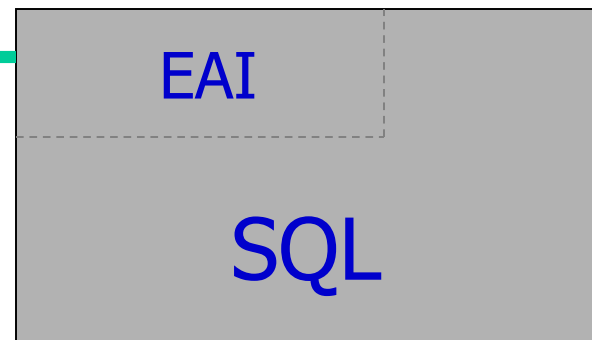
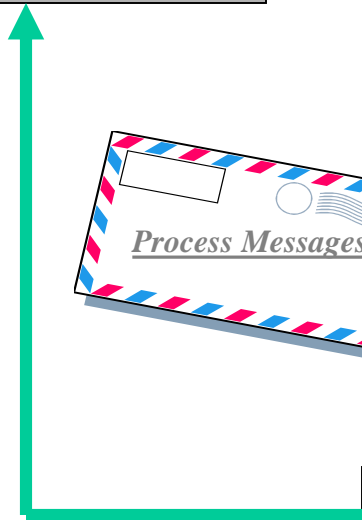
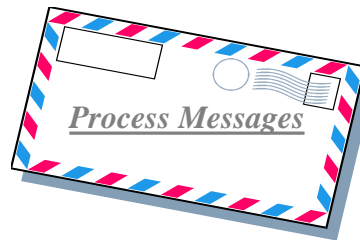
- Finished Goods production

40



**Standard PSRLink Interface
for Unsolicited Process Data**

ACONS





- **PI_CONS - Unsolicited CONS**
 - **Consumption**



Color EAI Interface data in SQL

Microsoft Access - [dbo_msg_goods_issue : Table]

File Edit View Insert Format Records Tools Window Help

msg_id	process_order	opera	phase	material_id	batch_id	event_date	event_time	plant	quantity	unit	inte	interface_timestamp	message_type
10355	000002072743	0010	0015	R67000018SL3	3781107	20020213	073334	1209	296	KG	Y	02/13/2002 7:45:00 AM	PI_CONS
10356	000002072743	0010	0015	R67000032SL3	3780112	20020213	073334	1209	70	KG	Y	02/13/2002 7:45:00 AM	PI_CONS
10357	000002072743	0010	0015	R67000018SL3	3781107	20020213	081833	1209	275	KG	Y	02/13/2002 8:28:00 AM	PI_CONS
10358	000002072743	0010	0015	R67000032SL3	3780112	20020213	081834	1209	70	KG	Y	02/13/2002 8:28:00 AM	PI_CONS
10359	000002075476	0010	0015	C02000057GLA	D80098	20020213	081834	1209	7.15	KG	Y	02/13/2002 8:28:00 AM	PI_CONS
10360	000002075476	0010	0015	C05000036GLA	312694	20020213	081834	1209	23.91	KG	Y	02/13/2002 8:28:00 AM	PI_CONS
10361	000002075476	0010	0015	CC00012852DR	F/10971	20020213	081834	1209	15.8	KG	Y	02/13/2002 8:28:00 AM	PI_CONS
10362	000002069422	0010	0015	F01000006SL3	V2031W001	20020213	090334	1209	57	KG	Y	02/13/2002 9:15:00 AM	PI_CONS
10363	000002069422	0010	0015	R02000024KA1	SILO	20020213	090334	1209	37	KG	Y	02/13/2002 9:15:00 AM	PI_CONS
10364	000002069422	0010	0015	T01000008SL3	SCE701531	20020213	090334	1209	38	KG	Y	02/13/2002 9:15:00 AM	PI_CONS
10365	000002072657	0010	0015	B01000008GLF	H2905768	20020213	090334	1209	530.9	G	Y	02/13/2002 9:15:00 AM	PI_CONS
10366	000002072657	0010	0015	C02000062XLA	950486U1	20020213	090334	1209	2.65	KG	Y	02/13/2002 9:15:00 AM	PI_CONS
10367	000002072657	0010	0015	C13000051GLH	02263	20020213	090334	1209	2.25	KG	Y	02/13/2002 9:15:00 AM	PI_CONS
10368	000002072743	0010	0015	R67000018SL3	3781107	20020213	090334	1209	310	KG	Y	02/13/2002 9:15:00 AM	PI_CONS
10369	000002072743	0010	0015	R67000032SL3	3780112	20020213	090335	1209	70	KG	Y	02/13/2002 9:15:00 AM	PI_CONS
10370	000002074616	0010	0015	B01000096SLV	744642	20020213	090335	1209	82	KG	Y	02/13/2002 9:15:00 AM	PI_CONS
10371	000002074616	0010	0015	F01000006SL3	V2031W001	20020213	090335	1209	75	KG	Y	02/13/2002 9:15:00 AM	PI_CONS
10372	000002072746	0010	0015	C11000112NLM	A3430	20020213	094835	1209	94.1	G	Y	02/13/2002 9:58:00 AM	PI_CONS
10373	000002072746	0010	0015	CC10001762WE	E1801AC	20020213	094835	1209	37.8	G	Y	02/13/2002 9:58:00 AM	PI_CONS
10374	000002072746	0010	0015	F04000016GLF	7253	20020213	094835	1209	76.2	G	Y	02/13/2002 9:58:00 AM	PI_CONS
10375	000002072746	0010	0015	T01000007GLF	381930097	20020213	094836	1209	55.06	KG	Y	02/13/2002 9:58:00 AM	PI_CONS
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10379	000002074411	0010	0015	F04000016GLF	7253	20020213	094836	1209	51.1	G	Y	02/13/2002 9:58:00 AM	PI_CONS
10380	000002074411	0010	0015	T01000007GLF	3819390037	20020213	094836	1209	44.08	KG	Y	02/13/2002 9:58:00 AM	PI_CONS
10381	000002074616	0010	0015	B01000096SLV	744642	20020213	094836	1209	164	KG	Y	02/13/2002 9:58:00 AM	PI_CONS
10382	000002074616	0010	0015	F01000006SL3	V2031W001	20020213	094836	1209	154	KG	Y	02/13/2002 9:58:00 AM	PI_CONS
10383	000002075476	0010	0015	F01000006SL3	V2031W001	20020213	094836	1209	241	KG	Y	02/13/2002 9:58:00 AM	PI_CONS
10384	000002075476	0010	0015	R02000024KA1	SILO	20020213	094836	1209	120	KG	Y	02/13/2002 9:58:00 AM	PI_CONS
10385	000002068509	0010	0015	F01000006SL3	V2031W001	20020213	103336	1209	88	KG	Y	02/13/2002 10:46:00 AM	PI_CONS
10386	000002068509	0010	0015	R02000024KA1	SILO	20020213	103336	1209	166	KG	Y	02/13/2002 10:46:00 AM	PI_CONS
10387	000002072743	0010	0015	R67000018SL3	3781107	20020213	103337	1209	292	KG	Y	02/13/2002 10:46:00 AM	PI_CONS
10388	000002072743	0010	0015	R67000032SL3	3780112	20020213	103337	1209	70	KG	Y	02/13/2002 10:46:00 AM	PI_CONS

