Paradata Cookbook

This document collects community best practices for creating different kinds of paradata statements and assertions and describing specific kinds of information in common ways in paradata. The Learning Registry paradata specification is quite flexible; there is no unique way to make a paradata statement. Thus this document provides a set of recipes of how to create different kinds of paradata and assertions. This document supplements the introductory Paradata In 20 Minutes, the much longer background and design document on Modeling Paradata, and the formal Paradata Specification. It is organized as a set of recipes, each illustrating a specific best practice.

Recipe for Standards Alignment/Matching

This recipe shows paradata for an educator matching a resource to an academic content standard. Information about the standard, including ASN id, is included in the related object space. The verb used here was chosen by the Brokers of Expertise portal to indicate based on their own agreed upon levels of alignment: recommended, matched, and aligned. At some point we should consider a system of listing synonyms for verbs, actors, objectTypes, etc.

```
{
        "activity": {
                "actor": {
                        "description": ["9","10","English Language Arts"],
                        "objectType": "educator"
                },
                "verb": {
                        "action": "matched",
                        "date": "2011-11-07",
                        "context": {
                                "id": "http://www.myboe.org/go/resource/7238",
                                "description": "Brokers of Expertise resource management page",
                                "objectType": "LMS"
                        }
                },
                "object": {
                        "id": "http://www.readwritethink.org/lessons/lesson_view.asp?id=131"
                },
                "related": [{
                        "objectType": "academic standard",
                        "id": "http://purl.org/ASN/resources/S101282A",
                        "content": "Select a focus when writing."
                }],
                "content": "A resource found at http://www.myboe.org/go/resource/7238 was matched to
        the academic content standard with ID http://purl.org/ASN/resources/S101282A by an educator of
        multiple grades and English Language Arts on November 7, 2011"
        }
```

}

Recipe for Incorporating a Resource in Content/Curriculum

Knowing how and where resources are incorporated into other content and curriculum is a valuable indicator of a resource's usefulness and effectiveness. Additionally, including information about the content this resource was used in allows others to benefit from these new linkages.

```json
{
        "activity": {
                "actor": {
                        "description": ["Engineering & Design"],
                        "objectType": "educator"
                }
                "verb": {
                        "action": "incorporated",
                        "date": "2011-10-01",
                        "context": {
                                "id": "http://www.cteonline.org/go/curriculum/366234",
                                "description": "CTE Online lesson plan",
                                "objectType": "lesson plan"
                        }
                },
                "object": {
                        "id": "http://www.teachersdomain.org/resource/eng06.sci.engin.design.rover/"
                },
                "related": [{
                        "objectType": "lesson plan",
                        "id": "http://www.cteonline.org/go/curriculum/366234",
                        "content": "Where's the Design/Solution process used?"
                }],
                "content": "A resource found at
        http://www.teachersdomain.org/resource/eng06.sci.engin.design.rover/ was incorporated into a
        lesson plan by an educator of Engineering & Design on November 8, 2011"
        }
}
```

Recipe for Rating

Recipe description … can describe the entire paradata statement or assertion, or just show how to do a part of the statement.

```
{
        "activity": {
                "actor": . . .

                "verb": {
                        "action": "rated",
                        "date": "2011-10-10",
                        "measure": {
                                "sampleSize": 1,
                                "scaleMin": 0,
                                "scaleMax": 3,
                                "value": 2
                        }
                        "context": {
                                "id":
"http://www.oercommons.org/courses/algebraic-expressions-and-equations-proficiency-exam",
                                "description": "OER Commons detail page",
                                "objectType": "OER"
                        }
                }
                "related": [{
                        "objectType": "rubric",
                        "id": "http://achieve.org/oer-rubrics",
                        "content": "Rubric I. Degree of Alignment to Standards"
                }],
                "object": {
                        "id": "http://cnx.org/content/m21853/latest/"
                }
        }
}
```

Recipe for Endorsement

Example of a Learning Management System (LMS) endorsing a group. Assertions like this can be particularly helpful when creating trust relationships between systems, especially in the realm of standards alignments and other expert opinions. Information about the group, including id/url, is included in the object space.

```
{
   "activity": {
      "actor": {
         "displayName": "Brokers of Expertise",
         "id": "http://myboe.org",
         "objectType": "LMS"
      },
      "object": {
         "id": "http://myboe.org/go/groups/standards_matchers",
         "displayName":"Brokers of Expertise Standards Matchers",
         "objectType":"group"
      },
      "verb": {
         "action": "endorse",
         "date": "2011-12-14",
         "content": "The Brokers of Expertise Standards Matchers group found at
http://myboe.org/go/groups/standards_matchers was endorsed by the administrators of the
Brokers of Expertise Learning Management System."
      }
   }
}
```

Recipe for XYZ

Recipe description … can describe the entire paradata statement or assertion, or just show how to do a part of the statement.

```
{
   "activity": {
      "actor": . . . ,
      "verb": . . . ,
      "object": . . . ,
      . . .
   }
}
```