

A close-up photograph of a person's hand holding a black pen and writing on a notepad. The person is wearing a white dress shirt and a red striped tie. The notepad has blue horizontal lines and the word "Kings" is written in cursive. The background is dark and out of focus.

Testimonials



ICI Polyester Fibres

ICI Polyester Fibres is the premier Synthetic Fibre Plant in Pakistan having a daily production throughput of over 350 Tonnes. The 1983 plant had gone through numerous up gradations over its more than 20 years history. The fibre produced at ICI's plant helps meet the requirements of demanding national textile sector.

Owing to the numerous expansions/up gradations, a vast number of vendor solutions found their way into ICI, each working in solitude. The result was that ICI Polyester housed around 50 various Automation Solutions. Over time as the competition grew stiffer, the management was forced to bring in more efficiency into their systems and to reduce overheads. With a highly diversified plant floor, gathering of actual and accurate data was a real pain.

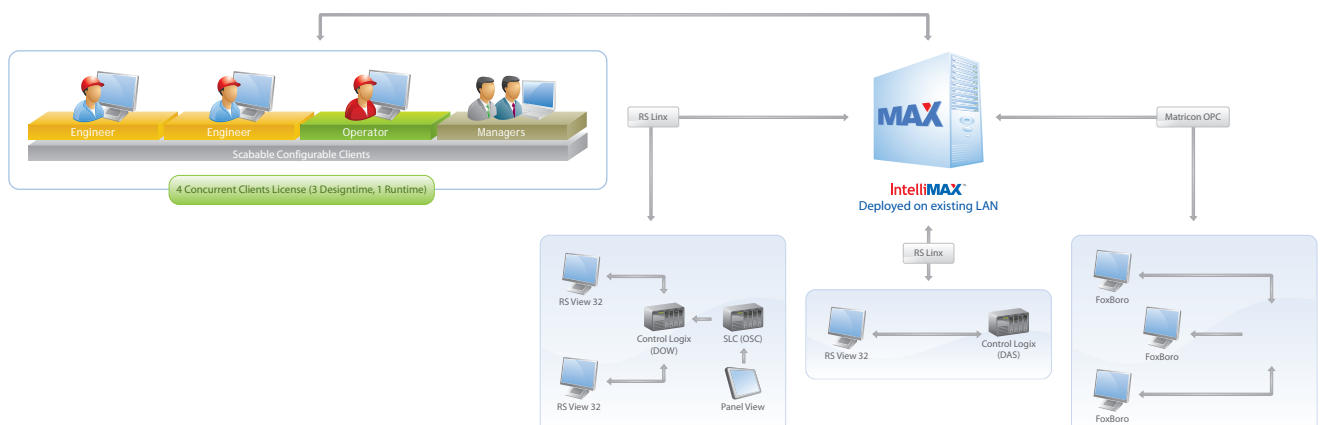
The answer to ICI's problems was IntelliMAX. With grounds up OPC compliance it acted as a unified SCADA Platform, bridging all the automation systems and making them transparent to each other and to the management. Virtually any vendor system could now be hooked to a central repository. On top of it, IntelliMAX provided advanced data analysis tools which further helped the management to make informed decisions on the fly. Phase I of the project has been completed which integrated 4 critical areas of the plant. Engineering is being done for the rest of the plant.

The solution was engineered and deployed by the SENSYS Application & Solutions team; A team dedicated to provide customized solutions to valued customers, thereby helping them get most out of their buck.

With an integrated layer making sure that the information flow is transparent across the organization, the management can make informed decisions utilizing the accurate real time information at the right time. Plant analysis was made easy owing to the availability of historical trending and data analysis.

"With IntelliMAX, I get to see my plant floor while I am in a meeting, or in my office or even at home. With the system generated reports, I know the information I am getting is accurate ..."

*Mr. Rashid Kamal
Plant Manager ICI Polyester Fibres*





ICI Paints

ICI Paints is the Premier Paint Plant of Pakistan having a capacity of 200,000 Liters a day and fulfilling the requirements of domestic residential as well as industrial needs. Aside from importing, ICI Paints manufactures its own Acrylic, a prime ingredient of Paint manufacturing.

