



Intergraph® CADWorx® Plant Design Suite Professional Services

Quickly adopt and gain value from Intergraph CADWorx & Analysis Solutions technology with our professional services covering software implementation, configuration, customisation and training.

MORE THAN JUST OFFERING YOU SOFTWARE

we make sure
you make the
most of it



**TRUSTED
PARTNER**
40 + YEARS
INNOVATION
WITH THE BEST
INDUSTRY
EXPERTS



With Intergraph
Services,
CUSTOMISATION
=
**BETTER
RESULTS**

YOUR PARTNER IN SUCCESS

UNDERSTANDING YOUR NEEDS

Any software technology when first purchased, is rarely a perfect fit 'out of the box'. To maximise the efficiency of the investment and quickly deliver tangible benefits, some level of configuration is required. Without this, inefficiencies associated with bad practices can lead to 'workarounds', which undermine the very reason for the investment.

We realise that our customers' work processes differ with industry sector, size of company, historical practices etc. Therefore, the 'fine tuning' is carried out in line with your specific requirements, which are established via an initial consultation aimed at understanding your business challenges and identifying your desired outcomes.

Appropriate services can then be recommended aligned to these objectives. Typically, such recommendations are geared towards mitigation of business/project risk, shortening project lead-times, increasing productivity and delivering higher quality.

SERVICES METHODOLOGY

Employed globally, Intergraph **Smart™ Services Methodology (SSM)** is used to define, design and deliver services and solutions. This structured methodology covers a number of discrete, sequential phases, with defined phase gates, and provides a framework that helps you understand what to expect. It is used to ensure a successful outcome and high quality delivery in accordance with your own defined success criteria. By providing complete traceability and transparency throughout the entire consultancy process, it helps to mitigate risk and keep activities on-schedule and budget for both the client and Intergraph.



1. DISCOVER

- "As-is" business challenges
- Workshop
- "To-be" requirements
- "Quick wins"
- Transformation (Project Execution) Plan
- Success criteria
- Risk assessment
- Statement of work



2. DESIGN

- Functional Requirements Specification (FRS)
- Prototype
- System Test Specification (STS)
- Solution Work Package
- Requirement Traceability Matrix (RTM)



3. DEVELOP

- Develop and build the solution
- Performance testing
- Functional and integration testing
- Product documentation
- Installation instructions
- Acceptance documentation
- Factory Acceptance Testing (FAT)



4. DEPLOY

- Training
- Factory Acceptance Testing (FAT)
- Performance Testing
- Site Acceptance Testing (SAT)
- Final delivery
- Acceptance sign-off
- Use of solution in production
- Realisation of benefits

FAST TRACK TECHNOLOGY ADOPTION FOR PROJECT USE

CADWorx Plant Professional

- Software & licencing installation
- Project definition, set-up & implementation
- Legacy model conversion
- Reference data creation
 - Catalogues & specifications
 - Steel libraries
 - Pipe support libraries
- Set-up P&ID to Plant synchronisation & correlation link
- CAESAR II & PV Elite analysis integration methodology and workflow
- SmartPlant Enterprise integration (Smart 3D, SmartPlant Materials, SmartPlant Foundation, SmartPlant Construction, SmartPlant Spoolgen, SmartPlant Spoolgen Plus).

Isogen®

- Takeover and reuse of existing Isogen configurations from other plant design solutions
- Project set-up & implementation
- Configuration of "Fabrication-friendly" pipe, spool and system isometric templates in accordance with company standards
- Line list integration (to auto-populate drawing border attributes)
- Piping data integration with other business systems

CADWorx P&ID Professional

- Software & licencing installation
- Project database implementation & configuration
- Project definition, set-up & implementation
- P&ID template configuration (borders, layers, lines, tagging conventions etc.)
- Symbol library creation
- Legacy drawing conversion
- Set-up P&ID to Plant synchronisation & correlation link
- Switchboard application enhancement (input forms, queries, reporting)
- Database application development
- Revision management
- SmartPlant Enterprise integration (SmartPlant Instrumentation, SmartPlant Electrical Basic, SmartPlant Electrical Detailed, SmartPlant Foundation, CADWorx E&I).