* (Number)

Record: 10372 of 10372

Datasheet View



Color SAP Integration Summary



Number of Plants:

1

Number of Lines:

5

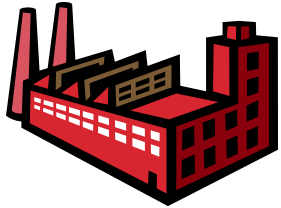
DL Functions:

CRDL,

Parameters

PMU Functions

CONS

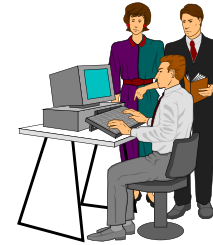


Control Recipes:

avg. 58/week

CONS PMU :

avg. 124/day



Staff:

6

Design/Code:

1 1/2 month

Testing:

1 month

Implementation:

9/1/01





Why Not eAI?

- The information that is interfaced between SAP and a shop floor MES application is not data that would likely be shared simultaneously with any other application.
 - ⇒ One of the strengths of eAI is its ability to interface one piece of data to multiple applications and guarantee its delivery to all target systems.
 - ⇒ A process order would not be interfaced to more than one MES application.
 - ⇒ Consumption & production need to successfully post to SAP before you would want to share the data with any other application.
- eAI is a robust set of tools that allows PolyOne to develop and get a centralized view of all interface activity, but it does not yet have the set of mature tools to monitor and easily recover/requeue messages that come standard as part of a certified interface.
 - ⇒ The volume of transactions associated with a MES application are typically an order of magnitude or two higher than most other data that would need to be interfaced.
 - ⇒ The vendor of the certified interface builds the necessary level of monitoring and recovery capability into their product which PolyOne may not want to invest the time and effort to include in the eAI tool set for the more specialized information such as shop floor data.



- For true point-to-point applications, where it is unlikely that other applications will require the data, certified interfaces are the method of choice.
- Certified Interfaces are “off the shelf” solutions that are extensions of the primary application.
- Two examples of this are OSI’s Rlink product (PPPI certified interface) and LabSystems SMIDI product (QM certified interface).
- Certified Interfaces protect us from having to write extensive code or perform extensive testing for SAP version changes, this is handled by the supplier of the interface .
- These Certified Interfaces are robust in capabilities because the primary application (SAP) will normally require it, as a part of certification.



