



# AutoPLANT Product Update DK User Meeting – 15<sup>th</sup> November 2011

Chris Binns – AutoPLANT Product Manager



**AutoPLANT**

THE MOST WIDELY USED PLANT DESIGN SOFTWARE IN THE WORLD



# Agenda

- Introduction to me...
- Where we are today...
  - AutoPLANT V8*i* (SELECTseries 3)
- Where we are going...
  - AutoPLANT V8*i* (SELECTseries 3) “Refresh”
- Where we are going after that...
  - AutoPLANT V8*i* (SELECTseries 4)
  - Jacketed Piping Module Demonstration
- Where we are going in 2012...
- After 2012...

# Introduction to me

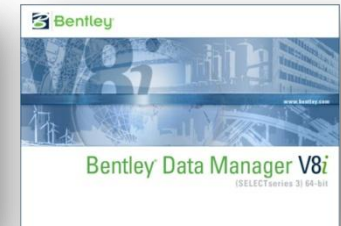
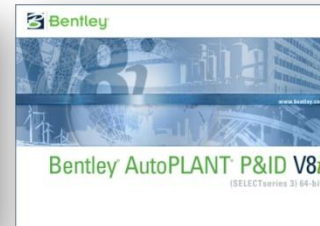
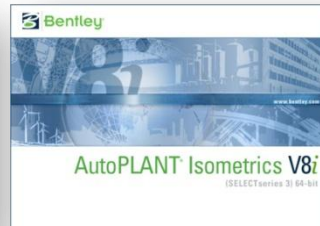
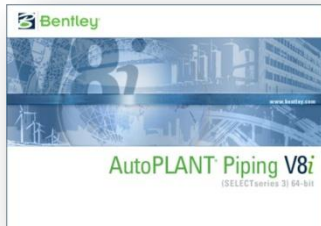
- 1985 – Began working life with Costain Petrocarbon
- 1997 – EDC Photonic, Rebis reseller
- 2000 – Rebis UK
- 2003 – Bentley Acquired Rebis
- 2006 – Appointment Product Manager for P&IW apps
- 2010 – Appointed Product Manager for all AutoPLANT apps
- 14 AutoPLANT experience

# Where we are today...

AutoPLANT V8*i* (SELECTseries 3)

# AutoPLANT V8i (SELECTseries 3)

- Released May 2011
  - AutoCAD 64-bit and Windows 7 64-bit compatibility
  - MS Office 2010 support
  - Ribbon Menus and Tool Palettes for P&ID and PDW
  - i-model creation from within PDW
  - Interoperability via iRING for Data Manager and I&W
  - Certification with latest Bentley Collaboration Products
    - ProjectWise, Navigator, i-model Composer, Bentley View, Pro-Steel etc.
  - Latest SQL Server and ORACLE version support



# AutoPLANT V8*i* (SELECTseries 3)

- AutoCAD Support
  - AutoCAD 2009 (32-bit) only
  - AutoCAD 2010 (32-bit & 64-bit)
  - AutoCAD 2011 (32-bit & 64-bit)



