Navy Performance Support Profile

Requirements and Guidelines for Implementing xAPI in Performance Support Content

Document Version: 1.2

Table of Contents

Revision History

Version	Release Date	Notes
0.5	5/05/2020	Initial draft of the profile. Authors review only.
0.9	6/29/2020	Second draft of the profile. Internal Navy review only.
1.0	7/31/2020	All edits and feedback incorporated. First full version of the profile released.
1.1	7/20/2021	Global update from "NETC" to "Navy."
1.2	11/15/2022	Made several minor text updates to align with other Navy profile updates.

Table 1: Performance Support Profile Revision History

1. Overview

1.1. How to Read this Document

This document is best read with the document outline / navigation pane enabled. To display the navigation pane in Adobe Acrobat, click "View > Show/Hide > Navigation Panes > Bookmarks." This document is provided as an auxiliary resource to the formal xAPI Specification (version 1.0.3) and distinctly addresses the Navy-specific requirements for implementing xAPI in performance support content. If an object or property is listed as "optional" in the xAPI Specification, but that same object or property is listed as a requirement herein, then this document takes precedence. The Requirements & Examples Sections of this document provide content developers with the mandatory Learning Record Provider (LRP) obligations for implementing xAPI Statements in performance support content. The following common syntactic and typographic conventions will be used in this document:

- Footnotes appear at the bottom of pages where there is a need to provide additional information or references.
- Words or concepts will use *Italics* or "double quotations" when there is a need to draw special attention to them.
- Title Case is used to identify concepts and terminology from the xAPI Specification.
- A `Courier font such as this` is used to represent data objects or properties associated with the xAPI Statement Data Model. A `Courier font` is also used to distinguish between technical terminology or concepts originating from the xAPI Specification or an xAPI Profile. A `Courier font` is also used to represent unique identifiers such as IRIs or IDs.
- xAPI Statement examples represented as JSON snippets and other types of syntax examples are provided inside of light blue background box area like the one below:

```
"data-object":{
      "property1": "value",
      "property2": "value"
}
```

1.1.1. Conformance Requirements

These xAPI conformance requirements are intended to be reused as part of the contract requirements in a Data Item Description (DID) deliverable or Contract Data Requirements List (CDRL). The use of "SHOULD" and "MAY" was avoided since these types of contract documents normally contain only mandatory instructions.

Complete definitions are provided below. Not following these recommendations could risk interoperability and/or lead to xAPI deliverables not being accepted by the Navy.

1. SHALL OR SHALL NOT. If a product fails to implement a SHALL or SHALL NOT requirement, the product is non-conformant to the Navy's requirements.

1.2. When to Use this Profile

The purpose of this document is to provide content developers with best practices, technical guidance, and requirements for implementing xAPI in performance support content. This document is intended to serve as Navy's official technical requirements for any performance support content contractually required to support xAPI. The scope of this document is limited to only xAPI content and does not address other learning technology standards.

1.2.1. Performance Support Use Cases

Performance support can include a variety of applications (desktop or mobile). Tracking requirements for more granular activities inside of a performance support application are also addressed in this Navy Performance Support Profile.

In a nutshell, performance support is focused on providing tools and resources at the moment of need to help aid in one's performance. There are two distinct types of performance support covered by this Profile:

1. support for job or workplace tasks at the point of need and with considerations for time, place, and context (e.g., knowledge base, video, or a simulation on how to operate or maintain a piece of equipment)

2. support in the learning process, usually in an academic or classroom setting (e.g., electronic study aid for a class)

1.3. How to Use this Profile

This document is intended to be used in addition to the xAPI Specification and the Navy Core xAPI Profile. Please see these documents for the general data and content integration requirements. This document assumes an understanding of the xAPI Specification[1] and the underlying concepts explained therein. All communication and data formats SHALL follow the general requirements in the xAPI specification. The guidance provided in this document is meant to provide additional information and requirements specific to performance support

---

[1] The xAPI Specification, https://github.com/adlnet/xAPI-Spec

content communications and data with xAPI. This Profile's requirements are principally organized in the following sections:

- Profile Overview

- Profile Concepts

- xAPI Statement Requirements & Examples

2. Performance Support Profile

2.1. Terminology

The terminology in this Navy xAPI Profile assumes an understanding of the xAPI and performance support content.

