

When Real-Time Communication is Mission Critical

Real-time data validation for big data

ABOUT QUEST GROUP:

Quest Group, Ltd. provides management consulting and information technology services for businesses, government agencies, and nonprofit organizations. Quest Group is an approved State Term Schedule vendor. Based in Dublin, OH, the company has been serving clients for twenty years. Kent Stephens, the Chairman & CEO, has been offering IT & management consulting services since 1984.

Challenge:

Effective communication between a department of rehabilitation and all relevant healthcare facilities is imperative to ensure the wellbeing of inmates and the safety of the general public.

Solution:

Quest Group looked to Iguana® as the main integration solution for a major state's department of rehabilitation and corrections.

Results:

Over 52,000 records are processed every 20 minutes (24/7) to ensure inmate demographics are validated and accurate in real-time.

Every Department of Rehabilitation and Correction (DRC) is responsible for the health and wellbeing of their inmates. This means they must be able to connect with public facilities and their numerous data systems, to schedule inmates at various facilities, capture any reports or updates to their health records, and coordinate transfers to and from the facility. To add to the complexity, the data needs to be constantly validated in real-time for integrity. With over 52,000 active inmate records (plus 121,000 archived) and a transition from a homegrown EMR system to eClinicalWorks, one state's DRC looked to Quest Group to help with their data integration and management.

After researching various integration engines Quest Group determined that Iguana was the best solution to manage all of the various data formats and protocols to ensure continuous interoperability amongst the various systems.



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“[The alert system] not only helped ensure accuracy, it has significantly reduced the strain on our resources.”

“We needed to convert, parse and validate numerous data formats; using Iguana, we are able to update over 52,000 demographics every 20 minutes to ensure inmate information is up-to-date at all times” said Kent Stephens, owner and CEO of Quest Group.

Beyond ensuring the data was optimized between the legacy EMR and eClinicalWorks, Quest Group also set up a series of validation interfaces to ensure radiology procedures are routed to the correct facility, the ensuing clinical reports are linked to the correct inmate, and that the flow of data remains uninterrupted. This data validation interface not only prevents the importing of bad reports due to human errors, but also has an automated alert system for any critical errors.

“We set up alert systems for the various validation points, and created an interface that ensures all other interfaces are working properly. Any interface that stops is automatically restarted, and an alert is sent for any issues that requires support. This has not only helped ensure accuracy, it has significantly reduced the strain on our resources - we no longer need to monitor the interface dashboard 24/7” said Kent.

The DRC’s conversion to a new EMR did create some integration needs to ensure both systems can run concurrently until the migration was complete, but it also opened an opportunity to automate redundant tasks and ensure accurate data through real-time data validation. Regardless of data size, the DRC is certain that they are dealing with the right information.

To learn more about how you can ensure real-time data validation through better integration, **contact iINTERFACEWARE today.**

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ABOUT iINTERFACEWARE®:

Since 1997, iINTERFACEWARE® has been on a mission to make healthcare data integration easier. Today, over 800 healthcare providers and software companies rely on iINTERFACEWARE’s software, services and support to exchange information between incompatible systems. iINTERFACEWARE’s Iguana® integration engine is used globally for rapid integration with EMRs, Billing Systems, Medical Devices, Supply Chain Management, Health Information Exchanges and much more.