IBM Maximo Tivoli Lab Services

IBM Maximo Adapter for Primavera

April 2008

© 2006 IBM Corporation

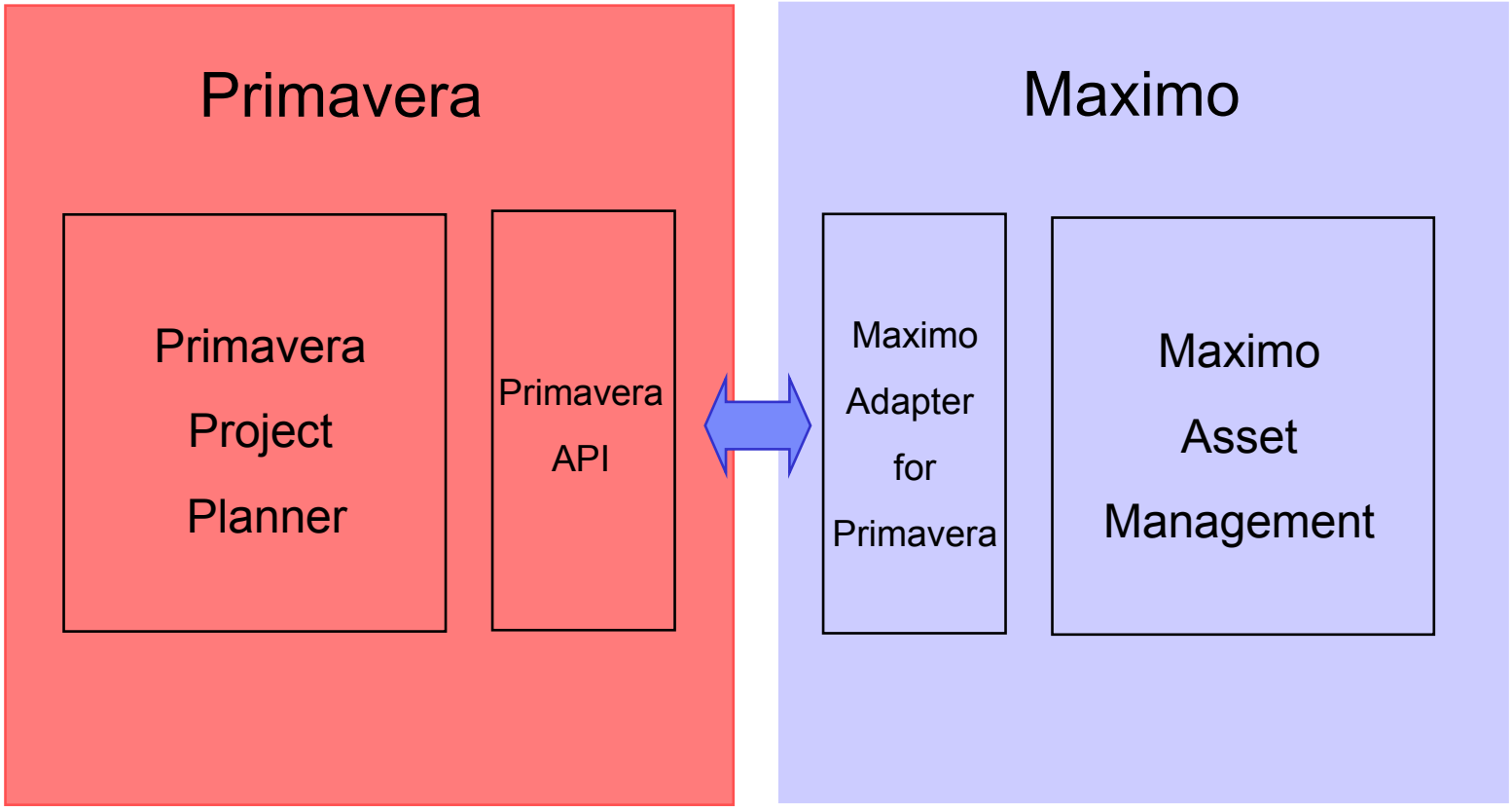
Primavera partnership history

- **Tactical partnership with custom integrations as early as 2000**
- **Formalized integrations supporting**
  - Maximo 4
  - Maximo 5
  - **Maximo 6**
- **Initiatives**
  - Partnership Agreements
  - Joint business plans / collaboration on sales pipeline activity
  - Co-presenters at various tradeshows and industry events
  - Sales channel expansion

