

Implementation of Bentley ProjectWise

A case story from NNEPharmaplan
November 2011

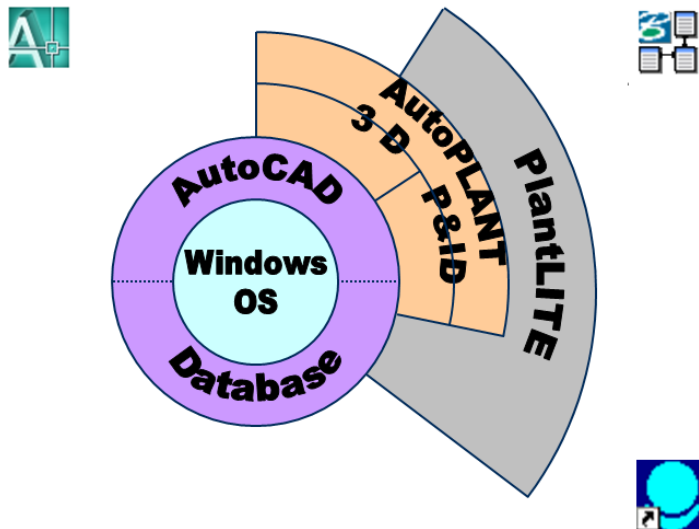
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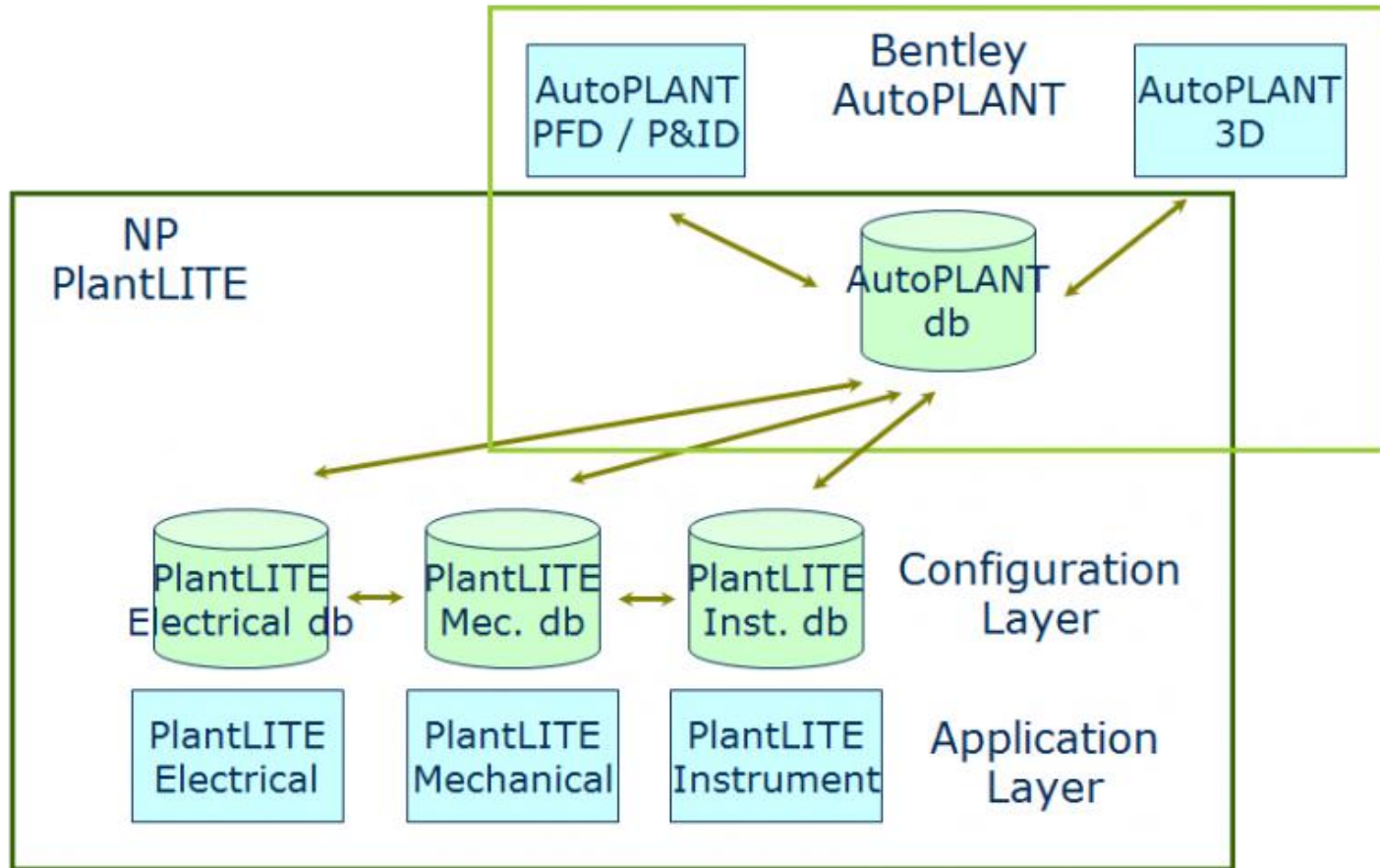
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History

