INFINITT Healthcare PACS Structure for Group Hospitals

INFINITT Indonesia

Sep / 2020





INFINITT Healthcare



Multipolar Profile



PT Multipolar Technology Tbk (MLPT)



Pemimpin & Terpercaya

- System Integrator terkemuka sejak 1975
- IPO 8 Juli 2013 Sektor Perdagangan Umum, Jasa dan Investasi (Kode saham MLPT)



Solusi & Layanan Menyeluruh

- End-to-End System Integration
- · Total IT Managed Services
- Pengelolaan dan Pengoperasian Data Center



Basis Pelanggan yang Kuat

- Perbankan & Keuangan
- Publik
- Telekomunikasi
- Perusahaan besar lainnya di sektor komersial, kesehatan, pendidikan

Entitas Anak

PT Visionet Data Internasional (VDI)

Total IT Managed Services dengan titik layanan di seluruh Indonesia

PT Graha Teknologi Nusantara (GTN)

Layanan Pengelolaan dan Pengoperasian Data Center Rated 3 (GTN Data Center)

Mitra Terpercaya Penyedia TI Kelas Dunia

Cisco, F5, Google, HPE, IBM, Lenovo, Microsoft, NCR, Nutanix, Oracle, VMware

Tim yang Kompeten & Berkomitmen

- Jumlah karyawan 2.900+
- Sangat berpengalaman di berbagai proyek besar & kompleks, bersertifikasi & metodologi terpercaya



Infinitt Profile

Founded December 2002

Type Public (listed on the Korean Exchange)

Headquarters Seoul, Korea

Business Medical software products & services development

Key products PACS, VNA, cloud services

Global offices U.S, Japan, China, Taiwan, Malaysia/Indonesia, UAE,

Europe, U.K, Brazil

Employees 489 (2018)

Market share 75% of large hospitals (Korean PACS market, 2018)

31% of large hospitals (SE Asia PACS market, 2018)

Product Lineup

INFINITT continuously invests in R&D to diversify its technologies and products.

Radiology	Clinical Solutions	Enterprise Imaging
Radiology, cloud service & teleradiology	Cardiology, pathology, dentistry, radiation oncology, ophthalmology, etc.	VNA, universal viewer
PACS	Cardiology PACS	Vendor neutral archive
RIS	Digital pathology solution	Universal viewer
Data analytics solution	3D diagnosis support solution	Ecosystem
Reporting solution	3D printing service	
Fault prevention solution	Dental PACS	
Mobile viewer	Radiation oncology PACS	
Mammography PACS	Radiation oncology information solution	
Cloud PACS	Clinical information solution	
Cloud backup	Ophthalmology PACS	
Teleradiology solution	Vet PACS	



INFINITT PACS

Radiology PACS

All-in-one solution	PACS, RIS and 3D integrated under a single database platform
Ultra-fast image loading	JIT (Just-In-Time) image loading Progressive loading Oncall download 64-bit support
Easy-to-use UI	Intuitive user interface Good Design Award (2015)
Robust stability	Zero downtime support Robust, reliable data backup & backup loading
Robust security	128-bit SSL encryption HIPAA compliant DICOM TLS (Transport Layer Security) 6-level log reinforcement & audit trails
Standards-compliant	DICOM, IHE, HIPAA, HL7



INFINITT RIS

Radiology information solution

Flexible & scalable architecture	Optimized for any facility type/workflow Custom worklists
Smart scheduling	Easy, intuitive scheduling for multiple procedures across different facilities Recommends available time for each exam
Custom reports	User-defined report templates via MS Word Automates report distribution via print, fax, email, SMS
Physician portal	Referring physicians can access reports and images online from anywhere, anytime.
Patient portal	Patients can access medical records and make appointment reservations online.
Mammo portal & lung portal	Manages the results of breast & lung cancer treatments

INFINITT Cloud PACS

Cloud PACS



Pay-per-use	Only charges the amount of storage used No need for initial IT infrastructure, hardware setup or operating staff
Technical support	INFINITT engineers provide regular system check-ups, data backups, and emergency on-call services.
Web access	Internet access to images from anywhere, anytime
Robust security	Prevents data loss and minimizes security risk via encryption and intrusion prevention system
Up-to-date PACS	Latest version of the award-winning INFINITT PACS
Remote reading	Improves diagnostic accuracy and reading turnaround time