# AutoPLANT V8*i* (SELECTseries 3)

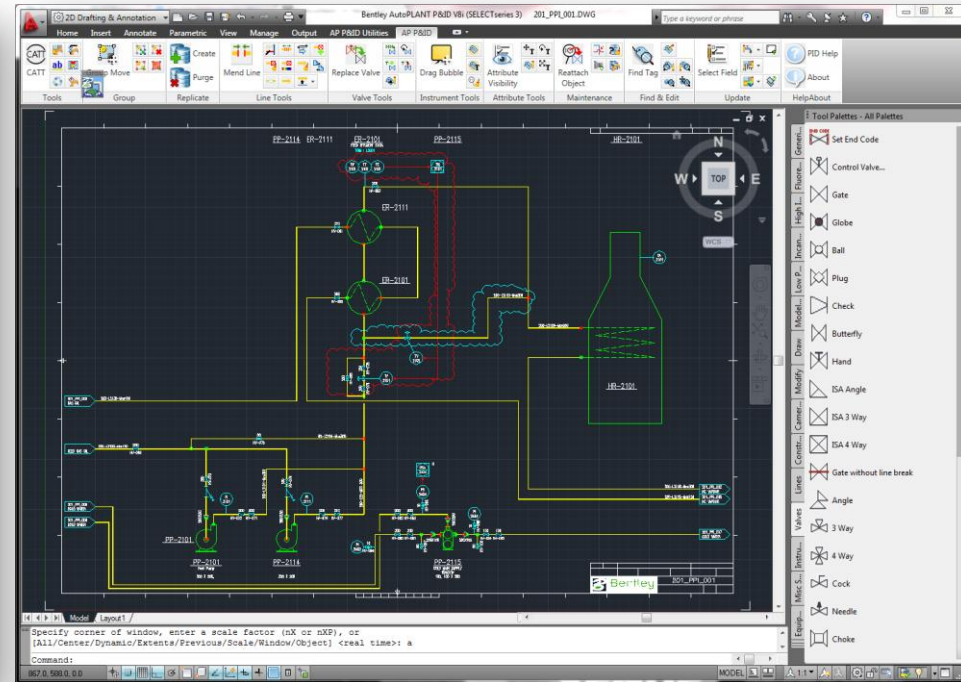
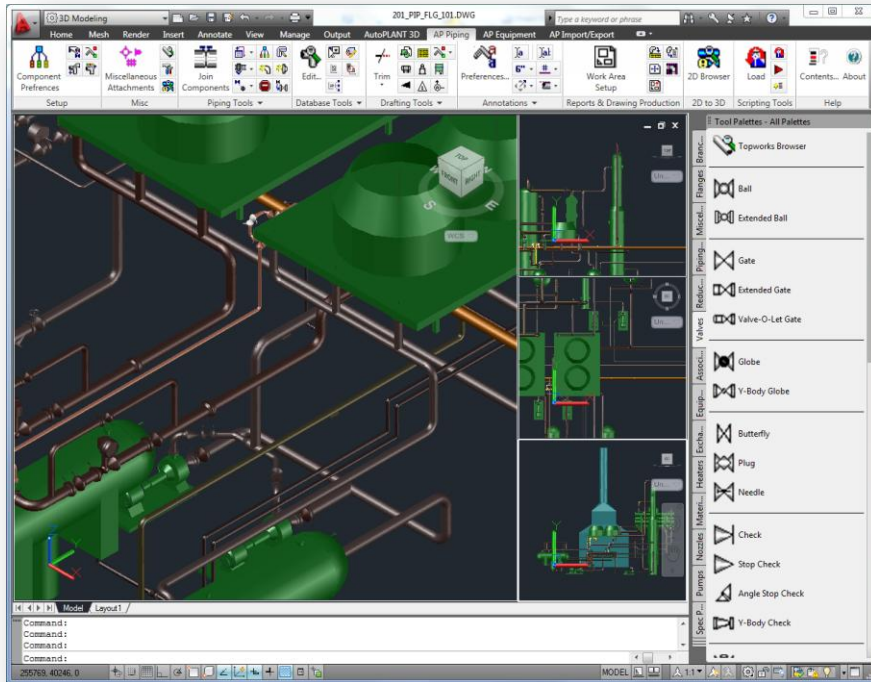


- Microsoft Office 2010 Support
  - AP SS3 supports 32-bit and 64-bit versions of MS Office 2010
  - **Currently** MS Office 2010 (32-bit) only on a 32-bit O/S
  - Conflict between Office 2010 (32-bit) and 64-bit Access Data Engine required by AutoPLANT SS3 (64-bit)
  - Solution is to deploy MS Office 2010 (64-bit)
  - However, Microsoft don't recommend installing MS Office 2010 (64-bit) if you don't have to!!  

  - Solution for MS Office 2010 (32-bit) on a 64-bit O/S underway

# AutoPLANT V8i (SELECTseries 3)

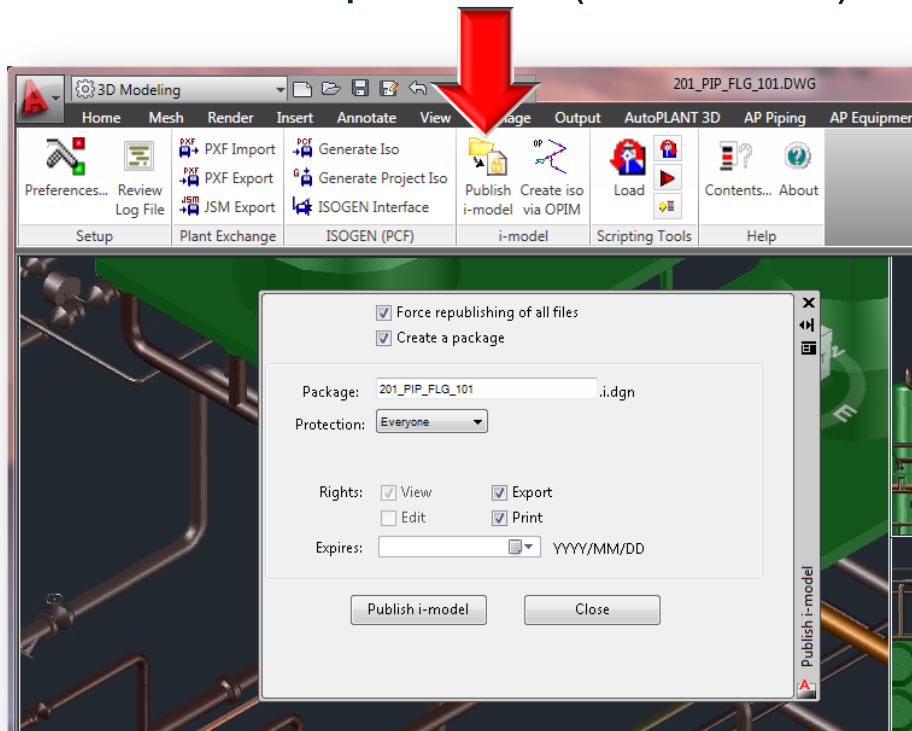
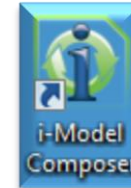
- Ribbon Menus and Tool Palettes for P&ID and PDW