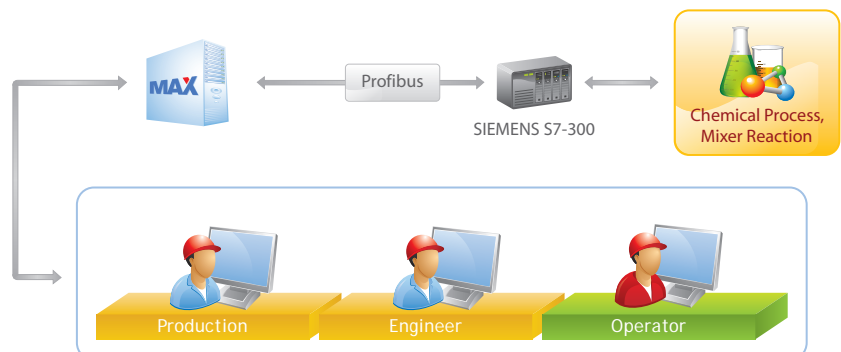
Acrylic Plant albeit a very hazardous process, hosted a reliable PLC system with an unreliable Visualization solution. Whenever the HMI failed, which had an alarmingly high frequency, the operators would go blind and panic would grip the whole plant. This adversely effected the production cycles and was a constant nuisance for the engineering team.

SENSYS' Application & Solution team was consulted for a solution to this problem. Seeing the rigorous validation process for IntelliMAX, ICI Paints management consented to install IntelliMAX on their most critical process.

Aside from being a highly reliable and fault tolerant solution, the advantage of having long term historical trending with data processing and alarms management proved to be a real valuable addition for the management of ICI Paints. They could now do analysis on their plant from their office and at the same time see the production of the plant at Real Time. The now had access to system generated accurate reports, which actually showed them the bottlenecks of their process and the supply chain.

"IntelliMAX came as a ray of hope during the gloomy situation that we faced with our older HMI solution. ... I've found it highly reliable and robust, hitting the bulls eye for us"

Mr. Ahmad R. Vine
Operations Manager ICI Paints





ICI Soda Ash

2006 marked the 62nd Anniversary of ICI Pakistan's Soda Ash Plant in Khewra. While the plant dates back to 1929, commercial production began in 1944. Over the years the capacity of the plant has been increased through expansion in line with market demand. The total capacity of the plant today is over 280,000 tes after commissioning to the current 50ktpa expansion. In 1995, the business commissioned a 10ktpa plant for the manufacture of Soda Bicarbonate, which was further expanded to 20ktpa. Sodium Bicarbonate is a byproduct of Soda Ash.

ICI Pakistan's Soda Ash Business caters to approximately 70% of the Country's total Soda Ash requirement. The Business mainly uses indigenous raw materials and locally made equipment, thereby accruing savings to the Nation's foreign exchange reserves through import substitution. ICI Pakistan's Soda Ash business is committed to remain the preferred supplier for its customers and strives to maintain its competitive advantage through the relentless pursuit of manufacturing excellence and by delivering quality products through a world-class plant.

ICI Soda Ash plant has multiple control systems deployed in different areas of the plant. The plant had a separate control rooms to manage the Bi Carbonate area including calciners, kilns and compressors, another control room to manage the utilities area and a third control room to manage their waste heat recovery unit. SAP is also deployed at the plant which is manually fed plant data from a variety of HMI's in the three different control rooms. The process did not ensure reliability of data and unavailability of real-time reports to the management.

IntelliMAX fixed this problem by providing a supervisory control and integrating all the areas of the plant to form a central data repository and then providing an interface to the management floor delivering critical decision making data. IntelliMAX was connected to eight PLC's and DCS of different vendors including Allen Bradley, Honeywell and Siemens forming a single, standard and centralized supervisory control with role based clients for the operators in the control room and for the management in the form of real-time reporting. IntelliMAX was also integrated with SAP to feed real-time plant data in to SAP, significantly minimizing the chances of human error and reducing manpower.