OrthoGen®

- Software & licencing installation
- Project definition, set-up & implementation
- Orthographic template creation
 - Equipment: nozzle elevations, locations, orientations
 - Piping: pipe racks, penetrations, support locations
 - Structural: foundations, grating, frames
 - Electrical: Raceway/cable tray
 - Instrumentation, HVAC & Plot plans

"Intergraph CADWorx solutions were the best fit for our company's requirements, specifically those related to functionality and customisation."

Takashi Kurita,
Kurita Water's Global Engineering Center

"The bi-directional data exchange capability between CADWorx and CAESAR II positively affected the project outcome and provided SAFE with 70% time savings in calculation model generation due to the automatic generation of the CAESAR II model from the 3D CADWorx model."

SAFE, Italy

KEY ADVANTAGES & BENEFITS



Maximise Value: Our consultants will work closely with you to optimise and align your investment with your business processes. A simultaneous objective is to resolve or streamline your 'everyday' workflow challenges. The aim is to leave you with an optimised, integrated solution to provide maximum benefit in terms of usability, interoperability and deliverables.



Educate to Increase Productivity, Efficiency and Quality: Invest in training to maximize proficiency and good working practices. Users will learn, through a better understanding of the technology, how to make the optimised software work for you to deliver quality. Avoiding re-work and reducing errors leads to lowered CAPEX/OPEX, increased client satisfaction, repeat business, and a competitive edge.



Adopt Technology Acceleration: Whether you're an EPC, Owner Operator, or Contractor, keeping your staff focused on your core business activities is critical. Consequently, implementing and configuring software may not be an efficient use of their time and expertise. Allowing Intergraph to fast-track the development and implementation of your investment leaves your staff to focus on what they do best.

ACCELERATE TECHNOLOGY ADOPTION, ENJOY THE BENEFITS SOONER:

- Mitigated business and project risk
- Increased productivity & efficiency
- Better results
- Enhanced reputation
- More repeat business
- Competitive edge
- Reduced CAPEX/OPEX
- Increased profitability



14+ TRAINING LOCATIONS

- Herlev, Denmark
- Espoo, Finland
- Paris, France
- Frankfurt, Germany
- Sussen, Germany
- Milan, Italy
- Hoofddorp, the Netherlands
- Asker, Norway
- Warsaw, Poland
- Moscow, Russia
- Madrid, Spain
- Gothenburg, Sweden
- Derby, UK
- Swindon, UK

FLEXIBLE TRAINING OPTIONS CLASSROOM OR ON-SITE

MAKE THE MOST OF THE SOFTWARE

Help your users to become productive sooner! Choose from either standard product training, or request a tailored course according to the knowledge and experience of your users. In addition, take advantage of our 1 day refresher and software upgrade training courses.

Course Code	Product	Days	Audience	Standard/Custom
TPID1002	CADWorx P&ID Professional	2	User	Standard
TPLA1003	CADWorx Plant Professional	3	User	Standard
TCFP1001	CADWorx fieldPipe Professional	1	User	Standard
TCSE1001	CADWorx Specification Editor	1	Admin.	Standard
TIFC1001	Isogen for CADWorx	1	Admin.	Standard
TOFC1001	OrthoGen for CADWorx	1	Admin.	Standard
TC2S1005	CAESAR II Statics	5	User	Standard
TC2S1003	CAESAR II Statics	3	User	Standard
TC2D1003	CAESAR II Dynamics	3	User	Standard
TCSD1025	CAESAR II Statics & Dynamics	2-5	User	Custom
TPVE1003	PV Elite	3	User	Standard
TPVE1002	PV Elite	2	User	Standard
TPVE1023	PV Elite	2-3	User	Custom
TVVD1003	Visual Vessel Design	3	User	Standard
TVVD1002	Visual Vessel Design	2	User	Standard
TVVD1023	Visual Vessel Design	2-3	User	Custom
TGTS1003	GT STRUDL Basic Static Analysis	3	User	Standard
TTNK1001	TANK	1	User	Standard

Training is provided at one of our training centres throughout Europe, or at client sites.

To find out more about how we can support you, please contact your local sales representative, or email icas-europe-services@intergraph.com.

ABOUT INTERGRAPH PROCESS, POWER & MARINE

Soon to be known as Hexagon Process, Power & Marine, Intergraph Process, Power & Marine is the leading global provider of engineering software for the design, construction and operation of plants, ships and offshore facilities.

Hexagon Process, Power & Marine is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technologies that drive quality and productivity improvements across geospatial and industrial enterprise applications.