# AutoPLANT V8i (SELECTseries 3)

- AutoPLANT i-model Composer released
- i-model creation directly from within PDW
  - Based on OpenPlant (ISO 15926) schema

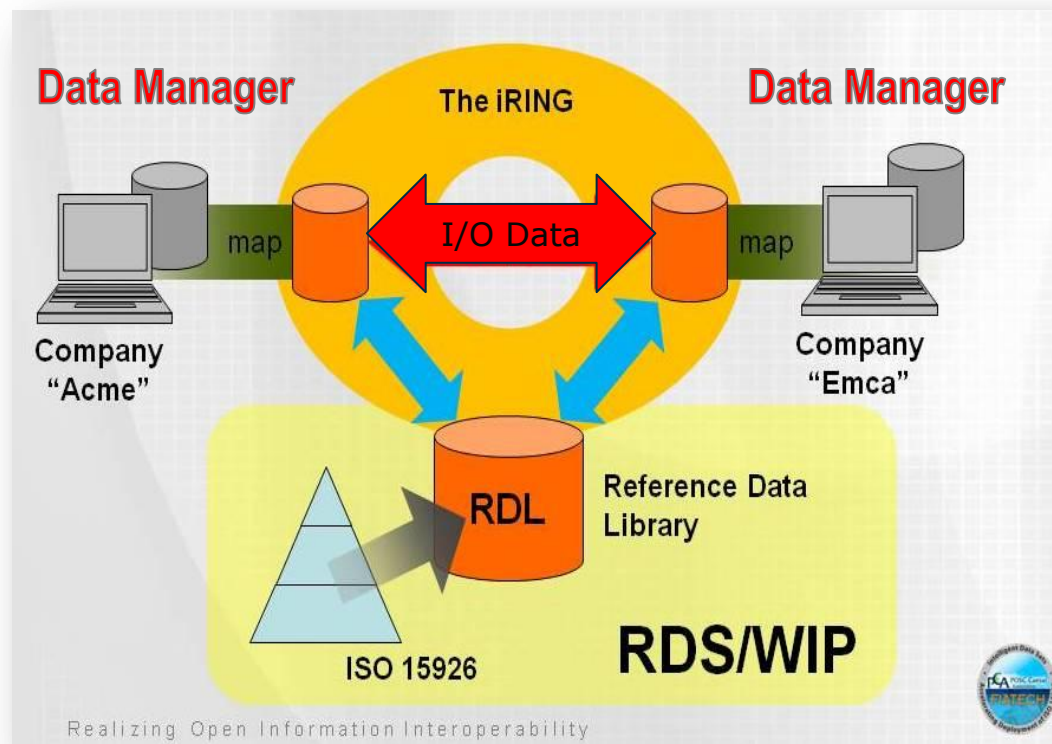


ISO 15926



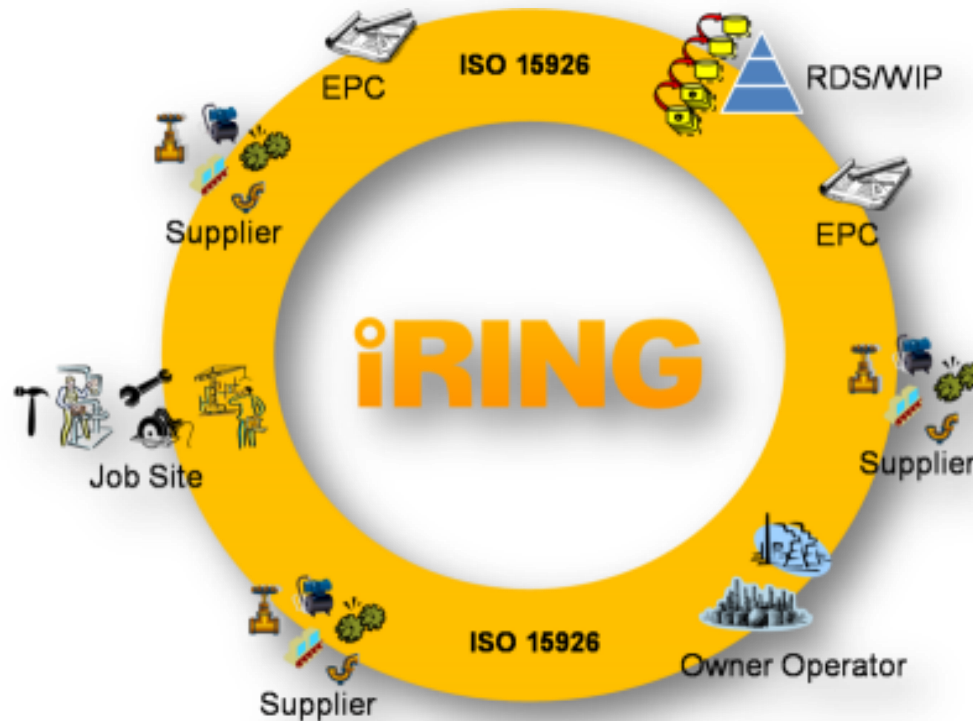
# AutoPLANT V8i (SELECTseries 3)

- Interoperability via iRING for Data Manager and I&W
  - “1D” list type data
  - Line Lists, Valve Lists, Instrument Lists, I/O Lists etc.



