



# TELERADIOLOGY





Prestige Blue Chip, # 9, 4th Floor,  
3rd Block, Hosur Road,  
Near Dairy Circle, Bangalore - 560029

GYS Universal  
Plot No. - A 3,4,5, Sec. 125  
Noida, UP - 201301

P O Box 73030, ED 22,  
Building 16, Dubai Internet City  
Dubai, UAE

4th Floor, GYS Infinity, Paranjape Sche B,  
Subhash Road, Vile Parle East,  
Mumbai - 400057

Write to us at : [sales@healthfore.com](mailto:sales@healthfore.com) • For more details please visit : [www.healthfore.com](http://www.healthfore.com)

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# TELERADIOLOGY







# NEXT

## REVOLUTION

IN HEALTHCARE INFORMATION TECHNOLOGY

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# ADVANCED HEALTHCARE

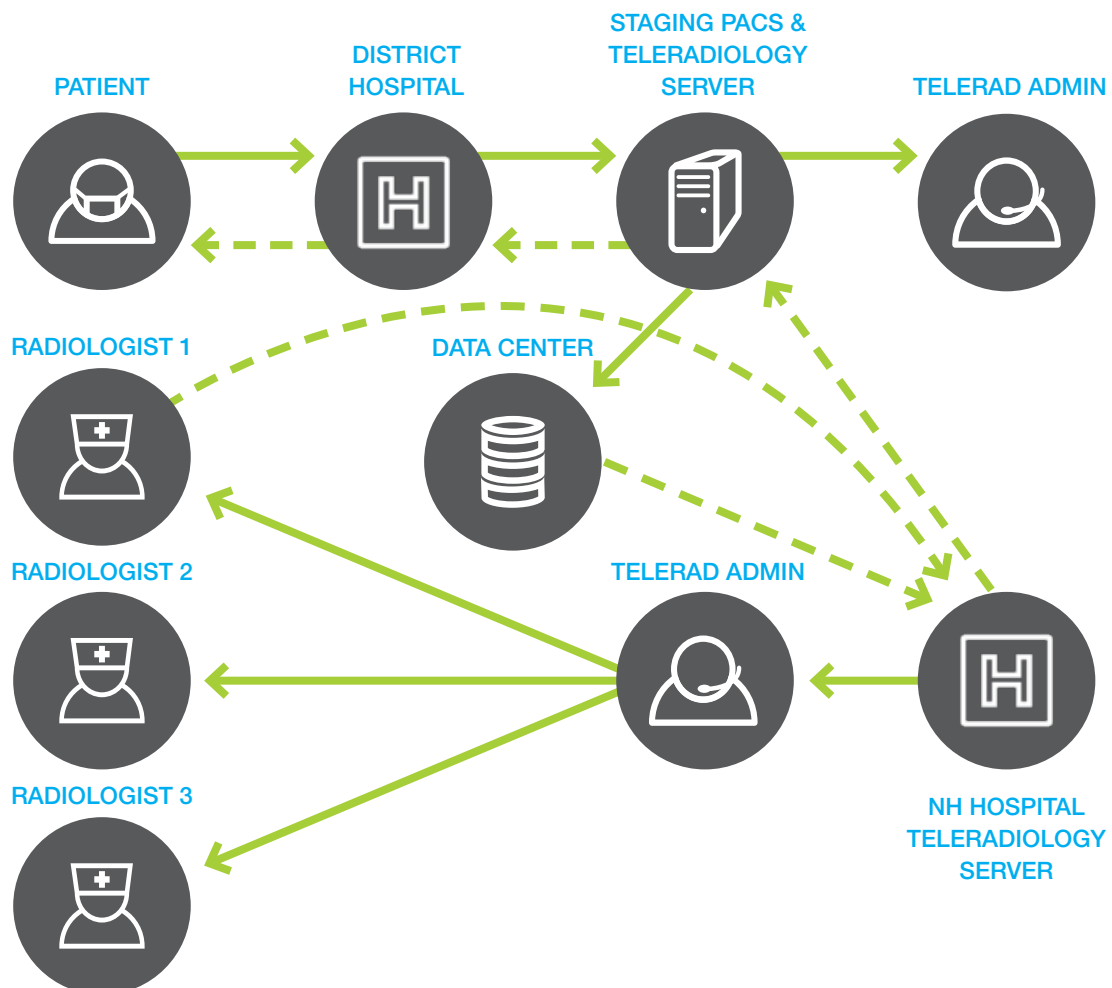
HealthFore partners with district hospitals in North-East India for electronic transmission of radiographic images from diagnostic centers to reporting centers for consultation. Our teleradiology solution enables multiple users to view images simultaneously at different locations. We combine our web-based, enterprise-class solution with domain expertise to provide reliable healthcare in remote villages of India.

### Imaging transcends boundaries

A majority of the population in North-East India cannot access quality healthcare infrastructure. There is a shortfall of 48% community health centers and 52% specialists at health centers in the North-Eastern states. Almost 45% of radiology departments in government hospitals are understaffed and 56% function without a department head.

