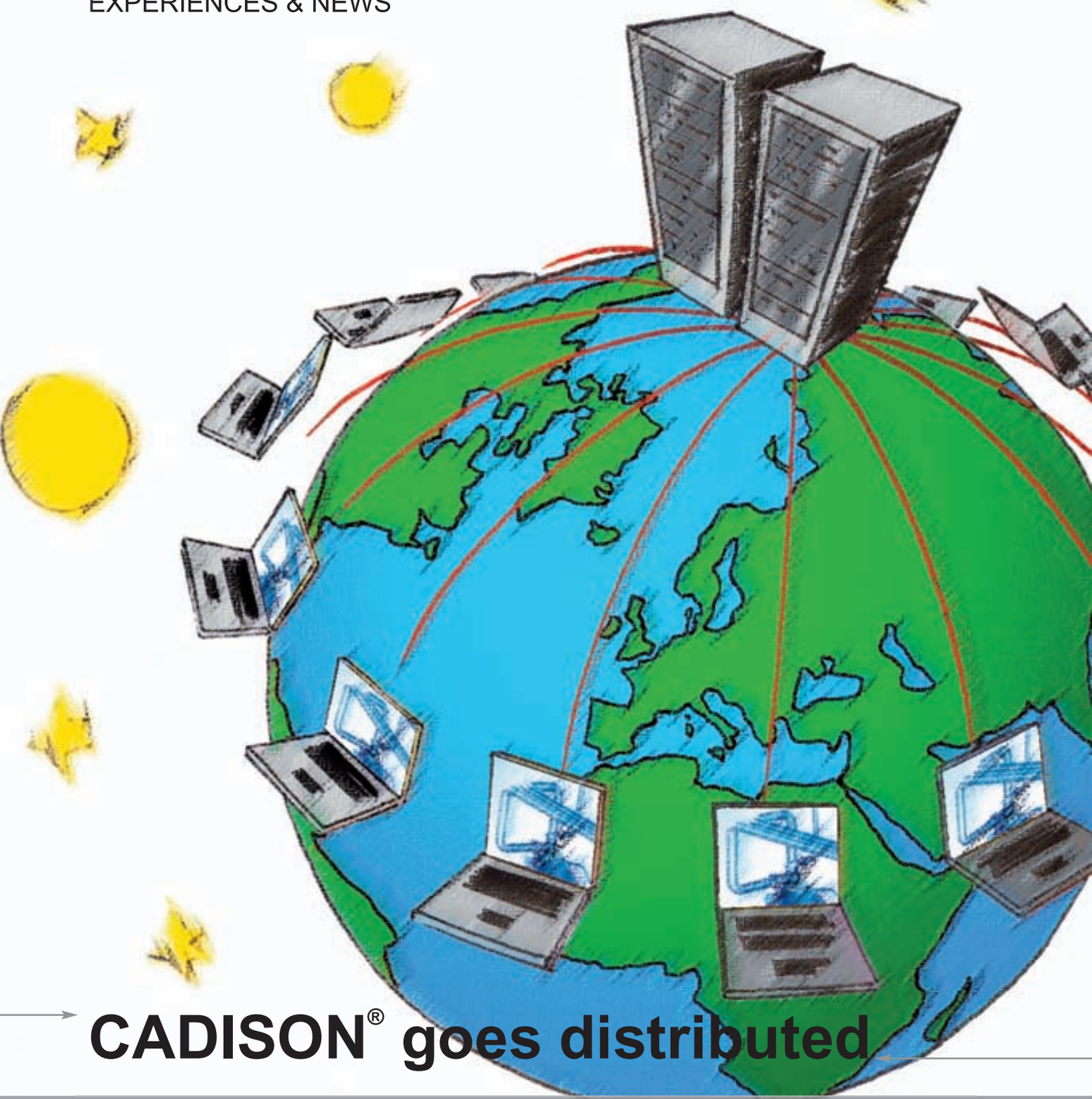
Issue 2011 | 2

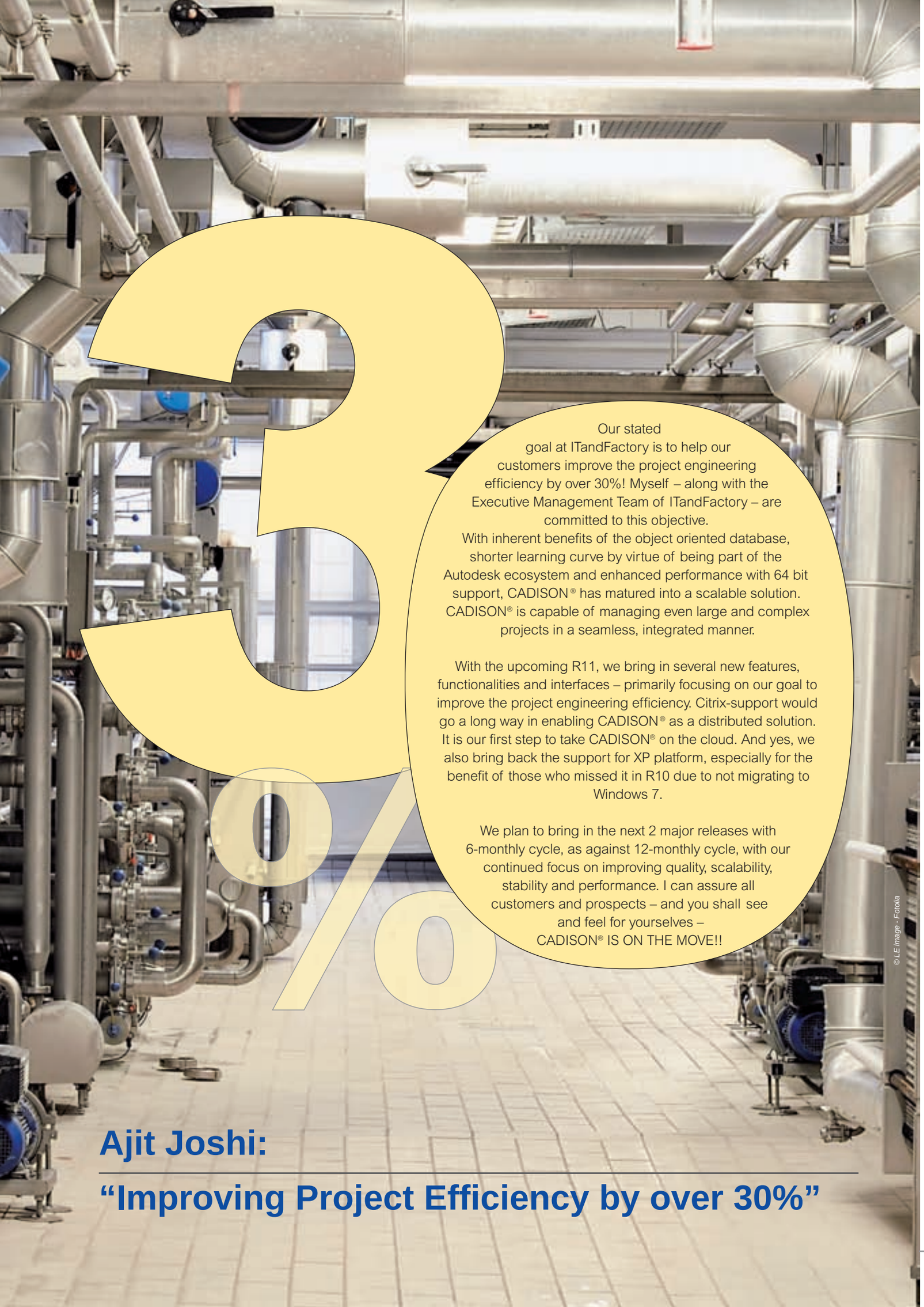
CADISON WORLD

EXPERIENCES & NEWS



CADISON® goes distributed

CADISON® has tremendous opportunities to gain market share
11 important Reasons for CADISON® R11



Our stated goal at ITandFactory is to help our customers improve the project engineering efficiency by over 30%! Myself – along with the Executive Management Team of ITandFactory – are committed to this objective.
With inherent benefits of the object oriented database, shorter learning curve by virtue of being part of the Autodesk ecosystem and enhanced performance with 64 bit support, CADISON® has matured into a scalable solution. CADISON® is capable of managing even large and complex projects in a seamless, integrated manner.