PRIMAVERA

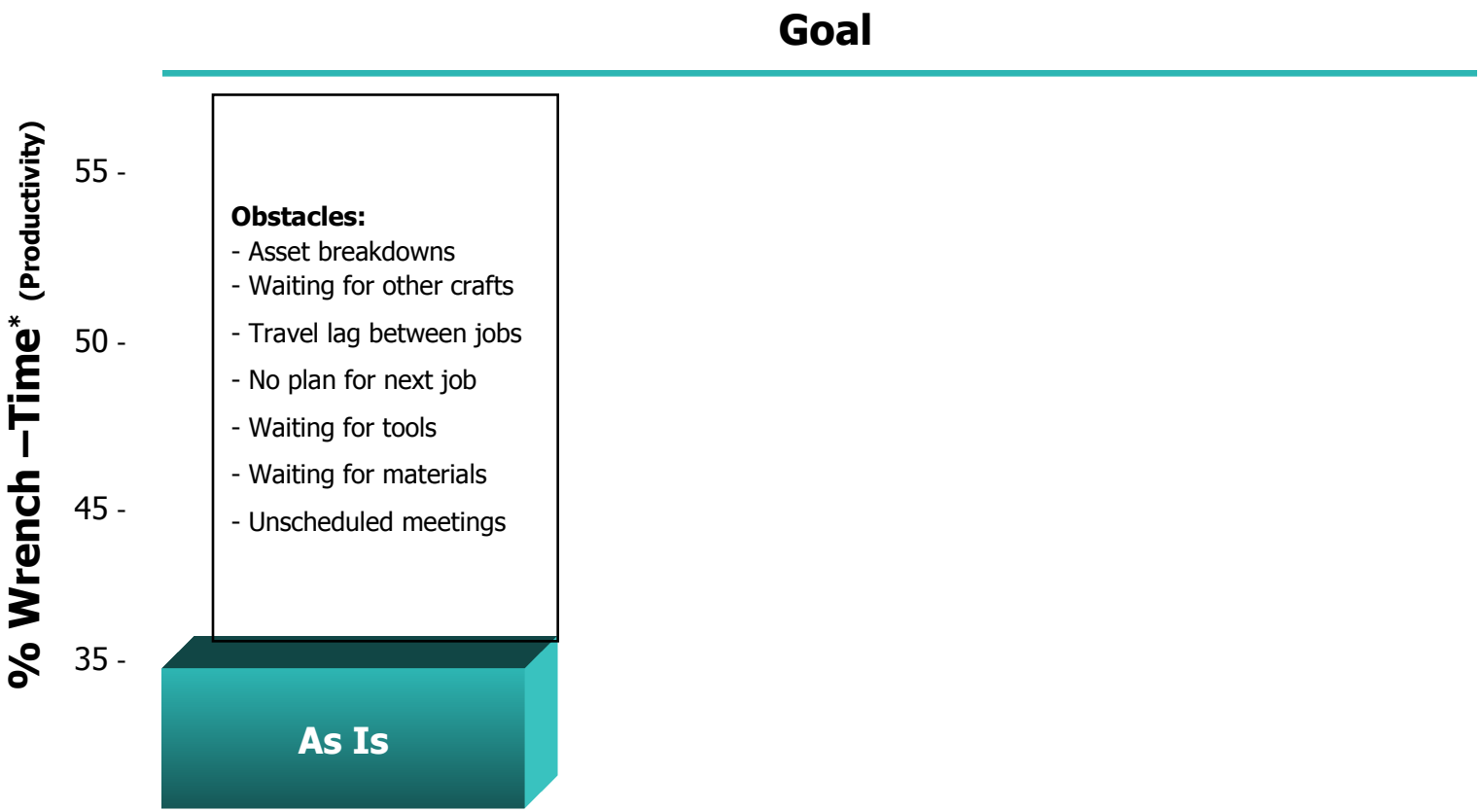
© 2006 IBM Corporation

Maximo Adapter for Primavera



© 2006 IBM Corporation

Typical Planning "As Is" State….