# “So what is the iRING?”

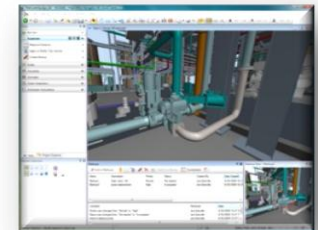
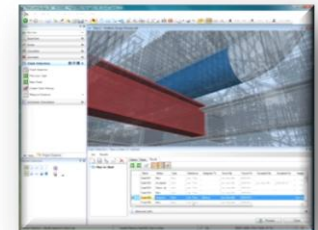
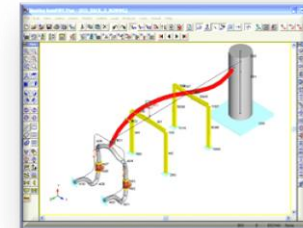
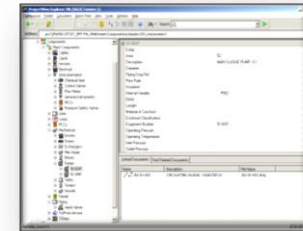
- ISO 15926 **R**ealtime **I**nteroperability **N**etwork **G**rid



# AutoPLANT V8*i* (SELECTseries 3)

- Certification with latest Bentley Collaboration Products

- ProjectWise V8*i*
  - (SELECTseries 2) & (SELECTseries 3)
- i-model Composer V8*i*
  - (SELECTseries 2) & (SELECTseries 3)
- Navigator V8*i*
  - (SELECTseries 2) & (SELECTseries 3)
- View V8*i*
  - (SELECTseries 2) support
- ProStructures (ProSteel) V8*i*
  - (SELECTseries 3)
- AutoPIPE V8*i*
  - (SELECTseries 1) & (SELECTseries 2)



# AutoPLANT V8*i* (SELECTseries 3)

- SQL Server 2008 R2 support



- ORACLE 11g Release 2 support



# Where we are going...

AutoPLANT V8*i* (SELECTseries 3) “Refresh”

# AutoPLANT V8*i* (SELECTseries 3) “Refresh”

- End of November 2011 release
- Roll-up of all priority account issues addressed
  - Mainly Drawing Flattener and ISOGEN
  - Plus other significant issues relating to ProjectWise & P&ID
  - Full list in ReadMe
- P&ID (64-bit) performance improvements
- ISOGEN v10.3.0.50 support
- Improvements to AutoPLANT i-model Composer
  - Choice of Schema for model review or interoperability

# AutoPLANT V8i (SELECTseries 3) Refresh



- Improvements to AutoPLANT i-model Composer

## (SELECTseries 3) “Refresh”

### (SELECTseries 3)

Force republishing of all files  
 Create a package

Package: 201\_PIP\_FLG\_101.i.dgn  
Protection: Everyone

Rights:  View  Export  
 Edit  Print

Expires: YYYY/MM/DD

Publish i-model Close

For Review, Markup, Visualization, Clash Detection  
 For Interoperability

Data from model  
 Data from project database

Create fasteners

Force republishing of all files  
 Create a package

Package: example1.i.dgn  
Protection: Certificate  
Certificate: Root Agency

Rights:  View  Export  
 Edit  Print

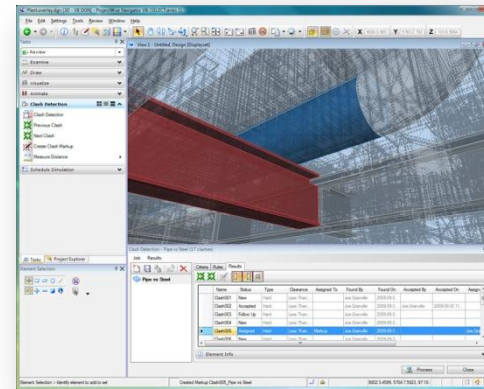
Expires: YYYY/MM/DD

Publish i-model Close Help



# AutoPLANT V8i (SELECTseries 3) Refresh

- AutoPLANT i-model Composer schema selection
- AutoPLANT Schema for:
  - Design Review & Visualisation
  - Clash Detection
  - Electronic Mark-up
  - Using Bentley Navigator
- OpenPlant (ISO 15926) Schema for:
  - Interoperability via iRING
  - Interoperability with OpenPlant



# Where we are going after that...

AutoPLANT V8*i* (SELECTseries 4)

