

Technical Support: What is AICC HACP protocol and how does it work?

AICC HACP protocol

AICC HACP-protocol is a HTTP-based communication protocol, which enables a web-based course or test to report progress-data back to a LMS. This is done by implementing a special execution procedure, and three functions called `getparam()`, `putparam()` and `exitau()`.

The course is executed by the LMS with two extra parameters called `aicc_sid` and `aicc_url`. The following example shows this:

```
http://<url\_to\_course>/<course\_executable>?aicc\_sid=<unique\_LMS\_ID>  
&aicc_url=<url_to_LMS_HACP_handler>
```

Getparam

This initiates the communication between the course and the LMS. `Aicc_url`

tells the course where to communicate to, and `aicc_sid` separates one session from another. When the communication is initialized, the course will call `getparam`.

The course post command=`getparam` and `session_id=<aicc_sid>`. The LMS returns the following information:

- * `-error=<error_no>`
- * `-error_text=<error_msg>`

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- * -version=⟨HACP_version⟩
- * -aicc_data=[core]
- * -student_id=⟨student_id⟩ (Fronter use ⟨aicc_sid⟩)
- * -student_name=⟨name_of_student⟩
- * -lesson_location=⟨last_reported_location_in_course⟩

"error" is a number representing an error status. This is defined by AICC. For example 0 (zero) represents no error, 1 is unknown command.

"error_text" is a literal representation of "error".

"version" is 2.0

"lesson_location" is a unique ID reported by the course. With this the course is able to continue a previous lesson.

Putparam

During and at the end of a lesson, the course calls the command putparam(). This command reports information back to the LMS about test results, time usage and lesson status. The data reported is:

- * -lesson_status=⟨status⟩
- * -score=⟨score⟩

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- * -time=<time>
- * -lesson_location=<last_reported_location_in_course>
- * -lesson_progress=<lesson_progress>

"lesson_status" reports the current status. This can be C(omplete), I(ncomplete), F(ailed), P(assed) and others.

"score" can be reported as a integer and parsed as percentage, or as "score,min,max" (i.e. score=80,75,100). Min is minimum pass-score and max is maximum score achievable.

"time" is hh:mm:ss. Fronter also allows the number of seconds used.

"lesson_progress" is a Fronter specific AICC extension. This is an integer parsed as percentage of how far the student has come in the course.

ExitAU

When the student exits a course, the course will send the command

exitau. This tells the LMS that the session is over. The LMS can use this for local cleanup and storage of final data.

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