



H.R.Z. Case Study

Professional Hospital Guaynabo - Puerto Rico



The Customer

Professional Hospital Guaynabo.
<https://professionalhospital.com/>
Guaynabo, Puerto Rico.

Customer Profile

Regional Hospital.

Challenges

Connecting the radiology department Imaging Modalities to the RIS using DICOM Modality Worklist Service.

H.R.Z. Solutions

HL7Kit 2018 DICOM Modality Worklist interface.

Benefits

Complete integration achieved using H.R.Z. HL7Kit as a single product solution for the entire multi-vendor environment. This system is self-maintained by the customer.

Result

Reynaldo Rosa, Director of Radiology said: "H.R.Z. helped us with products and services to achieve our goals in a timely manner."



HL7Kit 2018 Worklist Manager Integration in P.H.G.

About Professional Hospital Guaynabo - Puerto Rico

Professional Hospital Guaynabo is the most modern healthcare facility on the island and of our board-certified doctors in Orthopedics, Plastic Surgery, Internal Medicine, General Surgery, Anesthesiology, Gynecology, Diagnostic & Interventional Radiology, and Neurosurgery. Expanded operating rooms and private suites.

Challenges

At the department of Radiology there are 5 imaging devices from different vendors:

- CT: Siemens Somatom Emotion 16-Slice
- MR: Philips Achieva 1.5T
- US: Mindray DC-7 Ultrasound
- Radiography 1 - DR: ViVIX-S 14x17 Wireless | Viewworks VXVue
- Radiography 2 - CR: Agfa CR 30-X

When Reynaldo Rosa, Director of Radiology came to P.H.G. he faced the challenge of integrating the hospital's RIS with the Modalities.

The solution that he chose was based on his prior interest in DICOM and his reading in [Roni's blog](#).

Solution

The information for building the worklist was already available in the radiology department information system (RIS). The RIS, from local vendor, utilize MS SQL database.

H.R.Z. installed An HL7Kit with MWL interface and connected it to all the devices. That worked easily for most of the Imaging Devices.

One last device left that was not able to receive and display the Worklist properly.

We investigated this issue by consulting the device DCS (DICOM Conformance Statement) and together with the log collected on site we were able to find the reason of not showing the results on the device workstation. These kind of challenges is common in a multi-vendor environment.

Using H.R.Z. HL7Kit simplifies the integration phase to a minimum as most of the vendors are following the same data structure. In some cases we do find some challenges that can be overcome with our advanced and flexible technology to tailor the interface right and solve the challenge.

Results

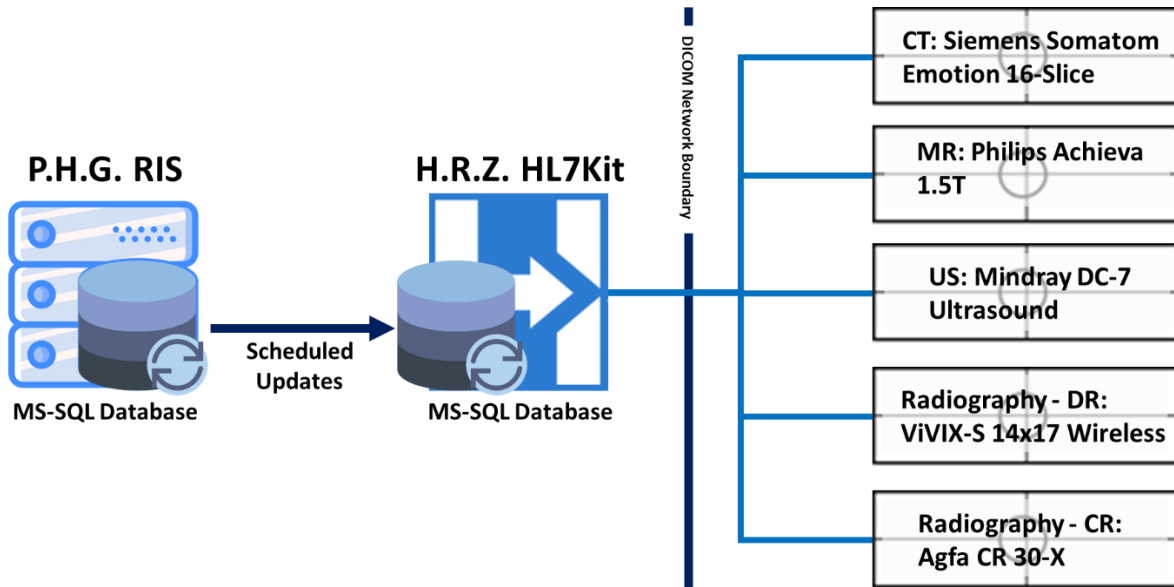
At the end of the day the integration project was successful as Reynaldo Rosa said: "It was the shortest project we ever did. Using H.R.Z. technologies allowed us to easily adopt it to our systems due to ease of use and on-the-job training provided to us during the project implementation. Bottom line, all systems are connected and working according to our expectations".



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Solution Diagram and Description



Using HL7Kit 2018 allows us to provide MWL to all of the Imaging Devices. The RIS is from a local vendor and works with MS SQL database.

About H.R.Z.

H.R.Z. Software services LTD develops innovative Medical Imaging and Healthcare IT software solutions. H.R.Z. DICOM® and HL7® solutions shorten development and deployment cycles resulting in significant saving.

We offer validated, documented, field tested, proven technology for Medical Device Manufacturers, Hospitals and Medical Imaging Clinics.

Our products are installed worldwide both as OEM and as end customer's solutions.



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