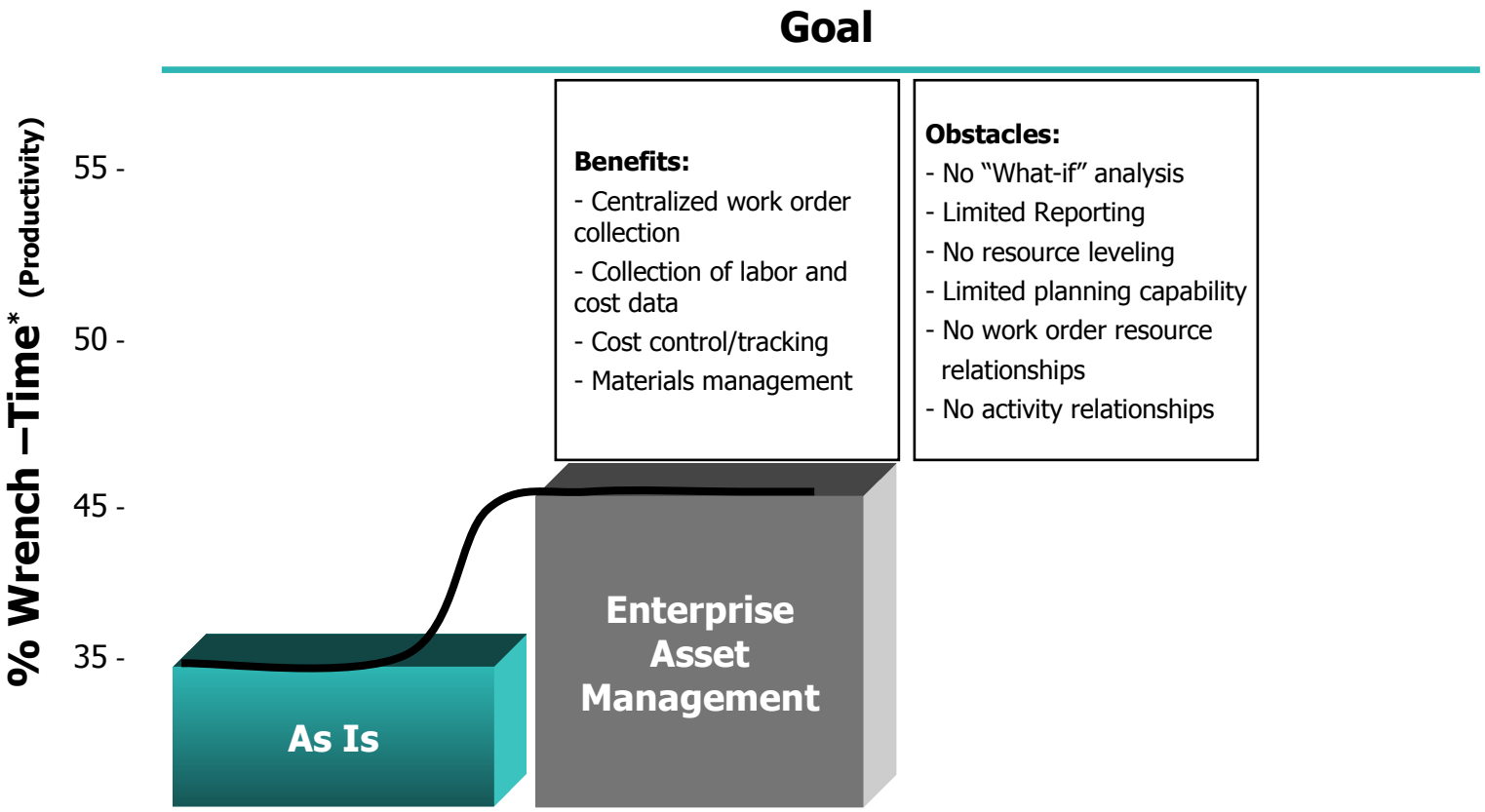


Asset Management & Project Planning Systems

Source: "Maintenance Planning", Doc Palmer