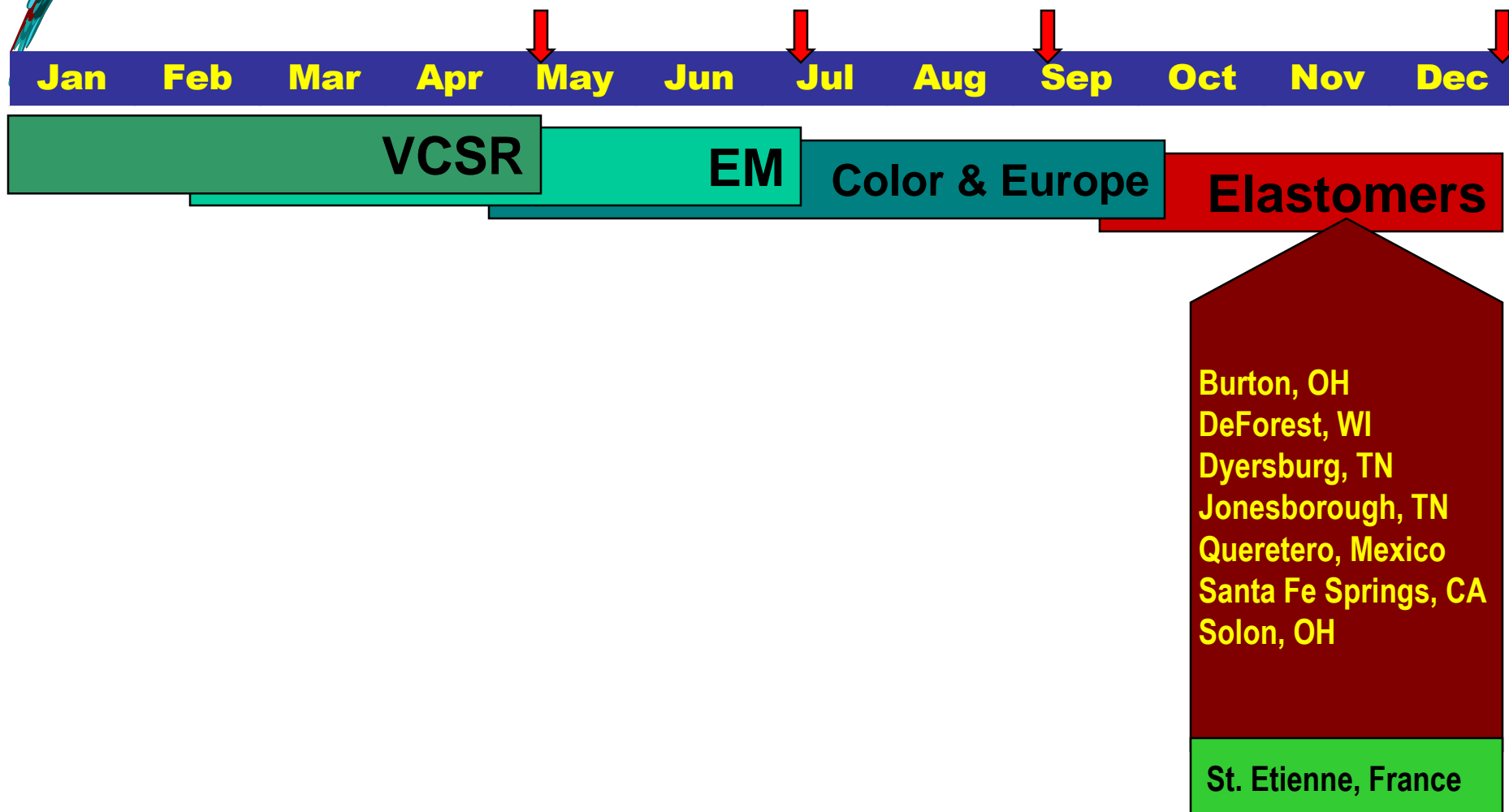
Recommend Rlink as PolyOne Standard Shop Floor Certified Interface

- It should be evident that both eAI and Rlink are similar in nature and can accomplish the same functions.
- Rlink delivers the connectivity to SAP as part of the standard install of the product and supports the connection from end to end; eAI requires development of the integration to create the connection.
- Rlink comes with standard monitoring tools and has mass re-queue capability; eAI does not currently have the tools to easily monitor and re-queue messages.
- Rlink should be the interface method of choice for most standard shop floor data; eAI will be used to fill the gap for any non-standard data objects or file copies.

