



**WORLD EVENT
2010**

Using ProductView as an Essential Business Process Enabler - A 10 Year Success Story

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Alcon

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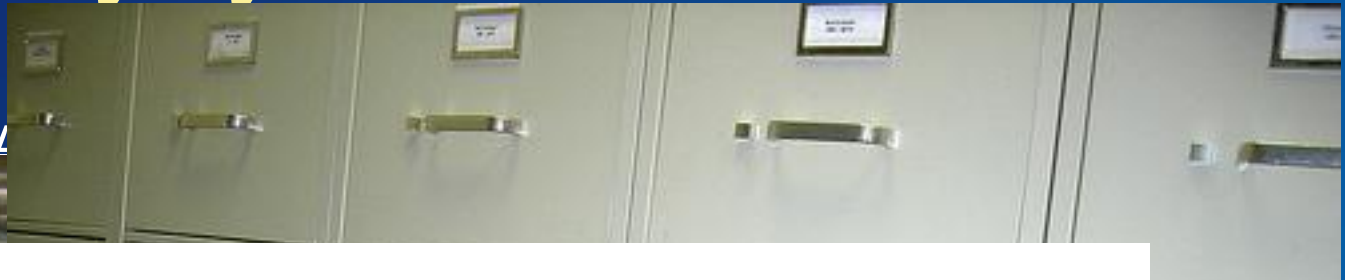
2010

Brief History – years 2000 >> 2010

- 2000 – Intralink 3.1
- 2001 – First use of Division ProductView
- 2002 – Assembly Instructions (Drawing views) via Pro/Process
- 2003
- 2004 – Gradually increased usage of many tools/functions
- 2005
- 2006
- 2007 – Windchill PDMLink 8.0, Integral ProductView
- 2008
- 2009 - Windchill PDMLink 9.0
- 2010 - Windchill PDMLink 9.1

Brief History – year 2000

- Killing Trees /



Brief History – year 2000, cont.

- Implemented Intralink 3.1
 - ALL product data: Pro/Engineer & other CAD, etc.
- Had brief demo of ProductView by PTC
 - Seemed kind of interesting
 - Not at all clear what it was, what it did
 - More investigation, demos, study
 - Yes, this can probably help us a lot
 - Purchased server license and 4 PV Standard Client licenses



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**Technical
Support
Hotline**





Brief History 2003



Brief History – 2003, cont.

- Uh oh - major problem...
 - Official copy from ProductView doesn't match Official copy in File cabinet with red stamp

- Investigation

- P
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- Major p

- No

- View

- P
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Control,

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Brief History – 2004

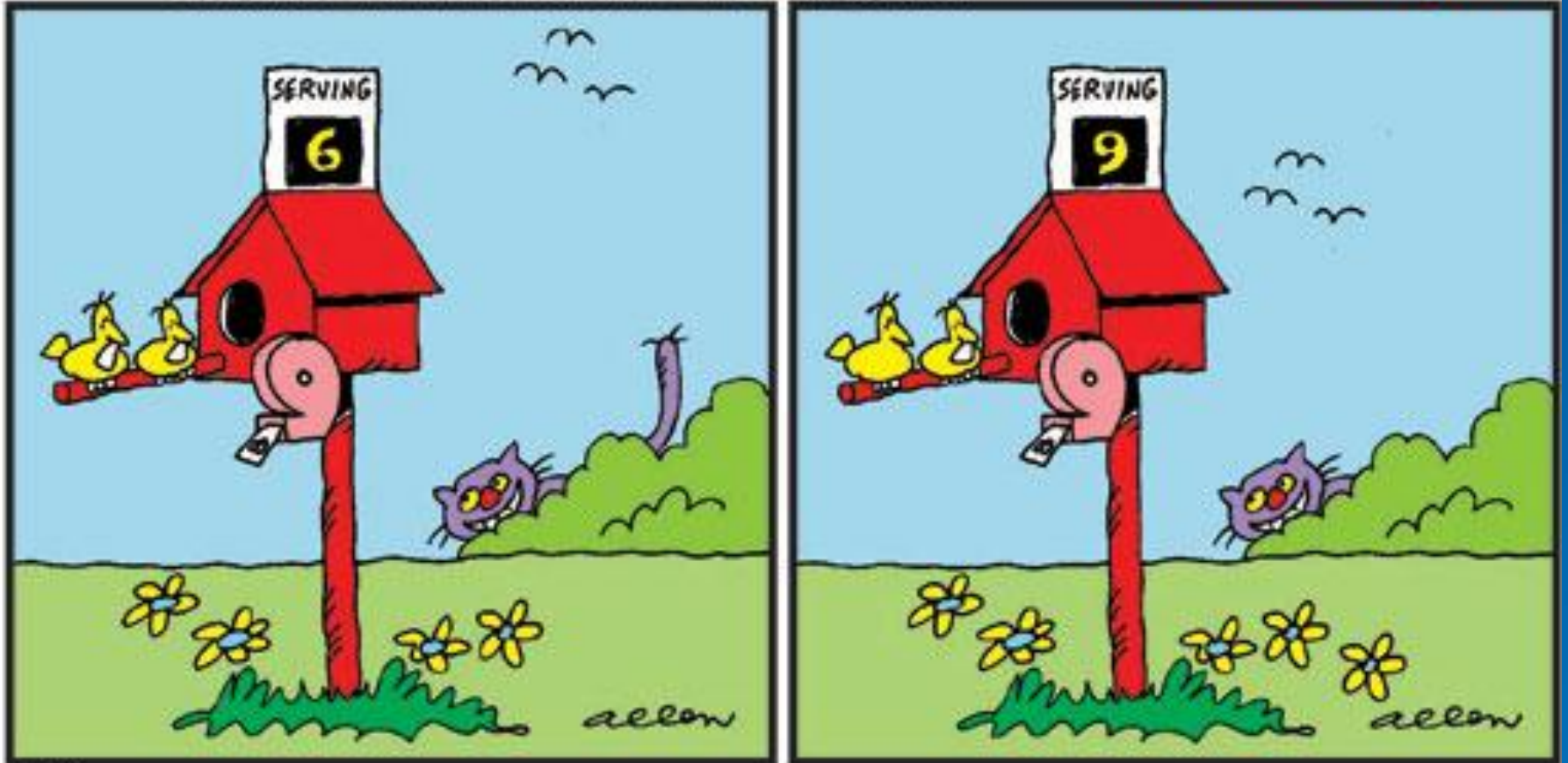
- Things get smoother / more efficient
 - Designers required to ensure that viewables publish correctly
 - Checkers required to access via ProductView
 - Checkers start to use Annotations, not red-mark paper
 - Users also start to discover 3D viewables

