



2011

HL7 Spain
Informe de
Actuaciones

HL7 Internacional



HL7 International (Health Level Seven) es una “Organización de Desarrollo de Estándares” (SDOs), para el ámbito de la salud. Fundada en 1987 sin fines de lucro está acreditada por ANSI desde 1994. Opera a nivel internacional y su misión es proveer estándares globales para los dominios: clínico, asistencial, administrativo y logístico, con el fin de lograr una interoperabilidad real entre los distintos sistemas de información en el área de la salud.

Actualmente dispone de:

- 1300 miembros corporativos
- 2500 asociados
- 57 Afiliados internacionales
- 95% de los fabricantes de software de Salud a nivel mundial

HL7 SPAIN



HL7 SPAIN es una asociación profesional sin fines de lucro que representa a HL7 Internacional en España desde 2004. Su misión es difundir el conocimiento de los estándares HL7 y apoyar su implementación en los sistemas de información de salud que operan en España. Con más de 60 afiliados, entre los que están las principales empresas del sector y la gran mayoría de las administraciones de salud de las comunidades autónomas.

Misión de HL7 SPAIN



HL7 SPAIN facilita apoyo a:

- **Profesionales de la salud**
- **Industria TIC Biomédica**
- **Administraciones de Salud**
- **Grupos de investigación universitaria**

Involucrados en el uso de los estándares TIC para intercambiar, integrar y compartir la información que requiere la práctica clínica, la gestión, provisión y evaluación de los servicios de salud de España.

Afiliación



2011 HL7 SPAIN Membership Structure

- 46 Industria TIC Biomédica
- 16 Administraciones de Salud
- 5 Universidades

67 Miembros corporativos

Actividades (1)



2010 - 2011 Actividades

○ **Spanish Working Group Meetings**

- **9 de Febrero, 2010 – Reunión de Junta HL7 Spain y Comité Técnico en INTEL, Madrid.**
- **14 de Abril, 2010 – Asamblea General Extraordinaria de HL7 Spain en Bilbao, sede de OSAKIDETZA.**
- **8 de Julio, 2010 – Reunión de Junta HL7 Spain y Comité Técnico en el Hospital General Universitario Gregorio Marañón de Madrid.**

Activities (2)



2010 - 2011 Actividades

○ **Spanish Working Group Meetings**

- **1 de Diciembre, 2010 – Reunión de Junta HL7 Spain y Comité Técnico en el Hospital General Universitario Gregorio Marañón de Madrid.**
- **22 de Febrero, 2011 – Reunión de Junta HL7 Spain y Comité Técnico en INTEL, Madrid.**

Activities (3)



2010 - 2011 Actividades

- **HL7 SPAIN & Ministerio de Sanidad**
 - **EUROPEAN HEALTH INTEROPERABILITY MEETING (EHIM) BARCELONA 2010 – 15 al 18 de Marzo. 151 Asistentes.**
 - **Comité Técnico de Historia Clínica Electrónica. 21 Asistentes.**

Formación

672 Alumnos



| HL7 SPAIN 2010 | | | | | | | | | | | | |
|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Training & Certification Program | | | | | | | | | | | | |
| | BCN | SEVILLA | BCN | BCN | VALENCIA | VALENCIA | 8th Ed | BILBAO | SEGOVIA | MADRID | MADRID | 9th Ed |
| | 08.03.2010 | 10.03.2010 | 15.03.2010 | 17.03.2010 | 23.03.2010 | 25.03.2010 | 14.04.2010 | 14.04.2010 | 12.05.2010 | 17.05.2010 | 24.05.2010 | 21.09.2010 |
| Spanish e-Learning C. | | | | | | | 49 | | | | | 43 |
| V2.6 Workshop | 11 | | | | | | | | | 24 | 13 | |
| CDA R2 Workshop | | 15 | 7 | | 7 | | | | | | | |
| RIM R1 Workshop | | | | | | 5 | | | | | | |
| OIDs Seminar | | | | | | | | | | | | |
| HL7 & SNOMED Workshop | | | | | | | | | | | | |
| Technical Conference | | | | | 151 | | | 116 | 21 | | | |

| ZARA | TOLEDO | MADRID | MADRID | SEVILLA | TOLEDO | TOLEDO | BCN | BCN | MADRID | MADRID | Total | |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------|-----------------------|
| 27.09.2010 | 13.10.2010 | 18.10.2010 | 25.10.2010 | 03.11.2010 | 08.11.2010 | 09.11.2010 | 15.11.2010 | 22.11.2010 | 29.11.2010 | 13.12.2010 | | |
| | | | | | | | | | | | 92 | Spanish e-Learning C. |
| | | 17 | 21 | | | | | 12 | | | 98 | V2.6 Workshop |
| 19 | | | | 14 | | | | | 25 | 16 | 103 | CDA R2 Workshop |
| | | | | | | | | | | | 5 | RIM R1 Workshop |
| | 7 | | | | | | | | | | 7 | OIDs Seminar |
| | | | | | | 15 | 12 | | | | 27 | HL7 & SNOMED Works |
| | | | | | 52 | | | | | | 340 | Technical Conference |
| | | | | | | | | | | | 672 | |

