



Versiondog

Data Management for Machine Manufacturing



Data Management,
Automatic Version Control
and Backup for
Machine Manufacturing

Data Management for Machine Manufacturing

Applications

Version Control
Project History
Process Optimisation
Coordination with Partners
Team Communication
Life Cycle Management
Diagnostics & Troubleshooting
On-Site Mobility
Warranty
Remote Control
Audit Trail

Systems

SIMATIC S5, S7
WinCC
WinCC flexible
InTouch
CoDeSys
TwinCAT
RsLogix5000
ABB- and Kuka Robots
ProTool
Binary
ASCII
... and many more

Benefits

■ Scenarios

Your company designs, plans and manufactures complex machines in series production, using modular concepts, allowing a variety of combinations. Your development team defines **standard templates that are constantly reused** and continuously improved.

Or you construct special-purpose machines, each with a unique design. In any case, numerous individual employees, teams, or entire **departments** are involved in the process: Design (CAD), documentation (Word, PDF), development (S5, S7, CoDeSys, WinCC flexible, WinCC, InTouch, ABB and Kuka robots, etc.) – all the way down to the shopfloor.

Different departments have a great **need for coordination** and communication between different systems, standards and automation components, which are highly integrated to result in a machine that works perfectly.

However, confusion and versioning problems can easily occur in an environment where many different people have access to software contents at the same time.

The only way to avoid this is **seamless documentation**, by means of software-controlled project data management.

■ Solutions

versiondog for Machine Manufacturing is our solution specially designed for machine manufacturing operations. The **Version Management** function provides a complete documentation and change history – all information can be clearly traced and interpreted. Via **Version Compare**, you can directly compare a multitude of various versions. Thus, versiondog also enables transparency in terms of accountability and **liability**.

Machine modules are usually standardised, as are the associated PLC programs; and during the further development of a machine, standards will also be modified. Using **S7 Library Management*** it is possible to trace which customer has received which machine and with which standard. Thus, all corresponding modules can be found in no time if an error should occur – a great plus for your customer service!

versiondog always tells you **when, what, where and why something was developed or modified by whom** – thus enabling you to control the process and to optimise all stages of your product development.



Machine Manufacturing with **versiondog**

Features

Powerful in Detail

- Versions of any kind can be compared at the push of a button (**Smart Compare**) to enable speedy **troubleshooting or error analysis** support.
- **S7 Library Management with Cross Reference*** enables the definition of templates and instantly finds a faulty block version in all projects.
- The **Simatic Multiuser Edit** module* enables your team to simultaneously work on the same S7 project. The check-in and check-out mechanism can also be applied to individual blocks.

The **versiondog Life Cycle Management** function enables you to

- **Restore** and analyse optimised legacy versions at any time.
- **Perform weak point analyses** on your machines.
- Create documentation for **Audit Trails**.
- The optional **versiondog OEM Server** is delivered with the machine and supports **Automatic Backups** for analysis and disaster recovery in the event of a system crash.

Mobility

An implementation procedure involves many people – working both on the customer's site and inhouse.

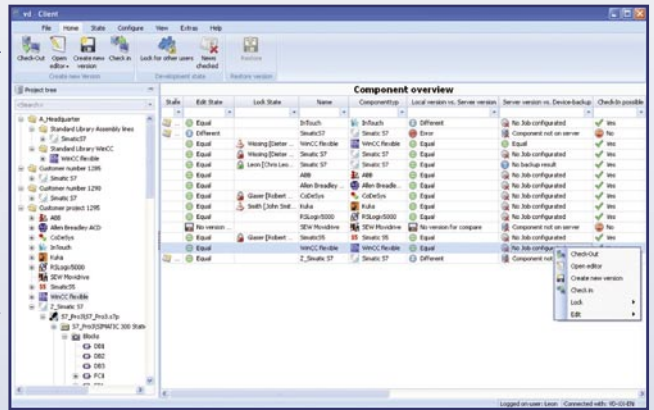
This is where the **version-dog Mobile Server** is really worth using. It provides an overview of who is working on what, saves software versions by **Automatic Backup**

during the implementation phase and checks each version for integrity. Following the handover of the project (or even during its implementation) the **versiondog Mobile Server**

