

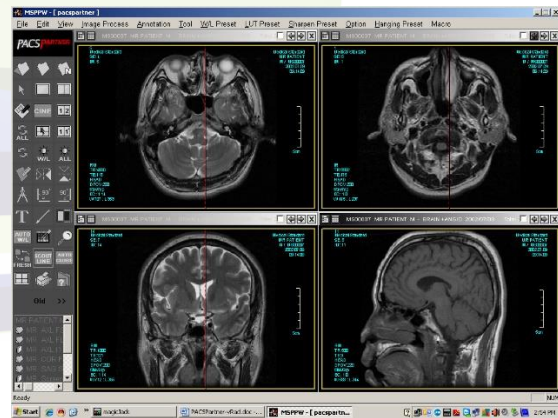
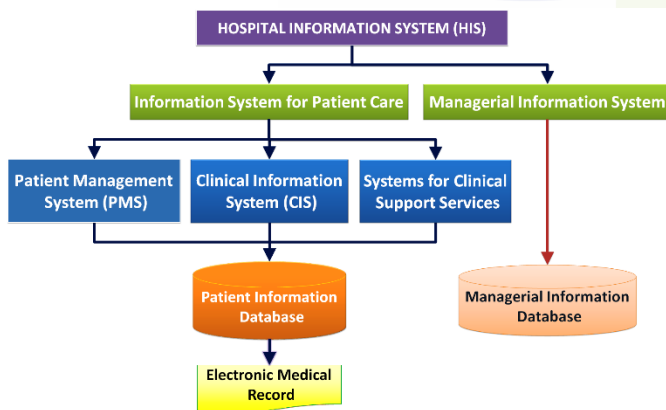


## How Hospitals Benefit from Hyper-Converged Infrastructure



For hospitals, delivering real-time data to doctors and nurses efficiently and securely is crucial. The easier getting access to patients' medical records is, the more patients doctors can see and the more efficiently they can make better-informed decisions. Achieving these require an IT infrastructure that can effectively support core processes & applications, and pursue new use cases such as smartphones & other devices.

### Hospitals' Pain Points



In the early stage of informatization, hospitals have built HIS, PACS, electronic medical records and other medical information systems. However, the traditional architecture of the data center has become the constraints and bottleneck for hospitals' information systems and hinder them from developing their business more effectively & efficiently. Reformation of current data center is imminent.

Common data center pain points hospitals currently facing are:

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### Business System Performance Bottleneck Becoming More & More Obvious

With the continuously increasing number of access terminals and patients, the I/O processing capacity of the original devices that host hospitals' HIS, PACS and other systems has been unable to meet such demand. Especially in peak hours, HIS system responds slowly and even causes the whole system to jam. Hospital operation is largely affected, and it brings huge inconvenience to both hospital staff & patients.



### Difficult to Expand Data Storage Capacity for Medical Images

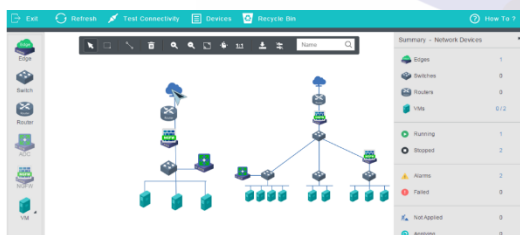
With the rapid development of medical technology, the constantly upgrading CT devices and other imaging equipment provide users with more accurate imaging diagnostic criterion. But what comes with it is the accelerated growth of PACS image data, the disk array storage space that PACS system currently uses is almost at its limit. The issue of storing image data of PACS system needs urgent solution.



### Storage/Server Single Point of Failure. Business/User Data at Risks

HIS/PACS system store core information of hospitals. In the face of massive data storage, if single (one) server or storage failed, data agent would suffer irreversible loss. It could take hours even days for storage system to return to normal operation, the would expose operations and data security to great risk.

## Sangfor HCI Solution



Faced with such large scale of concurrent business and data processing requirements, hospitals recognize that a cloud data center based on hyper-converged infrastructure is the inevitable choice for timely business transformation.

Hermina Hospital and Husada Hospital from Indonesia, as well as 20+ hospitals

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in Mainland China have chosen Sangfor HCI instead of other cloud computing vendors namely for the following reasons:

**Sangfor HCI can significantly shorten the time for new business to go online.**



**Sangfor HCI can ensure high availability of business systems & reduce hardware failure as well as system downtime.**



**The distributed storage technology utilized by Sangfor HCI enables smooth, horizontal expansion in the future. The automated storage tiering technology greatly improves the response time of business systems and boost their performance.**

### **Sangfor HCI Highlights**

- IT management can be simplified dramatically with one unified web-based management platform for compute, storage, networking and security.
- Business continuity can be guaranteed with native high availability, even 0 downtime can be achieved for mission-critical applications by working in conjunction with virtual load balancer
- Data is distributed across multiple hosts with multiple copies to ensure data integrity, high-speed backup is fully integrated for local or remote data protection
- Mission-critical applications (Oracle DB, MSSQL DB) are fully optimized by Sangfor HCI, storage performance can be further enhanced with SSD tier-ing and caching
- TCO (Total Cost of Ownership) reduction at minimum 70% by hardware consolidation and O&M simplification! Time-to-market shortened from weeks to days or even hours.

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## Sangfor HCI Healthcare Customers



翠義市人民醫院  
GONGYI CITY PEOPLE'S HOSPITAL



华为门诊部  
Huawei Clinic



临汾市妇幼保健院儿童医院  
Linfen Meternity & Child Healthcare Hospital



淄博市中心医院  
Central Hospital Of Zibo



安徽济民肿瘤医院  
ANHUI JIMIN CANCER HOSPITAL



南華大學 附属第三医院  
THE THIRD HOSPITAL UNIVERSITY OF SOUTH CHINA



深圳市宝安区沙井人民医院  
SHENZHEN BAO'AN SHAJING PEOPLE'S HOSPITAL  
广州医科大学附属深圳沙井医院  
GUANGZHOU MEDICAL UNIVERSITY AFFILIATED SHENZHEN SHAJING HOSPITAL



淄博市中心医院  
Central Hospital Of Zibo 高青院区



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