"IntelliMAX helped us forming a very flexible data management system for the entire plant, empowering our management to pinpoint the flaws in the process and injecting efficiency to our system"

Mr. Jabar Khan
(E&I Manager)



MOL, a Hungarian Oil & Gas Company, is operating in the Tal Region of Pakistan. They currently operate 6 Gas Well Heads in the region, Makori - 1 being one of them. Schlumberger was subcontracted by MOL to drill and set up the production site.

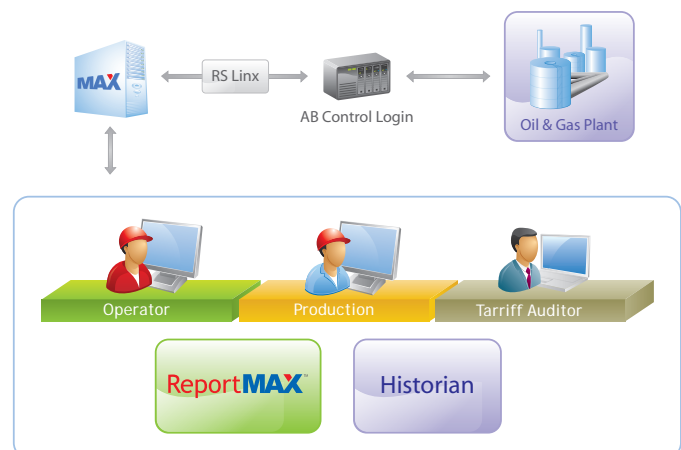
The extracted Gas is directly fed to the National Gas Pipeline which is monitored and regulated by a government entity. The government keeps a very keen eye on the production and quality of gas. Monthly instrument calibrations are done under their supervision. Moreover, they required accurate and un-tampered reports directly from the system

Faced with this stringent auditing requirement, Schlumberger contacted SENSYS for a solution which could fulfill all these requirements. Applications & Solutions Department, using IntelliMAX deployed a Real Time Data Management Solution which included a long term Historical Data Manager, Historical Alarms Manager and generated raw & processed Reports of the logged data. The Government accepted IntelliMAX as an authentic solution and now uses its data to maintain the metering of Gas into the National Gas Pipeline. MOL - Schlumberger now had nothing to worry about for their monthly joint calibration activities. Aside from the regulatory reporting, IntelliMAX also catered for their internal reporting as well. Their head office now had access to the reports at all times.

Owing to this, MOL has signed an LOI to install similar solutions at other sites as well. The complete project is expected to be completed by first quarter 2009.

“The government auditing requirements have really been fulfilled by IntelliMAX. What usually would take us hours to do manually and then convince the auditors of its authenticity is now done merely by a few clicks. Sensys’ Applications & Solutions Department was really forthcoming. They devised a solution which we thought was not possible”

Mr. Ahmad Kamal
Company Man MOL





Saudi Aramco, the state-owned national oil company of Saudi Arabia, is the largest oil corporation in the world and the world's largest in terms of proven crude oil reserves and production. Headquartered in Dhahran, Saudi Arabia, Saudi Aramco also operates the world's largest single hydrocarbon network, the Master Gas System. It was formerly known as just Aramco, an acronym for Arabian American Oil Company.

Recently, serious data logging issues came up at Saudi Aramco on their existing system which led to a need of enhanced data management, historization, archiving and processed reporting. SENSYS Solutions team, through their global integration partner, INTECH Process automation approached Saudi Aramco with a vision to cater to their requirements in the best way possible. DataMAX, an advanced historian and an integral part of IntelliMAX, SENSYS's flagship product, was the ultimate solution to Aramco's problems.

Saudi Aramco had an existing system, SCADA Pack 32 which is manufactured by Control Micro Systems. SCADA Pack 32 which supports 16-bit registers worked as a communication gateway for IntelliMAX.