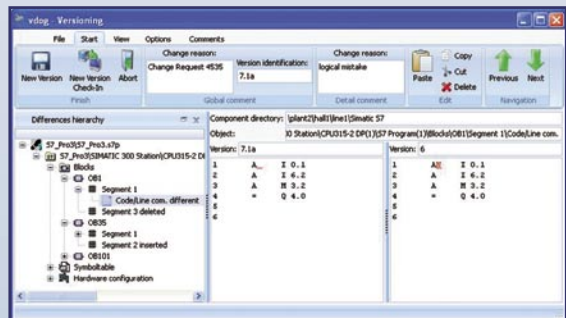
synchronises the implementation versions including all version comments with the **versiondog main server**. Valuable project comments and, above all, information

on version levels will no longer get lost. **Communication** between **versiondog** servers at different locations eliminates unnecessary trips and facilitates coordination both within your team and with all parties involved in the field.

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Clear status at the daily start of work: Who is working on what?



Smart Compare: See differences at a glance!

More Security

- Exact **information** simply at the push of a button.
- Perfect **coordination** between development and implementation.
- Managed change processes by means of **Audit Trail** in accordance with ISO 900x, VDA 6.4, FDA 21 CFR 11, GxP.

* available 2009



Conclusion

*"Seamless procedures,
complete dokumentation!"*

■ Higher Quality

- Maximum **transparency**: Who changed what, when and why?
- Higher-quality, menu-guided **documentation of changes** with less effort.

■ Reduced Cost

- Greatly reduced **travelling expenses**.
- **Quick response** in the event of a fault.
- **Avoids misunderstandings** between development staff and implementation personnel.
- **Saves time** when searching and comparing versions.



Change history

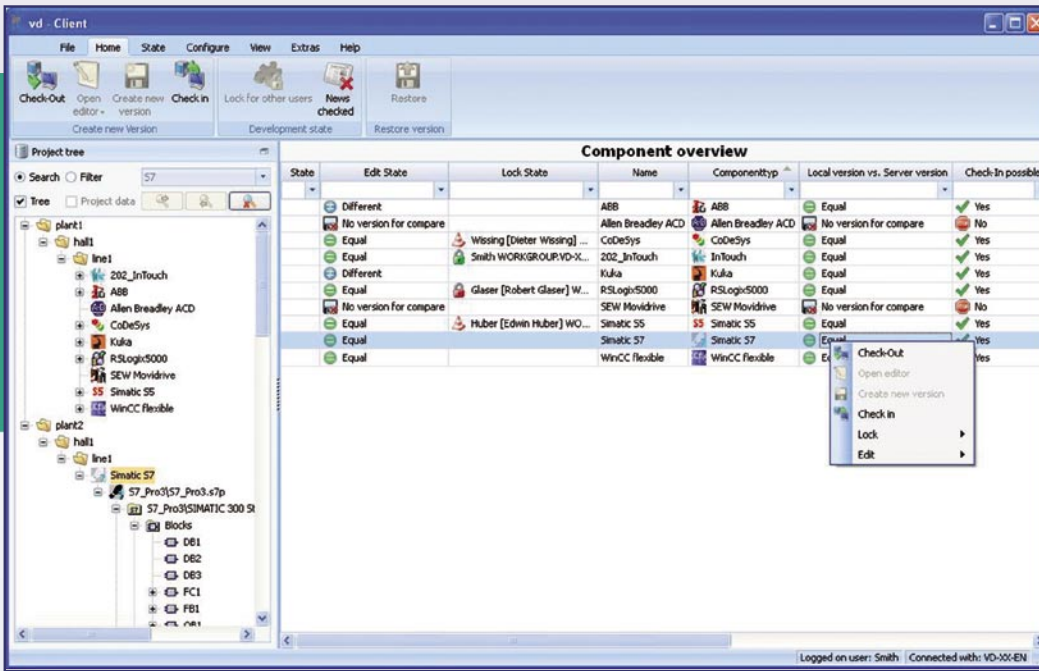
Version	Time stamp (Local)	Change reason	Comment	User name	Computername	Storage
6	03.25.2009 16:11	Change Request	Consistoring	Huber [Edwin.Hu...]	WORKGOURV-D...	20090325.005
5 (S Sup. Update)	03.25.2009 16:03	Change Request	Update supplier	Meier [Glaus.Meier]	WORKGOURV-D...	20090325.004
4	03.25.2009 16:03	Change Request	SAP Equipment 3...	Glaser [Robert.Gl...]	WORKGOURV-D...	20090325.003
3	03.25.2009 16:03	Change Request	Wiring [Dietler]	WORKGOURV-D...	20090325.002	
2	03.25.2009 15:58	Change Request	Wiring [Dietler]	WORKGOURV-D...	20090325.001	
1	03.25.2009 11:14	Change Request	VersionExp [S...	VersionExp [S...		