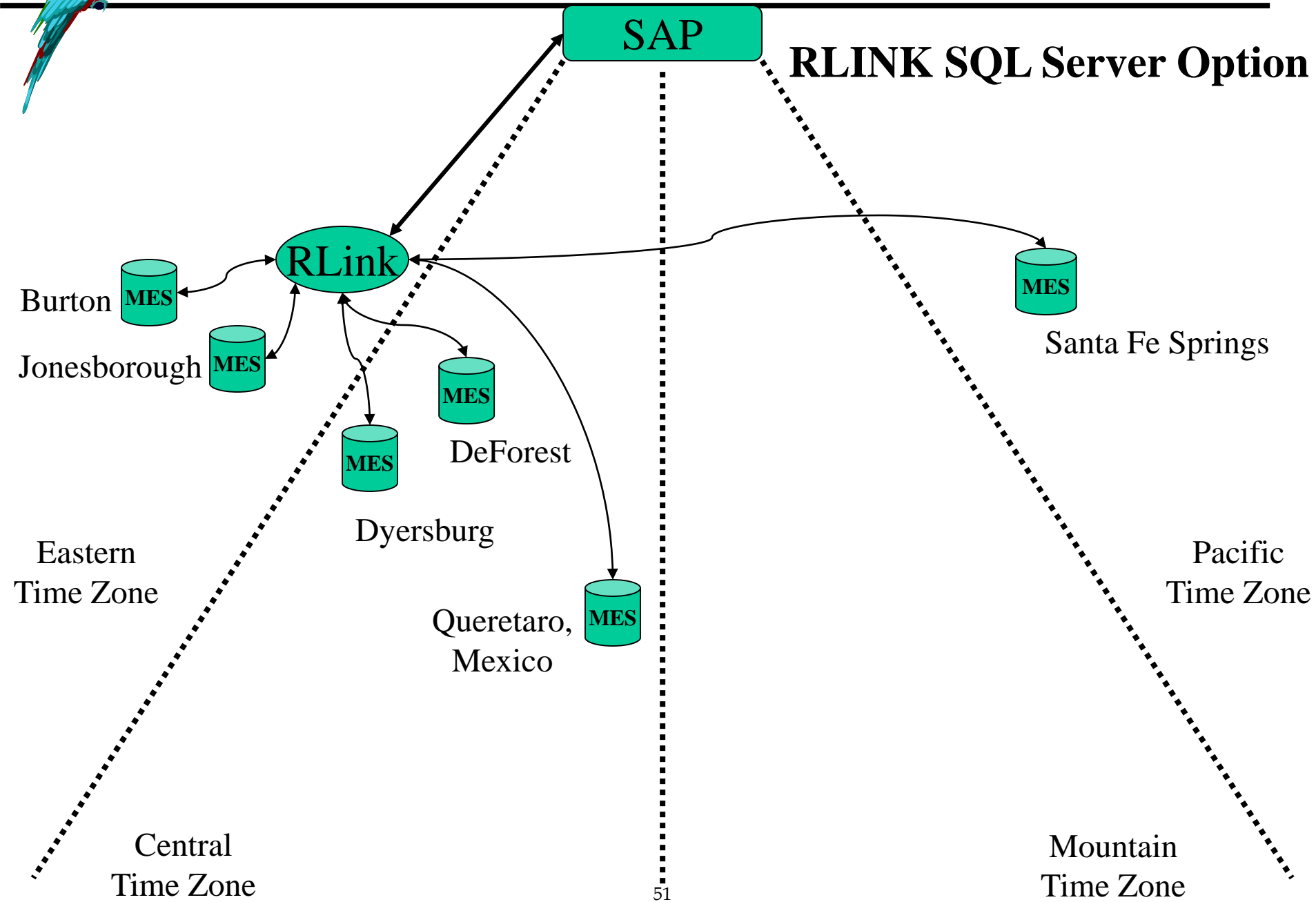


2001 Rollout

PolyOne

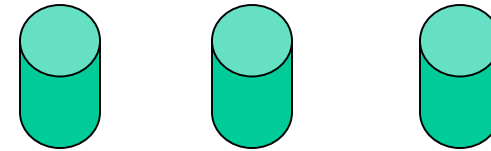
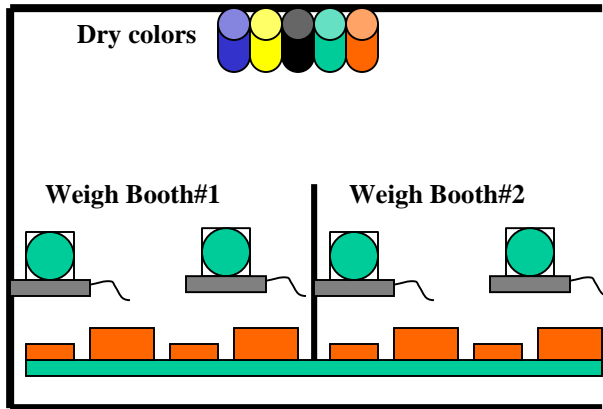