IntelliMAX fetches data seamlessly from SCADA Pack 32 and DataMAX with its built-in processed functions plotting capability, stores and archives data with integrated security and multiple log groups. Moreover, Web & Excel-based reports are now available to Saudi Aramco through ReportMAX, an advanced reporting tool.



Chevron Pipe Line Company (CPL), headquartered in Houston, Texas, is a wholly owned subsidiary of Chevron Corporation (Chevron). Chevron Pipe Line Company operates on its own behalf and for its affiliated companies, pipeline assets that transport crude oil, refined petroleum products, liquefied petroleum gas, natural gas and chemicals within the United States. Volumes in the company's network of approximately 10,800 miles of pipe reach nearly 2.2 million barrels and 1.4 billion cubic feet (Bcf) of natural gas on a daily basis. Chevron Pipe Line Company moves additional volumes through joint ventures with other companies.

Chevron Pipe Line (CPL) recently decommissioned two Wonderware SCADA systems - TENDS and Unocal. Each system includes several years of historical data that must be archived to meet governmental & business requirements. Chevron's objective is to convert and store these historical files for retrieval using readily available desktop software.

SENSYS along with its Global Integration Partner INTECH Process Automation is currently working to write a utility to extract data from two decommissioned Wonderware InTouch and InSQL systems. A total of 7000 tags scanned every second for a five year period must have an automated software service to aggregate historical data stored and make the data available to users and for reporting to the Department of Transportation.

The general scope of the project includes gathering of data from two separate data bases including InTouch data from the TENDS System in the New Orleans, LA area and InSQL data from the Unocal System in Texas. The data shall be available for query and data filtering for either web reports. The data will be then compiled in a Microsoft Excel format per guidelines and scope described in the Chevron Pipe Line Company Legacy Wonderware Systems Historical Data Archive and Retrieval.

ReportMAX unlocks new possibilities through advanced Data Management

The SENSYS solution has greatly reduced the time of Chevron and contract personnel to manually extract, query and publish data reports. This operation was generally taking 5 - 6 hours for each 24 hour period. With the ReportMAX by SENSYS, reports can now be generated in a matter of minutes.



OGDCL Uch Plant

OGDCL is a leading exploration and production company in Pakistan which occupies twenty four Oil & Gas fields and an annual sale of PKR 96.755 Billion. OGDCL delivers crude oil to refineries, process natural gas to the point where it can be distributed by pipeline, sell LPG, Sulphur and other by-products. The Government of Pakistan has a 12.5% of its holding in the company. The Company is now listed on the London Stock Exchange.

OGDCL production facility at Uch faced problems on one of their most critical site related to upgrading their existing Citect HMI. Upgrading the traditional HMI to a newer version proved out to be a hassle and in doing that, they faced critical issues in the running of the HMI. Their process was severely disturbed and could not get spontaneous support for these issues, which resulted in a total collapse of the HMI.

It was then decided to replace Citect with IntelliMAX. IntelliMAX reliability and connectivity, backed up with efficient and spontaneous support put the OGDCL staff at ease. IntelliMAX was connected to multiple field RTUs via Modbus and Allen Bradley PLC provided visualization, reporting, historization and other benefits like remote availability of real-time data from the Uch Oil & Gas field to their corporate office.

IntelliMAX helped OGDCL improve their process by providing real-time data for downtime analysis, alarms and trending for process streamlining and reporting for plant efficiency remotely to their corporate office.