© 2006 IBM Corporation

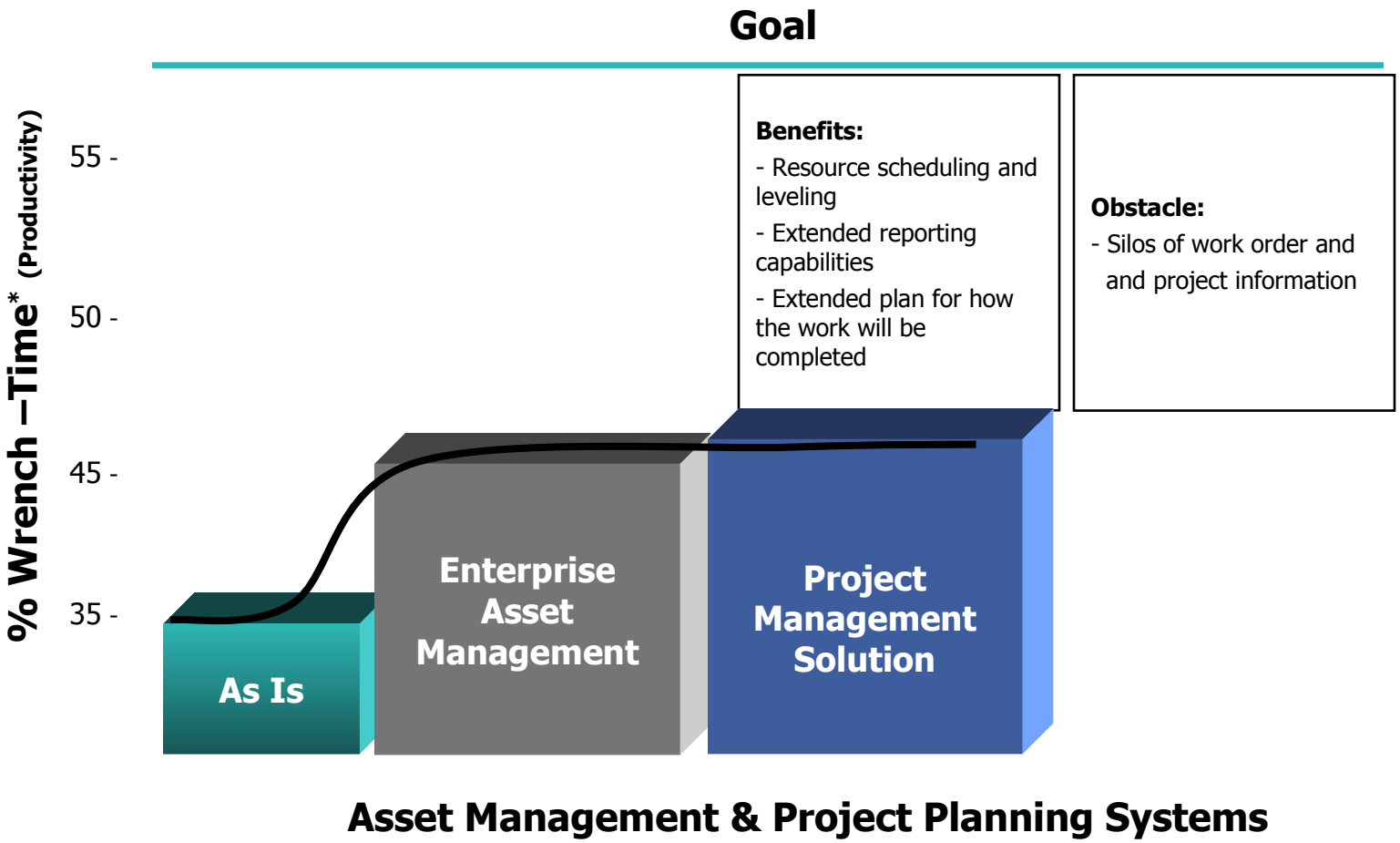
Addition of Enterprise Asset Management System