2.2. Performance Support Profile Concepts

The following tables provide a list of available vocabulary Concepts for use in the Navy Performance Support Profile. If additional performance support use cases are identified and new Concepts are added, then a new version of the Profile will be issued.

2.2.1. Verbs

Concept	Description	IRI
accessed	Indicates the Actor arrived at, entered or visited an object.	https://w3id.org/xapi/netc/verbs/accessed
closed	Indicates the Actor ended or shut down an Activity.	https://w3id.org/xapi/netc/verbs/closed
completed	Indicates the Actor finished or concluded the Activity normally.	http://adlnet.gov/expapi/verbs/completed
deselected	Indicates that the Actor deselected an object from a collection or set to use it in an Activity.	https://w3id.org/xapi/performance-support/verbs/deselected

disliked	Indicates that the Actor does not approve of the object.	https://w3id.org/xapi/acrossx/verbs/disliked
initialized	Indicates that the Actor successfully started an attempt on an Activity.	http://adlnet.gov/expapi/verbs/initialized
liked	Indicates that the Actor approves of, recommends, or endorses the object.	https://w3id.org/xapi/acrossx/verbs/liked
opened	Indicates the Actor opened an object.	https://w3id.org/xapi/netc/verbs/opened
printed	Indicates the Actor printed an electronic file or other digital content from their screen to a printing device.	https://w3id.org/xapi/netc/verbs/printed
searched	Indicates the Actor used a search engine or other software to search for a term.	https://w3id.org/xapi/performance-support/verbs/searched
selected	Indicates that the Actor selects an object from a collection or set to use it in an Activity.	http://id.tincanapi.com/verb/selected
terminated	Indicates that the Actor successfully ended an attempt on an Activity.	http://adlnet.gov/expapi/verbs/terminated
uploaded	Indicates the Actor transferred a file or data from a local computer to a remote computer, application, or web server.	https://w3id.org/xapi/netc/verbs/uploaded
viewed	Indicates the actor arrived at, entered or visited an object.	http://id.tincanapi.com/verb/viewed

Table 2: Verbs in the Navy Performance Support Profile

2.2.2. Activity Types

Concept	Description	IRI

application	Any software application that performs specific functions.	https://w3id.org/xapi/performance-support/activity-types/application
checklist	A list of tasks to be completed.	http://id.tincanapi.com/activitytype/checklist
checklist-item	An individual item contained in a checklist.	http://id.tincanapi.com/activitytype/checklist-item
image	A digital representation of a resource such as a photograph, diagram, or illustration.	https://w3id.org/xapi/performance-support/activity-types/image
menu	A list of actionable options in a software interface presented to a user. A menu can be an entire user interface or only part of one.	https://w3id.org/xapi/netc/activity-types/menu
menu-item	A single option in a software interface's menu.	https://w3id.org/xapi/netc/activity-types/menu-item
search-engine	A software program that searches a database and gathers and reports information that contains or is related to specified terms.	https://w3id.org/xapi/acrossx/activities/search-engine
step	A step is one of several actions that the Actor has to do to achieve something, for instance, a goal or the completion of a task.	http://id.tincanapi.com/activitytype/step

procedure	A procedure is a sequence of steps that are followed systematically to achieve a task or make a decision.	https://w3id.org/xapi/performance-support/activity-types/procedure

