PDMS 12.1.SP4 – Highlights

Full service pack release – includes:

- **Piping**
  - Non-standard branch connections
  - New pipe fabrication application
- **Structural**
  - Bent plates
- **Enhanced Hole Management**
- **Mechanical Equipment Interface (MEI) improvements**
- **Many other enhancements**
- **Numerous error corrections & minor enhancements**
  - Including those rolled up from previous fixes

*Engineering and Diagrams also upgraded to 12.1.SP4*
PDMS 12.1.SP4

Piping

- New capabilities for design & detailing of
  - pipe tappings
  - boss connections
  - etc.

- Piping designers can connect anywhere on
  - Piping
  - Pipe components
  Without needing catalogue work

- Known as “Non-standard branch connections”
Non-Standard Branch Connections

Steam Header ...
Non-Standard Branch Connections

Steam Header Isometric ...
Non-Standard Branch Connections

*Water Main ......*

*Large bore, multiple connections ........*

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Non-Standard Branch Connections

*Drain leg from a valve*
PDMS 12.1.SP4

Piping

- New pipe fabrication capabilities
  - modelling extensions
  - fabrication checking tools
  - optimisation capabilities
  - fabrication & installation drawings
  - configurable output tools for bending, welding & extrusion machines
New Pipe Fabrication Application
PDMS 12.1.SP4

Structural

- New “Bent plate” capabilities
  - plate curved in one plane
    - brackets, cladding etc.
Negative primitive used to modify contour

Bent Plate fittings

Bending path

Managed opening (hole)

Bent plate opening.

BPANEL element
• same properties & behaviour as a PANEL
PDMS 12.1.SP4

Mechanical Equipment*

- Improved interactive PDMS response with imported Mechanical Equipment
  - up to 3 times faster
- More structure in the imported model
  - easier to work with

* Import requires an AVEVA Mechanical Equipment Interface™ license
PDMS 12.1.SP4

Citrix support

- Available for a number of project scenarios / configurations
  - with & without AVEVA Global™
- AVEVA PDMS 12.1.SP4 is certified as “Citrix Ready”
Citrix support scenario

Local Office
Few users

Remote office
Many users

Project HQ
Many users

Citrix

Global
AVEVA Licensing System

AVEVA’s new licensing technology

- Required for **ALL** new product releases
  - AVEVA E3D™ 1.1, PDMS 12.1.SP4, Engineering 12.1.SP4, Diagrams 12.1.SP4, Review 12.2 etc.
- Support for Virtual & Citrix servers
- SafeNet RMS technology
- Replacement for “Flexman”
- Minimum disruption
  - handles license requests from **both**
    - existing AVEVA products
    - new AVEVA products
PDMS release 12.1.SP4

Enhanced Database Search

- More powerful tools for managing change
- Date modified included date modified in
  - Database search filters
  - Search reports
PDMS release 12.1.SP4

Enhanced security / IPR protection tools

- Database IPR protection links with PML encryption*
- Lock & key mechanism between encrypted PML and a protected database

* PML encryption requires an AVEVA PML Publisher™ licence
PDMS release 12.1.SP4

Schematic 3D Integrator enhancements*

- Less complexity for end user
  - easier to use
  - simplified output
- More configurability for administrator
- Increased connectivity scope
  - electrical connections on instruments, valves, etc.

* Requires an AVEVA Schematic 3D Integrator licence™
PDMS release 12.1.SP4

Enhanced Integration with AVEVA Bocad Steel™

- New version of AVEVA Bocad Steel Interface
- Improved handling of parametric sections
  - More steel successfully transferred
- More flexible & easier to use mapping
  - Profiles matched even with different naming conventions & formats between Bocad & PDMS
- First availability of Compare & Update for Bocad users
  - Bocad users can understand changes made in PDMS & have control over when to accept them
PDMS release 12.1.SP4

Compatibility highlights

- AVEVA E3D™
- AVEVA Engineering™
  - datasheets produced from the new AVEVA Engineering datasheets capabilities can reference 3D data created with PDMS
- AVEVA NET
  - built-in, configurable AVEVA NET Gateway*

* Separate licence required
PDMS 12.1.SP4 – Summary

- Numerous fault corrections & minor enhancements
- New branch connection options for piping
  - Tappings, boss connections etc.
- New pipe fabrication functionality
- New bent plate items for structural
  - Cladding, brackets etc
- Faster performance with imported mechanical equipment
  - And more structure
- Support for Citrix
- Database search on date modified
- Enhanced security for encrypted PML/protected databases
- Easier to use Schematic 3D Integrator option
- Enhanced integration with AVEVA Bocad Steel
Thank you