PRIMAVERA

© 2006 IBM Corporation

Integrated Project Management Solution

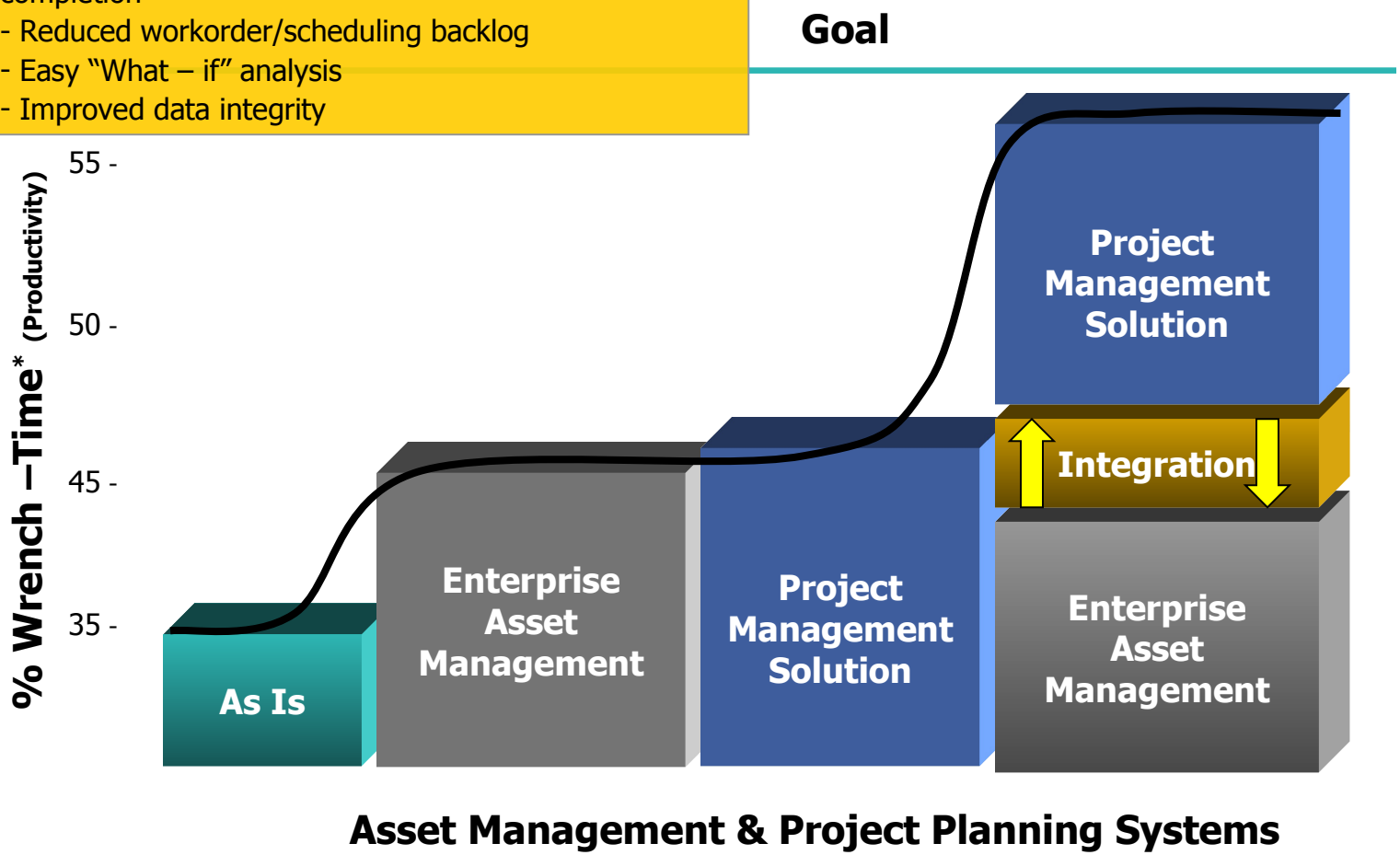


PRIMAVERA

© 2006 IBM Corporation

Integrated Solution

Benefits:
- Increased wrench time
- Ability to forecast cost, schedule and resources to completion
- Reduced workorder/scheduling backlog
- Easy "What – if" analysis
- Improved data integrity



PRIMAVERA

© 2006 IBM Corporation

Extending Value through Project Management Integration

- **Increased wrench time from 35% - 60%**
- **Reduced unplanned man-hours (overtime)**
- **Creation of large-equipment interdependencies**
- **Easy "What – If" analysis**
- **Reduced work order / scheduling backlog**
- **Published 2 week look-ahead**
- **Improved data integrity**
- **Improved employee morale**

PRIMAVERA

© 2006 IBM Corporation

Maximo - Primavera Integration Points

- **Create Work Orders in Maximo**
- **Export Work Orders and Planned Maintenance routines to Primavera**
- **Identify resource requirements in Primavera**
- **Level, schedule and add logic in Primavera based on priority**
- **Load Work Orders back into Maximo**
- **Publish a “two week look ahead” report by role/resource within Primavera**