Table 3: Activities in the Navy Performance Support Profile

2.2.3. Context

2.2.3.1. Context Activities Category

The Context Activities Category array is a location in an xAPI Statement reserved for objects used to categorize, or tag, the Statement. This location is used in profiles to indicate that a Statement follows a specific profile or a collection of profiles. This Performance Support Profile defines specific Statement requirements for performance support content and also references requirements in the Navy Core xAPI Profile. This is represented in xAPI Statements by adding the following two activities to the Context Activities Category array of the Statements.

```
{
    "id": "https://w3id.org/xapi/netc/v1.0",
    "definition": {
       "type":"http://adlnet.gov/expapi/activities/profile"
    }
}
```

Navy xAPI Profile activity

```
{
    "id": "https://w3id.org/xapi/perfomance-support/v1.0",
    "definition": {
       "type":"http://adlnet.gov/expapi/activities/profile"
    }
}
```

Navy Performance Support Profile activity

2.2.3.2. Context Extensions

If the values can be determined, the Navy Performance Support Profile requires that the `launch-location` and `school-center` Context Extensions be included in xAPI Statements. These Navy-specific Context Extensions are only required to be set if they are identified in advance or obtained dynamically. Consult the Navy Common Reference Profile for additional guidance on the appropriate values for these Navy Context Extensions.

2.3. xAPI Statement Requirements & Examples

This section provides the detailed requirements for the most common types of xAPI Statements for performance support activities. The requirements and examples are further organized by the different types of performance support (e.g., applications, checklists, search and other interactions). The requirements are provided as a bulleted list of mandatory data required in each type of xAPI Statement. Example Statements are also provided for illustrative purposes after each list of Statement requirements.

2.3.1. Applications

2.3.1.1. Initializing an Application

Performance support applications must be both Initialized and Terminated to convey an opening and closing of the application. The Context Registration Universally Unique Identifier (UUID) used for an initialization and termination of a performance support application SHALL be the same UUID for each communication session and all activities within that session. All of the Navy xAPI requirements for an Initialized Application Statement are provided below.

2.3.1.1.1. Initialized Application Requirements

A xAPI Statement for initializing a performance support application SHALL include the following:

- The `actor` property SHALL be set according to the requirements in the Navy Core xAPI Profile
- The `verb.id` SHALL be set to `http://adlnet.gov/expapi/verbs/initialized`
- The `verb.display.en` SHALL be set to `initialized`
- The `object.id` SHALL be set to a unique identifier according to the Activity ID requirements in the Navy core xAPI Profile
- The `object.definition.type` SHALL be set to `https://w3id.org/xapi/performance-support/activity-types/application`
- The `context.contextActivities.category` array SHALL include the Navy Core xAPI Profile activity identified in the Context Activities Category section
- The `context.contextActivities.category` array SHALL include the Navy Performance Support Profile activity identified in the Context Activities Category section

- The `context.registration` SHALL be set to a new UUID
- The `context.platform` SHALL be set to the appropriate string value defined in the Navy Core xAPI Profile
- If known, the following Context Extensions requirements apply:
  - Set `https://w3id.org/xapi/netc/extensions/school-center` to the appropriate predefined value from the Navy Common Reference Profile
  - Set `https://w3id.org/xapi/netc/extensions/launch-location` to the appropriate predefined value from the Navy Common Reference Profile
- The `timestamp` SHALL be set according to the requirements in the Navy Core xAPI Profile Profile

2.3.1.1.2. Initialized Statement Example

```
{
  "actor": {
    "name": "Jane Doe",
    "account": {
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
    }
  },
  "verb": {
    "id": "http://adlnet.gov/expapi/verbs/initialized",
    "display": {
      "en": "initialized"
    }
  },
  "object": {
    "id": "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-b170-816fdf5947da",
    "definition": {
      "name": {
        "en": "Advanced Airborne Sensor Performance Support App"
      },
      "description": {
        "en": "A mobile application used at the moment of need for performance
support of the Advanced Airborne Sensor on the P-8."
```

```
      },
      "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
    }
  },
  "context": {
    "contextActivities": {
      "category": [
        {
          "id": "https://w3id.org/xapi/netc/v1.0",
          "definition": {
            "type": "http://adlnet.gov/expapi/activities/profile"
          }
        },
        {
          "id": "https://w3id.org/xapi/performance-support/v1.0",
          "definition": {
            "type": "http://adlnet.gov/expapi/activities/profile"
          }
        }
      ]
    },
    "registration": "bff85ae4-af12-11ea-b3de-0242ac130004",
    "platform": "Android 10.0",
    "extensions": {
      "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"
    }
  },
  "timestamp": "2020-04-29T16:00:21.230Z"
}
```