# AutoPLANT V8*i* (SELECTseries 4)

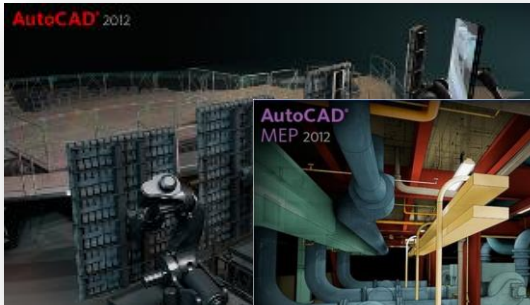
- End December 2011 release
  - AutoCAD 2012 support
  - MEP/Architecture/Mechanical
  - New 64-bit .NET controls
  - 64-bit performance improvements
  - Improved Object Enablers
  - EquipmentWise integration
  - Installer improvements
  - Jacketed Pipe Module
  - Latest Collaboration Product Support

*Ho, ho, ho*



# AutoPLANT V8i (SELECTseries 4)

- AutoCAD 2012 – only supported version
  - To reduce QA burden and enable leverage of latest AutoCAD technology i.e. not having to cater for lowest version
  - (SELECTseries) releases will have single version support from (SELECTseries 4) onwards
  - (SELECTseries 4) will be certified on MEP, Architecture and Mechanical



# AutoPLANT V8*i* (SELECTseries 4)

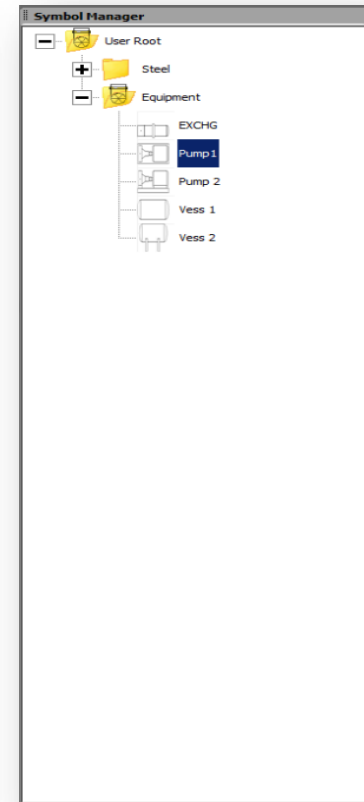
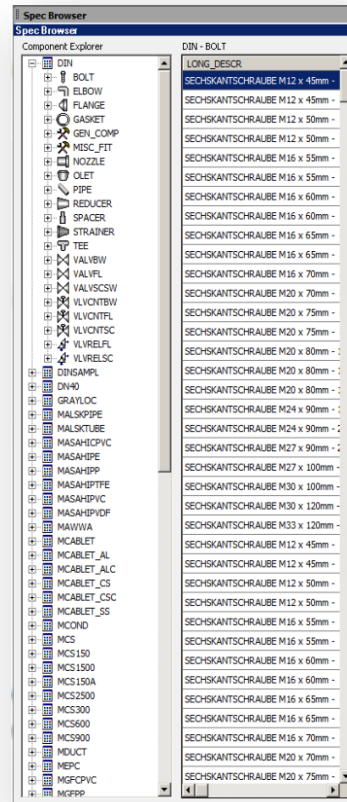
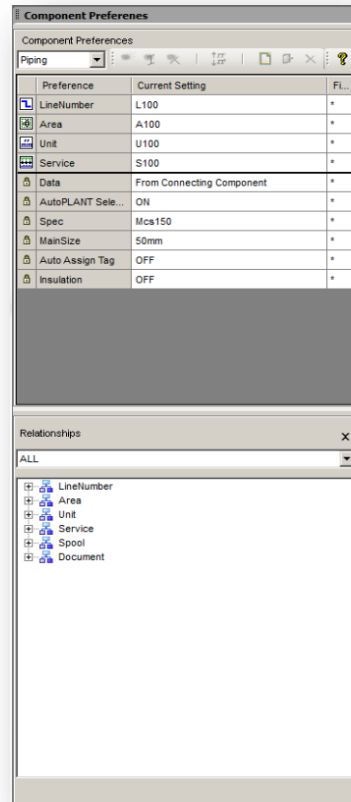
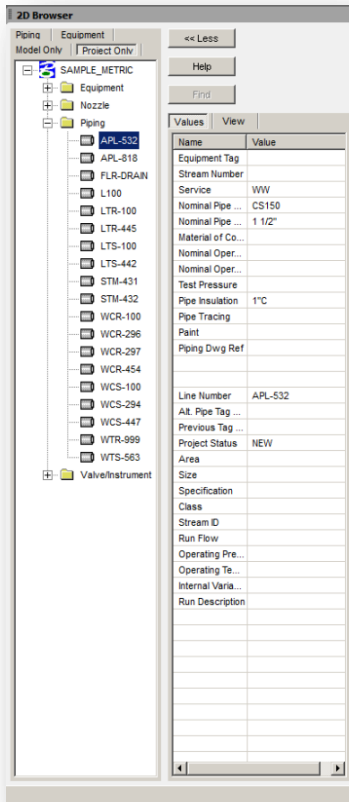
- New 64-bit .NET controls (project Ulysses)