INFINITT TeleRadiology Teleradiology solution



High quality reading	Experienced radiologists from each specialty provides high-quality reading services.
Emergency cases	Temporary reading services for emergency cases and in the absence of on-site radiologists
Technical support	Regular system check-ups and emergency on-call services
Robust security	Prevents data loss and minimizes security risk via encryption and intrusion prevention system
Up-to-date PACS	Latest version of the award-winning INFINITT PACS
Standards-compliant	DICOM, IHE, HIPAA, HL7

45 Medical Facilities in Indonesia (July 2020)

RSUP Nasional Jakarta
Dr. Cipto Mangunkusumo



INFINITT PACS	2012
INFINITT RIS	2012
ULite (universal viewer)	2018

RSUP Sanglah





INFINITT PACS	2017
INFINITT RIS	2017
INFINITT DoseM	2017
ULite (universal viewer)	2017

Siloam Hospitals



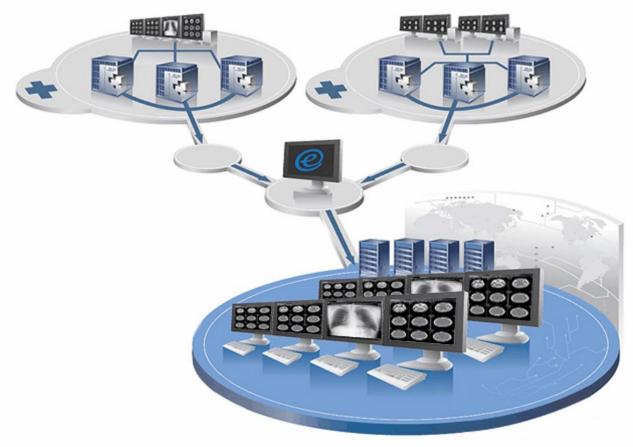


INFINITT PACS	2018
INFINITT RIS	2018
ULite (universal viewer	2018
INFINITT Consolidated Server	2018
INFINITT Distributed Server	2018

Jakarta	RS Yarsi
Jakarta	RSUD Cengkareng
Jakarta	RS St. Carolus
Jakarta	RS Royal Progress
Jakarta	Kaikoukai Clinic
Jakarta	365 Open Clinic
Bandung	RSUD Al-Ihsan
Bandung	Santosa Hospital
Cilegon	RSUD Cilegon
Surabaya	RS Mitra Keluarga, Kenjeran
Depok	RS Universitas Indonesia
Medan	RSUP H. Adam Malik
Medan	RS Grandmed
Manado	RSUP Prof. dr. R.D. Kandou
Pontianak	RS Mitra Medika

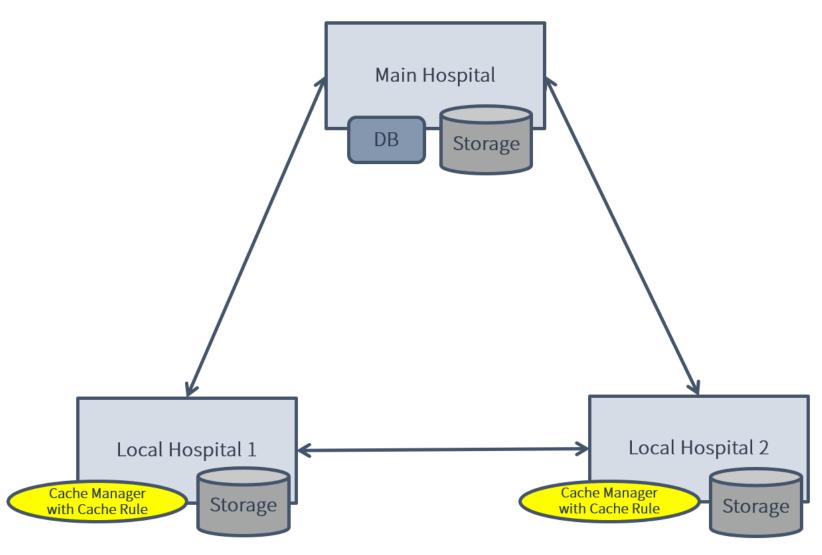


INFINITT PACS provides a single database for group hospitals by using Distributed Server(DS) system



