

adeptica.

www.adeptica.co.uk
email: client.services@adeptica.co.uk

The Opportunity

Smart Metering promises to be the most disruptive and enabling technology that the consumer facing Energy Sector has ever seen. Companies that can exploit its potential, within the spirit and letter of the regulatory regime, stand to create an enduring commercial advantage over those that are late to market or fail to implement in a way that meets their customers' needs and aspirations. Or worse, simply fail to deliver.

The industry's supply chain is having to run fast to meet the expectations being set, not least to meet the very challenging targets set in Great Britain.

The Challenges

All of the technologies are proven but they have never been proven either in this combination or at this scale. The regulatory regime reflects this sophistication but is again untested in terms of scale, viability and effectiveness.

Further challenges include: Security requirements, SEC obligations, contractual changes, business process change, GBCS, future developments e.g. centralised registration data, half-hourly billing, etc.

How we can help

Adeptica is uniquely placed to help the leaders in the Energy Sector deliver. Our team has been integral to GB Smart Metering (SMIP), developing an end-to-end design – spanning from regulation through to the detail of the technical solution - that is implementable and meets the stringent security requirements necessary to protect critical national infrastructure.

We can help leaders in the Energy Sector in all aspects of their Smart Energy work, for example to:

- Develop all aspects of their solution architecture, to ensure coherence, completeness and viability, whilst positioning it to exploit strategic potential;
- Assure the design and implementation of that architecture, from regulatory compliance through to the detail of cryptographic and protocol implementation of back-end systems and in-home solution components;
- Validate and deliver coherent and stringent testing solutions, to ensure that all components can integrate to deliver an effective, consumer facing solution.
- Integrate and manage your organisation's smart metering strategy at an enterprise level, including business process skills and enterprise architecture skills, bringing expertise in regulatory compliance through to technical implementation of complex cryptographic solutions.
- Help organisations prepare for their full user security assessment by taking them through the pre-assessment stage to get them to a stage of readiness.

Service Offerings

Our five service offerings are:

- Consultancy: working with clients to deliver solutions that meet their objectives. This ranges from short, focussed reviews on specific aspects of a client's programmes & projects through to our working in integrated teams with the client to deliver their objectives;

adeptica.

www.adeptica.co.uk

email: client.services@adeptica.co.uk

- Advisory: helping our clients' teams to develop their understanding and mastery of the specialisms required in the energy sector. Our offerings range across:
 - Pre-packaged advisory products: covering specialist guides / support materials, computer based training and trainer led training;
 - Tailored advisory products: providing a client with bespoke guides, knowledge workshops, and support materials that reflect their particular needs and architecture;
 - Ongoing advisory bundle: offering clients access to specialists and specialist resources in an 'on demand' way, so that client staff can get the support they need, when they need it.
- Assurance: providing specialist tools and specialist resources to assure the viability of a client's overall solution, or specific parts thereof, at all stages of the development and delivery lifecycle. The tools we can offer range from software solutions through to test vectors and test data. The specialist resources we offer bring skills from regulatory compliance through enterprise and solution architecture to protocol implementation.
- Information Assurance: providing specialist resources to assure the viability of a client's overall security solution and to help them meet their regulatory security obligations. We are also experienced in undertaking user security pre-assessments to get them to a mature stage for their full security assessment to be undertaken.
- Solutions: providing tailored software and hardware to form a part of client's overall solution implementation.
- Regulatory: providing specialist expertise in the area of Regulatory design, Influencing and development of regulatory policy, development of codes (including SEC), licences and contracts, contract negotiations, connection agreement support/negotiation, development and analysis of code amendments/modifications, license, regulatory and code transition.

Specialisms

Our service offerings are built on a profound understanding of, and expertise in, key specialisms that are need to deliver effective smart metering outcomes:

- Regulation e.g. SEC, License Conditions, Codes and Contractual Obligations
- Enterprise Architecture
- Business Process Design and Optimisation
- Solution, Technical and Security Architecture
- Security Solution Design and Assurance
- Public Key Infrastructure Design, Implementation and Operation
- Cryptography
- Smart Metering Protocols, not least DLMS COSEM, ZigBee Smart Energy
- GBCS
- Section G Security Requirements and Information Assurance



www.adeptica.co.uk
email: client.services@adeptica.co.uk

Industry Experience

Adeptica consultants have been heavily involved in the design of the Smart Metering Implementation Programme (SMIP). Adeptica's core skills lie in business process, security, technical and regulatory design for the energy industry and projects to which Adeptica either has or is making significant contributions to include:

- SMIP – design of the GBCS, design of the Business Process Model and User Gateway Services Catalogue, design of Smart Metering Key Infrastructure (SMKI), assurance of the DCC development and design, development of the SEC (notably sections E, F, G, H and L).
- Smart Metering Device Assurance (SMDA) scheme – working as technical advisors to the scheme responsible for development of the test approach, design and build of the test scripts and design of test tools.
- Technical, Business Process and Security experts contributing to SECAS development and support.
- Security architects and ISO27001 auditors for various aspects of the SMIP.
- Technical Experts supporting the SEC Panel's Technical Sub Committee.
- Security Experts supporting the SMKI Policy Management Authority.
- Security Experts supporting the Security Sub-Committee.
- Technical Experts supporting the Technical Sub-Committee.
- Business Architecture Experts supporting the Business Architecture Sub-Groups.
- Information Security experts conducting Section G User Assurance pre-assessments and full user assessments.

Our staff and associates can also call on their extensive expertise gained whilst working on projects in the Energy Sector, Finance Sector, Government Departments, Telecoms and Healthcare amongst others.