With the upcoming R11, we bring in several new features, functionalities and interfaces – primarily focusing on our goal to improve the project engineering efficiency. Citrix-support would go a long way in enabling CADISON® as a distributed solution. It is our first step to take CADISON® on the cloud. And yes, we also bring back the support for XP platform, especially for the benefit of those who missed it in R10 due to not migrating to Windows 7.

We plan to bring in the next 2 major releases with 6-monthly cycle, as against 12-monthly cycle, with our continued focus on improving quality, scalability, stability and performance. I can assure all customers and prospects – and you shall see and feel for yourselves – CADISON® IS ON THE MOVE!!

Ajit Joshi:

“Improving Project Efficiency by over 30%”

We want to bet with you that even your company is able to reach "30% efficiency improvement" through the use of CADISON®.

Welcome

In case you visited this year's CADISON® International Conference 2011, you certainly won't be ready to make this bet any more …

Many wishes and requests of our customers from recent events have been put into practice in the meantime. Distributed work, or "CADISON® goes distributed", is no longer the desire. But – thanks to Citrix-technology – put into practice today. You'll find more details in this publication.

Since July this year ITandFactory is working under new management. The Executive Management Team (EMT) – consisting of the gentlemen Michael Brückner, Sebastian Dörr, Stefan Kraus, Ralf Lehmann and Boris Mebarek work hand in glove with the new Managing Director Mr. Ajit Joshi to determine the company's fortune. This team encompasses the relevant disciplines of Development, Service, Sales and Marketing – use "your contact person" for evaluation of your needs. We want to give our thanks to the former managing directors Georg Kremer and Hans Ekdahl for their work in the recent years and to wish them all the best for their future.

CADISON® R11 is a new milestone in the development of CADISON®: Inch-Support, many extensions in Electrical Designer, further features for Inventor-Interface, Safety Conception Step 2, Integration of new AutoCAD-Features, CAESAR II Interface, new Engineer2Web and many other items. And one important message for many users: XP is back again! … what are you still waiting for?

"Follow the footprint of our customer" is the slogan for more intensive international orientation of ITandFactory – with the new team and in cooperation with Neilsoft. How can we give you the support you need?

Enjoy reading CADISON WORLD!

Sebastian Dörr – Vice President Sales Europe

EDITORIAL

NEWS

INTERVIEW

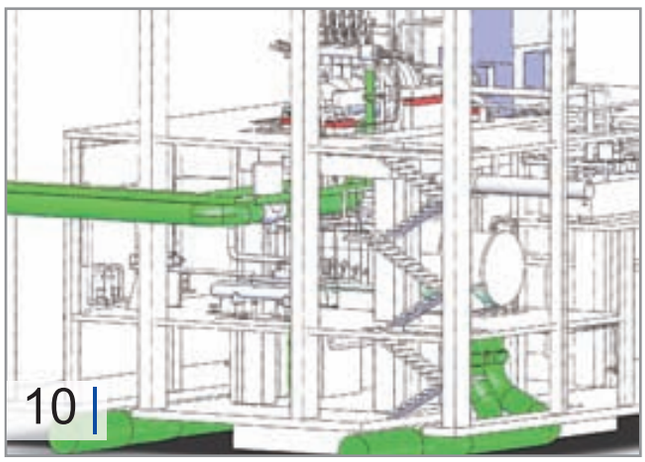
SUCCESS

PRODUCT

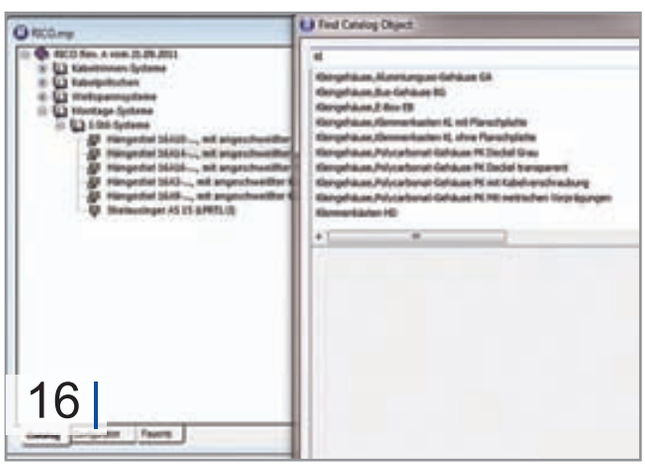
BEST PRACTICE

EVENT

SERVICE



“Turbo-Engineering” saves times and costs
TMS Turbomaschinenservice GmbH plans new steam turbines and inspection work with the engineering tool CADISON®.



11 important Reasons for CADISON® Release 11
R11 Roll-Out: 1. December 2011 – Mark your calendar and make an appointment for upgrading to R11!

CADISON® Best Practice – “Praxis-Workshop 2011”:
A Successful Story with Perspective

“We have tremendous opportunities to gain market share!”

Newly appointed Managing Director of ITandFactory GmbH, Ajit Joshi, answers to the question of the editorial board of Economic Engineering

Mr. Joshi, congratulations on the new position! With what ideas do you approach the new business?

What attracted me to Neilsoft and ITandFactory was the product suite of CADISON® and its potential to enhance customer’s engineering project efficiency by at least 30%. In my former employments, I had designed a plant, had written software for plant design, had automated such planning processes and integrated with PLM. Our vision for CADISON® is to create and deliver the best integrated plant engineering solution & services to help our customers improve their project planning, investment optimization, risk management, project completion speed and energy efficiency of the plants.

Can we take some of the learning’s from the PLM vendors serving the discrete manufacturing industry or the ERP solutions providers?

Surely. CADISON® combines the engineering workflow into the single system and thus significantly accelerates the planning processes. The common object-oriented data model for the different fields of application (tender planning, process engineering, installation planning, pipeline planning, electrical engineering, instrumentation etc.) makes it possible to integrate all planning phases so that time and costs are saved. With CADISON®’s modularity and reusability, we are able to significantly reduce the cost of plant design, modifications and maintenance.

I assume after your inauguration you discussed the objectives with the joint venture partner Triplan. To which conclusion you came?

Our both shareholders have a very strong engineering legacy and have been providing a tremendous support to grow CADISON® into a global solution. Secondly we are fast becoming a complete integrated engineering solution provider while our competition is only pushing boxes.

Where do you see room for improvement of CADISON®?

We have to increase the global impact of this product. Up to now we have established a strong presence in the DACH region, with 300+ active customers and 6500+ licenses. Our next goal is to expand into Emerging markets like India as well as other matured markets of USA and other European countries. Also keep in mind that most of our customers are also moving globally and with Neilsoft’s international footprint, we are able to help them make this transformation in a smooth manner.

Since you have very ambitious plans: Can you provide the needed R&D resources?

Absolutely and in fact we have already worked out an accelerated product development plan with 6-monthly major releases for next 3 cycles! To further improve efficiency for our customers, we are now also providing segment specific customized solutions to meet our customer’s standardization and design automation goals.

Good luck! Let us switch to a more technical issue: Since CADISON® is running on to top of AutoCAD, ITandFactory doesn’t deliver an own geometry engine. You can say to some extend this is a lack in the portfolio. Do you agree?

We don’t want to invest in building our own 3D kernel and that’s not our business! Our strategy is very clear: we are an innovative engineering oriented solution and not CAD driven. Having said that, even today CADISON® is the best plant design solution on the AutoCAD platform and we want to integrate even more tightly into the Autodesk ecosystem. For example, CADISON® is very tightly connected to Inventor, Autodesk’s other 3D CAD product.

And we have started to integrate Revit which is addressing the AEC and BIM market. And again the question remains: Why should we push our customers to go away from AutoCAD when they have already invested in it? It is the most widely used CAD platform and in fact our customers love the fact, that it’s much easier for their existing AutoCAD users to learn CADISON®.

Okay, that sounds convincing. What is your recommendation for document handling? E.g. in the case of a multi-site infrastructure?

I would like to answer this question in two parts: CADISON® provides an excellent document, revision, workflow and change management capability. We also provide integrations to other document management systems (DMS). Our many large customers have already deployed DMS and we optimize their resources by delivering a tight integration.

The second part of the answer: We want to make sure to build a solid project engineering and project management

layer which contains comprehensive project communication, tracking and productivity measurement capabilities.