2.3.1.2. Terminating an Application

A Terminated Statement is required to be communicated at the end of a user's session with a performance support application. The Context Registration UUID used for termination SHALL be the same as the most recent initialization for the current Actor. All of the Navy xAPI requirements for a Terminated Statement are provided below.

2.3.1.2.1. Terminated Application Requirements

An xAPI Statement for terminating a performance support application SHALL include the following:

- The `actor` SHALL be set according to the requirements in the Navy Core xAPI Profile
- The `verb.id` SHALL be set to `http://adlnet.gov/expapi/verbs/terminated`
- The `verb.display.en` SHALL be set to `terminated`

- The `object.id` SHALL be set to a unique identifier according to the Activity ID requirements in the Navy Core xAPI Profile
- The `object.definition.type` SHALL be set to `https://w3id.org/xapi/performance-support/activity-types/application`
- The `context.contextActivities.category` array SHALL be set to include the Navy Performance Support Profile activity identified in the Context Activities Category section
- The `context.registration` SHALL be set to the same attempt UUID established during the last Initialization
- The `context.platform` SHALL be set to the appropriate string value defined in the Navy Core xAPI Profile
- If known, the following Context Extensions apply:
    - Set `https://w3id.org/xapi/netc/extensions/school-center` to the appropriate predefined value from the Navy Common Reference Profile
    - Set `https://w3id.org/xapi/netc/extensions/launch-location` to the appropriate predefined value from the Navy Common Reference Profile
- The `timestamp` according to the requirements in the Navy Core xAPI Profile

2.3.1.2.2. Terminated Statement Example

```
{
  "actor": {
    "name": "Jane Doe",
    "account": {
```

```json
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
    }
  },
  "verb": {
    "id": "http://adlnet.gov/expapi/verbs/terminated",
    "display": {
      "en": "terminated"
    }
  },
  "object": {
    "id": "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-
b170-816fdf5947da",
    "definition": {
      "name": {
        "en": "Advanced Airborne Sensor Performance Support App"
      },
      "description": {
        "en": "A mobile application used at the moment of need for performance
support of the Advanced Airborne Sensor on the P-8."
      },
      "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
    }
  },
  "context": {
    "contextActivities": {
      "category": [
        {
          "id": "https://w3id.org/xapi/netc/v1.0",
          "definition": {
            "type": "http://adlnet.gov/expapi/activities/profile"
          }
        },
        {
```

```
      "id": "https://w3id.org/xapi/performance-support/v1.0",
      "definition": {
        "type": "http://adlnet.gov/expapi/activities/profile"
      }
    }
  ]
},
"registration": "bff85ae4-af12-11ea-b3de-0242ac130004",
"platform": "Android 10.0",
"extensions": {
  "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"
  }
},
"timestamp": "2020-04-29T16:00:21.230Z"
}
```

2.3.2. Checklists

2.3.2.1. Selecting a Checklist Item

A performance support application can send xAPI Statements to indicate when checklist items within a checklist Activity have been selected or deselected. A checklist is often used to help people follow a policy or process correctly. The Selected Checklist Item Statement SHALL be generated each time a checklist item is selected. All of the Navy xAPI requirements for a Selected Checklist Item Statement are provided below.