Brief History – 2004. cont.

SPOT THE DIFFERENCE

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Can you find the FIVE differences in the cartoon at right?



Spot 7

Brief History – 2005

- Usage extended ...
 - Tech writers taught to obtain images from ProductView as needed
 - No more requesting from Pro/Engineer users
 - Increased use of annotations during design reviews; virtually no paper now
 - Doc control down to 4 people, 1/3 of the original file cabinets
 - Watermarked prints for all quotes; all tied to specific iterations w/no additional effort

Brief History – 2007

- Windchill implemented
 - Migrated from Intranet 3.4
 - Invested in Doc Collaboration Option
 - Can now publish Word documents just like Pro/Engineer Drawings
 - Scanned all remaining paper drawings and documents (80,000) and added to Windchill

Brief History – 2007, cont.

- Doc control “push” function eliminated by end of the year
 - No more photocopies
 - Down to 1 file cabinet
 - Down to 1 person



Brief History – 2008

- Manufacturing installs computers at every work station
 - No more paper assembly drawings; access and use via ProductView
 - Pre-requisite: Assembly instructions using Pro/Process module of Pro/Engineer
 - Formatted to fit standard monitor
 - Distributed “Control files” eliminated by end of the year (no more paper)

Brief History – 2009 /2010

- ProductView client installed on ~ 900 computers, 18 facilities
- No more a concept of “document control” (no longer needed)
- Continued refinement of usage, processes with upgrade to Windchill 9.0, then 9.1

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What Allowed All This to Happen?

1. The master is in Windchill PDMLink, not in some other document control system
 - Eliminate red-stamped paper “originals”
 - The master is the electronic published viewable, available via ProductView
 - All drawings and documents treated alike (Pro/E drawings, Word doc's, etc.)
2. All users given needed access to Windchill

What Allowed All This to Happen?

3. Watermarks essential:

- Correct watermark required on every product document used for business purposes
- Watermark differs by Drawing / Document state (e.g. In Work, Released, Obsolete)
- Watermark includes essential database info: Number, Version, User, Date accessed

Note: No way currently to apply watermarks to data managed by ECAD Work Group Manager

What Allowed All This to Happen?

4. Correct Watermark (Released state) also required on all drawings / documents “red-lined” for changes. Example:
 - Specific change need for a Revision B drawing
 - Rev B drawing obtained from ProductView with watermark, then “redlined” (electronically or in ink)
 - Watermark confirms that the “real” Released Rev B is the starting point for the proposed, then approved, then implemented change

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What Allowed All This to Happen?

5. Additional productivity tools in ProductView

- Drawing Overlay
- Annotations
- Etc.

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Summary

- Electronic Masters in Windchill (verified published viewables)
- Require that documents on which you do business are viewables with correct watermarks
- Implementation takes some real effort – setup and ongoing
- Take advantage of other ProductView tools once viewables are available

Pictures / Demonstrations

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It takes effort & nurturing over time, but worth it





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Please feel free to contact me

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