As regards to multi-site, CADISON® Engineer2web solution provides direct web access to the CADISON® object data and structures, which can be viewed or edited using a simple web browser. We're also moving to support CADISON® on Citrix platform. Additionally, we have started a couple of pilots to move CADISON® solution on the cloud. In short, a lot of progress is happening with respect to concurrent usage of CADISON®.

What is your strategy for ERP integration?

CADISON® is a comprehensive integrated engineering tool that provides a central database solution to improve inter-disciplinary workflows, produces updated parts list for the company's ERP system and uses existing AutoCAD investments. We have a lot of customers working with enterprise ERP systems like SAP, Navision, Movex or Infor. Most of our customers decide to have all the information inside the CADISON® Project Engineer database in order to have only one front-end to the project engineers. So, for the project engineering, CADISON® is the leading system exchanging data with the ERP system for the engineers.

Thank you for your statements!

Interview: Bernhard D. Valnion,
Editor in Chief of Economic Engineering

CADISON® R11.0 – Secondary Pipe Supports

Pipe supports are critical in overall piping design and detailing in process plant. In general pipe support consists of primary and secondary support. Primary or standard supports are the specialized items bought out from manufacturers and are mainly governed by pipe specifications & stress analysis.

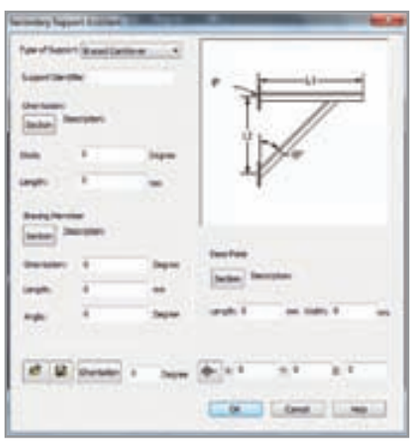
Secondary supports are supporting structures for these standard supports. These are also equally significant, especially in large plants considering activities involved in its fabrication, procurement of material and tracking throughout the plant. Along with pipes, these secondary supports are used for cable trays and ducting supports as well.

Starting with CADISON® R11 secondary support modeler functionality will be available to make handling of secondary supports easier and seamlessly integrated into CADISON® 3D Designer workflows.

Some of the salient features are:

- Intuitive user interface to help user in creating different types of secondary support assemblies. User can also modify the existing assemblies by editing them in-place, and save the configuration of support assembly for repeated future use.
- New CADISON® object type is created for secondary support assembly. This will help in customized reporting & tagging of these assemblies in CADISON® project.
- Assemblies will use structural profiles from MATPIPE catalog – hence can be used with any International structural profiles.
- All commonly used support assembly configuration are allowed.
- Support assemblies are automatically linked to related standard supports. This will help in easier tracking and possible indication in isometric drawing.
- Customized bill of material report can be generated based on structural profiles and plates used in support assemblies. This will not only help in procurement but also in bulk fabrication.

Secondary support modeler functionality will help in substantially improving the productivity by removing any need of using Xref of third party or plain AutoCAD drawings and manual work involved in tracking & linking to standard supports in CADISON®.



Preview to CADISON® R12

Support modeler for assembly of standard support components of fixed and flexible sizes.

New CADISON® Partner in Israel

At the beginning of the year, ITandFactory concluded a partnership with the Israeli company YoArtVision. It is a leading project management company in the energy, security, healthcare and real estate sectors. They are our exclusive Sales-Channel for CADISON® in Israel.
In May this year the introductory training for this new CADISON® distributor took exclusively place in Switzerland. Currently, the first test installations and benchmarks with potential customers are underway. Results are promising and YoArtVision expects the first contract conclusions by the end of this year.
The company has been successfully active in the field of engineering for many years and has the required knowledge not only for marketing of CADISON® but also for acting as Service Provider. They offers all essential services around CADISON®.

YOArtVision Engineering Ltd.

"CADISON® has convinced me from the very beginning and I expect a great potential for the future", said Mr. Yoav Reuven, Managing Director of YoArtVision during the period of introductory training.
The overall service package of ITandFactory ensures the successful start-up of this new partner.

"We appreciate this partnership for the development of new potentials for our CAE solution CADISON® in cooperation with the services rendered by Neilsoft", said Mr. Ralf Lehmann, Vice President Sales Europe.

CADISON® goes distributed!

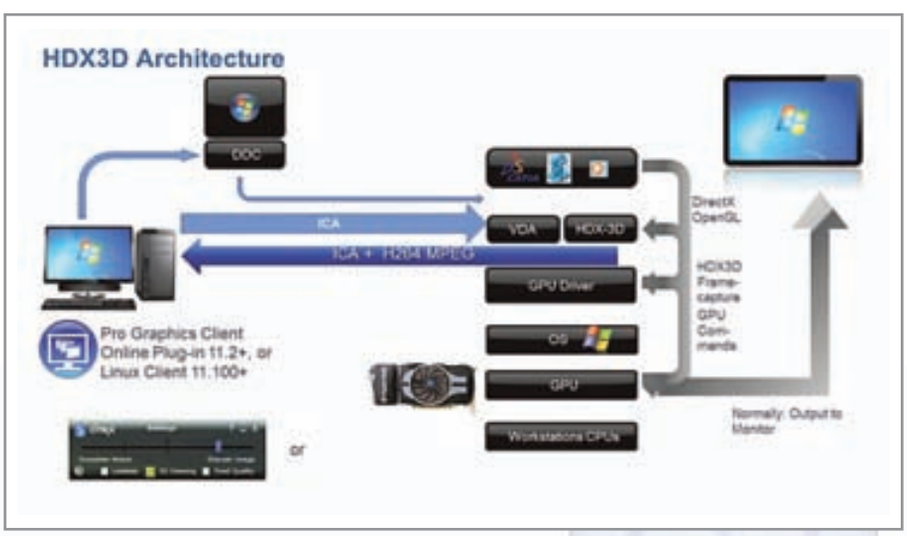
CAD without Workstation – only a dream for companies?

Wordwide access to your infrastructure

Structures in business world are getting more flexible – and this statement is even applicable to IT divisions. Scenarios are changing more frequently, e.g. as a result of purchases, going public or global expansion of companies. Infrastructure must be adapted to those new requirements for instance, international trusts are faced with the challenge to provide employees the rapid and unrestricted access to their infrastructure. In case of cooperation, the external employees need access to network parts which may be very urgent; and persons may be rapidly exchanged according to the project.

The administration effort may become problematic very quickly, especially in cases where infrastructure is de-central. In this model each branch has its own server, even the smallest branch, and all employees have a so-called Fat Client, i.e. a fully equipped computer where all applications necessary for the employee are locally installed. All these units need on-site maintenance. Administrators make the updates frequently on each individual computer – the notorious "sneaker administration" is enormously intensive in both the time and costs aspect.

"In principle we try to keep current administration expenses as low as possible and therefore have been using Citrix technologies for many years to provide applications" says Michael Paga, IT manager at Intensiv-Filter.



Optional terminal unit with Citrix XenApp Serverfarm

This effort should be reduced to the lowest possible level without excessively limiting the IT. To this end the companies concentrate their efforts on centralized infrastructure – all essential data and applications are concentrated in one computer centre, for instance in one Citrix XenApp serverfarm. Thus own servers or even distributed computer centres in branch offices are no longer required. The Desktop-Virtualization plays an important role:

This technology makes it possible to operate even individual workplaces on the servers instead of local computers. The workplace is now only equipped with one optional terminal unit with internet connection – almost everything is possible here from conventional PC's and laptops up to tablets and smartphones. This makes administration much easier since all maintenance work can be performed in the computer centre saving on both time and cost. Moreover, it is sufficient to provide only a few installations of relevant applications from a central place so that license fees are drastically reduced.

Concrete security advantages can be added: Applications and data deposited in a central location can be much easier protected against loss or unauthorized access.