2.3.2.1.1. Selected Checklist Item Statement Requirements

An xAPI Statement for selecting a checklist item in performance support content SHALL include the following:

- The `actor` SHALL be set according to the requirements in the Navy Core xAPI Profile
- The `verb.id` SHALL be set to `http://id.tincanapi.com/verb/selected`
- The `verb.display.en` SHALL be set to `selected`
- Set `object.id` to a unique identifier according to the Activity ID requirements in the Navy Core xAPI Profile

- The `object.definition.type` SHALL be set to `http://id.tincanapi.com/activitytype/checklist-item`
- The `context.contextActivities.category` array SHALL include the Navy xAPI Profile activity identified in the Context Activities Category section
- The `context.contextActivities.category` array SHALL include the Navy Performance Support Profile activity identified in the Context Activities Category section
- The `context.contextActivities.parent` array SHALL include the checklist Activity
- The `context.contextActivities.grouping` array SHALL include the performance support application Activity
- The `context.registration` SHALL be set to the same attempt UUID established during the Initialization of the performance support application
- The `context.platform` SHALL be set to the appropriate string value defined in the Navy Core xAPI Profile
- If known, the following Context Extensions requirements apply:
  - Set `https://w3id.org/xapi/netc/extensions/school-center` to the appropriate predefined value from the Navy Common Reference Profile
  - Set `https://w3id.org/xapi/netc/extensions/launch-location` to the appropriate predefined value from the Navy Common Reference Profile
- The `timestamp` SHALL be set according to the requirements in the Navy Core xAPI Profile

2.3.2.1.2. Selected Checklist Item Statement Example

```
{
  "actor": {
    "name": "Jane Doe",
    "account": {
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
    }
  },
  "verb": {
    "id": "http://id.tincanapi.com/verb/selected",
    "display": {
      "en": "selected"
    }
  },
```

```
    "object": {
        "id": "https://navy.mil/netc/xapi/activities/checklist-items/f8be33ad-cb1b-
480c-ae91-4444114ba065",
        "definition": {
            "name": {
                "en": "Cleaned and Inspected Fiber Cables and Umbilicals"
            },
            "description": {
                "en": "Checklist item representing the procedure to perform cleaning and
inspection of fiber cables and umbilicals"
            },
            "type": "http://id.tincanapi.com/activitytype/checklist-item"
        }
    },
    "context": {
        "contextActivities": {
            "parent": [
                {
                    "id": "https://navy.mil/netc/xapi/activities/checklists/43b9c22c-6fae-
4989-82ce-e02019744b38",
                    "definition": {
                        "name": {
                            "en": "Advanced Airborne Sensor Maintenance Checklist"
                        },
                        "description": {
                            "en": "A maintenance checklist for the Advanced Airborne Sensor on
the P-8"
                        },
                        "type": "http://id.tincanapi.com/activitytype/checklist"
                    }
                }
            ],
            "grouping": [
                {
```

```
            "id":
            "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-
b170-816fdf5947da",
            "definition": {
              "name": {
                "en": "Advanced Airborne Sensor Performance Support App"
              },
              "description": {
                "en": "A mobile application used at the moment of need for
performance support of the Advanced Airborne Sensor on the P-8"
              },
              "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
            }
          }
        ],
        "category": [
          {
            "id": "https://w3id.org/xapi/netc/v1.0",
            "definition": {
              "type": "http://adlnet.gov/expapi/activities/profile"
            }
          },
          {
            "id": "https://w3id.org/xapi/performance-support/v1.0",
            "definition": {
              "type": "http://adlnet.gov/expapi/activities/profile"
            }
          }
        ]
      },
      "registration": "bff85ae4-af12-11ea-b3de-0242ac130004",
      "platform": "Android 10.0",
      "extensions": {
        "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"
```

```
    }
  },
  "timestamp": "2020-04-29T16:00:21.230Z"
}
```

2.3.2.1. Deselecting a Checklist Item

The Deselected Checklist Statement SHALL be generated each time a checklist item is deselected. All of the Navy xAPI requirements for a Deselected Checklist Item Statement are provided below.