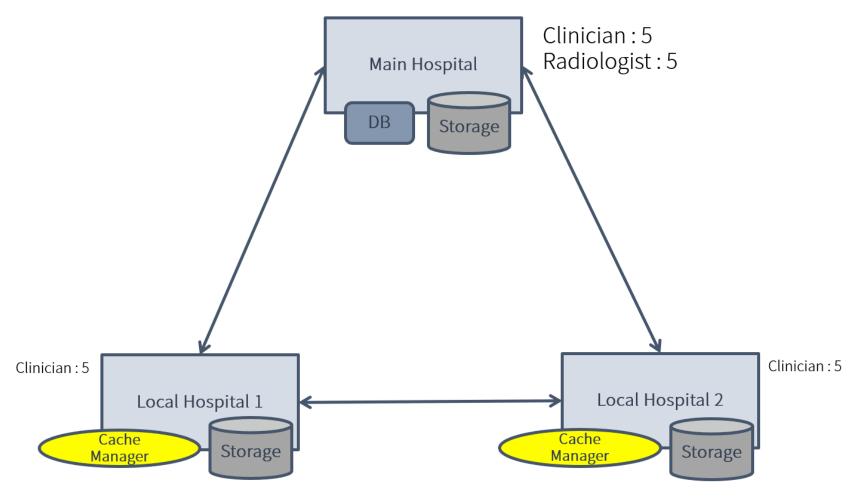
Centralized Database Management

Retrieve images from local cache server via LAN while sync patient & order data with main DB via WAN



Benefits of using Distributed Server

Hospital Group



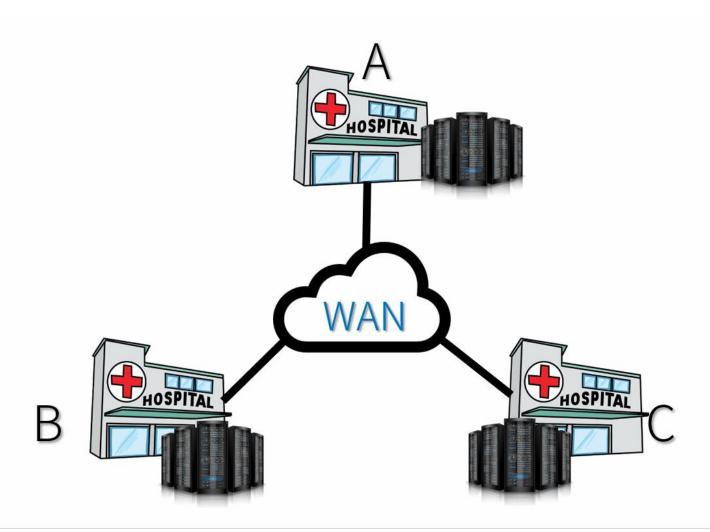
Emergency Cache Server

Ordinary



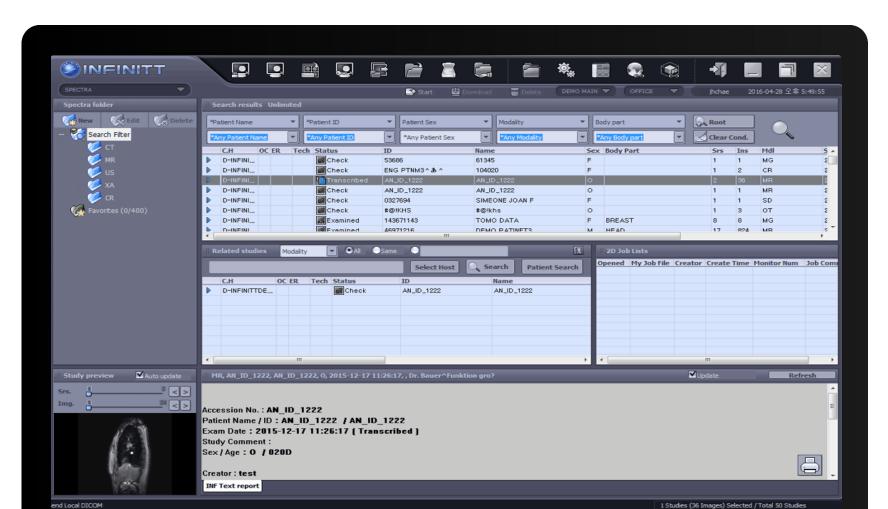
Consolidated Worklist

INFINITT PACS provide function to search information of the related other hospital.