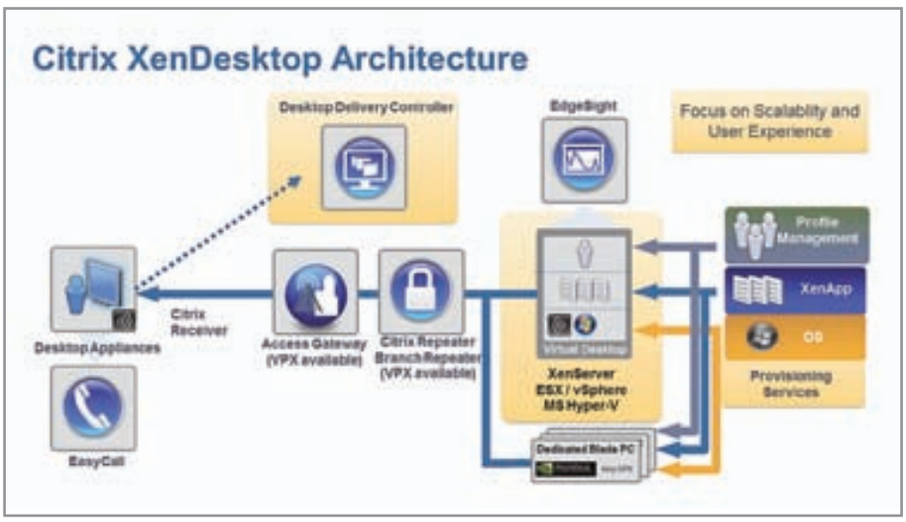
Key factor: User friendliness

Employees may fully profit from the many advantages of this technology, provided advantages are easy to use without impeding the workflow. User-friendliness is an important key word in this respect: Users want to work with their terminal units in the virtualized environment with the same speed and performance known from locally installed applications on traditional PC's. In the ideal case they will feel no difference. The scope of performances handled in conventional office applications with relatively low service requirements, and without any larger problems, frequently reaches its limits in case of multimedia contents.

This is especially applicable to design environment: CAD applications with complex 2D and 3D presentation call for high-performance workstations. Apart from user friendliness the productivity of design engineers is the decisive factor in this case: If the application in the virtualized environment cannot work fluently, progress of projects is delayed and –

"With it we can provide complete CAD workplaces via standard DSL connections at any location. At the same time, we have complete control in the data center over the developer desktops and are in a position to execute all administrative activities very efficiently."

under extreme conditions – even the success of the project may be in doubt. Therefore, the companies hesitate until now to use the Desktop Virtualization in this specific field.



Virtual CAD workplaces – HDX3D makes it possible

The HDX3D Technology of XenDesktop offers Citrix the chance to use the advantages of virtualization so that centralized work is possible – even in the field of CAD design. The dedicated "Graphic-Server" (Blade PC) in the computer centre replaces the local workstation. This computer has sufficient processor capacity and specific graphic configuration that offer even the required hardware acceleration. For instance, performance is increased by means of Compute Unified Device Architecture (CUDA). This system outsources workload originally processed only by CPU partially at the graphic processor and thus data is calculated much quicker.

The connection to users' hardware is established via the ICA-Protocol (Citrix **I**ndependent **C**omputing **A**rchitecture). The terminal unit of design engineers is used only for current screen content and for exchange of mouse and keyboard entries. The different components of HDX technology ensure that the user working in this virtual model can work rapidly and with comfort like in an on-site installed special workstation. Latencies (delay times) in the network are compensated in the same way like possible bottlenecks in the bandwidth. However, certain minimum requirements should be met: The Wide Area Network (WAN) shall provide a bandwidth of 2 to 5 megabits, and the latency should not exceed 100 to 150 milliseconds.

"We used to have to estimate total costs of 28,000 Euro for a single new developer workplace. Through the use of XenDesktop these costs are reduced to a fraction" says Paga. "With this solution, however, we are not only saving money but are especially gaining flexibility: in the future we will be able to temporarily involve external developers without having to be concerned about the security of our data."

Safe and low-cost substitute for workstations

The de-centralized infrastructure in conjunction with Desktop Virtualization allows companies to rapidly and easily provide fully equipped CAD workplaces in any optional locations. Only the internet connection is required.

Thus, the companies may avoid a number of problems known from use of locally installed workstations. This is even applicable in case of a defective terminal unit. The user can easily change over to another Desktop-PC or Laptop and continue its work without any interruption. These Terminal Units can be replaced much easier and quicker than special hardware. Another cost advantage becomes evident: In case of the traditional approach the price for one fully equipped CAD workplace may easily exceed the limit of a few ten thousands of Euros. Use of standard servers in the computer centre in combination with slim client units on user's side is much cheaper. This saving potential can be even improved for international trusts when employees are operating in different time zones. These employees may jointly use one physical Graphic Server since they will have access at different times. In case external employees are added – e.g. for a time-limited project – they will be integrated very rapidly as well so that they can work productively after a very short period of time. The responsible executives need no longer care for confidential product details and internal information:

"On the one hand, the running administration expense rose very quickly – software updates and patches had to be installed on each individual end device. On the other hand, there are also security aspects" says Paga. "Protection of sensitive design data has the highest priority here but is not that easy to implement in a distributed client architecture."

Applications are handled centrically and data remains within the computer centre; no data transfer takes place.

The advantages of Desktop Virtualization are remarkable. Companies are able to operate a flexible and safe IT Infrastructure at reasonable expenses. Even in the complex CAD environment – due to its problematic and extremely demanding character – the virtual workplaces are no longer illusionary: With technologies like HDX from Citrix the virtual workplaces will reach domains in which their use was unimaginable before.

Quotations abstracted from article: Intensiv-Filter virtualizes CAD workstations globally with XenDesktop; Michael Paga is IT Manager at Intensiv-Filter GmbH & Co. KG, headquarter in Velbert, Germany

“Turbo-Engineering” saves times and costs

TMS Turbomaschinenservice GmbH plans new steam turbines and inspection work with the engineering tool CADISON®. If the pipeline planning for a steam turbine requires with the help of a 3D model – compared to conventional 2D-planning – only 10 percent of the time, you can certainly speak of a “Turbo-Engineering”!

How has the Austrian TMS Turbomaschinenservice GmbH – the experts in the area of steam- and gas turbines – achieved this goal? Through the use of the engineering tool CADISON® and while developing a high degree of standardization with a variety of pipe classes. The quality – or in other words: the efficiency and with this the energy efficiency – of a technically very complex steam turbine, depends heavily on the expertise of designers, the smallest possible component tolerances in production and the goodness of the highly contaminated materials.

Providing high quality equipment is not solely the domain of large companies! While complementing the expertise of partner companies and harmonize working methods and business philosophies, also the smaller community providers can deliver high-quality at relatively modest cost.

TMS is an example for that. The staff working there plan and take over turbo-machine revisions. The services range from identification of the machine condition and repairs to the production and delivery of spare parts, but also rebuilding the hydraulically controlled machines to modern electronics on-line machine diagnosis and increasing machine-efficiency.

„We save 90 % of time against pure AutoCAD“
says Franz Sattler, Managing Director TMS

For the partner and co-owner General Turbo SA Bukarest, the TMS engineering office plans new combined cycle plants. On this basis, the manufacturing is then done by General Turbo. The results speak for themselves such as TMS CEO Franz Sattler says: “Compared to major vendors offering a complete machine range to the highest power ratings – like Siemens, Alstom, MAN – and compared to the low-cost providers, we score with two main advantages: Our turbo machinery achieve the high efficiency of large corporations but are considerably less expensive.”

General Turbo and TMS aggregates are used in the industry (often as co-generation plants for combined generation of heat and electricity), as well as in municipalities (district heating, biomass heating plants, incinerators). Orders for new machines in the range 15 to 17 MW for example are coming from the sugar, the petrochemical and paper processing industry.

Complete Basic and Detail Engineering

The TMS-planners in the Vienna office are completely responsible for the orders of the entire basic and detail engineering. The engineering part includes both, the mechanical and technical part and the plant design i.e. the integration of the steam turbine plant in the peripheral equipment (supply and disposal of various media).

