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International Circle Meeting

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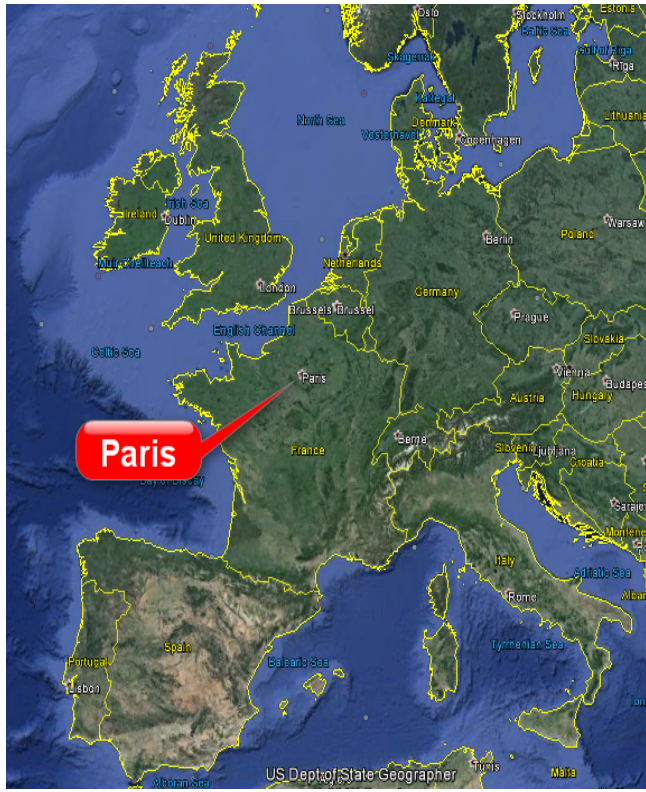
ÉCOLE ESTIENNE PARIS

Sinapse Print Simulators

Summary

1. Estienne School General Description



The Ecole Estienne in Paris is the oldest and one of the larger French Graphic schools.

- ✓ It is a French public school, located in the center of Paris.
- ✓ There are ± 20 schools in France for graphics arts.
- ✓ Estienne teaches post-secondary education courses to 600 students. The students follow training during 2 or 3 years.

The degree is roughly equivalent to a college technical degree.

1. Estienne School General Description

Two ways for Estienne School!

#1: Traditional graphic arts craft:

Designer bookbinding; Etching and Engraving; Typo-graphics; Illustration

These classes which have few students, but without which these specialized crafts would die out altogether.

There are also training as 3D animation, digital workflow, packaging...

Estienne's professors and students interact with a wide range of subjects and tools – traditional crafts ➔ offset & flexo ➔ digital print ➔ jdf workflow ➔ virtual simulators...

1. Estienne School General Description

#2: Today Graphics Arts:

- ✓ Prepress, press and postpress production (digital and conventional).
- ✓ Production management (MIS, estimate price, process, tracking, cost & time gap, color management...).

It is equipped with farm of Mac computer, several offset & digital presses, several tools for finishing, as well as several older generation print simulators, with PCs of the same vintage...

Note: all our production devices are compatible with JDF (CIP4)

1. Estienne School Equipment

Graphics Arts Equipment:

Prepress:

- A farm of Macs / PCs: with software for infography; Proofing: Epson plotter; CTP: 4 up size.

Press:

- Sheetfed presses (4 and 2 colors); Flexo press (6 colors); Digital Presses & Ploter; EBM; Paper &Printing Laboraty and printing simulators (Shots, Flexo, Heatset).

Finishing:

- Cuting Polar, Floder MBO, Perfect Bind Horizon.

Process:

- MIS, Production WorkFlow, Quality Control.