2D/3D Browser

Component Preferences

Spec. Browser

Symbol Manager



# AutoPLANT V8*i* (SELECTseries 4)



- Jacketed Pipe Module (project Phoenix 2)
  - “Enablement” shipped with (SELECTseries 4)
    - Actual module expected Q1 2012
  - Draw scripts and content delivered via Content Server
  - Content Server to be deliver mechanism for all new content i.e. modules and catalogs
  - Users notified when content is available to download and “plug-in”
  - Developed by BSW Content Services Group
    - Delivery independent of the (SELECTseries 4) release
  - Catalog content to be provided
  - Demo plus Q & A later



# AutoPLANT V8i (SELECTseries 4)

- Jacketed Pipe Module (project Phoenix 2)

The image displays three overlapping windows from the Bentley software installation and update process:

- Custom Setup:** A window titled "AutoPLANT Plant Design V8i (SELECTseries 3)" with the Bentley logo. It prompts the user to "Select the program features you want installed." A tree view on the left shows the "AutoPLANT" folder expanded, with "Jacketed Pipe" selected under the "Modules" category.
- Module Setup:** A window titled "Module Setup" showing a list of "Available Modules". The "Jacketed Pipe Module" is highlighted with a red box. To the right, "Module Action" options include "Load All", "Load Module", and "View Module". A tooltip for "Farm Title" is visible, stating: "Before the Jacketed Pipe you must download content via the following link: <<link to content>>".
- Bentley Update:** A window titled "Bentley Update" with the sub-header "Choose Products... Bentley Content Server". It displays a table of recommended products. The "Bentley AutoPLANT Piping (8.11.9.123)" product is highlighted with a red box. The table includes columns for Name, Version, Release Date, and Size.

Recommended (2)	Beta (1)	Name	Version	Release Date	Size
		MicroStation PowerDraft (8.11.7.172) (1)			
		MicroStation PowerDraft V8i	8.11.7.443	08-12-2010	375.8 MB
		Bentley View (8.11.7.171) (1)			
		Bentley View V8i	8.11.7.440	07-16-2010	202.9 MB
		Bentley OpenPlant Modeler (8.11.7.53)			
		Victaulic Content	8.11.7.440	07-16-2010	202.9 MB
		MH Rohr Content	8.11.7.440	07-16-2010	202.9 MB
		DIN/EN Standards	8.11.7.440	07-16-2010	202.9 MB
		Bentley OpenPlant HVAC (8.11.7.121)			
		Victaulic Content	8.11.7.440	07-16-2010	202.9 MB
		Bentley AutoPLANT Piping (8.11.9.123)			
		Jacketed Pipe Content - MH-Rohr	8.11.7.440	07-16-2010	202.9 MB
		Jacketed Pipe Content - Tesco	8.11.7.440	07-16-2010	202.9 MB
		Jacketed Pipe Content - Asda	8.11.7.440	07-16-2010	202.9 MB
		Jacketed Pipe Content - Sainsbury's	8.11.7.440	07-16-2010	202.9 MB

MicroStation PowerDraft V8i (SELECTseries 2) is Bentley's software foundation for production 2D/3D drafting and detailing. It represents another important evolution in the V8 Generation. This new version includes many new "Innovations by MicroStation" designed to meet the demands of global project teams dedicated to sustaining the world's infrastructure.

Highlights of MicroStation PowerDraft V8i (SELECTseries 2) include:

- Integrated Point Cloud support
- Geographic Coordinate System Enhancements
- Citrix Ready Verification

No updates are selected. [Ok] [Cancel]

# Where we are going in 2012...

AutoPLANT V8*i* (SELECTseries 5)



# AutoPLANT Plans for 2012

- *Possible* (SELECTseries 4) Refresh release May/June
  - Defect Correction release
- AutoPLANT V8*i* (SELECTseries 5) H2 2012
  - AutoCAD 2013 support (probable DWG format change)
  - OpenPlant Isometrics Manager Integration
  - Pipe routing and editing improvement
  - i-model consumption
  - Continued 64-bit development
  - ProjectWise integration enhancements for distribution
  - Support for latest Office/SQL Server /ORACLE updates

# AutoPLANT V8*i* (SELECTseries 5)

- OpenPlant Isometrics Manager integration
  - To offer an **alternative** to ISOGEN
  - ISOGEN support to continue
  - ISOGEN will no longer ship with AutoPLANT
  - Gives BSW greater control of the iso creation technology
  - Existing AutoPLANT Workflows to remain the same
  - Ability to generate Iso's from project database outside of AutoPLANT
  - DWG/DXF/PCF support
  - Additional *intelligent* DGN support
  - Easier configuration with migration of ISOGEN setting
  - PCF output for SpoolGen

# AutoPLANT V8*i* (SELECTseries 5)

- Pipe Routing & Editing Enhancements
  - Reboil and Object Enabler enhancements
  - Leveraging latest AutoCAD graphics technology
  - Routing by pipe placement or component placement
  - Smoother “rendered routing” and grip editing
  - Greater support for realistic styles
  - Auto-routing with option toggling