Certificación (1)



107 Profesionales certificados en 2010

| HL7 SPAIN 2010 Certification | | | | | | | | | | | | |
|------------------------------|----------------------|-------------------|----------------------|----------------------|------------------------|--------------------|----------------------|-----------------------|----------------------|-------------------|------|--------|
| | MADRID 04.03.2010 | BCN 15.04.2010 | MADRID 31.05.2010 | MADRID 30.06.2010 | VALENCIA 01.07.2010 | ZARA 05.11.2010 | MADRID 11.11.2010 | SEVILLA 02.12.2010 | MADRID 15.12.2010 | BCN 16.12.2010 | Exam | Certif |
| V2.6 Certification Exam | 1 | 5 | 23 | 10 | 5 | 8 | 12 | 1 | | 15 | 80 | |
| V2.6 Professional Cert. | 1 | 5 | 20 | 7 | 5 | 7 | 10 | 1 | | 14 | | 70 |
| CDA R2 Certification Exam | 1 | | | 1 | 5 | | | 11 | 15 | 12 | 45 | |
| CDA R2 Professional Cert. | 1 | | | 1 | 4 | | | 7 | 14 | 7 | | 34 |
| RIM R1 Certification Exam | | | | | 3 | | 1 | | | | 4 | |
| RIM R1 Professional Cert. | | | | | 2 | | 1 | | | | | 3 |
| | | | | | | | | | | | 129 | 107 |

Certificación (2)



213 Profesionales certificados desde 2005

| HL7 SPAIN 2010 | | | | | | | | | |
|--------------------------------|--|--|------|------|------|------|------|------|-------|
| Certified Professionals | | | | | | | | | |
| | | | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | Total |
| V2.x Certified Professionals | | | 10 | 8 | 13 | 25 | 17 | 70 | 143 |
| CDA R2 Certified Professionals | | | | | 2 | 3 | 28 | 34 | 67 |
| RIM R1 Certified Professionals | | | | | | | | 3 | 3 |
| Certified Professionals | | | 10 | 8 | 15 | 28 | 45 | 107 | 213 |

Proyectos en colaboración (1)



- HL7 EDUCATION e-Learning Project
- HL7 SPANISH e-Learning Course
- HL7 SPAIN & UNIVERSITAT POLITÈCNICA DE CATALUNYA
 - RIM Automatic Filtering Research
 - HL7 Practitioner's Guide to UML & SCRUM
 - Security Domain Analysis Model
- IHE SPAIN Alliance

Proyectos en colaboración (2)



- HL7 SPAIN & UNIVERSITAT POLITÈCNICA DE VALÈNCIA
 - **CDA & Archetypes Editor**
- HL7 SPAIN & UNIVERSIDAD DEL PAÍS VASCO
 - **CDA & TERMINFO**

Casos de éxito



- **Personal Health Record Functional Guide**
- **Electronic Prescription Invoicing Guide**
- **Spyrometry CDA Implementation Guide**
- **DMAG's Secure EHR Editor**
- **LinkEHR CDA & Archetype Editor**