- NNE started using Bentley (Rebis) products in 1998 – based on AutoCAD
- 50+ projects have been executed in AutoPlant
- Initially only using P&ID, at later stage Plant Design was implemented.
- Inhouse application PlantLITE developed during the first years of AutoPlant usage covering Electrical, Instrumentation and Mechanical disciplines.



PlantLITE setup



Why change ?

- After merger of NNE and Pharmaplan it became obvious that we need to support the global project execution with not only common processes but also IT tools.
- Connecting People and Information Across Project Teams. (DK, CN, RU, D)
- Very large design project files require local copies at each branch location.
- Save time finding, validating, and accessing project information
- Reduce project risk with a single source of truth for all project information
- Several business cases were outlined;
 - Using ViseVersa as synchronisation tool
 - Using PeerSync as synchronisation tool
 - Using Bentley ProjectWise as platform

What did we do for a start?

- ViseVersa was introduced in one Engineering project with global execution between Denmark and China to synchronise DWG models.
- AutoPlant was used in both Denmark and China with simmilar configuration.
- An automatic replication on SQL database was put in place.

Pros and cons:

- The use of ViseVersa was not successfull, as we could not guaranty file integrety. Often there were models not in synchronisation with the data in the SQL database.
- The SQL data replication was running seamlees without out any major issues.

Conclusion:

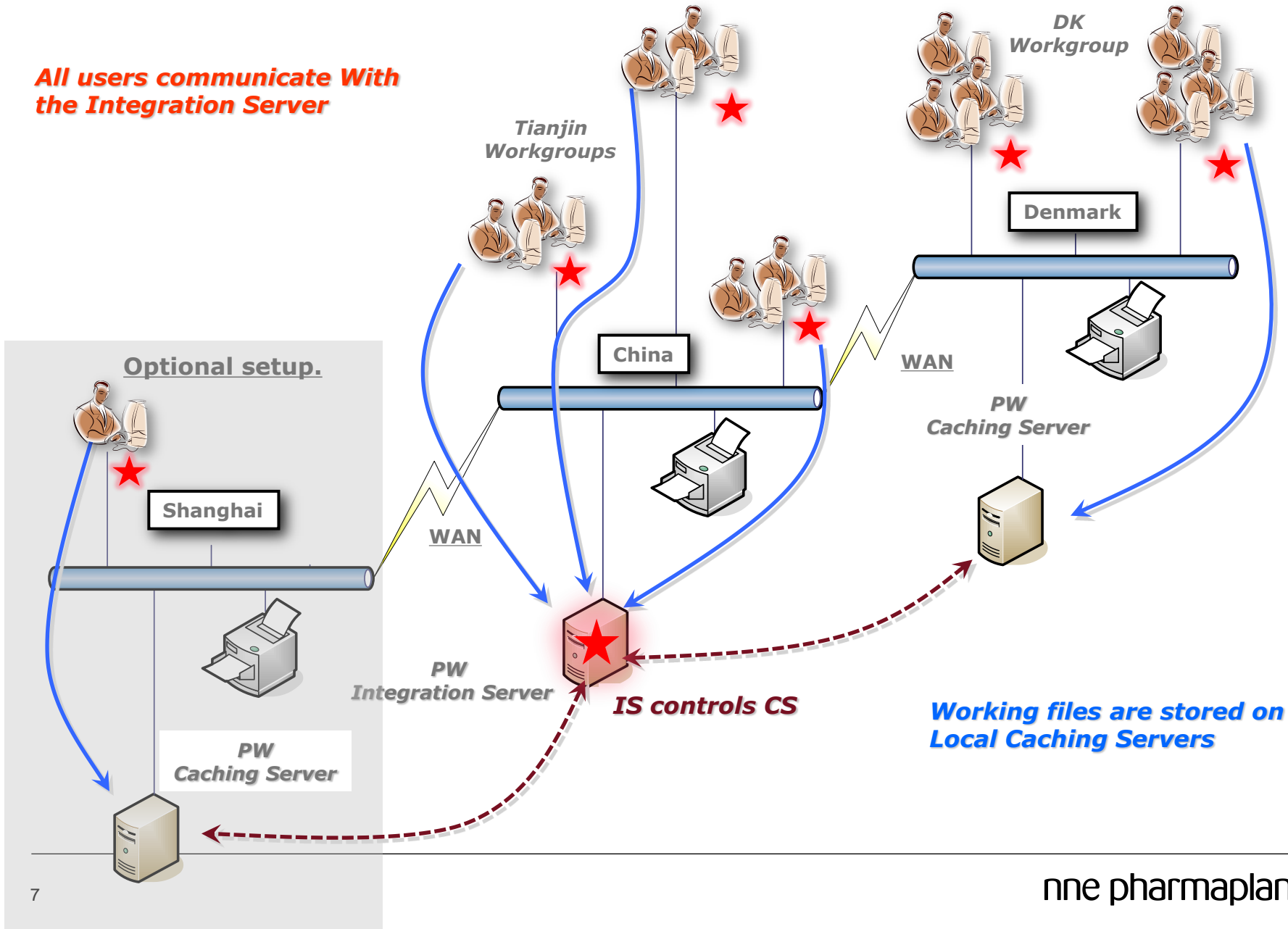
- We needed a more stable and robust platform for working globally. This should included full audittrail, versioning and checkin/checkout cababilities.

ProjectWise implementation

- Based on our initial pilot project with ProjectWise done in 2007 based on AutoPlant XM version, we initiated a new pilot project to take place medium 2011.
- As the main piping group is located in our Chinese office, it was decided that the Chinese office would be the main hub for the ProjectWise implementation as well as managing the implementation project.
- The main contract with Bentley is handled through our Denmark office with the contact to our Global Account Manager at Bentley – Inge-Magnar Olerud.
- The scope of the pilot project was to support and succeed with one fullscale Engineering project in NNEPharmaplan.
- Initially we will only support CAD and Plant files. Controlling of MS Office documents are not in scope for now – maybe later.
- All AutoCAD and AutoPlant was upgraded to latest versions – AutoCAD 2011 and AutoPlant V8i SS3.