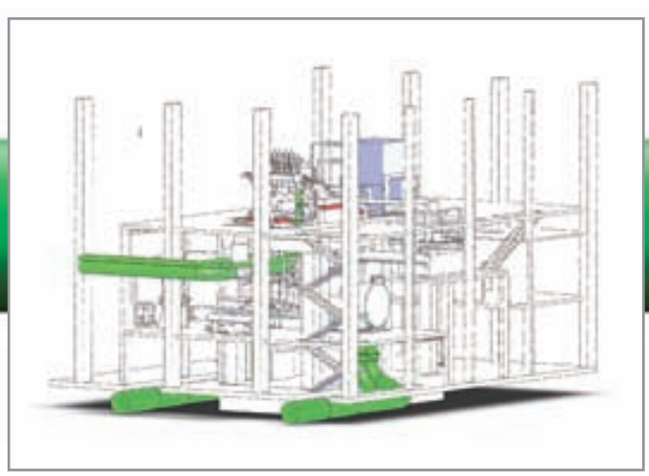
The planners are working with different tools:

- for the mechanical machine design - the turbine itself - TMS uses the planning tool SolidWorks
- for the process- and layout-design, the piping- and installation-planning of the individual machines, aggregates and components is done with the engineering tool CADISON®

The level of detail of the machine design is very high (3000-4000 hours of engineering!) The integration of the high level of detail is not required for the piping plan, only the outline (reduced level of detail) of the machine and the connection points of the piping is needed.

Object-oriented System Design

What make CADISON® in a special way as the tool differs from other planning tools? CADISON® was designed as an object-oriented database-driven engineering solution and not as a purely CAD tool! With the integrated database, all project data are automatic and immediately available in the various



mit CADISON®: 1 Jahr

[Schneller am Markt: cadison.com]

Juli	August	September	Oktober	November	Dezember	Januar 2013
1 So	1 Mi Nationalfeiertag (CH)	1 Sa	1 Mo	1 Do Allerheiligen (A)	1 Sa	1 Di Neujahr
2 Mo	2 Do 31	2 So	2 Di	2 Fr 44	2 So	2 Mi 1
3 Di	3 Fr	3 Mo	3 Mi Tag der Dt. Einheit (D)	3 Sa	3 Mo	3 Do
4 Mi 27	4 Sa	4 Di	4 Do 40	4 So	4 Di	4 Fr
5 Do	5 So	5 Mi 36	5 Fr	5 Mo	5 Mi 49	5 Sa
6 Fr	6 Mo	6 Do	6 Sa	6 Di	6 Do	6 So Heilige Drei Könige (A)
7 Sa	7 Di	7 Fr	7 So	7 Mi 45	7 Fr	7 Mo
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Integrated Digital Plant Model CADISON®

Coal-mine Zollverein in Essen 1928 - 1932

without CADISON®: 4 years

December 2011	January	February	March	April	May	June
1 Thu 48	1 Sun New Year's Day	1 Wed 5	1 Thu 9	1 Sun	1 Tue	1 Fri
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6 Tue	6 Fri	6 Mon	6 Tue	6 Fri Good Friday	6 Sun	6 Wed 23
7 Wed 49	7 Sat	7 Tue	7 Wed 10	7 Sat	7 Mon	7 Thu
8 Thu	8 Sun	8 Wed 6	8 Thu	8 Sun Easter	8 Tue	8 Fri
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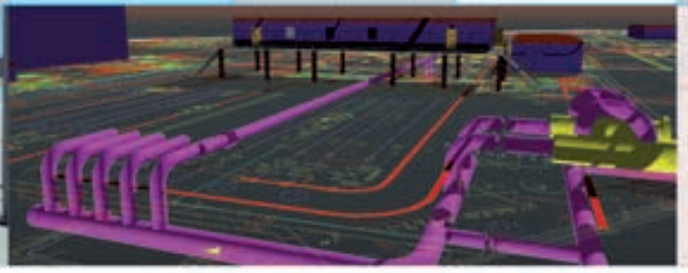

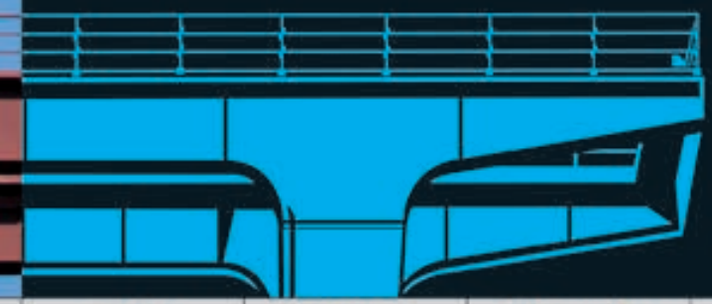

with CADISON®: 1 year

[faster to market: cadison.com]

	July	August	September	October	November	December	January 2013
	1 Sun	1 Wed 31	1 Sat	1 Mon	1 Thu 44	1 Sat	1 Tue New Year's Day
	2 Mon	2 Thu	2 Sun	2 Tue	2 Fri	2 Sun	2 Wed 1
	3 Tue	3 Fri	3 Mon	3 Wed 40	3 Sat	3 Mon	3 Thu
	4 Wed 27	4 Sat	4 Tue	4 Thu	4 Sun	4 Tue	4 Fri
	5 Thu	5 Sun	5 Wed 36	5 Fri	5 Mon	5 Wed 49	5 Sat
	6 Fri	6 Mon	6 Thu	6 Sat	6 Tue	6 Thu	6 Sun
	7 Sat	7 Tue	7 Fri	7 Sun	7 Wed 45	7 Fri	7 Mon
	8 Sun	8 Wed 32	8 Sat	8 Mon	8 Thu	8 Sat	8 Tue
	9 Mon	9 Thu	9 Sun	9 Tue	9 Fri	9 Sun	9 Wed 2
	10 Tue	10 Fri	10 Mon	10 Wed 41	10 Sat	10 Mon	10 Thu
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	19 Thu	19 Sun	19 Wed 38	19 Fri	19 Mon	19 Wed 51	19 Sat
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	25 Wed 30	25 Sat	25 Tue	25 Thu	25 Sun	25 Tue Christmas Day	25 Fri
	26 Thu	26 Sun	26 Wed 39	26 Fri	26 Mon	26 Wed Boxing Day 52	26 Sat
	27 Fri	27 Mon	27 Thu CADISON International Conference	27 Sat	27 Tue	27 Thu	27 Sun
	28 Sat	28 Tue	28 Fri	28 Sun	28 Wed 48	28 Fri	28 Mon
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	31 Tue	31 Fri		31 Wed		31 Mon	31 Thu

012

Integrated Digital Plant Model CADISON®

Zeche Zollverein in Essen 1928 - 1932

ohne CADISON®: 4 Jahre

Dezember 2011	Januar	Februar	März	April	Mai	Juni
1 Do 48	1 So Neujahr	1 Mi 5	1 Do 9	1 So	1 Di Tag der Arbeit (D/CH) Staatsfeiertag (A)	1 Fr
2 Fr	2 Mo	2 Do	2 Fr	2 Mo	2 Mi 18	2 Sa
3 Sa	3 Di	3 Fr	3 Sa	3 Di	3 Do	3 So
4 So	4 Mi 1	4 Sa	4 So	4 Mi 14	4 Fr	4 Mo
5 Mo	5 Do	5 So	5 Mo	5 Do	5 Sa	5 Di
6 Di	6 Fr Heilige Drei Könige (A)	6 Mo	6 Di	6 Fr Karfreitag (D/CH)	6 So	6 Mi 23
7 Mi 49	7 Sa	7 Di	7 Mi 10	7 Sa	7 Mo	7 Do Fronleichnam (A)
8 Do Mariä Empfängnis (A)	8 So	8 Mi 6	8 Do	8 So	8 Di	8 Fr
9 Fr	9 Mo	9 Do	9 Fr	9 Mo Ostermontag	9 Mi 19	9 Sa
10 Sa	10 Di	10 Fr	10 Sa	10 Di	10 Do	10 So
11 So	11 Mi 2	11 Sa	11 So	11 Mi 15	11 Fr	11 Mo
12 Mo	12 Do	12 So	12 Mo	12 Do	12 Sa	12 Di
13 Di	13 Fr	13 Mo	13 Di	13 Fr	13 So	13 Mi 24
14 Mi 50	14 Sa	14 Di	14 Mi 11	14 Sa	14 Mo	14 Do
15 Do	15 So	15 Mi 7	15 Do	15 So	15 Di	15 Fr
16 Fr	16 Mo	16 Do	16 Fr	16 Mo	16 Mi 20	16 Sa
17 Sa	17 Di	17 Fr	17 Sa	17 Di	17 Do Christi Himmelfahrt (D/A) Auffahrt (CH)	17 So
18 So	18 Mi 3	18 Sa	18 So	18 Mi 16	18 Fr	18 Mo
19 Mo	19 Do	19 So	19 Mo	19 Do	19 Sa	19 Di
20 Di	20 Fr	20 Mo	20 Di	20 Fr	20 So	20 Mi 25
21 Mi 51	21 Sa	21 Di	21 Mi 12	21 Sa	21 Mo	21 Do
22 Do	22 So	22 Mi 8	22 Do	22 So	22 Di	22 Fr
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27 Di	27 Fr	27 Mo	27 Di	27 Fr	27 So	27 Mi 26
28 Mi 52	28 Sa	28 Di	28 Mi 13	28 Sa	28 Mo Pfingstmontag	28 Do
29 Do	29 So	29 Mi	29 Do	29 So	29 Di	29 Fr
30 Fr	30 Mo		30 Fr	30 Mo	30 Mi 22	30 Sa
31 Sa	31 Di		31 Sa		31 Do	