2.3.2.1.1. Deselected Checklist Item Statement Requirements

An xAPI Statement for deselecting a checklist item in performance support content SHALL include the following:

- The `actor` SHALL be set according to the requirements in the Navy Core xAPI Profile
- The `verb.id` SHALL be set to `https://w3id.org/xapi/performance-support/verbs/deselected`
- The `verb.display.en` SHALL be set to `deselected`
- The `object.id` SHALL be set to a unique identifier according to the Activity ID requirements in the Navy Core xAPI Profile
- The `object.definition.type` SHALL be set to `http://id.tincanapi.com/activitytype/checklist-item`
- The `context.contextActivities.category` array SHALL include the Navy Core xAPI Profile activity identified in the Context Activities Category section
- The `context.contextActivities.category` array SHALL include the Navy Performance Support Profile activity identified in the Context Activities Category section
- The `context.contextActivities.parent` array SHALL include the checklist Activity
- The `context.contextActivities.grouping` array SHALL include the performance support application Activity
- The `context.registration` SHALL be set to the same attempt UUID established during the Initialization of the performance support application
- The `context.platform` SHALL be set to the appropriate string value defined in the Navy Core xAPI Profile
- If known, the following Context Extensions requirements apply:
  - Set `https://w3id.org/xapi/netc/extensions/school-center` to the appropriate predefined value from the Navy Common Reference Profile

- Set `https://w3id.org/xapi/netc/extensions/launch-location` to the appropriate predefined value from the Navy Common Reference Profile
- The `timestamp` SHALL be set according to the requirements in the Navy Core xAPI Profile

2.3.2.1.2. Deselected Checklist Statement Example

```
{
  "actor": {
    "name": "Jane Doe",
    "account": {
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
    }
  },
  "verb": {
    "id": "https://w3id.org/xapi/performance-support/verbs/deselected",
    "display": {
      "en": "deselected"
    }
  },
  "object": {
    "id": "https://navy.mil/netc/xapi/activities/checklist-items/1d0087e0-0562-
4f58-bc81-89e470476770",
    "definition": {
      "name": {
        "en": "Configured the Aircraft Before Installing SMPDM"
      },
      "description": {
        "en": "Checklist item representing the procedure to configure the aircraft
by removing/repositioning some baseline aircraft equipment."
      },
      "type": "http://id.tincanapi.com/activitytype/checklist-item"
    }
  },
  "context": {
    "contextActivities": {
```

```
    "parent": [
      {
        "id": "https://navy.mil/netc/xapi/activities/checklists/43b9c22c-6fae-
4989-82ce-e02019744b38",
        "definition": {
          "name": {
            "en": "Advanced Airborne Sensor Maintenance Checklist"
          },
          "description": {
            "en": "A maintenance checklist for the Advanced Airborne Sensor on
the P-8."
          },
          "type": "http://id.tincanapi.com/activitytype/checklist"
        }
      }
    ],
    "grouping": [
      {
        "id":
        "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-
b170-816fdf5947da",
        "definition": {
          "name": {
            "en": "Advanced Airborne Sensor Performance Support App"
          },
          "description": {
            "en": "A mobile application used at the moment of need for
performance support of the Advanced Airborne Sensor on the P-8."
          },
          "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
        }
      }
    ],
    "category": [
      {
```

```
            "id": "https://w3id.org/xapi/netc/v1.0",

            "definition": {

               "type": "http://adlnet.gov/expapi/activities/profile"

            }

         },

         {

            "id": "https://w3id.org/xapi/performance-support/v1.0",

            "definition": {

               "type": "http://adlnet.gov/expapi/activities/profile"

            }

         }

      ]

    },

    "registration": "bff85ae4-af12-11ea-b3de-0242ac130004",

    "platform": "Android 10.0",

    "extensions": {

       "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"

    }

  },

  "timestamp": "2020-04-29T16:00:21.230Z"

}
```

2.3.2.1. Completing a Checklist

The performance support application can send xAPI Statements to indicate when the checklist has been completed. The completion criteria for a checklist is determined by the design and purpose of the checklist, which could require that all checklist items be selected before the checklist is considered to be completed. All of the Navy xAPI requirements for a Completed Checklist Statement are provided below.