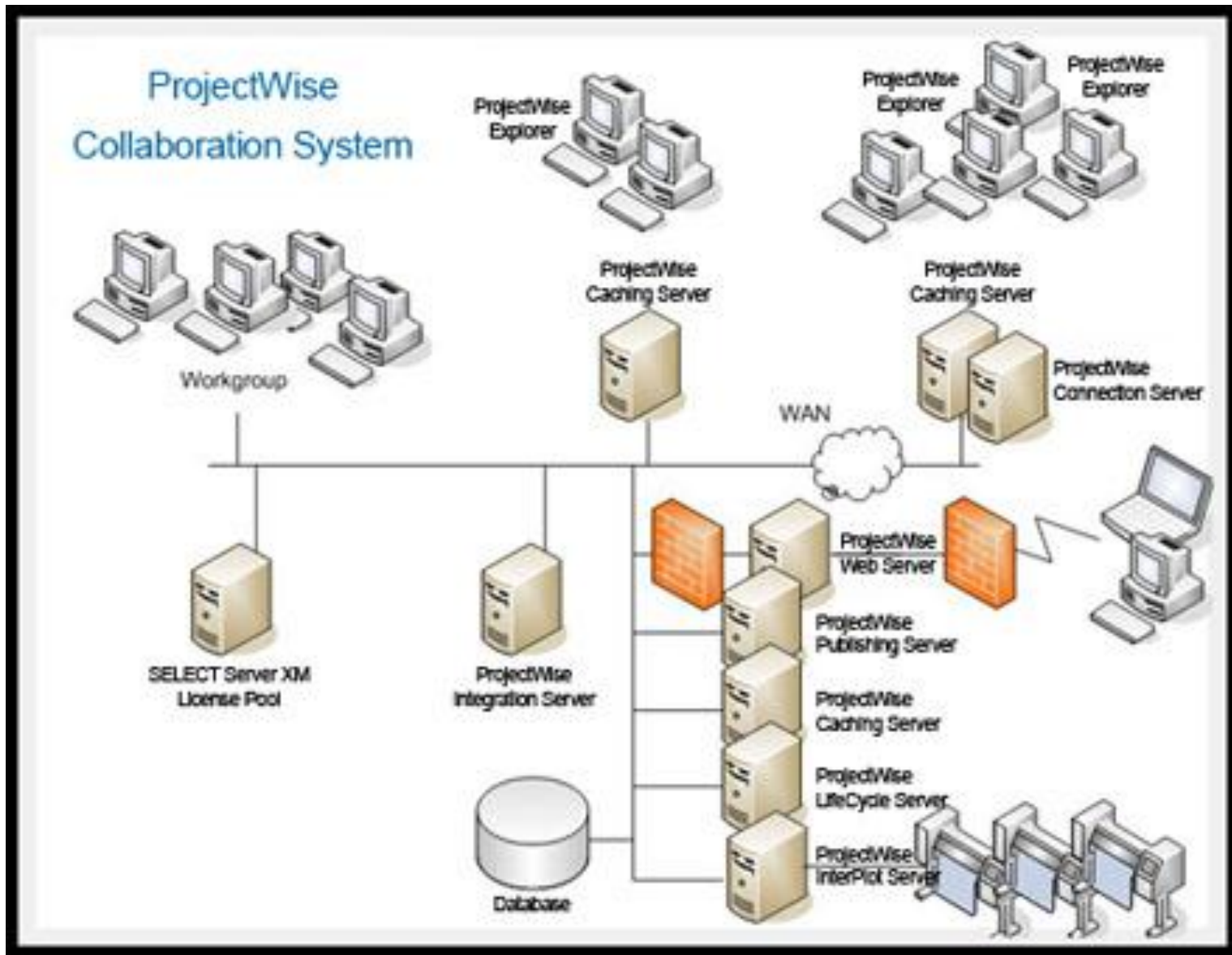
ProjectWise setup

All users communicate With the Integration Server



Working files are stored on Local Caching Servers

ProjectWise: Building blocks.



What did we learn ?

- CAD tools from AutoDesk was easy to upgrade
- Difficult to create installation packages (MS SCCM) for AutoPlant/ProjectWise
- Time consuming and difficult to setup the whole platform
 - Extensive usage of Bentley Consultant (mainly from China) to support the setup.
 - Ended up in a 300 pages installation guide – tailormade to fit our IT environment.
- Redefinement of processes
 - How to create a new greenfield project
 - Template setup
 - Administration – acting globally
 - Training – both admin and enduser. Bentley LEARN – online training
 - Performance issues at CheckIn/CheckOut – further measurements must be done.
- Overall conclusion so far
 - It an IT platform, not just an IT system
 - Difficult to setup – but easy to use in daily work.
 - Need for an Integration server in Denmark ?

Where are we today ?

- Pilot project is running in ProjectWise – at least very close to 😊
- 2 more engineering projects in the pipeline to be enrolled in ProjectWise – medium size project 50+ models and P&ID
- Great expectations and interest for ProjectWise in the whole organisation – not just in IT.

- Demo time.....