The main advantages in the planning with the 3D solution CADISON®:

- the whole process from planning to installation of a system has become much faster and more transparent, especially in the literal sense
- changes are significantly quicker to implement
- the tool reliably manage very large amounts of data
- the planning effort for new facilities has dropped significantly

modules such as P&ID, 3D piping layout, isometric generation, automatic report generation etc. With the object-oriented data model it is possible, to integrate all phases of planning in one database - thus saving time and money. And it does not matter whether the project will start with technological engineering data or graphical data.

Each component of the machine is stored in the database and is accessed by users in the planning stages from there. This begins with the proposal, but does not end with the documentation. A component will be specified in the planning process more precisely, receives their media information, etc. – everything happens in the database. Stored associated information are always the same for each user in every module.

Standardization reduces the programming effort

Why was the choice at TMS for CADISON®?

"We wanted a system that allows us to plan all type of piping and where we get quick results. With CADISON® we have from scheme up to the material extract an integrated solution – and that saves us a lot of planning time"

A lot of work was spent for the standardization of modules and the introduction of different pipe classes – where they now benefit from.

"Because our equipment always has repetitive elements and changes from project to project are relatively low, the engineering tool CADISON® is for us the perfect solution."

Backgrounds: While planning steam turbines, five different 3D-patterns have to be planned: These are the pipes for the condensate cooling water, oil, steam and drainage. These supply – and waste-lines are part of every steam turbine and must always be re-designed new – changing only details of the planning but not its fundamental structure. This means, that a once proposed drainage pipe can be used again from one machine to another, just changing dimensions (for example, rather than DN 100, DN 300) and of course the geometric position. The TMS engineers can thus take over from previous projects to adapt the design and parts.

Sattler: "We have standardized these recurring design elements putting them into base modules with a maximum of options - and strike off the unnecessary pieces. Deleting is always easier and faster than adding! This works moreover for the offer text: the approximately 100-page document is base for the specific project-offer and stripped to e.g. only 30 pages.

"We need only about 10 percent of the time compared to a pure example AutoCAD 2D design" says Sattler. His conclusion is unequivocal: **"A 2D schematic drawing is compared with a 3D model CADISON® Stone Age!"**

Business Benefits:

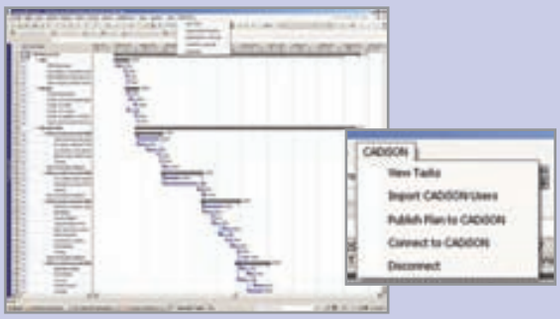
- CADISON® offers advantages over 2D AutoCAD with savings on a level of approximately 1:10!
- MATPIPE – the catalog-system – efficiently manages standard components and pipe classes
- CADISON® provides an integrated solution from the scheme to material extract
- CADISON® is easy to learn and provides fast results

11 for 11 –

11 important Reasons for CADISON® Release 11

Timesheet for Project-Management

Link CADISON® with Microsoft Project for defining project plan. Tasks and Resources will be handled inside CADISON®, but could be synchronized with Microsoft Project for Project Managers without CADISON® Know-how.



Timesheet visualize the current project state in CADISON®.

Secondary Pipe Support

Assistant for creating and editing secondary pipe support. Can be used for the construction of steal beam support for pipe lines, duct lines and cable trays.

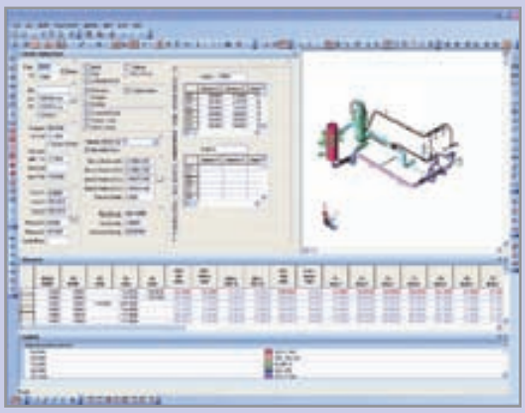
Many improvements and extentions for PID-Designer for Visio

Improved DWG export function in PID-Designer for Visio: getting better results when exporting a “Visio drawing” to AutoCAD DWG file format.

Improved Symbol Editor: better handling of drawing borders and title blocks, improvements in many functions.

CAESAR II Interface

Different markets works with different stress-test tools.



Beside ROHR2 wie provide with CADISON® R11 a second stress-test tool.

Edit function for Vessels created by Vessel Assistant

Vessels which have been created by Vessel Assistant could now be edited afterwards with the same.

Inch support

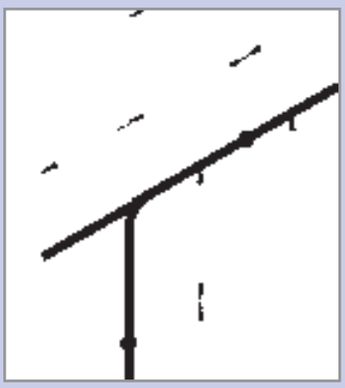
CADISON® 3D-Designer now supports environments with imperial units (inch support). User can now plan and design, but also store objects within catalogs in inch.

Windows XP-Support:
Windows XP is back again. CADISON® R11 now supports Windows XP.

No more reason to refuse update to CADISON® R11!

Many improvements for Isogen Interface

Many enhancements have been done for the CADISON® Isogen Interface. Especially the handling of bended pipes and outlets have been improved.



Dynamic Properties in CADISON® object model

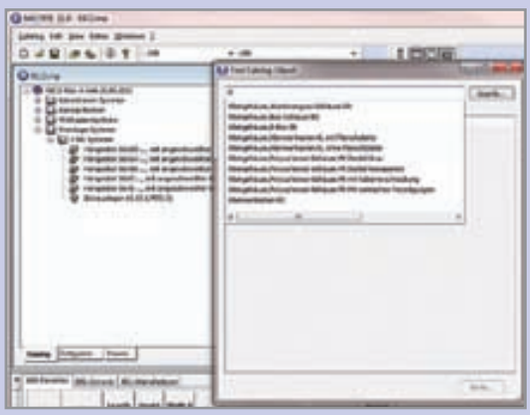
You can define dynamic properties in the CADISON® object model. Depending on specific object-criteria's, other objects will be shown or hidden.

Improved 2D-Extraction

The 2D-Extraction now supports the representation of hidden lines in the 2D output.

Enhanced search function in MATPIPE and Selector

The search functions in MATPIPE and Selector has been improved. All inputs from customers found the way into the software.



Enhanced PDF Exporter

The quality of PDF files created by CADISON® PDF exporter has been improved. For example, PDF's created out of CADISON® can now contain real and searchable text objects but also layer information (switch on/off in PDF-view).

milk pasteurisation plant 25.000 l/h by GEA Westfalia Separator Group GmbH

DWG-Exporter for Visio

With R11 you'll get some additional improvements over the R10.1 with the exporter itself:

- Better transmission with letterings
- Consideration of spline-geometrics – e.g. flexible tubes
- Consideration of grid pattern
- Many improvements and enhancements within the new symbol-editor
  - Order of the labeling now adjustable
  - Font and size are now customizable
  - Text-screens are now presentable as symbol
- Dialogbox for dessignation of objects
  - Extended for editing free text as label
- New "Save as" dialog for saving a duplicate
- Enhancement in the positioning and presenting of revision-tables

CADISON® Hotline starts in India

The new CADISON® Hotline Team for India is operating from the Neilsoft Office in Bangalore and is directly connected to the ITandFactory-Headquarter in Bad Soden, Germany.