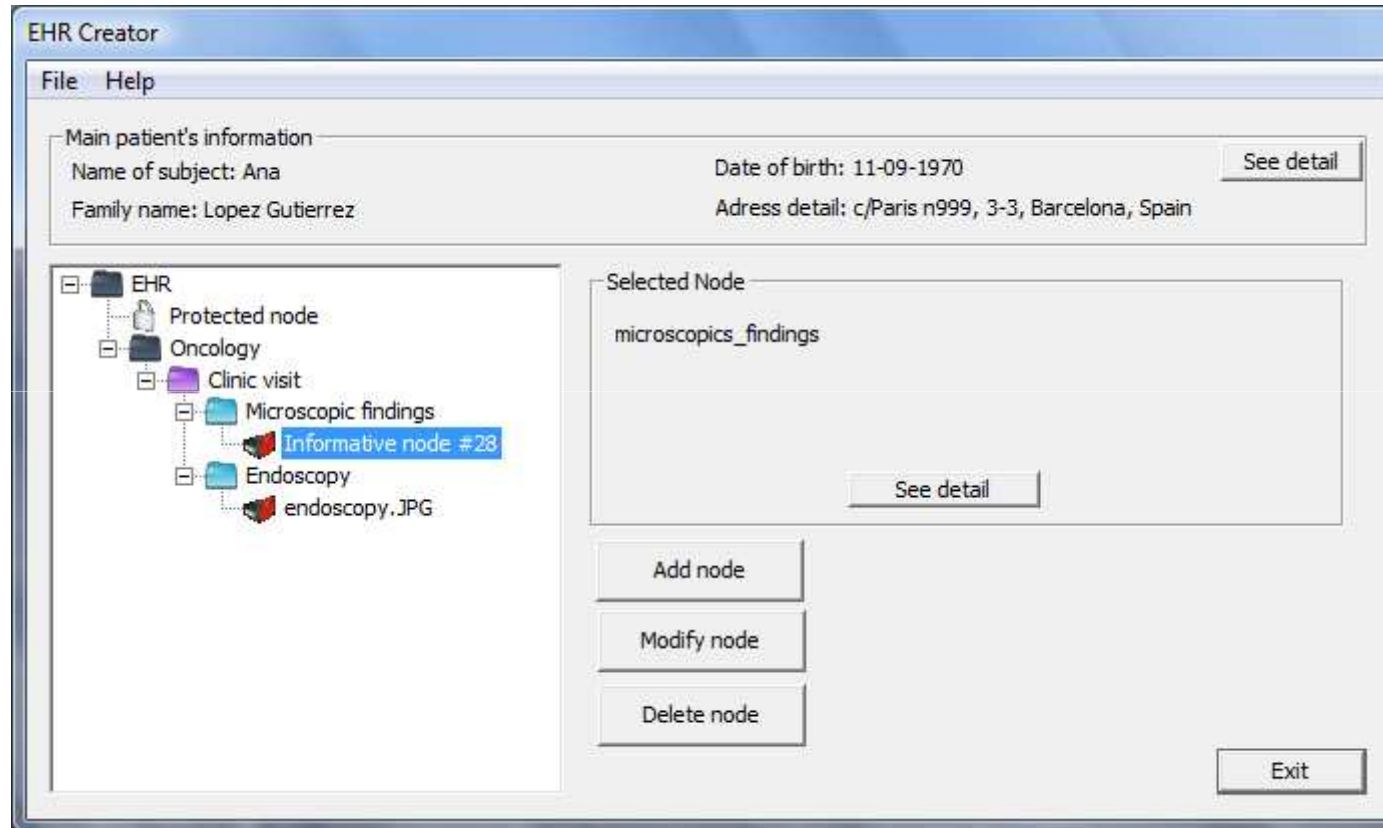
DMAG's Secure EHR Editor



- Use of the ISO/IEC **MPEG-21 standard** for defining and protecting EHRs (ISO 13606) and HL7 CDAs
 - MPEG-21 Part 2: DIDL (Digital Item Declaration Language)
 - MPEG-21 Part 4: IPMP (Intellectual Property Management and Protection) Components
- Protection of patients' **privacy**
- Guarantee of confidentiality & integrity of patients' data at any level of **granularity** in the EHR
- Patients can define their **privacy policies** and ensure they are enforced

Developed by the Distributed Multimedia Applications Group (DMAG) of the Universitat Politècnica de Catalunya (UPC), HL7 Spain member