# AutoPLANT V8*i* (SELECTseries 5)

- Further 64-bit performance improvement
  - Rewrite of components such as database layer, INI handling, translation layer and shared utilities
- Support for latest Bentley Collaboration Products
  - ProjectWise, Navigator, AutoPIPE, i-model Composer etc.
- i-model Consumption
  - Exchanging i-model data between AutoPLANT & OpenPlant projects
- ProjectWise Integration Enhancements
  - Distributed work sharing based on Briefcase Mode technology

# Other Development in 2012

- Joint ventures between AutoPLANT and other Bentley product groups
  - New Data Manager application
    - Work with both AutoPLANT project database and OpenPlant project database
  - Improved AutoPLANT & Navigator solution
    - To compete with the AutoPLANT + Navisworks solution
  - AutoPLANT <> AutoPIPE
    - Develop a “stress schema” & approved into ISO15926
    - 2-way integration with OpenPlant and AutoPLANT using i-models

**After 2012...**

# Under consideration for 2013 and beyond

- AutoPLANT connected to OpenPlant Model Server
  - Component (not file) based design for AutoPLANT
- Integration with Bentley Cable & Raceway Management
  - Possibly replace AutoPLANT Raceways
  - Cable management for I&W and promise
- New Datasheets application
  - To work with AutoPLANT and OpenPlant
- New Electrical & Instrumentation solutions
  - To work with AutoPLANT and OpenPlant

# Get involved – BE Communities

The screenshot shows the Bentley Communities website. At the top left is the 'Be Communities' logo. Below it is a navigation bar with tabs for Solutions, Products, Bentley Programs, Communities, Members, and About Us. The main heading is 'Plant Design and Engineering' with a sub-heading: 'This is where you can find and contribute to discussions, ideas, and other information about Bentley Plant Design and Engineering products.' There is a search bar and a 'Get this RSS feed' link. A sidebar on the left lists various Bentley products and tools under the heading 'Plant Design and Engineering', including AutoPLANT Viewer, Bentley AutoPLANT Object Enabler, Bentley AutoPLANT P&ID, Bentley AutoPLANT Plant Design, Bentley AutoPLANT Specification Generator, Bentley OpenPlant ModelServer, Bentley OpenPlant ModelServer Administrator, Bentley OpenPlant Modeler, Bentley OpenPlant Isometrics Manager, Bentley OpenPlant Reporting, ProjectWise PDX Dynamic Review Service, Bentley OpenPlant PowerPID, Bentley Piping - Isogen & I2, Bentley Plant Framework, Bentley PlantSpace Design Series, Bentley PlantSpace Isometrics, Bentley PlantSpace P&ID, Bentley Process & Instrumentation, MCS Database Tools, MicroStation Schematics, and SupportModeler for PlantSpace. Below the list, it states: 'This community provides various applications for you to ask questions and get answers -- just click on the respective tab above. If the product you are using is not listed above, browse the Product communities.'

The screenshot shows the Bentley Plant Design and Engineering forum page. At the top is the 'Plant Design and Engineering' logo and a sub-heading: 'This is where you can find and contribute to discussions, ideas, and other information about Bentley Plant Design and Engineering products.' There is a search bar and a 'Get this RSS feed' link. Below the navigation bar (Home, Blog, Forum, Files, Wiki) is a table of forum posts. The table has columns for 'All Recent', 'Unanswered', 'TOPIC', 'DATE', and 'REPLIES'. The posts listed are:

TOPIC	DATE	REPLIES
<b>ANNOUNCEMENT</b> OpenPlant PowerPID SS4 Release Announcement	Latest post by rsharper Wed, Jul 20 2011 11:12 PM	0
<b>STICKY</b> AutoPLANT V8i (SELECTseries 3) Announcements...	Latest post by ChrisB Wed, Apr 20 2011 2:00 PM	0
<b>STICKY</b> AutoPLANT V8i (SELECTseries 3) is released...	Latest post by ChrisB Tue, Apr 19 2011 4:02 PM	0
<b>STICKY</b> Bentley OpenPlant V8i (SELECtSeries 2) Refresh Release	Latest post by Ian Robinson Wed, Jan 5 2011 8:59 PM	0
converting plantspace tags to OPPID	Latest post by Wim Aerts Fri, Nov 4 2011 1:58 PM	0
<b>STICKY</b> AutoPLANT V8i (SELECTseries 3) eSeminars	Latest post by ChrisB Wed, May 4 2011 1:56 PM	0
Autoplant(Acad) SS3 title block variables	Latest post by adamh1 Thu, Nov 3 2011 6:12 PM	2
Changing tag information attribute in OPPID	Latest post by Wim Aerts Thu, Nov 3 2011 2:08 PM	1
Isogen and Pipe Support Direction call out.	Latest post by harley01 Thu, Nov 3 2011 12:14 PM	2
AutoCAD 2012 Support?	Latest post by FoxHunter Wed, Nov 2 2011 6:54 AM	0

On the right side of the forum page, there is a 'BE COMMUNITIES HELP' section with links for Getting Started, Common Acronyms, FAQ, Forum Help, Forum Tips, FTP Site, Helpful Guidelines, Product Community Directory, and SELECTsupport. Below that is an 'OPTIONS' section with a 'Subscribe via RSS' link. At the bottom is a 'POPULAR DISCUSSIONS' section with links to various forum posts.