“This was the solution which I had always been looking for, IntelliMAX made our lives easier and our process efficient. “

*Mr. Mohammad Kaleem:
(Deputy Chief Engineer)*



CENTURY PAPER & BOARD MILLS LIMITED

Century Paper & Board Mills Limited (CPBM) is part of Lakson Group of Companies. Lakson Group has diversified interests in industries such as Cigarettes, Paper and Board, Soaps and Detergents, Instant Fruit Drinks, Packaging, Fast Food Chain, Textiles, Information Technology, Insurance, Travel & Tours, Surgical Goods and Chemical Formulations. Lakson Group of Companies maintains strategic business relationships International Corporations like Phillip Morris, Colgate Palmolive, Kraft General Foods and Mc Donald's International. Century Paper & Board Mills Limited (CPBM), a listed Public Limited Company was formed a decade ago in 1990 as a flagship company of Lakson Group. The Company has manifested itself as Quality Producer of Packaging Board so much so that demand pressures forced us to operate at over optimal capacity of 107% last year. They have strategic business relationships with leading Paper and Board Converting Companies CPBM integrated Pulp & Paper Mill is a 85,000 tons capacity unit. Local Wheat Straw and River Grass are used to produce Chemical Pulp.

The Century Paper plant at Multan Road, on the out skirts of Lahore, has seven paper machines PM1 to PM7. All machines have different and isolated control systems. The management's primary concern was to consolidate data from all these control systems to a central data repository. The diversity in the control systems on all the machines made it impossible to have a single platform.

IntelliMAX is equipped with the capability to connect to virtually any control system on OPC standards which made it possible to integrate all control systems on a single and standard layer. IntelliMAX provided the management the data they required for decision making like the production details, downtime analysis and machine efficiency reports in real-time. IntelliMAX thin-client concept gave them the freedom of visualizing the plant from any where on the plant.

"The concept of universal connectivity has simply solved our data management problems, now I can simply sitting in my room visualize the entire plant processes and make prompt decisions based on real-time data availability"

*Mr. Aftab Ahmad
(GM Worx)*



Ecopack Limited (EPL) is the largest manufacturer of PET Bottles in Pakistan supplying mainly to the (CSD) and Mineral Water Industries. EPL was incorporated as a private limited company in August 1991. Ecopack has a blowing capacity of over 200 million bottles per year. EPL was set-up with the active support & guidance of Pepsi International in Pakistan as a vendor of international standards for the supply of PET bottles to the Carbonated Soft Drink (CSD) industry. This valuable assistance ensured the achievement of high quality, consistent and reliable production of PET bottles capable of successfully performing in the harsh heat, transport and retail conditions of Pakistan.

Ecopack has three plants geographically separated, one of the plants is adjacent to Pepsi Plant, which has a blowing machine, labeler and a conveyor by which they manufacture and transfer the bottles from between the wall to Pepsi International. The issue they faced was to operate that plant remotely, and get production and downtime reports remotely to their main plant.

The flexible and scalable architecture of IntelliMAX made this GEO SCADA a possibility. IntelliMAX was connected to Siemens S7 PLC on the blowing machine and a Mitsubishi PLC on the Labeler and by using the IntelliMAX web client philosophy, the entire plant was operated from their main plant remotely. All real-time reports were made available to the management for them to bill Pepsi as per the bottles delivered. They could now keep their checks and balances on the plant which is located about a hundred miles away from their main unit. IntelliMAX made it possible for Ecopack to have collaborative and just in time production keeping the customers demand in view and supplying the quantity as required. Using IntelliMAX later on a GEO SCADA was created connecting three plants of Ecopack.

“IntelliMAX is a superb product, it provided Ecopack the flexibility of operating one of our plant with minimal man power, remotely. Now we can produce the quantity of bottles required as per the customers requirement without any delay”

*Mr. Sohail Raza Zaidi:
(Director Manufacturing)*



Haleeb Foods is Pakistan's number 1 and fastest growing packaged food company. As of fiscal year 2006, its annual turnover is Rs. 9 Billion. Haleeb Foods has the distinction of being the first company in Pakistan to use Tetra Pak's novel packaging formats, Tetra Brick Aseptic (TBA) and Tetra Fino Aseptic (TFA).

Haleeb Foods have multiple pasteurizing, UHT, filling and packaging machines, with their own individual control systems. In such a case all data provided to the management level is manually collected from all the machines. The chance of human error maximizes and it takes a lot of time to convert piles of data in to information.