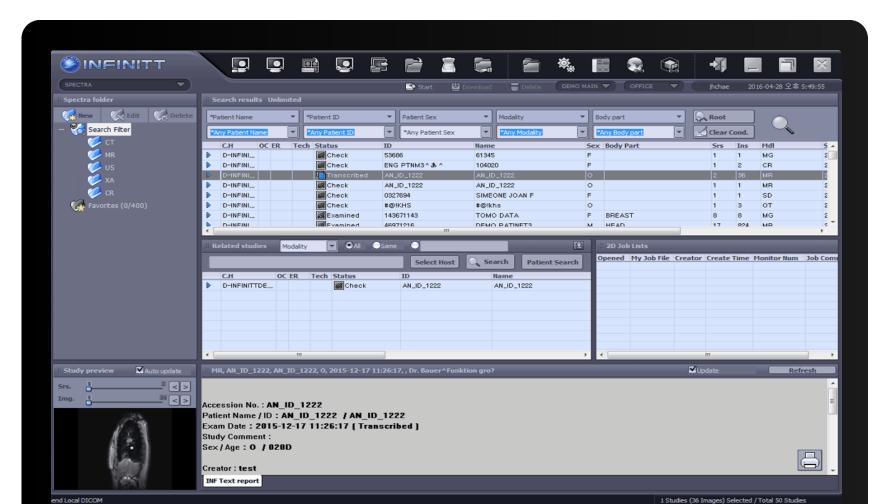
Consolidated Worklist

✓ If there is same patient information



Consolidated Worklist

✓ If there is no same patient information



Task Prioritization

Smart Assign

Automatically assign exams to the appropriate radiologists Assignment of exams based on modalities(MR, Mammo, etc.), institution, specialty, and difficulty of reading Useful for group hospitals with TeleRadiology of all registered radiologists



Audio warning for STAT & new exam

Prioritization of reading cases are critical for radiology department's timely service.

An urgent request from ER comes to the radiology with very limited TAT.

Such a case, INFINITT PACS detect the urgent cases and alert the radiologist with audio warning



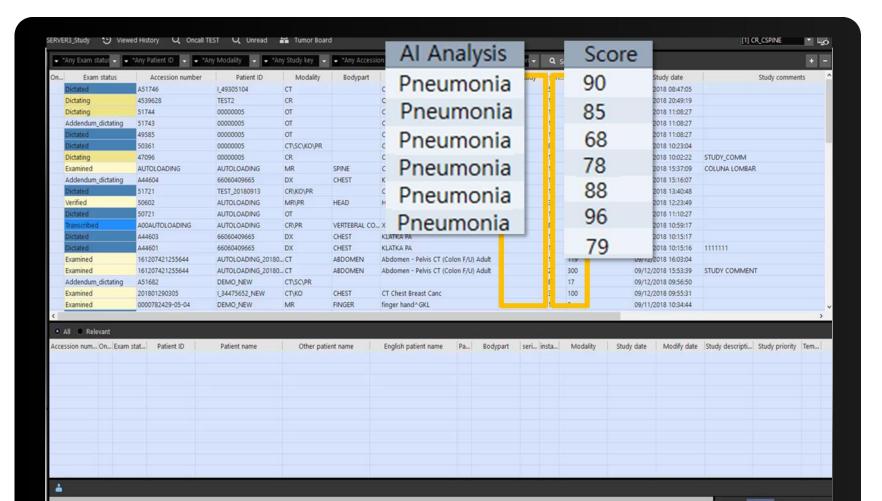
Al-empowered

- √ Value-based care
- √ Maximizing diagnostic productivity
- ✓ Automating diagnostic process
- ✓ Integrating AI & data analytics solutions into the daily diagnostic workflow



AI-empowered

- ✓ INFINITT PACS Worklist AI Result (Type of disease and confidence score) display
- ✓ AI-empowered data analytics solutions accessible to radiologists by seamlessly integrating them into the daily diagnostic workflow



AI Solutions

Various AI solutions integrated into PACS in a way that makes it easy for the users to access and make use of the AI findings in real clinical settings. Users can directly refer to the AI results from the PACS worklist and viewer without having to switch between different systems.

Vendor	Modality/Exam	Functionality
Al analysis Inc.	Brain MR	Detection of differences in current and prior exams
Aidence	Lung CT	Lung nodule detection
ClariPi	Low-dose CT	CT noise-reduction for higher quality images
Lunit	Chest X-ray	Lung disease detection
	Breast Mammo	Breast cancer detection
Mevis	Lung CT	Lung nodule detection
Monitor	Lung CT	Lung nodule detection
Terarecon	Various modalities	67 kinds of AI modules
Vuno	Bone age	Bone age assessment
	Chest X-ray	Lung disease detection
	Brain MR	Dementia detection via qualification of brain lesions
	Fundus	Fundus exam screening
	Lung CT	Lung nodule detection
	Automatic voice recognition	Automatic voice recognition
INFINITT	Lung CT	Lung nodule detection
	Colonoscopy	Colonoscopy screening
JLK Inspection	Various modalities	Al hub for 37 solutions

Report with QR-Code

No Film, No CD. QR-Code on radiology exam report to call patient's images on DICOM Viewer