- [http://communities.bentley.com/products/plant/design\\_engineering/default.aspx](http://communities.bentley.com/products/plant/design_engineering/default.aspx)



# Get involved – LinkedIn AutoPLANT Group

LinkedIn Account Type: Basic Chris Binns Add Connections

Home Profile Contacts Groups Jobs Inbox 1 Companies News More Groups Search...

**Bentley / Rebis Autoplant** Discussions Members Promotions Jobs Search More... Share group

Start a Discussion  
Start a discussion or share something with the group...

Your Activity

Choose Your View **NEW** Show all RSS discussions

Most Popular Discussions

**Updated AutoPLANT V8i (SELECTseries 3) ReadMe files...**  
The sections that have been updated are System Requirements and Known Issues.  
The System Requirements ReadMe has been update to add ...  
posted 3 months ago

**Ted Sabala** 8 days ago • Ted likes this.

See more >

**Upgrading a project from 2004 to V8i**  
Hello there, I will be upgrading an ongoing alliance project from AutoPLANT 2004 to V8i. The project only utilises the 3D modules so I'm ...  
posted 12 days ago

**Joel Harris** 9 days ago • I unfortunately have experiences with V8i SS3 which echo Ted's. I hope Bentley expedites the next "patch" to solve some of the documented ... >

See all 4 comments >

Like Comment Follow More >

**Manager's Choice**  
I still have spots open – FREE Internet Job Search Training  
Josh Bruner, TSC, CSC, PMP [EN] See all >

**Latest Updates**

**Aitor Landa Camaron** likes this comment by Daniel Blanco error Autopinat 3D. The problem is not of AutoPlant, is AutoCAD, probably because you've tried to keep a very heavy file, what I recommend is not to generate...  
Like (1) • 1 day ago

**Aitor Landa Camaron** has joined the group.  
Send message • 1 day ago

11 people have joined the group, including **berrie geboers**, **Linas B.** and **Richard Scotti**  
5 days ago

See all updates >

**Ads by LinkedIn Members**

**Product Management 2.0**  
OneDesk - Work together to build the right product faster! Sign up free.

- [http://www.linkedin.com/groups?gid=1773868&trk=myg\\_ugrp\\_ovr](http://www.linkedin.com/groups?gid=1773868&trk=myg_ugrp_ovr)

# Get involved - Twitter

The screenshot shows the Twitter profile of Chris Binns (@Chris\_Binns). The profile includes a profile picture, name, handle, location (Sale, UK), and bio (AutoPLANT Product Manager - Bentley Systems). It also shows a link to a Bentley website. The 'About you' section displays statistics: 6 Tweets, 1 Following, 13 Followers, and 2 Listed. The 'Following' section shows one account being followed. The 'Tweets' section contains three tweets from Chris Binns, each with a profile picture and text about Bentley products and services. The bottom of the page features navigation links and copyright information.

**twitter** Search Home Profile Messages Who To Follow Chris\_Binns

**Chris Binns**  
@Chris\_Binns Sale, UK  
AutoPLANT Product Manager - Bentley Systems  
<http://www.bentley.com/en-US/Promo/AutoPLANT/Autoplant+main+page.htm>

Edit your profile →

Tweets Favorites Following Followers Lists

**Chris\_Binns** Chris Binns  
Plant Equipment Modelling and AutoPLANT. Can you help?  
[communities.bentley.com/products/plant...](http://communities.bentley.com/products/plant...)  
30 Sep

**Chris\_Binns** Chris Binns  
Examples of Jacketed Pipe designs and deliverables needed to test new #AutoPLANT Jacketed Pipe module  
[communities.bentley.com/products/plant...](http://communities.bentley.com/products/plant...)  
1 Sep

**Chris\_Binns** Chris Binns  
Fix for Unhandled Exception errors in AutoPLANT P&ID SS3 (64-bit) to be found here [communities.bentley.com/products/plant...](http://communities.bentley.com/products/plant...)  
12 Jul

About you  
6 Tweets | 1 Following | 13 Followers | 2 Listed

Following · view all

Find accounts to follow: Browse interests · Find friends

What's next? · hide next steps

1. Get Twitter on your phone
  - Set up mobile notifications
  - Download a Twitter application to your phone
2. Set up your profile
  - Upload a profile picture
  - Write a short bio

About Help Blog Mobile Status Jobs Terms Privacy Shortcuts Advertisers Businesses Media Developers Resources © 2011 Twitter

- [https://twitter.com/#!/Chris\\_Binns](https://twitter.com/#!/Chris_Binns)

# Thank you!

- Questions?
- [Chris.binns@bentley.com](mailto:Chris.binns@bentley.com)

