



asidua business services

## case study

## Fully-integrated Policing

### background

The criminal justice process in Northern Ireland operates through co-operation between a number of 'Criminal Justice Organisations' (CJOs). The quality of service being delivered to victims, witnesses and other stakeholders was being compromised as a result of a predominantly paper based system being in operation. To redress these shortcomings a project called the 'Causeway Programme' was launched to improve information sharing between the different CJOs. Asidua was approached by one of these CJOs – the Police Service of Northern Ireland (PSNI) - to provide an integration broker to harmonise data interchange between it and the other CJOs.

### client requirements

The CJOs required the following:

- To integrate its existing systems with the new Causeway architecture
- An integration roadmap for its internal systems
- To facilitate information exchange with other organisations.

### solution

The Asidua Business Services division delivered the following:

- An ADI hub architecture (known as the iHub), which allowed the varying integration requirements to be met by hosting a range of reusable business components.
- Components were developed to re-purpose existing enterprise application interfaces, for both legacy and COTs systems, as iHub services.

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- The architecture was built using the BEA WebLogic and Microsoft .Net platforms, which provided a range of well-defined components out of the box, supplemented by components developed by Asidua.
- A Business activity management suite providing real-time business continuity and usage data pertaining to Causeway and CJO business processes.

### benefits

- **Lower costs** - automation of end-to-end business processes is delivering greater efficiency in the handling of crime from initial customer contact through to prosecution and beyond.
- **Future proofing** – through reuse of iHub components built for Causeway, Asidua has been able to extend services hosted on CJO systems into a range of new business processes.
- **Compliance** – the iHub architecture has ensured that the CJO is able to participate fully in the new business processes introduced by the Causeway initiative.
- **Capability growth** – a significant reduction in "handling" of each case has resulted in increased throughput and thus the ability to process greater numbers of suspects.

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### client feedback

At the launch event, Director of Criminal Justice, Stephen Leach, mentioned Asidua among the handful of companies singled out for praise for their work on the project. Brett Hannam, Causeway Programme Manager, went on to say: **"I was extremely impressed by the technical excellence and professionalism of the Asidua team, as were my colleagues. Without their support, Causeway would not have gone live."**



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## the extra dimension

The extra dimension we provide lies in our bespoke methodologies which combine industry and home-grown standards, tools and techniques to guide our engineers via a few well-defined phases where we:

1. assist with identifying a need through **diagnosis**
2. ensure a proposed solution is *fit-for-purpose* through **modelling**
3. rapidly **realise** a solution using *best-of-breed* platforms and methods.

These unique tools are the product of the experience and know-how of our top architects blended with the latest integration technology and industry standard tools. By adding this extra dimension to any solution we can bypass typical pitfalls and ensure the most efficient and effective outcome.

## adding the extra dimension

For the Causeway project, the extra dimension added was:



- **Diagnosis** (ADI Road mapping)  
Analysis against current in-house templates allowed us to rapidly understand both the CJO, and proposed Causeway architectures. An ADI roadmap allowed us to lobby support for key architectural goals.
- **Modelling** (UML Modelling)  
By employing UML, Asidua provided the CJO with a concise, panoramic view of a solution to the overall integration problem. From this reference point Asidua could rapidly define a range of services to be deployed on an iHub architecture to meet current and future integration needs.
- **Realisation** (WEST – Project Management)  
This bespoke Asidua tool was offered free and facilitated the management of both Asidua and CJO distributed development teams.

## technology

**Platforms** employed:

- BEA WebLogic Integration
- Oracle RDBMS

**Methods** of customisation:

- Java EE development
- XML modelling
- XQuery generation

## tools

Used for **Diagnosis**:

- Sector specific architecture templates
- ADI road-mapping techniques

Used for **Modelling**:

- Use Case analysis
- UML modelling
- Entity relationship modelling
- ADI component modelling

Used for **Realisation**:

- DSDM
- Parallel development
- Life cycle management using CVS
- Rapid generation of enterprise java components using BEA Workshop tools.
- The Asidua WEST tool was for management of distributed development teams

## asidua

Asidua delivers world-class software consultancy and services to clients across a broad spectrum of business sectors. Established in 2002, the company now has offices in Belfast, Birmingham and Dublin, and has achieved recognition as a Deloitte Technology Fast 50 company.



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