



Innovative Software Solutions

The Integration Technology Division at Xodus has a single objective: to maintain the Group position at the leading edge of engineering and operational technology.



Integration Technology Division

Within the Division, the Software Engineering team plays a key role, developing innovative solutions for clients that improve the performance and efficiency of their assets, predict and prevent problems, and support sophisticated remote monitoring systems that interface directly with existing management tools.

Our software engineering team

The Software Engineering team develops practical solutions based on each client's needs, budget and timeframe. In some instances, these solutions are based on tried-and-tested products such as XPLORE, PonTRAX and EEMSLinx, as well as our emerging products XPERT and XRISK. In other circumstances, we devise entirely new

solutions, sometimes based on existing concepts, sometimes on new approaches. We can arrange for software engineers to work on your premises, alongside your own teams, on short or long-term assignments. Our on-site specialists can help you automate and integrate your own processes and operations, eliminating repetitive tasks, reducing manual data entry and minimising human error.

Disciplinary crossover

The strength of the Software Engineering team is derived from the close collaboration between all disciplines supporting the holistic thinking that characterises Xodus Group. The team is backed-up by engineers specialising in process, safety, subsea, structural, environmental and flow assurance. This internal focus on lateral thinking means that unlike a conventional software house, we are ideally placed to provide pragmatic solutions that meet your real-world needs, based on our own substantial experience of practical engineering challenges.

Our skills and experience

Thanks to our mix of specialist skills and the unique environment at Xodus, many of the software engineering projects we have undertaken are unmatched in the industry. For example, a number of the highly effective tools we originally devised for use by our own engineers have been adopted by our clients and are rapidly becoming standard solutions. Tools such as XPLORE, which provides a framework for remote process monitoring, diagnostics, optimisation and integrity management, is now in widespread use in the sector. Other hosted applications like PonTRAX and EEMSLinx are also gaining a substantial client base by providing a clear, consistent management portal and a fully documented audit trail for environmental applications.

Integration with third party tools

Xodus has developed a host of unique solutions for managing third party applications, including webparts and dashboards that interface with industry-standard tools such as Aspentech's HYSYS® and Flare System Analyzer (formerly FlareNET), Infochem's Multiflash and SPT Group's OLGA®, as well as applications produced by other industry specialists such as FEESA, Schlumberger and Neotec. We devise customised interfaces on request, based on the most appropriate technology for the scale and scope of the application. We build fast, secure and scalable client/server applications and environments that can be accessed remotely by your operatives around the world. We can also set up complete

hardware and software solutions on your premises, or provide hosted applications.

In summary we can...

- › Help you integrate and automate your complex production operations, eliminating manual or repetitive tasks and the associated potential for human error.
- › Monitor, diagnose and optimise the performance of your equipment and assets.
- › Model key parameters, helping you where instrumentation is faulty or cannot be installed.
- › Develop bespoke solutions that are customised to your specific needs, bringing our cross-disciplinary engineering expertise to bear on each challenge.
- › Supply you with software engineers on short-term placement or long-term secondment.
- › Provide you with the peer reviews, rigorous testing and project management services that make our objective stance as an independent consultancy so invaluable to so many of our clients worldwide.

Our range of in-house skills includes:

- › VB, VBA, .NET (VB and C#) and Java
- › Microsoft® desktop and server Operating Systems and IIS
- › MS SQL Server, Oracle and other SQL-based solutions
- › MS SharePoint and Biztalk
- › Mature web technologies such as HTML, CSS, Javascript and ASP
- › Emerging web technologies such as AJAX, JQuery, Webparts and Web Services
- › Data historians such as OSI PI and Honeywell PHD
- › Connectivity solutions using e.g. XML, OPC
- › Integration, support and troubleshooting, either through internal placements or external support provision
- › RAD, prototyping and agile programming
- › Real-world experience of working with operations and engineering.