2.3.2.1.1. Completed Checklist Statement Requirements

An xAPI Statement for completing a checklist in performance support content SHALL include the following:

- The `actor` SHALL be set according to the requirements in the Navy Core xAPI Profile
- The `verb.id` SHALL be set to `http://adlnet.gov/expapi/verbs/completed`
- The `verb.display.en` SHALL be set to `completed`
- The `object.id` SHALL be set to a unique identifier according to the Activity ID requirements in the Navy Core xAPI Profile
- The `object.definition.type` SHALL be set to `http://id.tincanapi.com/activitytype/checklist`
- The `context.contextActivities.category` array SHALL include the Navy Core xAPI Profile activity identified in the Context Activities Category section
- The `context.contextActivities.category` array SHALL include the Navy Performance Support Profile activity identified in the Context Activities Category section
- The `context.contextActivities.grouping` array SHALL include the performance support application Activity
- The `context.registration` SHALL be set to the same attempt UUID established during the Initialization of the performance support application
- The `context.platform` SHALL be set to the appropriate string value defined in the Navy Core xAPI Profile
- If known, the following Context Extensions requirements apply:
  - Set `https://w3id.org/xapi/netc/extensions/school-center` to the appropriate predefined value from the Navy Common Reference Profile
  - Set `https://w3id.org/xapi/netc/extensions/launch-location` to the appropriate predefined value from the Navy Common Reference Profile
- The `timestamp` SHALL be set according to the requirements in the Navy Core xAPI Profile

2.3.2.1.2. Completed Checklist Statement Example

```
{
  "actor": {
    "name": "Jane Doe",
    "account": {
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
    }
  },
  "verb": {
```

```
    "id": "http://adlnet.gov/expapi/verbs/completed",
    "display": {
      "en": "completed"
    }
  },
  "object": {
    "id": "https://navy.mil/netc/xapi/activities/checklists/43b9c22c-6fae-4989-
82ce-e02019744b38",
    "definition": {
      "name": {
        "en": "Advanced Airborne Sensor Maintenance Checklist"
      },
      "description": {
        "en": "A maintenance checklist for the Advanced Airborne Sensor on the P-
8."
      },
      "type": "http://id.tincanapi.com/activitytype/checklist"
    }
  },
  "context": {
    "contextActivities": {
      "grouping": [
        {
          "id":
          "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-
b170-816fdf5947da",
          "definition": {
            "name": {
              "en": "Advanced Airborne Sensor Performance Support App"
            },
            "description": {
              "en": "A mobile application used at the moment of need for
performance support of the Advanced Airborne Sensor on the P-8."
            },
            "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
```

```
            }
          }
        ],
        "category": [
          {
            "id": "https://w3id.org/xapi/netc/v1.0",
            "definition": {
              "type": "http://adlnet.gov/expapi/activities/profile"
            }
          },
          {
            "id": "https://w3id.org/xapi/performance-support/v1.0",
            "definition": {
              "type": "http://adlnet.gov/expapi/activities/profile"
            }
          }
        ]
      },
      "registration": "bff85ae4-af12-11ea-b3de-0242ac130004",
      "platform": "Android 10.0",
      "extensions": {
        "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"
      }
    },
    "timestamp": "2020-04-29T16:00:21.230Z"
}
```

2.3.3. Step-by-step Procedures

Step-by-step procedures used as performance support can help people review how to perform a task. A procedure is a sequence of steps that are followed systematically to achieve a task or make a decision. A step contains directions or tasks that are done in the same way every time. In order to associate which steps belong to a procedure, content developers SHALL use the `contextActivities` object to indicate a parent

relationship between the steps and the overall procedure. Once all of the steps have been viewed then a Viewed Procedure Statement SHALL be used to indicate the overall procedure has been viewed. All of the Navy xAPI requirements for a Viewed Step Statement and a Viewed Procedure Statement are provided below.