1. Estienne School General Description

#1: Traditional graphic arts crafts

#2: Today Graphics Arts

In summary, we give a training about all printing process, from traditional to digital…

2. The French Educational System

- *Kids start school at 3 – 4 years old in pre-elementary school.*
- *At 6-7 years old, they begin the elementary school during 4 years.*
- *At 10-11 years old, they begin junior high school during 4 years.*
- *At 14-17 years, they have 3 options for 3 years courses to obtain Bachelor degree:*
  - ✓ *Sciences training*
  - ✓ *Technological training*
  - ✓ *Professional training*

- *At 18 years, they can do 1 technical specialization (eg. Estienne) or they can do a general courses in university.*

3. Students Degree Courses in Estienne School

Foundation Courses (Applied Arts & Craft Arts & Graphic Arts)

- ✓ Visual & Design Communication:
  - ➢ option a : graphic design, advertising, publishing
  - ➢ option b : multimedia studies
- ✓ Craft Arts (5 options):
  - ➢ designer bookbinding,
  - ➢ etching and engraving,
  - ➢ typo-graphics,
  - ➢ Illustration,
  - ➢ 3D animation.
- ✓ Graphic Communication and Printing Industries:
  - ➢ option a : preparation processes and production of graphic products
  - ➢ option b : preparation processes and production of printed products
- ✓ Publishing.

Notes: other degree for packaging, digital workflow Professional License and higher degree in Applied Arts.

4. Graphic Communication & Printing Industry Curriculum

Work position with this degree:

Graduates will be able to take up a post:

- digital flow manager,
- production manager,
- quality control supervisor,
- etc.

in printing or publishing houses, independent studios...

4. Graphic Communication & Printing Industry Curriculum

- **Organization**
  - ✓ Two-year course training.
  - ✓ Processes of preparation and production of the graphic or printed product (on paper or multimedia).
  - ✓ In second year, students team does a printing project to present his organisation to a professional jury.

Compulsory training-periods (from 6 weeks)

in various companies, in France and abroad.

5. Sinapse Experimentation

- ✓ Context
- ✓ Goals
- ✓ Experimentation
  - ➢ Step #1: test “Cloud-based” version
  - ➢ Step #2: integrate in E-Learning system
- ✓ Next step
- ✓ Conclusion

5. #1 Cloud-Based Experimentation

✓ Context

- Part of the curriculum is offset print production.
  - *In early 2014, about 30 students were taking these courses: 3 groups of 10-12 people.*

- Difficulty to run press to teach problem-solving.

➔ Using Print simulators, but...

Previous version of simulators: 10-12 students simultaneously using simulators would have required investment:

- in additional PCs,
- software licenses,
- allocation of dedicated space for these,
- more material insurance bills, more maintenance...

5. #1 Cloud-Based Experimentation

✓ Context

In partnership with Sinapse, Estienne has been testing a new "cloud-based" version of the print simulators.

➔ The new version of simulators allows:

- To be used:
  - in a classroom,
  - or anywhere,
  - and anytime the student or instructor has access to such a screen,
  - and on Mac or PC computers indifferently...
- All interaction and results are logged on the cloud for review by the instructor.

5. #1 Cloud-Based Experimentation

✓ Goals

➔ Validate new version of simulators used in cloud, by testing:

- ➢ Worked with PC and Mac computers (internet connection required).
- ➢ Connection to cloud (Citrix Environment).
- ➢ Speed to access.
- ➢ Functionalities of simulators

➔ Validate user friendly interface:

- ➢ Shared two windows in one screen

5. #1 Cloud-Based Experimentation

✓ Experimentation: Step #1: test "Cloud-based" version

➔ Three tests was done: 3 sessions of 10 users simultaneously

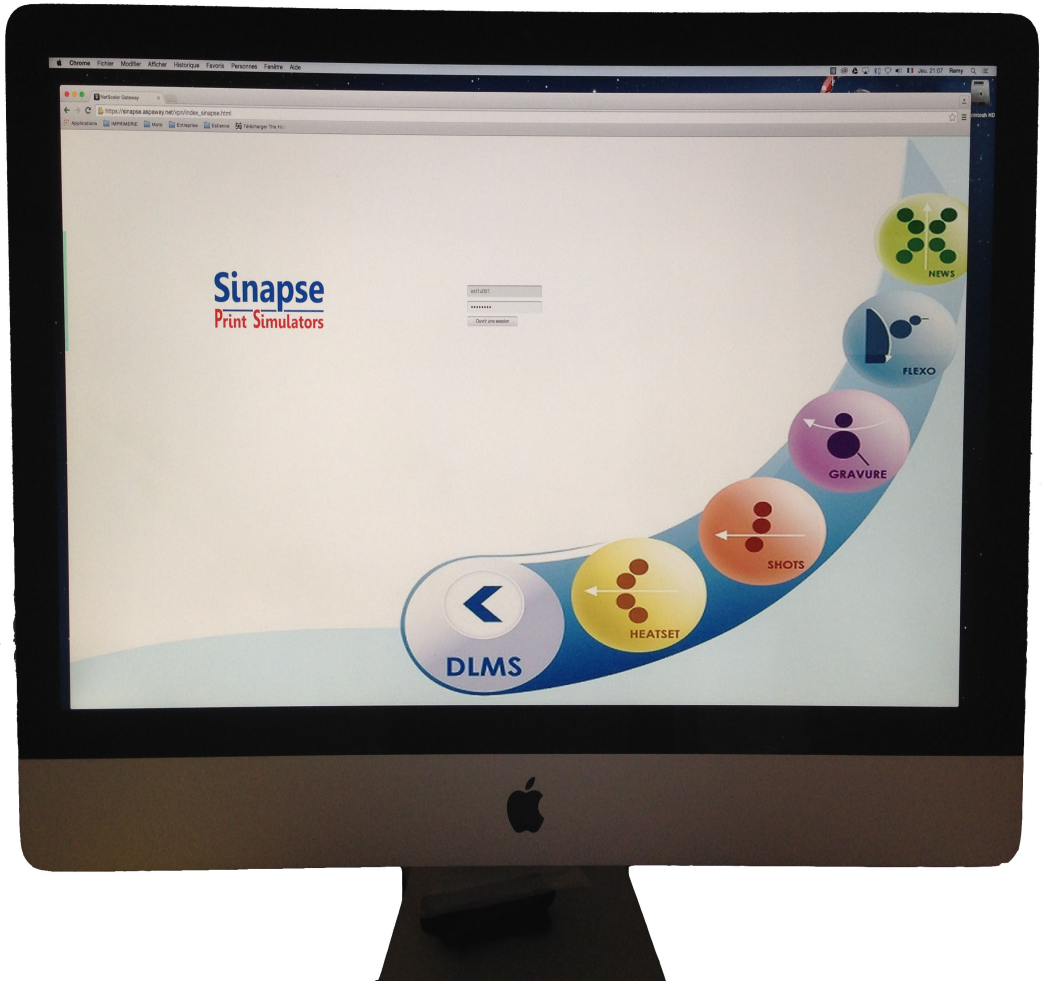
➔ Results:

++	Required
Technically	
Access from everywhere	Good Internet Connection
Using Mac or PC computers	Citrix Client installed
User friendly applications	Large Screen is better (27" good)
New possibilities to use simulators	
Pedagogically	
Managing anteriority of the courses	
Tracking results: • Date & time connection • Result Analysis from exercises • Individual statistics • Statistics by classroom, teachers (trainers), and administrators	Spare courses in case of failure of application or internet connection…
Certificate from DLMS	