HealthFore's teleradiology services address deficiencies in the public healthcare system of the region. We collaborate with district hospitals to facilitate remote diagnosis. We streamline the flow of radiographic images from different locations for simultaneous review by a team of radiologists.

Our teleradiology infrastructure includes hardware and software for capturing data from X-Ray/ CT scan/ USB machines, and transmission to a reporting center for analysis and a central data center for storage. In addition, our experts provide diagnostic reports.



*The HealthFore teleradiology network in North-East India*



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# CONNECTING **THE DOTS**



The HealthFore teleradiology solution combines Picture Archival and Communication System (PACS) and Radiology Information System (RIS). Our solution integrates images from multiple clinical modalities with patient data. It manages radiology workflow and improves department efficiency. Significantly, the web-based solution addresses the growing analytical and storage requirements of emerging clinical modalities.

Our teleradiology solution connects diverse modalities through Digital Imaging and Communications in Medicine (DICOM) protocol for unified data management. We provide a DICOM converter to convert non-DICOM clinical modalities into DICOM for centralized data storage. Our USFDA-certified solution complies with DICOM 3.0 and Health Level (HL)-7 standards.

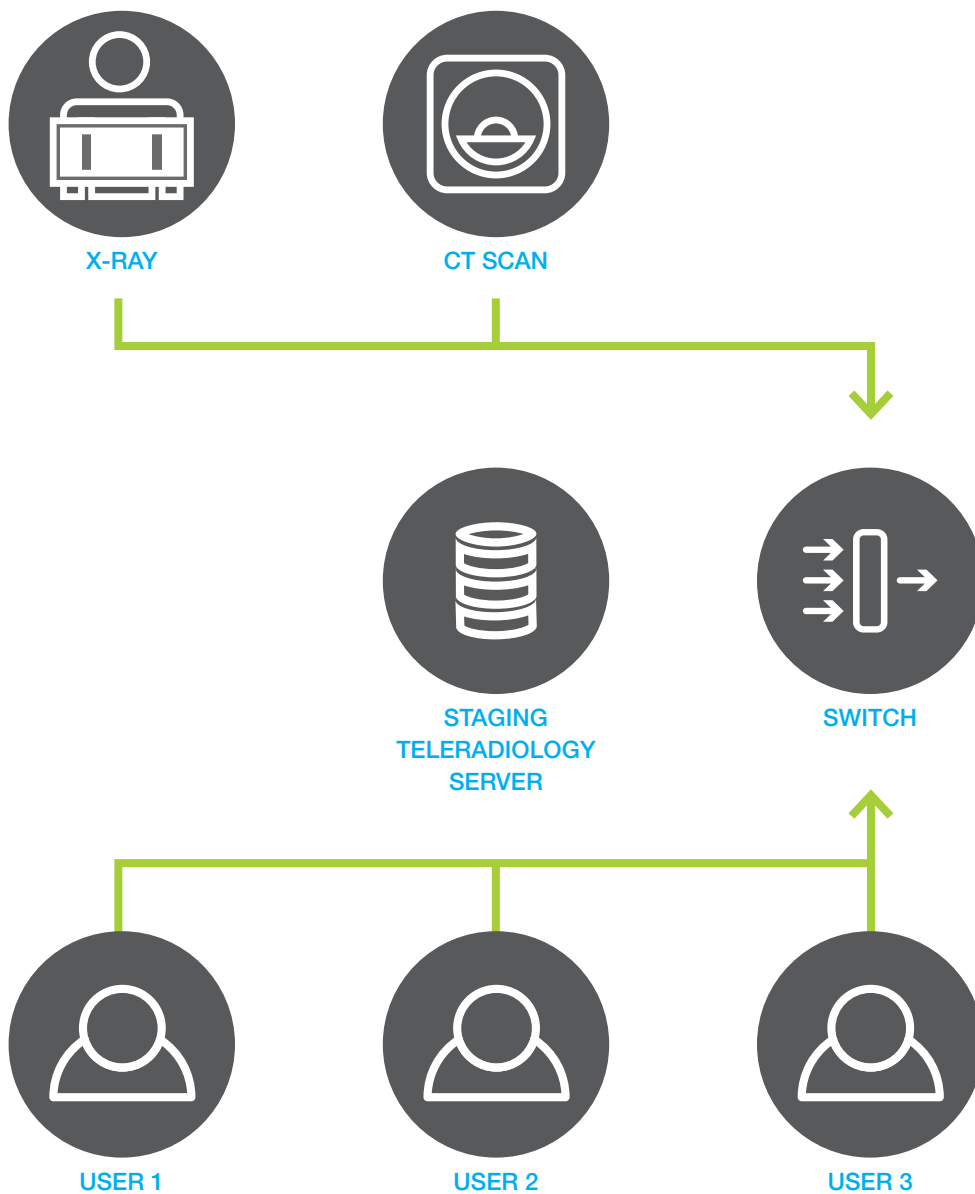
# MAINTAINING SEAMLESS CONNECTIVITY

The HealthFore teleradiology infrastructure connects the diagnostic center of district hospitals to a reporting center and a central data center. Radiology images of patients are captured by the PACS server of the hospital. PACS users at the hospital's diagnostic center transmit images to radiologists at the reporting center for evaluation and reporting.