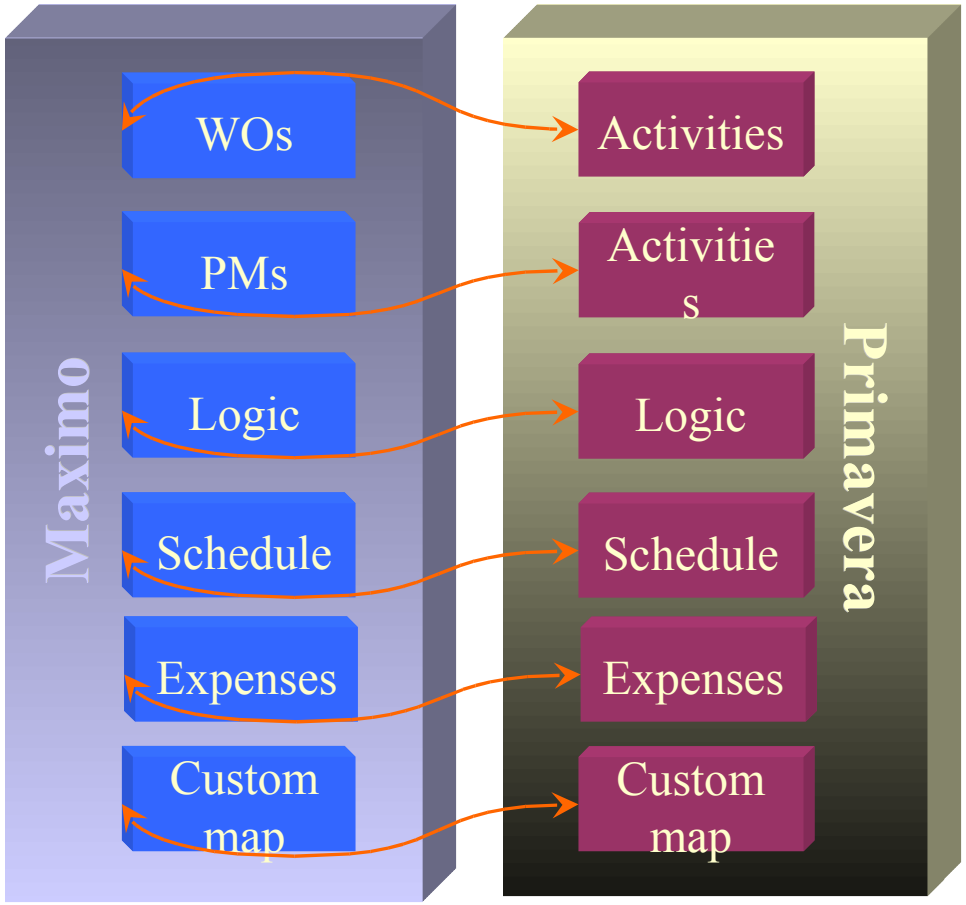
PRIMAVERA

© 2006 IBM Corporation

Two-Way Integration

Maximo

Work Management
Preventive Maintenance
Assets
Resources
Purchasing



Primavera

Resource Levelling
Scheduling
Logic
Projects
Constraints
Reporting
Actuals

PRIMAVERA

© 2006 IBM Corporation

Version availability matrix

- **Currently available**
  - Maximo 6.2.1 and Primavera 5
    - Significant performance enhancements
- **Future Plans**
  - Maximo 6.2.1 and Primavera 6.1
  - Maximo 6.2.2 and Primavera 6.1
- **Note: no plans to retrofit Maximo 5 with Primavera 6.1**

© 2006 IBM Corporation

For more information

- **IBM**
  - Your Business Solutions Mgr (BSM) or Business Dev Mgr (BDM)
  - Katie Doyle kdoyle1@us.ibm.com
- **Primavera**
  - Dean Edmundson DEdmundson@primavera.com

© 2006 IBM Corporation

DEMO

© 2006 IBM Corporation

More information …

- **IBM Maximo Adapter for Primavera data sheet**
- **Who to call for more information**
  - Existing customers
    - Contact your Business Solutions Manager (BSM)
    - Not sure who your BSM is? Email kdoyle1@us.ibm.com for contact information.
  - Prospects – MROI Sales Representative

PRIMAVERA

© 2006 IBM Corporation

Maximo Export to Primavera

Work Order Tracking

Go To | Reports | Start Center | Profile | Sign Out | Help

Find: | Select Action | Reports

List | Work Order | Plans | Logic | Related Records | Actuals | Safety Plan | Log | Failure Reporting | Primavera