5. #1 Cloud-Based Experimentation

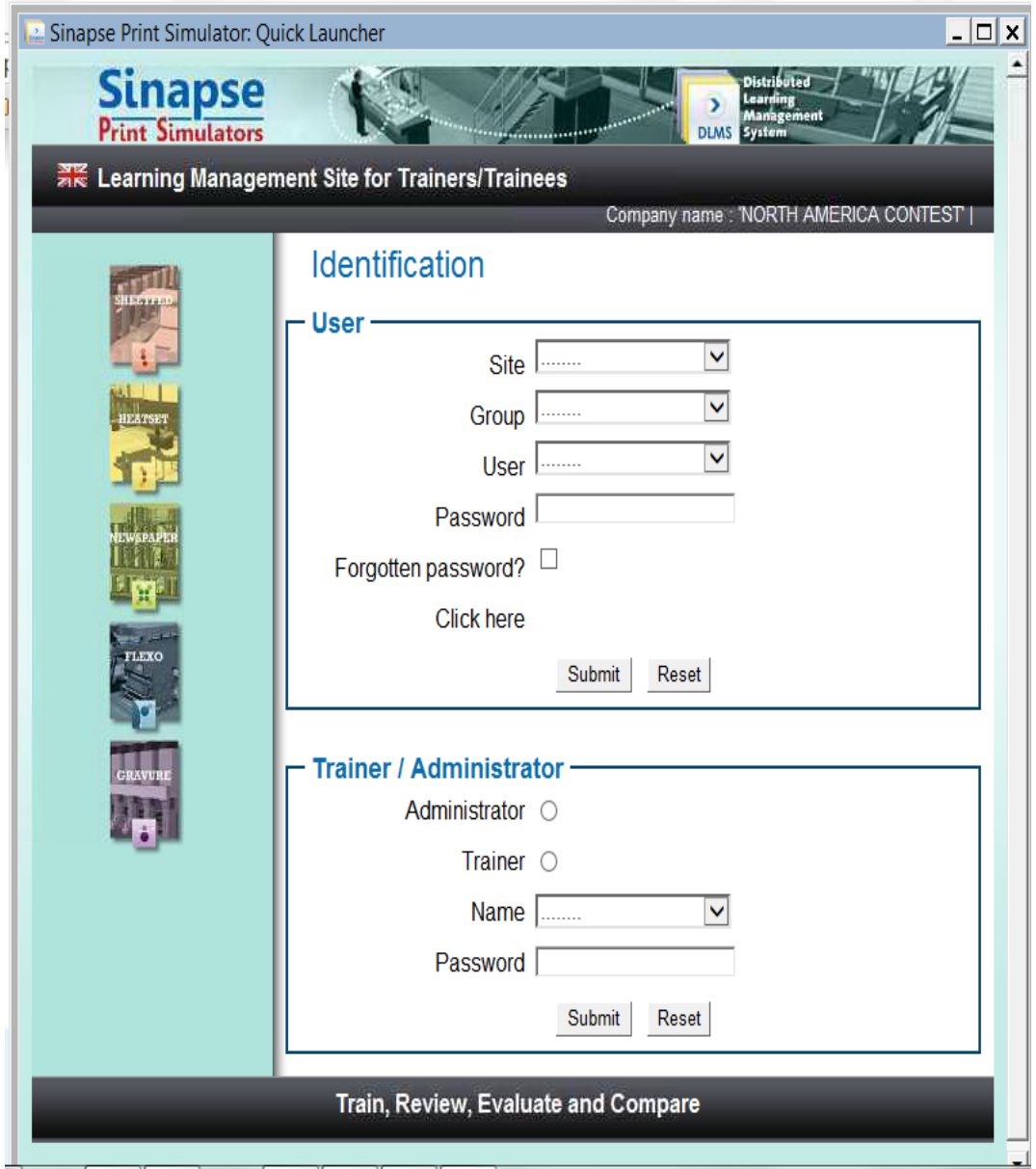
Logon procedure from browser:

Connection with Citrix Client Mac session to cloud-server



5. #1 Cloud-Based Experimentation

Login to Sinapse LMS: Identification in DLMS in cloud-version

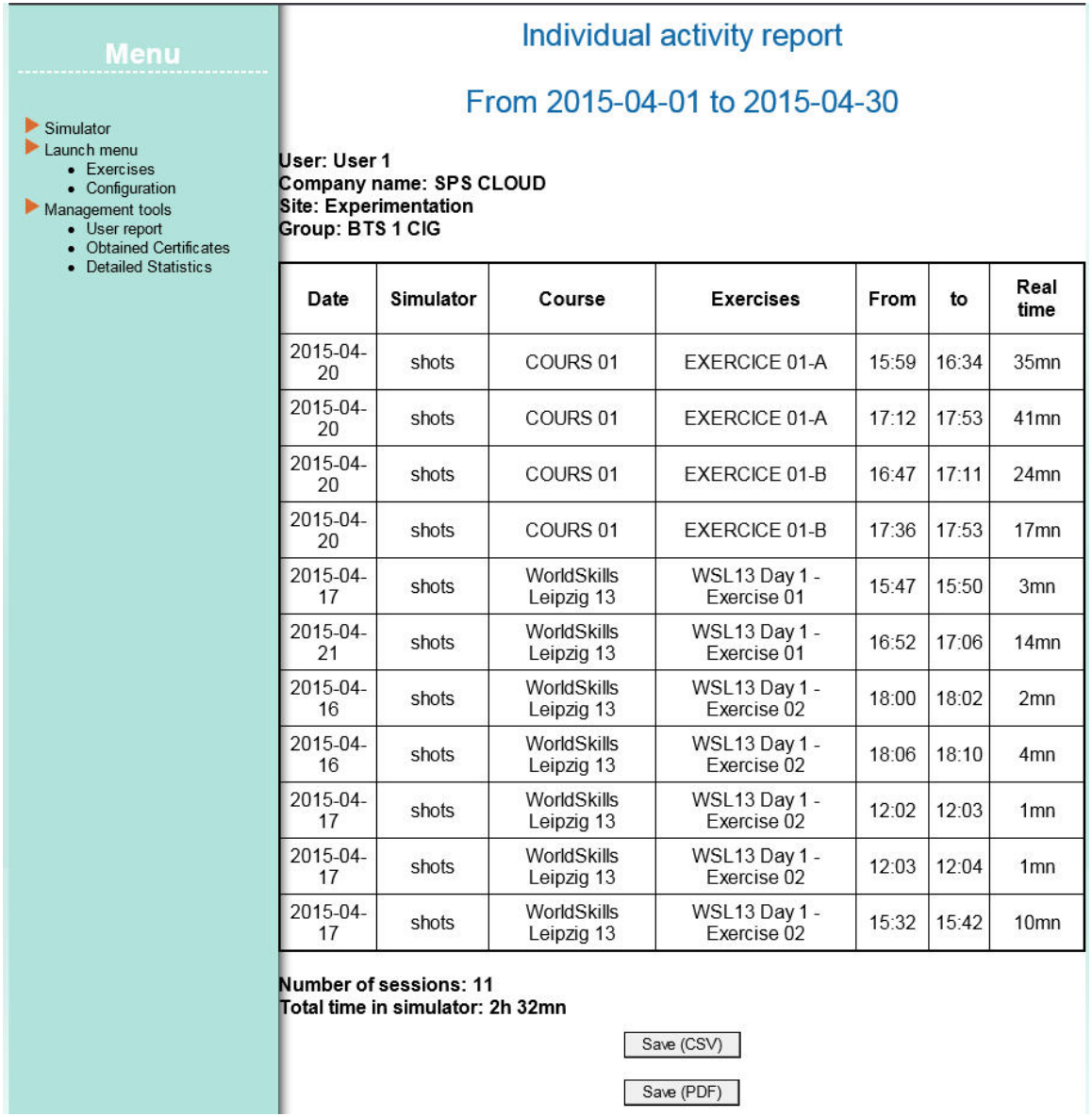


5. #1 Cloud-Based Experimentation

*RUN SIMULATORS: **Double windows** to manage simulators **in the same screen**!*

