IMS Learning Design
Tooling in practise

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Objectives of this workshop

To provide an approach of IMS Learning Design

To use some tools to edit and run examples

To analyze specific examples and identify LD elements

To modify existing examples to improve the understanding

To present some running examples showing actual LD features

To discuss scope, practical use and pedagogical scenarios
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To provide an approach of IMS Learning Design

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Levels in IMS Learning Design

- **C**: Notifications
- **B**: Properties, conditions, calculations, global elements and monitoring services
- **A**: Users, learning activities, support activities, environments, resources, method, plays, acts, roles

External resources, links and services (forums, chats...)

SIGOSSEE, Heerlen, Nov 14th, 2005
Level A in IMS Learning Design

Users, learning activities, support activities, environments, resources, method, plays, acts, roles

External resources, links and services (forums, chats...)

SIGOSSEE, Heerlen, Nov 14th, 2005
Level B in IMS Learning Design

B Properties, conditions, calculations, global elements and monitoring services

- Properties: a name, an input value
- Conditions: if-then-else
- Calculations: sum, substraction...

- Global elements: connection with external XML files
- Monitoring services: tracking of roles, actions, properties
Level B in IMS Learning Design

- Global elements: connection with external XML files
- Monitoring services: tracking of roles, actions, properties

IMS MANIFEST . XML

Setting  

Use

* . XML
Level B in IMS Learning Design

**IMS MANIFEST . XML**

- Setting of Properties
- Global elements
- Monitoring services
- Conditions
- Calculations

**Use of ImsLD**
- Content: Properties
- Global elements
- Monitoring services

**. XML**

**. HTML**

**Resources**

**WebContent**

* *
Level C in IMS Learning Design
IMS Learning Design meta-model
Method

Act 1 → Act 2 → Act 3 → Act 4 → Act 5

Role-part 1
Role-part 2
Role-part 4
Role-part 5

Role
Activity
Environment

Activity-Description

Learning objects
Learning services

Components

with thanks to Bill Olivier of CETIS
XML in a Manifest

```xml
<organizations>
  - <learning-design xmlns="http://www.imsglobal.org/xsd/imsld_v1p0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://www.imsglobal.org/xsd/imsld_v1p0
    http://www.imsglobal.org/learningdesign/ldv1p0/IMS_LD_Level_A.xsd" identifier="Course-
    candidas" level="A" uri="http://ou.nl/examplecandidas">
    - <!-- title and roles -->
      <imsld:title>Candidas. The great unknown (I)</imsld:title>
      - <imsld:components>
      - <imsld:roles>
        - <imsld:learner identifier="Learner">
          <imsld:title>Learner</imsld:title>
        </imsld:learner>
      </imsld:roles>
      - <!-- learning activities -->
        - <imsld:activities>
          - <imsld:learning-activity identifier="Preparation">
            <imsld:environment-ref ref="resources-Preparation" />
          </imsld:learning-activity>
        </imsld:activities>
    - <!-- complete activity -->
  </imsld:activities>
</organizations>
```
An information package
An information package

WEB CONTENT

IMSMANIFEST.XML

IMSLD CONTENT

RESOURCES

Geluid met mp3-indekking
GIF Image

QuickTime Picture
QuickTime Picture
QuickTime Picture
QuickTime Picture

XML Document
XML Document
XML Document
XML Document
XML Document
XML Document
XML Document
Process to build a Unit of Learning

Structure
IDEA
Modelling Level A
Adding Level B
Running Level B
Running Level C
Adding Level C
Running Level C
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