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health engine: Image-Enabled Patient Health Records with Oracle Multimedia

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Electronic Health Records

- Reduce costs and improve efficiency with Electronic Health Records (EHRs)
 - 360 degree view of all patient data
 - Latitudinal: Across all healthcare disciplines and specialties
 - Longitudinal: Throughout the lifetime of the patient
- Include images for a complete and integrated patient health record
 - Access from any location in multi-site hospitals
 - Access across national and regional networks
 - Access by physicians from work, home, other hospitals, access by patients
- Oracle Multimedia DICOM platform for image-enabled EHR

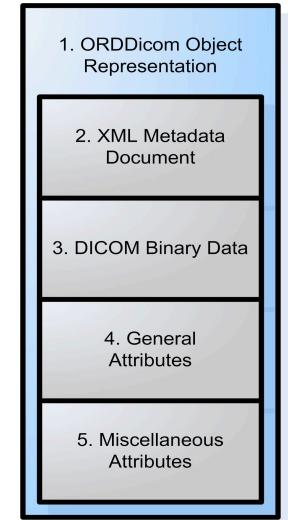
Oracle Multimedia DICOM for Managing Medical Images

- Oracle Database 11g provides native and comprehensive support for storing and managing medical images
 - **Vendor neutral, open, standards-based platform**
- Manage images with other patient data
- Address medical image data management requirements with database infrastructure
 - Security
 - Backup
 - Recovery
 - Availability
- Performance: As fast as underlying hardware device
 - Ex: Read 850 CT images/sec, Write 550 CT images/sec



Oracle Multimedia DICOM: Native DICOM Support

- DICOM Metadata extraction
 - Extract all 2028 standard tags
 - Extract vendor-specific extensions
 - Fast, accurate, search based on any DICOM attribute
- Include DICOM content in reports and display in browsers
 - Convert DICOM to web-friendly formats like JPEG
 - Create thumbnails
- Create DICOM images from legacy non-DICOM images
- Automated DICOM data validation
 - Check conformance to application requirements and verify data quality
 - Easily develop workflows that are conformance aware
- APIs for rapid development and deployment



Solutions with Oracle Multimedia DICOM

- Partners provide solutions on our infrastructure
 - Examples:
 - EHR: health engine from the i-engineers (this talk)
 - Clinical trials image management: IBISimg from IBIS
- Use with other Oracle products
 - Examples:
 - Oracle Secure Enterprise Search
 - Oracle Universal Content Management
 - Oracle Berkeley DB

Multimedia/DICOM at OOW 2009 - Sessions

Date/Time	Title	Location
Wednesday, Oct. 14		
11:45 a.m	Oracle's Multimedia DICOM API: Next-Generation Platform for Medical Imaging Solutions	Moscone South Room 270
1:00 p.m.	Overlook II: Mod PL/SQL Development Tips – including Google Maps, Spatial Integration and Sending HTML Formatted Emails with Graphics	Moscone South Room 270

- DEMOgrounds
 - **Enterprise Multimedia Management and Medical Imaging - Moscone West W-021**
 - Sun Microsystems (Scalable and Efficient Tiered Archive) – *Moscone South - 1101*
 - LSI Systems (IBM Booth) – *Moscone South - 733*