Differences between version 6 and 5 (S Sup. Update)

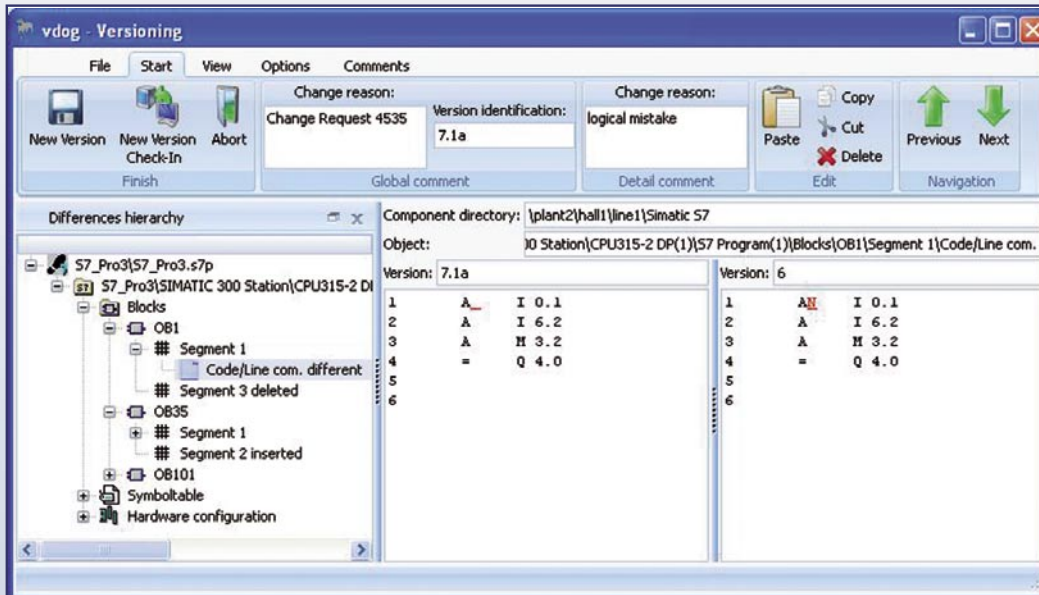
Version	File or Project	Object	Object class	Comment	Change reason
6	S7_Pno3S7_Pno3.s7p	...gram(1) \Blocks\CB-FC11 \Segment 21	CodeLine.com	Segment diff... 50 is better for final pressure	New setpoint value
6	S7_Pno3S7_Pno3.s7p	...ram(1) \Blocks\CB-OB11 \Segment 11	CodeLine.com	Segment diff... Not inserted	logical mistake
6	S7_Pno3S7_Pno3.s7p	...ram(1) \Blocks\CB-OB11 \Segment 21	CodeLine.com	Segment diff... has to do with segment 1	Not deleted
6	S7_Pno3S7_Pno3.s7p	...ram(1) \Blocks\CB-OB11 \Segment 31	CodeLine.com	Segment diff... 10 is better than 20 keep it	optimization
6	S7_Pno3S7_Pno3.s7p	...ram(1) \Blocks\CB-OB11 \Segment 41	CodeLine.com	Segment diff... logical mistake	Or instead of and inserted

Seamless change history: Everything can be easily traced back.