IntelliMAX was the right choice of Haleeb foods to resolve this issue. IntelliMAX was connected to all individual pasteurizer, UHT, filling and packaging machines to provide the management the right data at the right time with the help Real-time reporting, visualization, trending and preventive maintenance of all the machines. The concept of production leveling was also handled by IntelliMAX where one machine is dependant on the performance of the other in the assembly and should operate accordingly to eliminate fluctuations in performance and reduce waste. IntelliMAX made it easier for the management to track and eliminate the problem in the process timely, enabling them to run a smooth and flawless production.



Technology Migration Plan at Japan Power Generation Limited

Japan Power Generation Limited, a 135 MW with 24 high speed diesel engines power plant was installed with the OEM provided Diasys system running on 386 machines with Unix 4.2.

Japan Power was faced with similar technology migration issues as are faced with every organization today. The technology migration strategy at Japan Power was:

- Select a product that is based on open standards
- Phase out the migration process
- Provide a thorough industry standard OPC interface to their entire automation system
- Use the standards now deployed to live out the entire life cycles of the products being used

The powers of Standards Based Connectivity

When Japan Power initially started out in their venture to develop a migration system they were faced with a number of issues, the first and foremost issue was to collect data from a proprietary system into a system that worked on open standards. OPC was the logical choice here for the following reasons:

- Managing the continual migration process would only be possible if they were using an open standards product
- Fetching data from a proprietary system would have only been possible by using OPC
- Using industry standards they now could phase out their migration plans

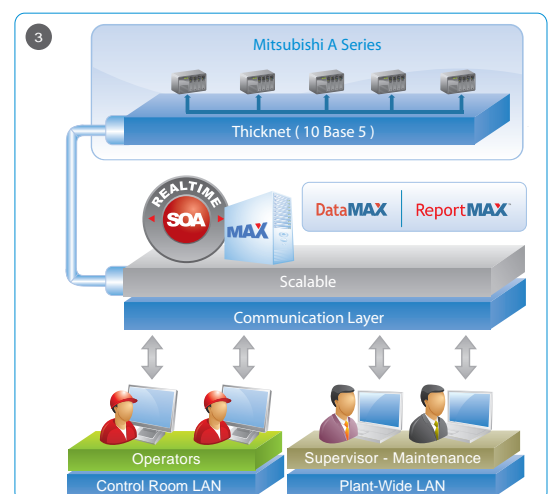
IntelliMAX, with it's through and through standards based connectivity interfaces was chosen by Japan Power. Not only did IntelliMAX provide them with all six interfaces of OPC, it also provided them with ODBC, SOAP and XML data connectors for eventual enterprise wide integration.

The SENSYS Solutions team joined hands with the Japan Power engineering team to help them develop the most amicable solution. IO Server was chosen as the OPC server to fetch data from the Diasys DCS via Thicknet interface and to feed it into IntelliMAX server through IntelliMAX DA client.

The architecture that SENSYS solutions suggested to Japan Power has been laid out in Fig.

The Power of DataMAX™ Advanced Historian

Japan Power's management was previously not able to archive data. With the integrated historian DataMAX, they were now able to archive history data, analyze for plant metrics and evaluate production performance in an objective manner. To top it off, ReportMAX fulfilled the need of a dynamic reporting tool offering both preconfigured and custom Web or Excel based historian reports; both periodic and on-demand.



Our Presence

● Houston

● Colombia

● Venezuela

● Dubai

● Lahore

● Singapore



SENSYS[™]
inventing progress

Contact SENSYS Inc. or your local Partner for additional information regarding products and services. Specifications subject to change without notice.

SENSYS Inc. 4903 W. Sam Houston Parkway North, Suite A100, Houston, TX-77041, USA.
Phone: 281-398-1100, Fax: 281-398-1103
www.sensys.com

© 2002-2007 SENSYS Inc. All rights reserved. No part of the material protected by this copyright may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, broadcasting, or by any information storage and retrieval system, without permission in writing from SENSYS Inc.

SEN_CP_001

Rel. 07/07