5. #1 Cloud-Based Experimentation

Report: Individual Activity Report



Menu

- Simulator
- Launch menu
  - Exercises
  - Configuration
- Management tools
  - User report
  - Obtained Certificates
  - Detailed Statistics

Individual activity report

From 2015-04-01 to 2015-04-30

User: User 1
Company name: SPS CLOUD
Site: Experimentation
Group: BTS 1 CIG

Date	Simulator	Course	Exercises	From	to	Real time
2015-04-20	shots	COURS 01	EXERCICE 01-A	15:59	16:34	35mn
2015-04-20	shots	COURS 01	EXERCICE 01-A	17:12	17:53	41mn
2015-04-20	shots	COURS 01	EXERCICE 01-B	16:47	17:11	24mn
2015-04-20	shots	COURS 01	EXERCICE 01-B	17:36	17:53	17mn
2015-04-17	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 01	15:47	15:50	3mn
2015-04-21	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 01	16:52	17:06	14mn
2015-04-16	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	18:00	18:02	2mn
2015-04-16	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	18:06	18:10	4mn
2015-04-17	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	12:02	12:03	1mn
2015-04-17	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	12:03	12:04	1mn
2015-04-17	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	15:32	15:42	10mn

Number of sessions: 11
Total time in simulator: 2h 32mn

Save (CSV)

Save (PDF)

5. #1 Cloud-Based Experimentation

Report: Detailed Stats in DLMS

Date	User	Simulator	Course	Exercises	From	to	Real time
2015-04-17	User 1	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 01	15:47	15:50	3mn
2015-04-16	User 1	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	18:00	18:02	2mn
2015-04-16	User 1	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	18:06	18:10	4mn
2015-04-17	User 1	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	12:02	12:03	1mn
2015-04-17	User 1	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	12:03	12:04	1mn
2015-04-17	User 1	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	15:32	15:42	10mn
2015-04-16	User 10	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	22:48	22:49	1mn
2015-04-15	User 2	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	19:24	19:25	1mn
2015-04-17	User 2	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	10:53	10:56	3mn

5. #1 Cloud-Based Experimentation

Report: PDF Report Detailed

Sinapse Print Simulators

Training Attendance

From 2015-04-12 to 2015-04-18

Trainer: Sinapse
Company name: SPS CLOUD
Site: Experimentation
Group: BTS 1 CIG

Date	User	Simulator	Course	Exercises	From	to	Real time
2015-04-17	User 1	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 01	15:47	15:50	3mn
2015-04-16	User 1	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	18:00	18:02	2mn
2015-04-16	User 1	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	18:06	18:10	4mn
2015-04-17	User 1	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	12:02	12:03	1mn
2015-04-17	User 1	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	12:03	12:04	1mn
2015-04-17	User 1	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	15:32	15:42	10mn
2015-04-16	User 10	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	22:48	22:49	1mn
2015-04-15	User 2	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	19:24	19:25	1mn
2015-04-17	User 2	shots	WorldSkills Leipzig 13	WSL13 Day 1 - Exercise 02	10:53	10:56	3mn

✓ #2: Integrate in an E-Learning system

The next step to use simulator, will be to integrate it in e-learning system (LMS).

Some modules exists on the market. We had worked with some:

- ✓ Moodle, Blackboard…: International LMS
- ✓ Sinapse: DLMS
- ✓ E-GRETA: French National Education LMS

The issue of e-learning is student autonomy!

It is necessary that it be guided!

The question is: **HOW TO EVOLVE THE CURRENT ASSESSMENT TOOLS?**

✓ #2: Integrate in an E-Learning system

Evolution in DLMS:

✓ Assessments need to be qualitative and quantitative:

How can do have a good appreciation of the result of one student session?

Not only on the result (success)!

- ➢ Qualitative: the best way (or not) to solve an exercise, using available tools of simulators.
- ➢ Quantitative: time & costs to successfully solve exercise.

