Case Study

Client: Waterford Regional Hospital

Project: PAS/NIMIS Integration Project

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Waterford Regional Hospital use Ensemble to automatically send patient information to NIMIS

Business Problem

In 2010 the Health Service Executive (HSE) launched a major project to provide a new National Integrated Medical Imaging System (NIMIS) to hospitals in Ireland.

The NIMIS project has numerous objectives including the creation of a national database containing medical images & patient information.

Waterford Regional Hospital was included in Phase 2 of the NIMIS project & required a solution that would automatically transfer patient information from their Patient Administration System (PAS) to the NIMIS system using the international Health Level Seven (HL7) message format.

The hospital also required that the overall solution would be compatible with other PAS systems within their region.

Solution

Waterford Regional Hospital selected Grapevine Solutions to design, develop & implement a solution that integrated their Patient Administration System (PAS) with the new NIMIS system.

Working closely with the hospitals IT department the solution was designed, developed & tested well ahead of the scheduled go live date.

The key products used to provide the solution were: -

- **RoboDJ**:   Grapevine's data replication product
- **Ensemble**:   Intersystem's Integration product

RoboDJ was installed on the PAS system to: -

- Transfers patient information from the PAS system to a replicated PAS database within Ensemble.

- Recognize patient events such as Admissions, Transfers & Discharges that should initiate a transfer of information to the NIMIS system.

The interface to transfer patient information to NIMIS was developed using Intersystem's Ensemble product which includes HL7 support as standard.

The Ensemble interface is notified about patient events as they are updated in the PAS, retrieves the relevant information from the replicated PAS database, creates the required HL7 message & sends the message to NIMIS over a secure network connection. The solution also includes a dashboard to monitor the daily transfer volumes for each of the HL7 message types.

Breeda Feeney, Senior Systems Analyst, Waterford Regional Hospital: "RoboDJ and Ensemble proved a winning combination for us. RoboDJ enabled us to rapidly replicate our PAS data to an industry standard database. Ensemble provided us with the secure delivery of key patient events in HL7 to NIMIS. Both products saved us months in development time. "

Benefits

- Fully compatible with NIMIS requirements
- Capability for integration between other systems
- Cost effective industry standard solution
- Rapid development & implementation timeframe
- Extensive support for the HL7 standard

About Waterford Regional Hospital

Waterford Regional Hospital is one of Ireland's largest hospitals with over 500 patient beds & is one of the eight cancer centres of the HSE National Cancer Control Programme (NCCP).

About Grapevine Solutions

Grapevine Solutions provides ICT software & services to clients in healthcare, telecoms & the public sector. See www.grapevine.ie for more information.