Export | Projects

Primavera

List of projects to be Exported

Filter | 1 - 14 of 14 | Download

OBS Name	EPS Name	Created	Updated
Hydra Corporation	PM Forecast	4/24/07 1:09 PM	4/24/07 2:20 PM
Hydra Corporation	Backlog work	4/24/07 1:09 PM	6/1/07 10:50 AM
Hydra Corporation	**Facilities**	**4/24/07 1:09 PM**	**4/24/07 1:09 PM**
Hydra Corporation	Assembly Lines	4/24/07 1:09 PM	4/24/07 1:09 PM
Hydra Corporation	Col Motors Projects	4/24/07 1:09 PM	4/24/07 1:09 PM
Hydra Corporation	Projects for John Elk Tractors	4/24/07 1:09 PM	4/24/07 1:09 PM
Hydra Corporation	Manufacturing to Specifications	4/24/07 1:09 PM	4/24/07 1:09 PM
Hydra Corporation	Custom Manufacturing	4/24/07 1:09 PM	4/24/07 1:09 PM
Hydra Corporation	Bohimia Nuclear Power Station	4/24/07 1:09 PM	4/24/07 1:09 PM
Hydra Corporation	Manufacturing Division	4/24/07 1:09 PM	4/24/07 1:09 PM
Hydra Corporation	Electronics	4/24/07 1:09 PM	4/24/07 1:09 PM
Hydra Corporation	Power Generation Division	4/24/07 1:09 PM	5/31/07 11:13 AM
Hydra Corporation	Hydraulics Division	4/24/07 1:09 PM	4/24/07 1:09 PM
Hydra Corporation	Capital Improvement Projects	4/24/07 1:09 PM	4/24/07 1:09 PM

Primavera EPS Detail

EPS Name Facilities
Project Name
Description
Created by WILSON
Use Workorder to Name Project? ☑
Plan Start Date 6/4/01 12:00 AM

Export | Group Export | Refresh EPS

Selected records are sent from Maximo to Primavera via pushbutton

© 2006 IBM Corporation

Maximo Scheduling with Primavera

Primavera : 9 1147 (Maintenance work package)

File Edit View Project Enterprise Tools Admin Help

Activities

Back Forward Home Dir. Help

Projects
Resources
Reports
Tracking
WBS
Activities
Assignments
WPs & Docs
Expenses
Thresholds
Issues
Risks

Layout: Classic WBS Layout | Filter: All Activities

Activity ID	Activity Name	Original Duration
9 1147	Maintenance work package	59.4d
9 1147.1147	Maintenance work package	59.4d
9 1147.1147.2000	Window Broken in Shipping Dept.	0.0d
9 1147.1147.2004	Feeder Jammed	0.0d
9 1147.1147.5009	Ventilator Noisy	0.0d
9 1147.1147.5008	Fire Door Cable problem	0.0d
9 1147.1147.5003	Scale Calibration on Dock Mis-readi...	0.0d
9 1147.1147.1149	Sub-project for boiler work	59.4d
T1042	Procurement	1.0d
S-1149	Sub-project for boiler work	0.0d
P51042	P5 WO	2.0d
F-1149	Sub-project for boiler work	0.0d
A1020	New Activity from P5 to Max-0601	1.0d
A1010	Test WO from P5.csb	1.0d
A1000	P5 -> MX6 work order	2.0d
9 1147.1147.1149.5005	Check-out Leaking	0.0d
9 1147.1147.1149.1034	Bottom Sealing System Inspecti...	0.8d
9 1147.1147.1149.1003	Check for Plumbing Problem	0.0d
9 1147.1147.1149.1146	Boiler Work	5.4d
9 1147.1147.1149.1146.5007	Air Filter - Clogged	0.0d
S-5007	Air Filter - Clogged	0.0d
F-5007	Air Filter - Clogged	0.0d
9 1147.1147.1149.1146.2007	Air Filter - Check	0.0d
S-2007	Air Filter - Check	0.0d
F-2007	Air Filter - Check	0.0d
9 1147.1147.1149.1146.2008	Fire Door discrepancy	0.0d
S-2008	Fire Door discrepancy	0.0d
F-2008	Fire Door discrepancy	0.0d
9 1147.1147.1149.1146.2009	Ventilator Noise - Check...	0.0d
S-2009	Ventilator Noise - Check-out	0.0d
F-2009	Ventilator Noise - Check-out	0.0d
9 1147.1147.1149.1146.1002	Rebuild Feedwater Pump	0.0d