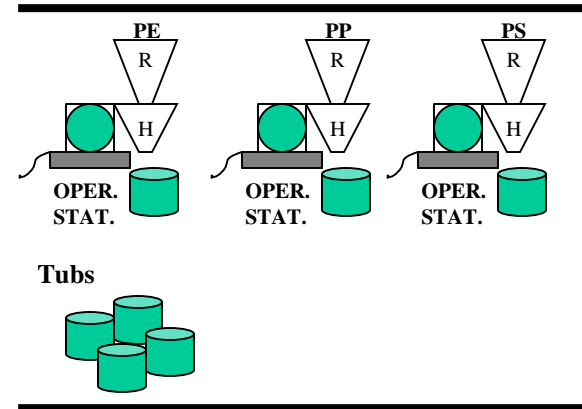




WEIGHMENT AREA



Bulk Storage

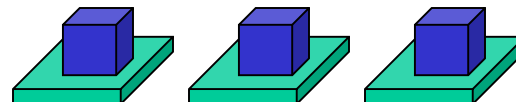


MIXING AREA



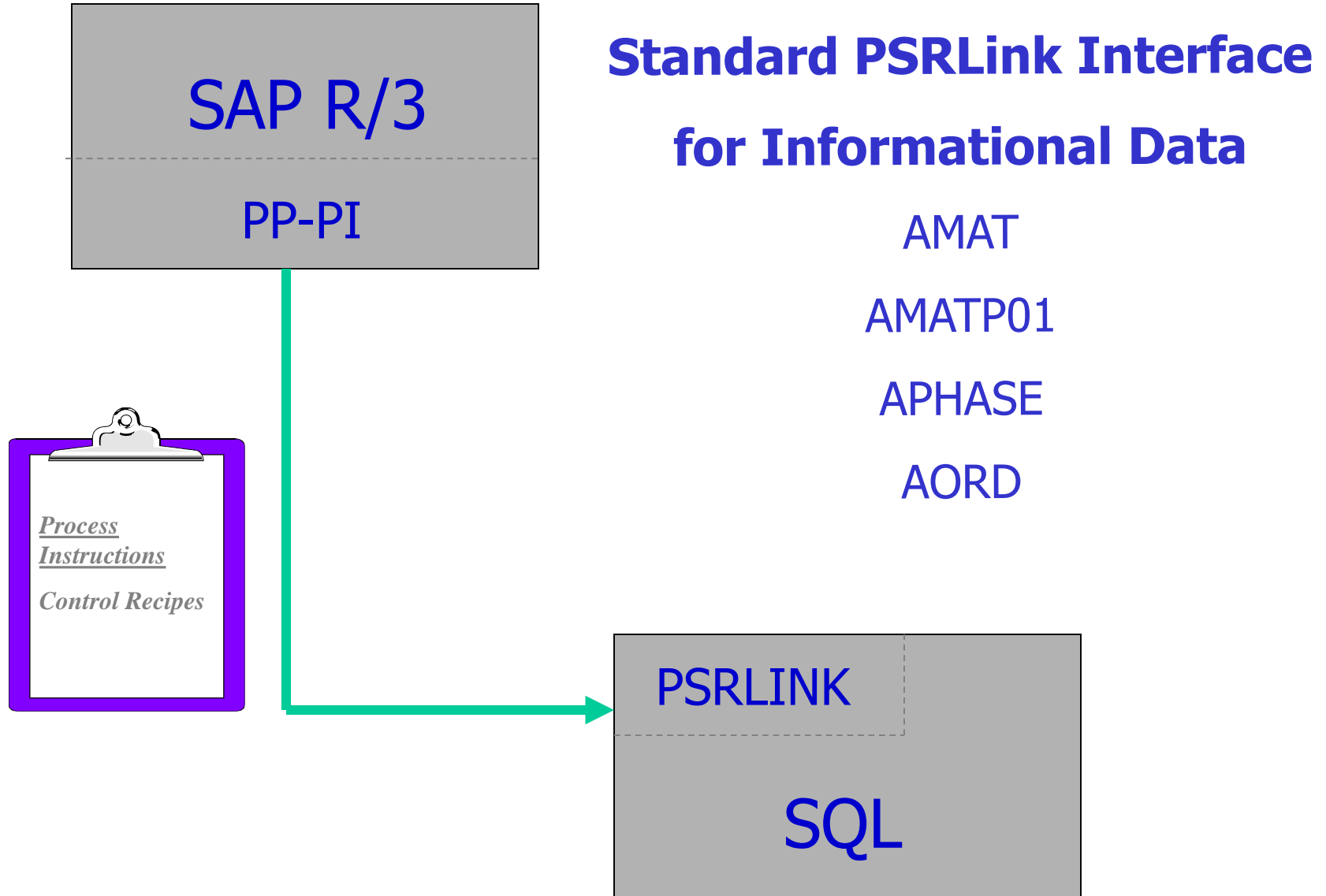
MIXERS

PACKAGING AREA



Each Order has

- One Operation
- One Phase





- **AORD - Order Data**

- including start/finish date/time, PolyOne ProdVers
- Batch_Size, Num_Batches, Polymer_Type
- Cure_Type, Dip_Type, LH_Value, Aging, Shelf_Life

- **APHASE - Phase Data**

- including Phases

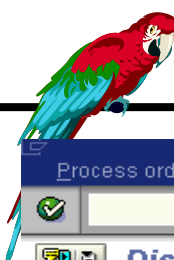
- **AMAT - Material Allocation Info**

- Raw Material consumption

- **AMATP01 - Material Allocation Info**

- Finished Goods production

EPA SAP Order Process Instr Characteristics



Process order | Edit | Goto | System | Help

RESTRICTED

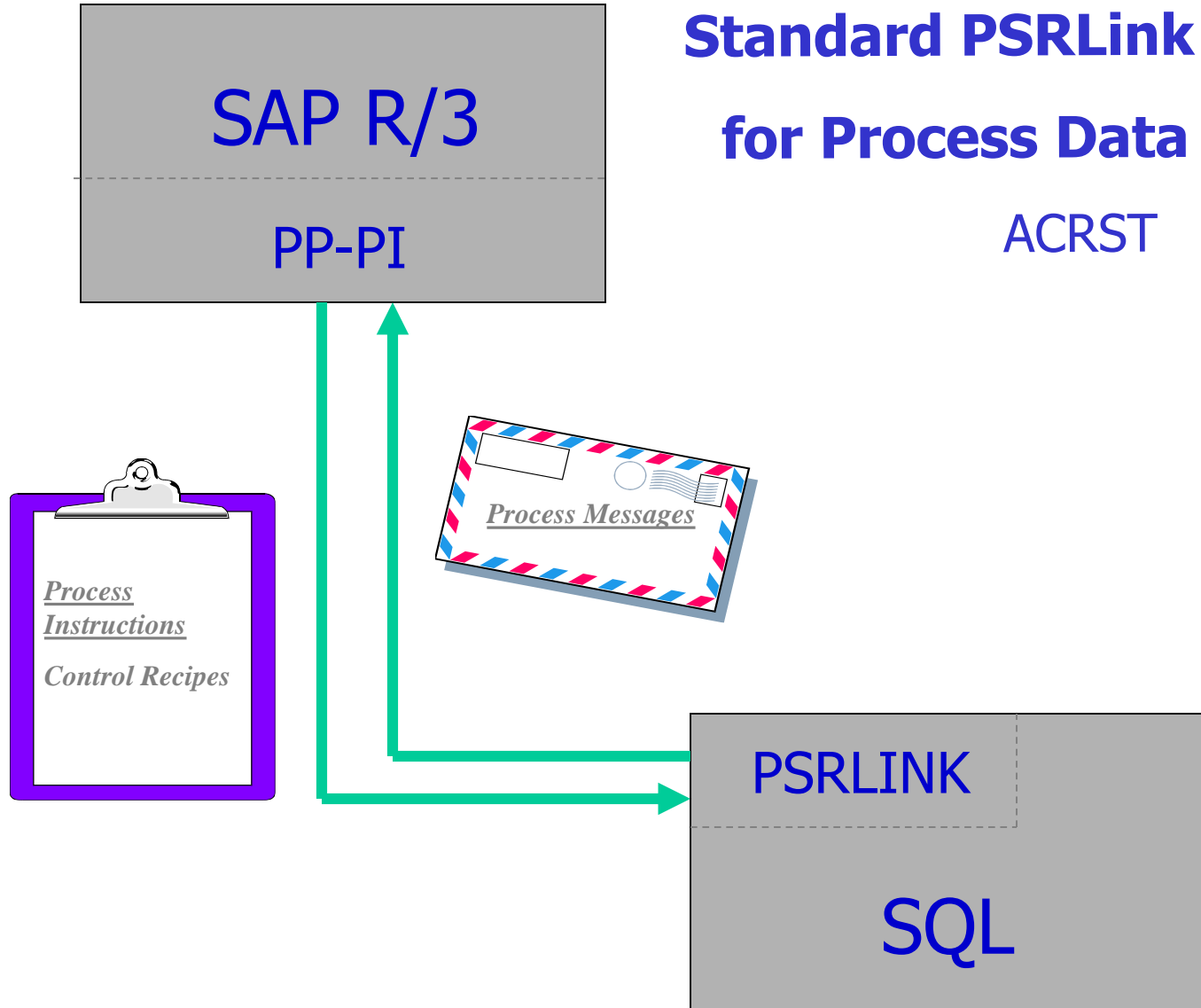
Display Process Order: Process Instruction