The Hotline Team is working since 3 years with CADISON®. The team has got a 10-day hotline training in Germany, which finished with an examination. They acquired the needed hotline knowledge and established the hotline workflow together with the Head of Customer Services, Boris Mebarek.

They will follow the same rules, share the centralized support database in Germany and also work with virtual machines to simulate customer environments.

The CADISON® Hotline India has been started on 15 September with support of some Indian customers. The official announcement will be the Diwali-Day at 26 October 2011. Full operation will start 01 January 2012 – including worldwide additional support.

CADISON® Hotline Team India:
Srinivas.S (Neilsoft), Gangadhar Gupta (Neilsoft), Michael Brückner – Director and Head of Team (ITandFactory)

CADISON® Online –
Integrated Digital Plant Model in the Web 2.0

Recently, a new platform has been created, and is available to all prospects interested in CADISON® under the address www.CADISON-Online.com
Till the end of this year the portal will be also available in English and Russian.

www.CADISON-Online.com

You can now familiarize yourself with the advantages of CADISON® at your own workplace free from stress and study the screencasts and explanatory texts.

ITandFactory as a Solution Provider has suitably pre-defined the work steps of the "Integrated Digital Workflow" for you. Now you can either enjoy the presentation of all single operations like basic flow chart, lists + suppliers, layout planning, pipeline planning etc. completely and one after the other, or you can pick out individual work steps selectively from the survey.

Of course, you will also get individual work steps explained in detail specifically for the scope of duties of Engineering Consultant, Engineering Procurement Construction (EPC) and Owner & Operator (OO).

Example for Owner & Operator is shown below:

If you decide on one work step – resource planning in this case:

… you will find on the left side the "Job Definition" as well as the "Advantages & Potentials."

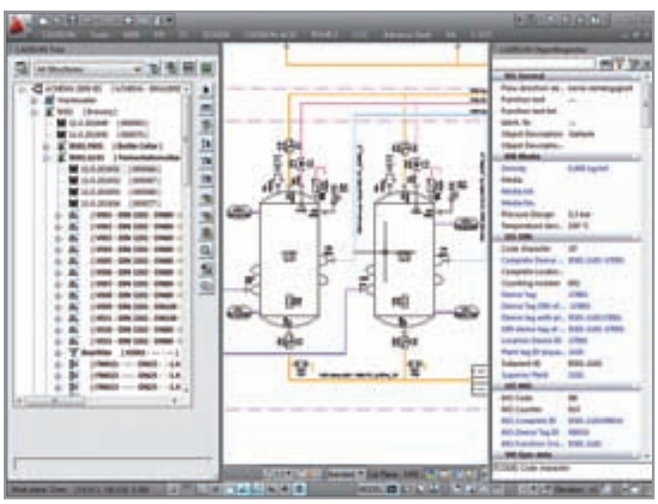
Press the "Play-Button" and watch your selected work step.

The "navigation-arrows" in the upper range helps to navigate to the next or previous step of workflow.

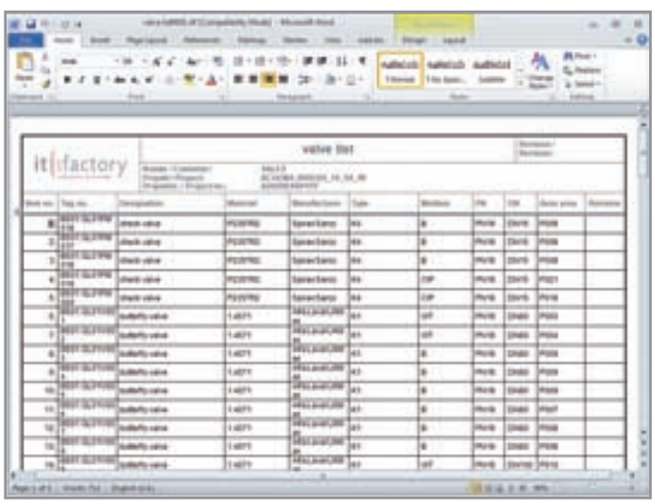
We hope you'll enjoy the "Integrated Digital Plant Model with CADISON® in the Web 2.0"

Flexible data model supports integrated 3D design

Almost all plant engineering projects today face the not-so-easy challenge of integrating the different sub-disciplines in one overall process - this starts with the first idea for a rough-cut plant workflow during the sales process and leads through detailing in the process flow diagram, costing, 3D layout and pipeline design to the hand-over of the as-built documentation and scheduling of service and maintenance intervals. Modern integrated 3D design tools can help master this challenge.



CADISON® P&ID-Designer



CADISON® Engineer

In ever shorter development cycles, complex projects must be realized with fewer and fewer resources. At the same time the cost and effort involved in documentation and the quality requirements for the documents to be ultimately handed over are increasing enormously while project times are decreasing.

The greatest difficulties are in the communication between those involved in the project and in overcoming the boundaries of the respective design step. Most design solutions do have options for synchronization of information between the different disciplines, but really integrated and always up-to-date data management is generally not realized. Lists and reports, for instance, are still manually compiled and the project manager still has to actively source the latest information, only hoping to have all project information up to date by the time he talks to the client.

In the model of an integrated engineering solution, all sub-disciplines in the plant engineering process are brought together and realized in an end-to-end workflow covering all process steps. The different disciplines can only be smoothly integrated providing all information flows into a shared database and all involved always have access to the latest engineering data in the project without first having to initiate complex synchronization mechanisms.

In modern design systems, a highly flexible data model serves as a basis for this redundancy-free engineering workflow. Only this can ensure integration from tender costing, P&ID generation through 3D design to instrumentation. The process is supported by a parametrically structured pipe class and master data management module.

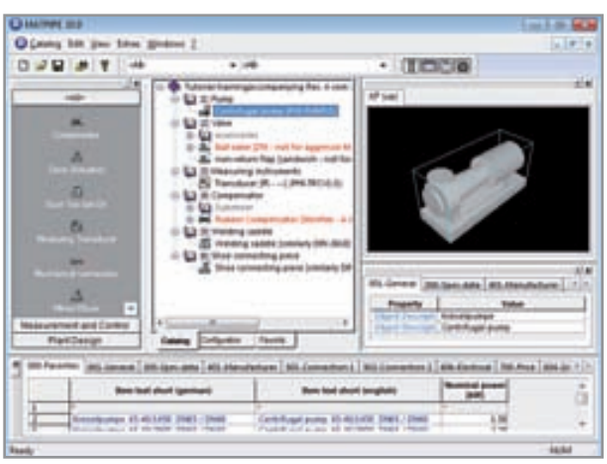
With the parametrically based master data system, project pipe classes must be simply defined based on the standard pipe classes and then used accordingly. The use of parametrics facilitates for the engineer the generation and management of component catalogues that are used as a basis for 3D design but also for materials management. With a link to ERP systems, data such as standard and third-party orders, inventory reservations, transfers as individual or collective items materials with/without material number and materials in the material master can be automatically synchronized between the ERP and engineering systems.

Project engineers often don't work graphically. In a sort of “black-box” process, plant design concepts must be generated and configured fast and efficiently. Depending on requirements, different views and structures displayed in one window (KKS, media, piping, fittings and equipment) are necessary for the engineer's work. To be able to store and use relevant project information securely and in a structured manner, the integration of project management and document management functions is essential. It must be possible to generate up-to-date reports such as BOMs or motor lists from the list management.

An integrated rights and role concept ensures that each employee gets the information he needs for his work within the project. Fully integrated engineering solutions realize end-to-end and redundancy-free graphic design from block diagrams through process flow diagrams to 3D pipeline planning and the generation of isometrics.

The process flow diagram and 3D design access share the same data repository, and accordingly they are instantly and consistently synchronized. The objects from the flow diagram can be dragged and dropped into the 3D model. An integrated logic analyzer checks the processing status. From the 3D model, isometrics for assembly and production can be derived in line with customer-specific requirements.