Digitally signed (tamper-proof) copies of the radiology report are transmitted to the respective hospital and the central data center. Radiology images of patients are stored in the local PACS server of the hospital, while a backup of the report, images as well as patient data is maintained in the central data center.

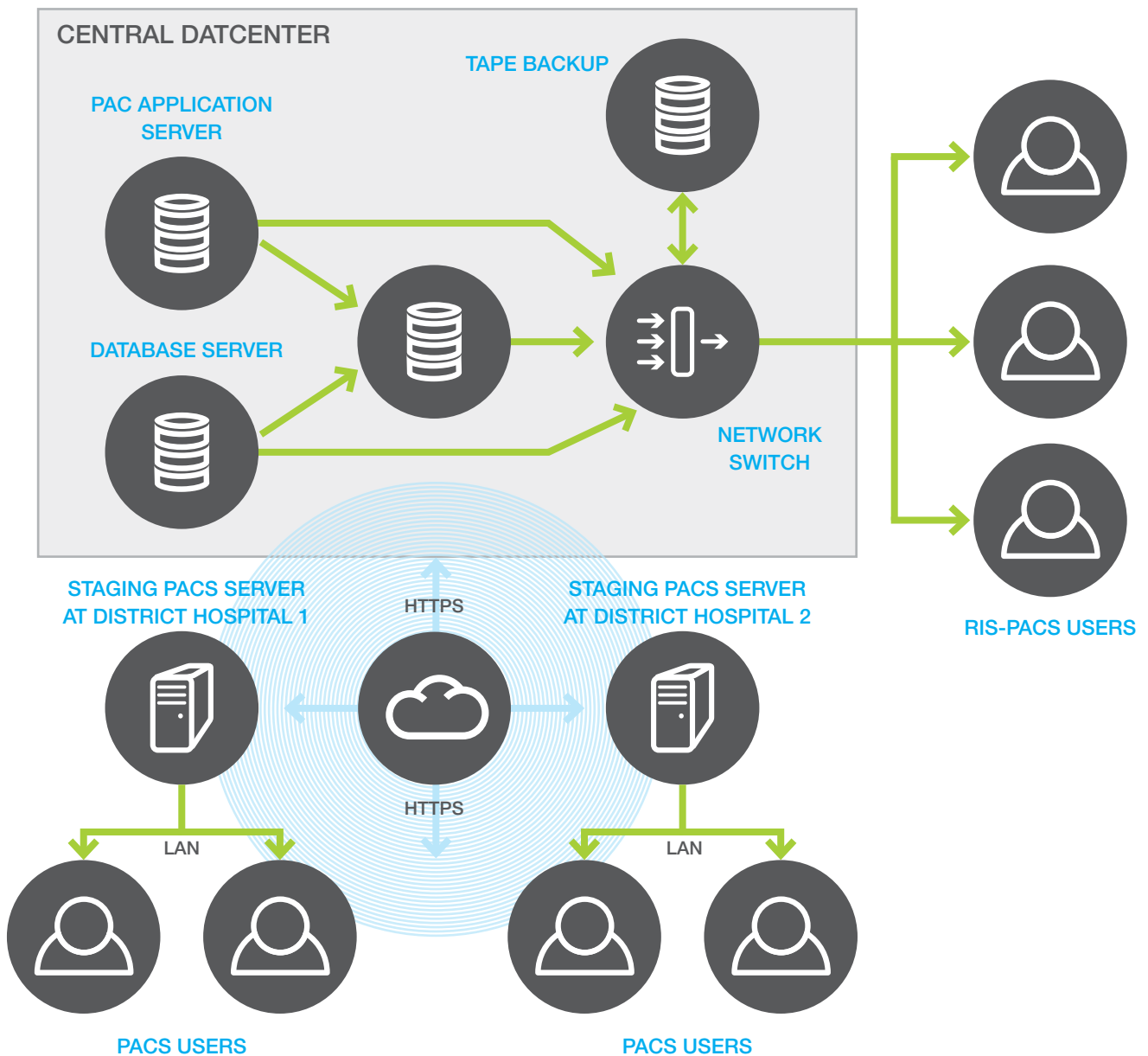
HealthFore's central data center for teleradiology services includes an application server, database server, Storage Area Network (SAN) devices, and tape backup. A team of PACS users at the central data center enables patients to retrieve radiology reports from the data center, if required.





*The HealthFore teleradiology workflow*





*A HealthFore data center*

Our teleradiology solution defines workflow between the diagnostic center, reporting center and central data center. It enables prompt assessment and ensures reliable storage of patient records.



# ABOUT HEALTHFORE

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HealthFore provides end-to-end healthcare IT solutions and services.

We partner with state governments in India to upgrade the public healthcare infrastructure, create awareness about healthcare schemes, and deliver reliable patient care to under-served communities.