May 2007 | June 2007 | July 2007

Add
Delete
Cut
Copy
Paste
Resources
Rsrc by Role
Roles
Activity Codes
Predecessors
Successors
Steps

Portfolio: All Projects | User: wilson | Data Date: 21-Apr-07 12:00 AM | Access Mode: Shared | Baseline: Current Project

Maximo Import from Primavera

Work Order Tracking

Go To | Reports | Start Center | Profile | Sign Out | Help

Find: | Select Action | Reports

List | Work Order | Plans | Logic | Related Records | Actuals | Safety Plan | Log | Failure Reporting | Primavera

Export | Projects

Primavera

Filter | 1 - 15 of 33 | Download

Workorder	Workorder Description	Primavera Short Name	Created	Updated
1147	Turnaround work package	4 1147	4/16/07 12:01 PM	4/16/07 12:01 PM
6003	Scale Calibration on Dock Mis-reading	1 6003	4/24/07 2:26 PM	4/24/07 2:27 PM
1146	Boiler Work	1 1146	4/24/07 2:26 PM	4/24/07 2:27 PM
1147	**Maintenance work package**	**9 1147**	**4/21/07 12:09 PM**	**4/21/07 12:10 PM**
1034	Bottom Sealing System Inspection and Certifi...	1 1034	4/24/07 2:26 PM	4/24/07 2:26 PM
1018	Paint Guard Rail Around #1 Fan	1 1018	4/24/07 2:26 PM	4/24/07 2:26 PM
1007	Packaging Mach. Elevator & Drainpan Inspec...	1 1007	4/24/07 2:26 PM	4/24/07 2:26 PM
1211	long duration job > 30 hours	6 Long	4/24/07 2:58 PM	4/24/07 2:58 PM
1211	long duration job > 30 hours	7 Long	4/24/07 3:03 PM	4/24/07 3:03 PM
0	Maintenance of WINS and DHCP Server	2 0	6/1/07 9:30 AM	6/1/07 9:30 AM
0	Maintenance of WINS and DHCP Server	21 0	6/1/07 9:37 AM	6/1/07 9:37 AM
0	Inspect Packaging Machine	1 0	6/1/07 9:29 AM	6/1/07 9:30 AM
0	Inspect Packaging Machine	20 0	6/1/07 9:37 AM	6/1/07 9:37 AM
0	Condensate Return Pump Quarterly Service	19 0	6/1/07 9:37 AM	6/1/07 9:37 AM
0	Generator Overhaul	18 0	6/1/07 9:37 AM	6/1/07 9:37 AM

Exported Project Detail

Created 4/21/07 12:09 PM

Created by WILSON

Plan Start Date

Append Current Resultset? ☑

Update Activities | Overwrite Project | Import | Delete Project

After setting dates, work orders are brought into Maximo from Primavera via pushbutton

© 2006 IBM Corporation

Maximo interface to Primavera writes both ways

MAXIMO - Work Order Tracking - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://localhost/maximo/ui/maximo.jsp?event=loadapp&value=wotrack

Work Order Tracking

Go To | Reports | Start Center | Profile | Sign Out | Help

Find: | Select Action | Reports

List | Work Order | Plans | Logic | Related Records | Actuals | Safety Plan | Log | Failure Reporting | Primavera

Work Order 1149 | Sub-project for boiler work | Site BEDFORD | Status WMATL

Parent WO 1147

Children of Work Order 1149 | Filter | 1 - 4 of 4 | Download

Tasks for Work Order 1149 | Filter | 1 - 5 of 5 | Download

Sequence	Task	Summary	Estimated Duration	Status
	10	Procurement	2:00	APPR
	20	P51042 - P5 WO	0:00	WAPPR
	40	A1000 - P5 -> MX6 work order	0:00	WAPPR
	70	A1010 - Test WO from P5.csb	0:00	WAPPR
	110	A1020 - New Activity from P5 to Max-0601	0:00	WAPPR

New Row

Labor | Materials | Services | Tools

Labor | Filter | 0 - 0 of 0 | Download

Task	Craft	Skill Level	Vendor	Quantity	Labor	Regular Hours	Rate	Line Cost

...No rows to display...

Select Craft | New Row

© 2006 IBM Corporation