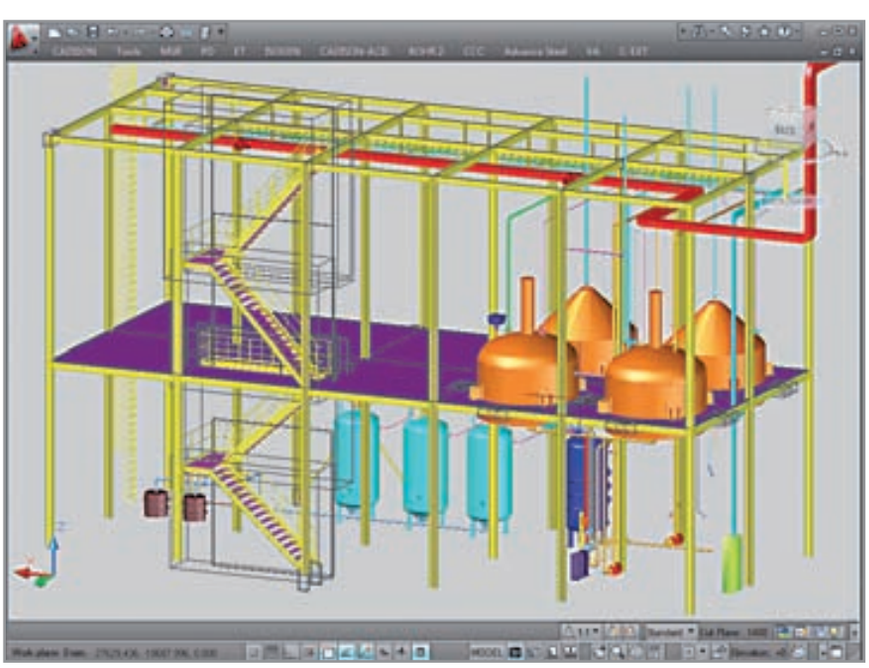
In P&ID, information for instrumentation such as hook-ups, measuring points and other details can be edited. In instrumentation, in addition the generation of typicals, detailed cable route planning and the generation of logic diagrams as well as the planning of switch cabinets are enabled.



CADISON® MATPIPE

The plant engineering designer rightly expects an easy-to-operate and logically structured graphic tool that supports him with design aids. To satisfy today's market requirements, everything must be fast and simple. It is especially difficult to realize plant design in the scheduled time frames without technical aids. For this reason, the designer needs simple aids supported by the design tool, such as an autorouter function for simple pipeline planning or a tank and nozzle wizard for P&ID design. The functions include pipeline planning and automatic positioning of elements as well as autorouting simple moving of fittings in the pipeline, full access to project data – thanks to a direct connection to the engineering database, synchronization between 3D design, P&ID Designer and project data, tank and nozzle wizards for easy design automatic generation of isometrics.

Besides the 3D pipeline design and layout design, easy integration of complex structural steel and/or building concepts in the design must also be supported.



CADISON® Steel

Conclusion

Only with the integration of all phases of plant design in one workflow, there is an end-to-end design process from block diagram through P&ID, 3D design and ordering enabled. This massively reduces change costs and avoids potential sources of error.

Only consistent data management and structured storage of all information in one central database can guarantee this. Interfaces to other IT infrastructure such as ERP, financial accounting, document management must be easily and efficiently possible.

Only with one common database for all engineering information, risks can be minimized and projects can designed more efficiently and effectively.

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Imprint
Issue 2011 | 2 – October 2011
Appearance: Twice a year
Publisher: ITandFactory GmbH
Auf der Krautweide 32, 65812 Bad Soden, Germany
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Editor-in-chief: Sebastian Dörr, Editor: Norbert Kress
Layout: ABE Werbeagentur, Pforzheim, Germany

The almost 60 participants of the CADISON® Praxis-Workshop on 31 March in the Mercure Hotel Frankfurt Airport almost unanimously agreed, that time spent for this participation was a good investment: 88% evaluated the Workshop 2011 as “good” or even “very good”. Each third participant is sure today that he will participate in the Workshop 2012, and more than 50% take their participation at least into consideration.

This is not surprising since the main topic of this day was the open discussion with our CADISON® experts, but also the exchange of experiences with other users. In short: The everyday project work of users.

The online survey conducted among participants prior to the workshop formed an essential part of this year’s agenda.

Even new developments of CADISON® R10.1, such as the new extended safety concept, the new interfaces relating to Inventor and CAESAR II and the improved MATPIPE catalogue were presented.

Using the example of one continuous program, all project phases from preparation of proposal up to maintenance were run through in CADISON® with practical demonstration of the higher value of “Integrated Digital Plant Model”. This event opened the eyes of many users for totally new aspects of working with CADISON®.

In the afternoon the participants had to select between two different practice-based lectures from the subject areas of Basic and Detail Engineering.

The want list (“must have”) compiled by the participants had been of specific interest for the CADISON® development staff under the aspect of the coming

CADISON® Best Practice – "Praxis-Workshop 2011"

A Successful Story with Perspective




release CADISON® R11.0. The number of nominations was as follows:
· MATPIPE extensions
· 2D extraction
· Further development of ISOGEN
· Insulation of pipe bends and tees
· 2D Layout presentations

We noted the following concrete wishes for Practice Workshop 2012:

More exchange of information between users: Who adopts which principles and why?

In addition to that, more workshops conducted in parallel are desired. May be this aspect can be implemented better in the two-day CADISON® International Conference to be held in October than in a workshop lasting only one day.

Conclusion:
We understand the high rate of affirmation between participants with regard to the wide range of program and even with regard to duration of workshops and/or break time for personal exchange of opinions as encouraging for maintaining the general concept of practical workshops.

See you in 2012!

"Reduce your Design Process Time"

Seminar in Pune for Equipment Manufacturers

35 companies from Pune followed the invitation to share the experience of our CADISON®-customers and the topic for discussion was "how to reduce design process time" and highlight the benefits with the Integrated Digital Plant Model of CADISON® to reduce design process time!
Most often detail-equipment planning is done in Autodesk's Inventor. The CADISON® Inventor-Interface allows the re-use of the Inventor-models in CADISON® 3D, while doing an intelligent and mostly automatic data-import. Only the needed data for pipe-constructions are forwarded to CADISON®. While importing, additionally required process-data will be requested. Three CADISON® projects were reviewed and the customers gave an insight into their projects.

IJT Pune
Mr. Harish Bansod from IJT Pune presented 2 projects: a "Sugar Plant" with the capacity of 24.000 TCD and a "Boiler Project". They are currently using a combination of Solid Works and MATPIPE. The most valuable benefits are:
· Saving time on
  · Isometric drawings
  · 2D drawings while they are created from 3D
  · preparing Bill Of Material (BOM) – done automatically within minutes
· Error prevention
  · through 3D clash-detection. There is no surprise at local site while assembling; no material wasting
  · while "moving" 2D-objects from P&ID to 3D with drag and drop

CADISON® at Alfa Laval Support Services
Alfa Laval (ALSI) as a long term user – represented by Mr. Shrikant Nayak – talked about CADISON® MATPIPE as their material management tool for standard equipment.
Their major advantages are:
· execution of big projects without errors
· data could be used effectively for further stress analysis
· pipe routing done quickly – changes can be done easily
· complete automation of project management


All the attendees were very impressed on the continuous integrated approach of CADISON® and the customer-comments were both informative and encouraging! In-depth discussions at the "come together" closed the meeting for our prospects and us!

"We save 90 % of time against pure AutoCAD"
Franz Sattler, Managing Director TMS
Turbomaschinenservice GmbH

"We have systematically stored a lot of pipe-classes in CADISON® MATPIPE – this saves us about 30 % of our planning-time!"
Dipl.-Ing. Jochen Ehrhardt, Partner at Staber

"Compiling a first offer with CADISON® for a 3 to 4 Million Euro project requires about 20 hours – before CADISON® we had need double the time!"
Andreas Hiegelsberger, LTH Dresden

"Our MATPIPE-catalogues are well filled, this saves us 30 to 50 % of our planning-time!"
Dipl.-Ing. Dieter Lotter, Project Manager, ERSys GmbH

CADISON® – Integrated Digital Plant Model

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