

# OpenBadges – 2: Requirements

## Document Control

<b>Abstract</b>	Requirements for OpenBadges feature				
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## Description and requirements

The OpenBadges feature allows to integrate Mozilla’s “OpenBadges”<sup>1</sup> to issue, assign, manage and display digital badges in Moodle LMS. Functionality for OpenBadges will be implemented in the following components:

- Badge creation and verification service in Moodle;
- Moodle Block to display internal badges;
- Support for direct pushing of internal badges to external backpack (without having to manually download/upload them);
- Badge displayer in Moodle (displays external badges and any internal ones that have been pushed to backpack and shared).

ID	Requirement	Comment
OB-001	Ability to manage the administration rights on the basis of Moodle capabilities, especially with regards to: <ul style="list-style-type: none"><li>• create/edit/delete badges</li><li>• view badges</li><li>• assign badges</li></ul>	
OB-002	Ability to create/update/delete badges	Editing badge means changing the badge that will be issued from that point on – for security reasons, OBI intentionally prevents an issuer from modifying badges once they have been issued
OB-003	Ability to view badges and their details	Include searching for badges, sorting and filtering list of badges
OB-004	Ability to apply custom settings to badges	For example: set a background image for badges; embed custom text into badges; embed user specific text into badges
OB-005	Ability to duplicate/clone badges	Create a copy of a badge for further editing
OB-006	Ability to create/edit/delete badge design templates	Later version
OB-007	Ability to create badges based on design templates	Later version

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<sup>1</sup> <http://www.openbadges.org>

OB-008	Ability to set an expiry period for badges	Date after which a badge can no longer be considered valid
OB-009	Ability to automatically generate URL link to user-specific evidence of achievement	
OB-010	Ability to assign the criteria that leads to the issuing of badges	Based on context of the badge – site badge or course badge
OB-011	Ability to create criteria based on completing an activity or set of activities	Course badge
OB-012	Ability to create criteria based on completing a course	Course badge
OB-013	Ability to create criteria based on completing a set of courses	Site badge
OB-014	Ability to create criteria based on posting to a forum or blog	Site badge
OB-015	Ability to create criteria based on filling in user profile	Site badge
OB-016	Ability to discretionary award badges	Both site and course badge
OB-017	Ability to notify a user when they are awarded a badge	Might also include notification when badge expires
OB-018	Ability to notify teachers when their students are awarded a badge	Depends on a user role in the system
OB-019	Ability to view available badges and their conditions of earning	Depends on badge settings
OB-020	Ability to view own badges and their details	Same as OB-003: includes searching for badges, sorting and filtering list of badges. Viewing badges will be available in form of separate page and a block which a user can add to their customised pages
OB-021	Ability to get a copy of awarded badges	Option to download .png file should be sufficient as they contain all metadata for validation
OB-022	Ability to view displayed badges of other users on their profile page	

OB-023	Ability display local and external badges	Users can decide public/private status of local badges; External badges are public by default because their sharing options are set up in external backpack provider (Moodle as a displayer should not have control over this option)
OB-024	Ability to view report on a specific badge	For example, how many students have it, what conditions were met, etc.
OB-025	Ability to view report on an individual user	For example, which badges have been achieved by an individual user
OB-026	Ability to generate a site-wide report on badges achievement	Later version. Add some more detailed reporting options: which site users have achieved a specific badges; or which badges were achieved by any site user
OB-027	Ability to automatically verify a local badge	Only verified and valid badges will be displayed in user profile
OB-028	Ability to automatically verify an external badge	Only verified and valid badges will be displayed in user profile
OB-029	Ability to push a local badge to an external backpack	We are going to use Mozilla Persona and their backpack service as a default backpack for the first version of OpenBadges. This part should be clarified as there are still some questions.
OB-030	Ability to save/edit/delete settings of external backpack	

OB-031	Ability to configure automatic pushing of all user badges from Moodle into their external badge backpack	Badges come in to an external backpack as private. Earner will have to explicitly accept badges in their backpack in order to make them discoverable by any displayers
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Note: Revoking of issued badges is not currently possible in Open Badges Infrastructure. At this stage, I am not sure how we are going to handle badges issued by mistake.