Process order: 2077741 Type: ZI01
 Material: EL0000886805 4943-MB Plant: 3003
 SupOperatn: 0010
 Operation: 0015 ☒ Ind.:Phase
 CtrlRec.destin.: PD Spectrum Interface
 Instruction no.: 0000 AORD_1 1 Order data (PCS example)

Numb...	Characteristic name	Long ...	A...	Val.a...	Characteristic value	Change num...
0050	OSI_START_TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	04:14:06	
0060	OSI_FINISH_DATE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	02/15/2002	
0070	OSI_FINISH_TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	04:37:04	
0080	POLYONE_PROD_VERSION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C001	
0095	PPPI_PROCESS_ORDER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2077741	
0100	POLYONE_NUM_BATCHES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2 EACH	
0110	POLYONE_BATCH_SIZE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	242.994 kg	
0120	POLYONE_CUSTOMER_NUMBER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0000025303	
0130	POLYONE_CUSTOMER_NAME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HAWTHORNE RBR. MANUFACTURING	
0140	POLYONE_SALES_ORDER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0015074865	
0155	POLYONE_CURE_TYPE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NC	
0164	POLYONE_DIP_TYPE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZnSt R	
0174	POLYONE_LH_VALUE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	25.000	
0184	POLYONE_SPECIFIC_GRAVITY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1.2300	
0190	POLYONE_ORDER_CYCLE_TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.19 Hours	
0200	POLYONE_SALES_MEMO_TEXT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No Sales Production Memo Found	
0210	POLYONE_SHELF_LIFE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	9,999 Days	
0220	POLYONE_AGING	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	999.000 Hours	
0230	POLYONE_POLYMER_TYPE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	000NBR	

Values Assign InitValue Entry 5 of 24

PRD (1) (010) polr3ap4 OVR





- **ACRST - Control Recipe status**
 - **Start/Processed/Discarded**

EPA RLink Interface data in SQL

Microsoft Access - [dbo_z_rcp_control_recipe_status : Table]

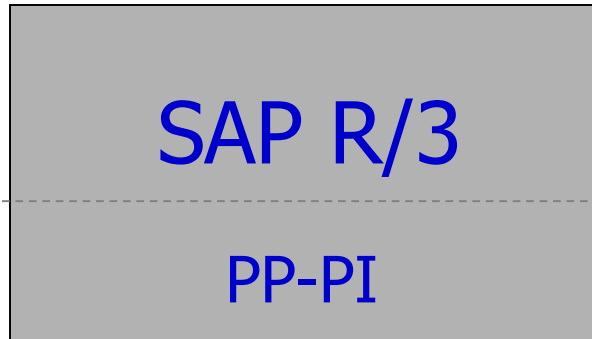
File Edit View Insert Format Records Tools Window Help