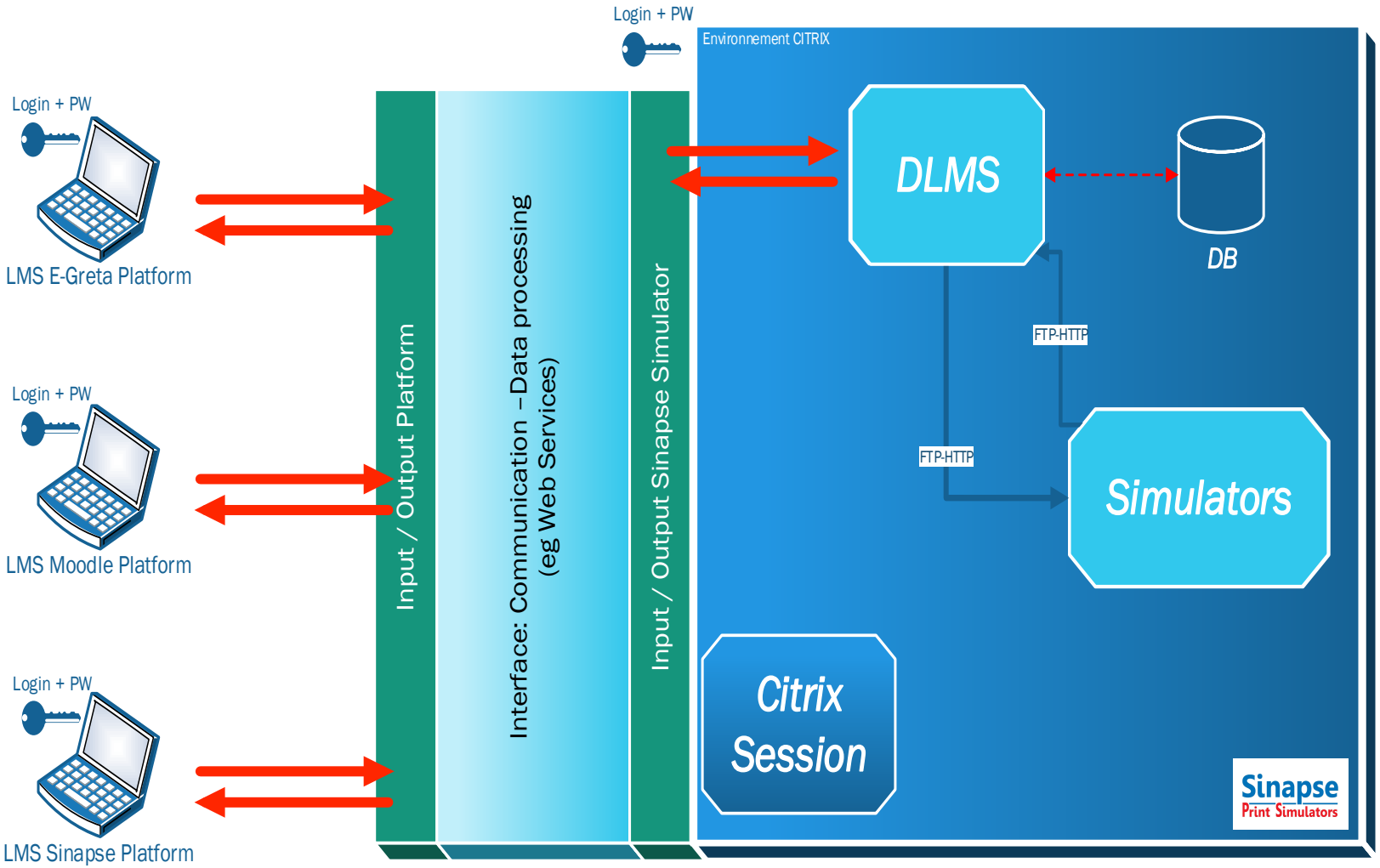
✓ Take into account the problem of users during the session.