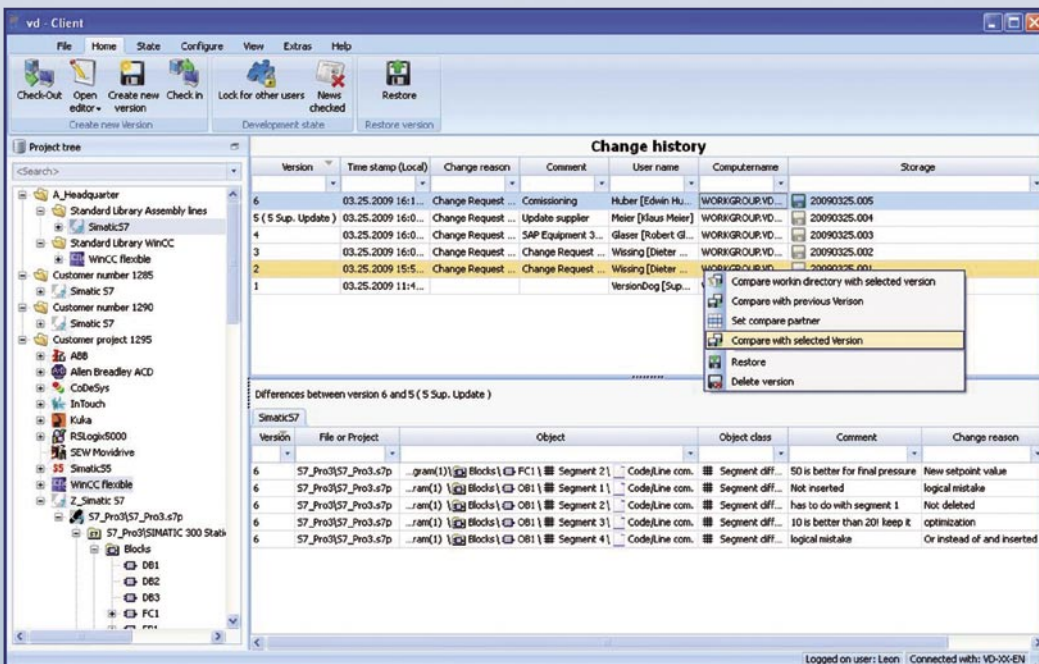
Screenshots at a Glance



Clear status at the daily start of work: Who is working on what?



Smart Compare: See differences at a glance!



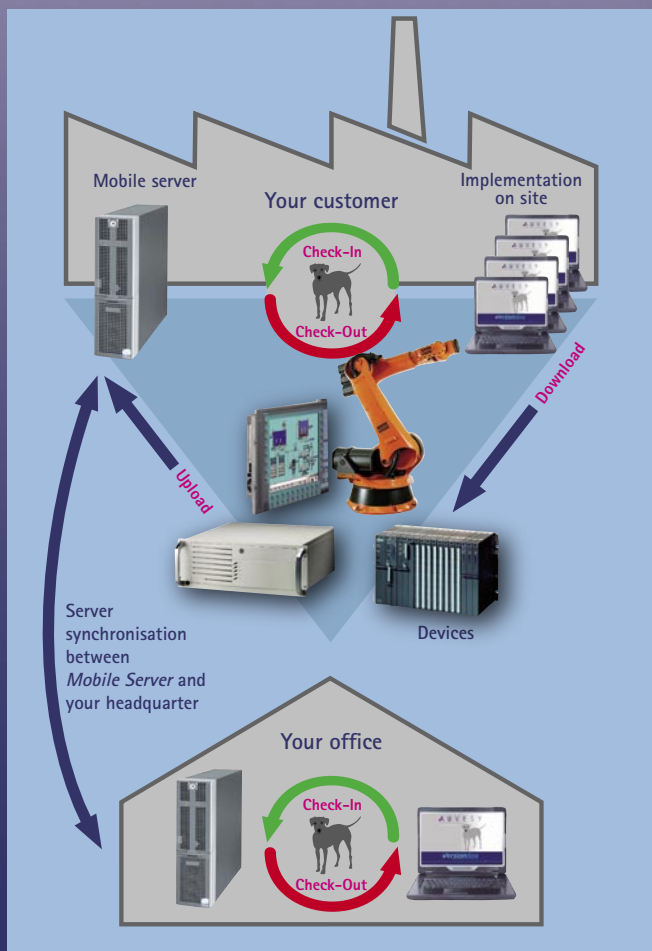
Seamless change history: Everything can be easily traced back..

Security in any Situation

System

■ **Controlled security from design to implementation ensured by the *Closed Loop of versiondog.***

versiondog manages your centralised customer project data storage. The program automates documentation and versioning control – not only in your office – but also while a project is being implemented at your customer's site (including **Automatic Backup** of the customer's system and **Server Synchronisation** with your office).



A U V E S Y

We are here for you!

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