msg_id	recipe_id	recipe_status	recipe_timestamp	plant_id	inter	interface_timestamp
11002	000000000000024673	00005	02/13/2002 8:08:52 AM	3009	Y	02/13/2002 9:24:55 AM
11003	000000000000023635	00005	02/13/2002 8:19:40 AM	3005	Y	02/13/2002 9:38:04 AM
11004	000000000000023949	00005	02/13/2002 8:20:40 AM	3005	Y	02/13/2002 9:38:09 AM
11005	000000000000023533	00005	02/13/2002 8:24:21 AM	3005	Y	02/13/2002 9:38:02 AM
11006	000000000000023376	00005	02/13/2002 6:23:21 AM	3002	Y	02/13/2002 9:38:00 AM
11007	000000000000023851	00005	02/13/2002 9:23:07 AM	3006	Y	02/13/2002 9:38:05 AM
11008	000000000000023009	00005	02/13/2002 9:27:47 AM	3003	Y	02/13/2002 9:47:29 AM
11009	000000000000024474	00005	02/13/2002 9:32:26 AM	3003	Y	02/13/2002 9:47:56 AM
11010	000000000000023967	00005	02/13/2002 9:35:55 AM	3003	Y	02/13/2002 9:47:39 AM
11011	000000000000023960	00005	02/13/2002 8:34:17 AM	3005	Y	02/13/2002 9:47:40 AM
11012	000000000000021265	00005	02/13/2002 6:28:21 AM	3002	Y	02/13/2002 9:47:25 AM
11013	000000000000023852	00005	02/13/2002 9:27:35 AM	3006	Y	02/13/2002 9:47:35 AM
11014	000000000000023853	00005	02/13/2002 9:32:06 AM	3006	Y	02/13/2002 9:47:35 AM
11015	000000000000024526	00007	02/13/2002 9:36:09 AM	3003	Y	02/13/2002 9:52:18 AM
11016	000000000000023551	00005	02/13/2002 9:39:25 AM	3003	Y	02/13/2002 10:04:58 AM
11017	000000000000023950	00005	02/13/2002 8:43:11 AM	3005	Y	02/13/2002 10:05:05 AM
11018	000000000000024367	00005	02/13/2002 6:40:52 AM	3002	Y	02/13/2002 9:52:09 AM
11019	000000000000023854	00005	02/13/2002 9:37:07 AM	3006	Y	02/13/2002 10:05:01 AM
11020	000000000000023856	00005	02/13/2002 9:42:06 AM	3006	Y	02/13/2002 10:05:01 AM
11021	000000000000024346	00005	02/13/2002 6:47:22 AM	3002	Y	02/13/2002 10:05:15 AM
11022	000000000000024602	00005	02/13/2002 9:46:07 AM	3006	Y	02/13/2002 10:05:27 AM
11023	000000000000023857	00005	02/13/2002 9:50:10 AM	3006	Y	02/13/2002 10:05:01 AM
11024	000000000000024075	00005	02/13/2002 10:01:26 AM	3003	Y	02/13/2002 10:25:03 AM
11025	000000000000023941	00005	02/13/2002 9:02:48 AM	3005	Y	02/13/2002 10:25:00 AM
11026	000000000000024373	00005	02/13/2002 6:57:52 AM	3002	Y	02/13/2002 10:25:11 AM
11027	000000000000023858	00005	02/13/2002 10:00:07 AM	3006	Y	02/13/2002 10:24:56 AM
11028	000000000000024478	00005	02/13/2002 10:08:56 AM	3003	Y	02/13/2002 10:25:17 AM
11029	000000000000023553	00005	02/13/2002 10:15:35 AM	3003	Y	02/13/2002 10:24:53 AM
11030	000000000000023859	00005	02/13/2002 10:07:07 AM	3006	Y	02/13/2002 10:24:56 AM
11031	000000000000023860	00005	02/13/2002 10:13:38 AM	3006	Y	02/13/2002 10:24:57 AM
11032	000000000000022794	00005	02/13/2002 10:19:05 AM	3003	N	02/13/2002 10:32:02 AM
11033	000000000000023637	00005	02/13/2002 9:24:13 AM	3005	N	02/13/2002 10:32:03 AM
11034	000000000000024339	00005	02/13/2002 7:20:54 AM	3002	N	02/13/2002 10:32:05 AM
11035	000000000000024001	00005	02/13/2002 10:19:09 AM	3006	N	02/13/2002 10:32:08 AM

* (Number)

Record: 4482 of 4482

Datasheet View



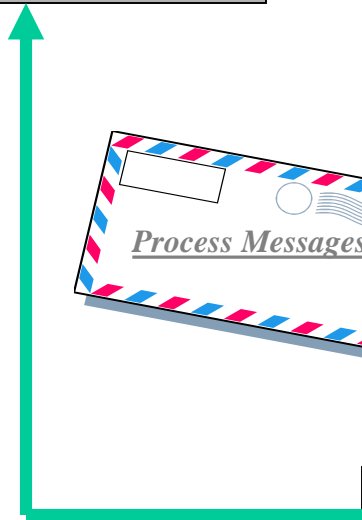
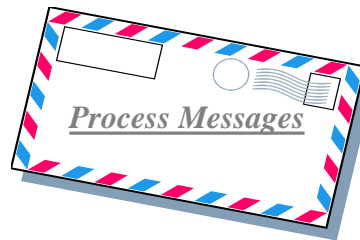
Standard PSRLink Interface for Unsolicited Process Data

ACONS

APROD

MATRANS2

LINEVENT





- **PI_CONS - Unsolicited CONS**
 - Consumption (SAP_TRAN)
- **PI_PROD - Unsolicited PROD**
 - Production (SAP_TRAN) with cont_id
- **MATRANS2 - Rework CONS**
 - Move from Blocked, then CONS
- **LINEVENT - Line Events**
 - Populates custom SAP table

EPA RLink Interface data in SQL

Microsoft Access - [dbo_z_msg_goods_issue : Table]