✓ #2: Integrate in an E-Learning system

Merge simulator in e-learning module:

- ✓ Schematics diagrams:
  - ➢ Identification of elements:
    LMS + Citrix ➔ DLMS + e-simulator.
  - ➢ Communication between elements:
    Identification, setting parameters.
  - ➢ Sharing information:
    Traces in XML format
    Scorm Standards

✓ #2: Integrate in an E-Learning system

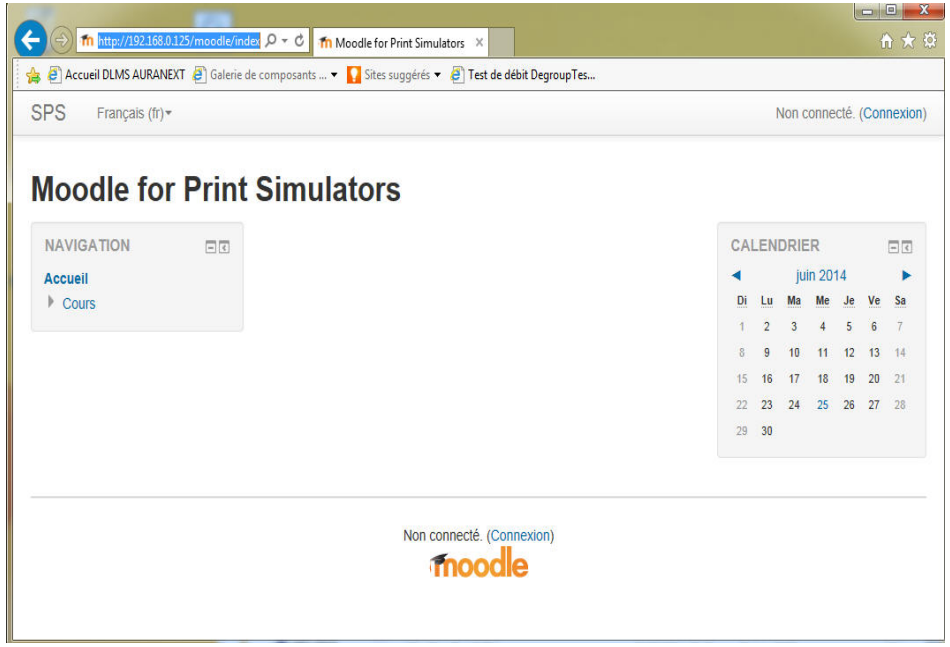


Schematic Diagram

✓ #2: Integrate in an E-Learning system

In Moodle:

- ✓ Creation users on the platform:
  - ➢ Manually mode: done by admin.
  - ➢ Autonomy mode: from user email address.
- ✓ Assigning roles: each user has a role
  - ➢ Site administrator.
  - ➢ Teacher editing.
  - ➢ Teacher non editing.
  - ➢ Student.



✓ #2: Integrate in an E-Learning system

In E-GRETA

✓ Creation users on the platform:
- ➢ Manually mode: done by admin.

✓ Assigning roles: each user has a role
- ➢ Teacher editing.
- ➢ Teacher non editing.
- ➢ Student.

✓ #2: Integrate in an E-Learning system

Next year, we will experiment the process to link generic LMS to Simulators…

✓ **Connection:**

We have to do the connection link between LMS and Sinapse simulators:

- Identification, setup parameters.
- Link with DLMS exercises for a specific course from LMS.
- Create evaluation (SCORM standard).
- DLMS must give access to resources files.

✓ **Exchange Data:**

We have to do the mapping with LMS Data Base.

- Export the result of evaluation to LMS in SCORM standard.

✓ Conclusion

Today, we have, in addition of e-simulators:

- ✓ **A good tracking of students.**
- ✓ **Curriculum validation certificate.**

All these changes will be benefit to the others simulators users, soon!

Experimentation

Good partnership, the participation to evolution was,

and will be interesting for our students (& teachers)

and for the profession!

Thanks you!

Rémy Touguay