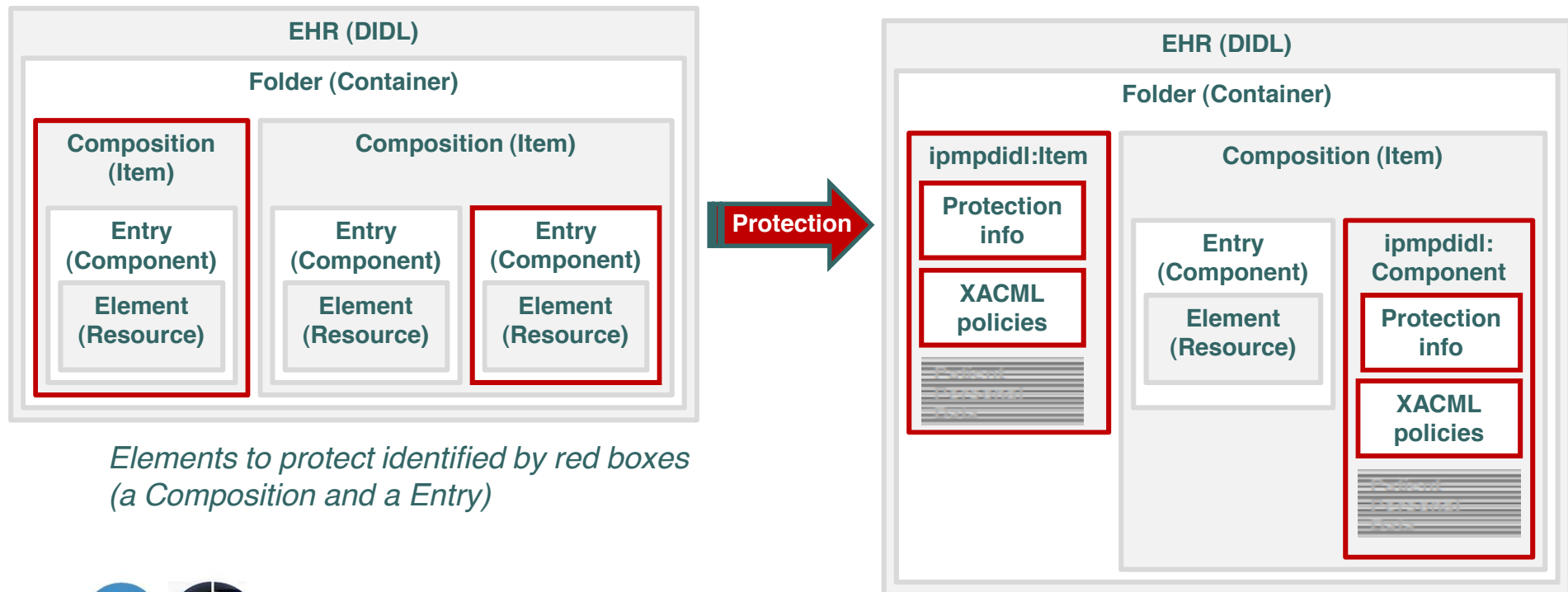
Secure EHR Editor: Sample screen



Technologist view
(oncology images, no gynecology info.)

Security and privacy approach

- **Protection:** MPEG-21 Intellectual Property Management and Protection (IPMP) Components
- **Privacy Policies** definition: OASIS eXtensible Access Control Markup Language (XACML)



LinkEHR CDA & Archetype Editor



- The objective is to study if CEN/ISO 13606 archetypes can be an alternative for defining CDA templates.
- LinkEHR Editor is a tool developed by the Valencia Polytechnic University as a Reference Model-independent archetype editor.
- HL7 CDA XML Schema can be imported into the tool and we can build CDA archetypes guided by that Schema.

<http://www.linkehr.com>

LinkEHR CDA Archetype Editor



The screenshot shows the LinkEHR CDA Archetype Editor interface. On the left, the 'Archetype Tree' displays a hierarchical structure for 'HL7-CDA-ClinicalDocument.Prueba.v1'. The tree includes elements like 'ClinicalDocument [at0000] {1}', 'author [1..*] (Obligatory)', 'code (Obligatory)', 'component (Obligatory)', and nested components like 'POCD_MT000040_Component2 [at0021] {0..1}', 'structuredBody (Optional)', 'POCD_MT000040_StructuredBody [at0022] {0..1}', 'component [1..*] (Obligatory)', 'POCD_MT000040_Component3 [at0023] {0..*}', 'section (Obligatory)', 'POCD_MT000040_Section [at0024] {0..1}', 'code (Optional)', 'component [0..*] (Not allowed)', 'entry [0..*] (Optional)', 'POCD_M...', 'act (...)', 'text (Option...', and 'title (Option...'. Other elements include 'confidentialityCode (Obligatory)', 'custodian (Obligatory)', 'effectiveTime (Obligatory)', 'id (Obligatory)', 'recordTarget [1] (Obligatory)', and 'typeId (Obligatory)'. There are also 'Language' and 'Ontology' icons at the bottom of the tree.

The right pane shows the 'POCD_MT000040_Entry' archetype details. It includes a 'Documentation' section with an 'ANY ALLOWED' checkbox, an 'Occurrences' section with 'Min.: 0' and 'Max.: 0' (with an 'Unbounded' checkbox checked), and an 'Ontology' section with a 'Text' field containing 'POCD_MT000040_Entry' and a 'Description' field containing 'This is a POCD_MT000040_Entry object'. Below this is a 'Search' button and an 'Edit' button.

A context menu is open over the tree view, listing various actions: 'Delete', 'Add child "contextConductionInd"', 'Add child "encounter"', 'Add child "nullFlavor"', 'Add child "observation"', 'Add child "observationMedia"', 'Add child "organizer"', 'Add child "procedure"', 'Add child "realmCode"', 'Add child "regionOfInterest"', 'Add child "substanceAdministration"', 'Add child "supply"', 'Add child "templateId"', 'Add child "typeCode"', and 'Add child "typeId"'. The 'Delete' option is highlighted with a red 'X' icon.

At the bottom of the interface, there are tabs for 'Info', 'Console', and 'Terminology'. Below the tabs is a table with columns for 'Code' and 'Copy Name', and a 'Copy Code' button.

En preparación



Nuevo curso e-Learning

o HL7 Practitioner's Guide to UML & SCRUM

Español 1ª Ed. Septiembre 2011

English 1st Ed. January 2012