File Edit View Insert Format Records Tools Window Help

msg_id	process_order	opera	phase	material_id	batch_id	event_date	event_tir	plant_id	quantity	unit	int	interface_timestamp	message
101438	000002075921	0010	0015	E21000055BSP	1100008025	20020213	080600	3005	234.308	KG	Y	02/13/2002 9:28:23 AM	PI_CONS
101398	000002077590	0010	0015	B05000035SL3	1100001975	20020213	080600	3003	834.08	KG	Y	02/13/2002 9:28:26 AM	PI_CONS
101439	000002075955	0010	0015	K03000189PKG	PKG	20020213	081400	3005	2	EA	Y	02/13/2002 9:28:26 AM	PI_CONS
101399	000002077593	0010	0015	A16000054BSP	1100006705	20020213	091900	3003	2.391	KG	Y	02/13/2002 9:28:29 AM	PI_CONS
101440	000002075955	0010	0015	K05000153PKG	PKG	20020213	081400	3005	9	EA	Y	02/13/2002 9:28:29 AM	PI_CONS
101441	000002075989	0010	0015	A42000008BSP	1100007633	20020213	073600	3005	34.146	KG	Y	02/13/2002 9:28:32 AM	PI_CONS
101400	000002077598	0010	0015	P31000034KA2	BULK	20020213	082700	3003	206.45	KG	Y	02/13/2002 9:28:32 AM	PI_CONS
101401	000002077607	0010	0015	P31000054KA2	BULK	20020213	083400	3003	5.239	KG	Y	02/13/2002 9:28:35 AM	PI_CONS
101442	000002075989	0010	0015	S17000002BSP	1000011213	20020213	072000	3005	43.65	KG	Y	02/13/2002 9:28:35 AM	PI_CONS
101443	000002076027	0010	0015	K05000150PKG	PKG	20020213	081900	3005	1	EA	Y	02/13/2002 9:28:38 AM	PI_CONS
101402	000002077723	0010	0015	E32000152BSP	1100003812	20020213	082000	3003	175.108	KG	Y	02/13/2002 9:28:38 AM	PI_CONS
101444	000002076027	0010	0015	K51000153PKG	PKG	20020213	081900	3005	1	EA	Y	02/13/2002 9:28:41 AM	PI_CONS
101403	000002077723	0010	0015	L06000007BSP	1100006058	20020213	075200	3003	3.15	KG	Y	02/13/2002 9:28:41 AM	PI_CONS
101445	000002074209	0010	0015	A22000014BSP	1100008200	20020213	082200	3005	0.224	KG	Y	02/13/2002 9:28:44 AM	PI_CONS
101404	000002077727	0010	0015	AD0000005170	1100006715	20020213	080700	3003	32.871	KG	Y	02/13/2002 9:28:44 AM	PI_CONS
101446	000002074209	0010	0015	E61000094BSP	1100004427	20020213	082300	3005	11.2	KG	Y	02/13/2002 9:28:47 AM	PI_CONS
101405	000002077727	0010	0015	S01000318BSP	1100003330	20020213	080400	3003	4.095	KG	Y	02/13/2002 9:28:47 AM	PI_CONS
101447	000002075432	0010	0015	A16000041BSP	1100007487	20020213	082300	3005	16.459	KG	Y	02/13/2002 9:28:50 AM	PI_CONS
101406	000002077917	0010	0015	A11000051BSP	1100006893	20020213	082100	3003	2.183	KG	Y	02/13/2002 9:28:50 AM	PI_CONS
101448	000002075831	0010	0015	F04000002BSP	1100004991	20020213	082200	3005	8.94	KG	Y	02/13/2002 9:28:53 AM	PI_CONS
101407	000002077917	0010	0015	L99000067BSP	1000015813	20020213	082100	3003	2.719	KG	Y	02/13/2002 9:28:53 AM	PI_CONS
101449	000002075921	0010	0015	E21000044BSP	1100008248	20020213	082300	3005	102.149	KG	Y	02/13/2002 9:28:56 AM	PI_CONS
101408	000002077918	0010	0015	A11000036BSP	1100007196	20020213	090300	3003	3.089	KG	Y	02/13/2002 9:28:56 AM	PI_CONS
101450	000002075986	0010	0015	K31000057PKG	PKG	20020213	082200	3005	3	EA	Y	02/13/2002 9:28:59 AM	PI_CONS
101409	000002077918	0010	0015	A42000083BSP	1000016843	20020213	091000	3003	3.089	KG	Y	02/13/2002 9:28:59 AM	PI_CONS
101451	000002076077	0010	0015	B05000173SL3	BULK	20020213	070300	3005	2421.2	KG	Y	02/13/2002 9:29:02 AM	PI_CONS
101410	000002077919	0010	0015	M09000056BSP	1100001243	20020213	090000	3003	4.908	KG	Y	02/13/2002 9:29:02 AM	PI_CONS
101452	000002076178	0010	0015	B05000075KA1	BULK	20020213	081200	3005	78	KG	Y	02/13/2002 9:29:05 AM	PI_CONS
101453	000002076178	0010	0015	P16000010MLM	1100008202	20020213	081200	3005	78.1	KG	Y	02/13/2002 9:29:08 AM	PI_CONS
101454	000002076179	0010	0015	E61000102BSP	1100006005	20020213	081300	3005	14.298	KG	Y	02/13/2002 9:29:11 AM	PI_CONS
101455	000002076928	0010	0015	A11000051BSP	1100006161	20020213	074300	3005	5.3	KG	Y	02/13/2002 9:29:14 AM	PI_CONS
101456	000002076928	0010	0015	A15000004BSP	1100002144	20020213	074200	3005	10.554	KG	Y	02/13/2002 9:29:17 AM	PI_CONS
101457	000002076928	0010	0015	S01000360BSP	1100008113	20020213	073700	3005	21.395	KG	Y	02/13/2002 9:29:20 AM	PI_CONS
101458	000002076928	0010	0015	S17000004BSP	1100007513	20020213	071400	3005	42.697	KG	Y	02/13/2002 9:29:23 AM	PI_CONS

* (Number)

Record: 39377 of 39377

Datasheet View



Number of Plants:

6

Number of Lines:

30

DL Functions:

CRDL,

Parameters

PMU Functions

CONS, PROD,

BlkCONS,

LineEvents



Staff:

3

Design/Code:

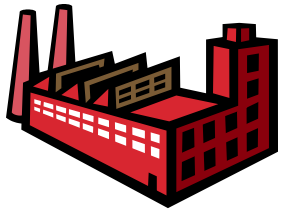
1 month

Testing:

2 months

Implementation:

1/1/02



Control Recipes:

avg. 370/day, max. 450/day (during 12 hour period)

CONS PMU :

avg. 5200/day, max. 311/hour

PROD PMU :

avg. 1350/day, max. 184/hour





PolyOne, who are we
projectOne Background

May 1st, Vinyl Compound

- Scope & Design , Data Views

Sept. 1st, Colorants

- Scope & Design, Data Views

Jan. 1st, Elastomers

- Scope & Design, Data Views

Questions?