2.3.3.1. Viewing a Step

2.3.3.1.1. Viewed Step Statement Requirements

An xAPI Statement for viewing a step in performance support content SHALL include the following:

- The `actor` SHALL be set according to the requirements in the Navy Core xAPI Profile
- The `verb.id` SHALL be set to `http://id.tincanapi.com/verb/viewed`
- The `verb.display.en` SHALL be set to `viewed`
- The `object.id` SHALL be set to a unique identifier according to the Activity ID requirements in the Navy Core xAPI Profile
- The `object.definition.type` SHALL be set to `http://id.tincanapi.com/activitytype/step`
- The `context.contextActivities.category` array SHALL include the Navy Core xAPI Profile activity identified in the Context Activities Category section
- The `context.contextActivities.category` array SHALL include the Navy Performance Support Profile activity identified in the Context Activities Category section
- The `context.contextActivities.parent` array SHALL include the procedure Activity
- The `context.contextActivities.grouping` array SHALL include the performance support application Activity
- The `context.registration` SHALL be set to the same attempt UUID established during the Initialization of the performance support application
- The `context.platform` SHALL be set to the appropriate string value defined in the Navy Core xAPI Profile
- If known, the following Context Extensions requirements apply:
  - Set `https://w3id.org/xapi/netc/extensions/school-center` to the appropriate predefined value from the Navy Common Reference Profile
  - Set `https://w3id.org/xapi/netc/extensions/launch-location` to the appropriate predefined value from the Navy Common Reference Profile
- The `timestamp` SHALL be set according to the requirements in the Navy Core xAPI Profile

2.3.3.1.2. Viewed Step Statement Example

```json
{
  "actor": {
    "name": "Jane Doe",
    "account": {
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
    }
  },
  "verb": {
    "id": "http://id.tincanapi.com/verb/viewed",
    "display": {
      "en": "viewed"
    }
  },
  "object": {
    "id": "https://navy.mil/netc/xapi/activities/steps/382927d2-b0e9-11ea-b3de-
0242ac130004",
    "definition": {
      "name": {
        "en": "Step 1"
      },
      "description": {
        "en": "Clean the auxiliary equipment"
      },
      "type": "http://id.tincanapi.com/activitytype/step"
    }
  },
  "context": {
    "contextActivities": {
      "parent": [
        {
          "id":
          "https://navy.mil/netc/xapi/activities/procedures/97668fef-b6bb-419a-
8795-ede691dba9a8",
```

```
      "definition": {
        "name": {
          "en": "Auxiliary Equipment Maintenance Procedure"
        },
        "description": {
          "en": "A maintenance procedure required to ensure proper auxiliary
equipment operation."
        },
        "type": "https://w3id.org/xapi/performance-support/activity-
types/procedure"
      }
    }
  ],
  "grouping": [
    {
      "id":
      "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-
b170-816fdf5947da",
      "definition": {
        "name": {
          "en": "Advanced Airborne Sensor Performance Support App"
        },
        "description": {
          "en": "A mobile application used at the moment of need for
performance support of the Advanced Airborne Sensor on the P-8."
        },
        "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
      }
    }
  ],
  "category": [
    {
      "id": "https://w3id.org/xapi/netc/v1.0",
      "definition": {
        "type": "http://adlnet.gov/expapi/activities/profile"
```

```
        }
      },
      {
        "id": "https://w3id.org/xapi/performance-support/v1.0",
        "definition": {
          "type": "http://adlnet.gov/expapi/activities/profile"
        }
      }
    ]
  },
  "registration": "bff85ae4-af12-11ea-b3de-0242ac130004",
  "platform": "Android 10.0",
  "extensions": {
    "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"
  }
  },
  "timestamp": "2020-04-29T16:00:21.230Z"
}
```

2.3.3.2. Viewing a Procedure

2.3.3.2.1. Viewed Procedure Statement Requirements

An xAPI Statement for viewing a procedure in performance support content SHALL include the following:

- The `actor` SHALL be set according to the requirements in the Navy Core xAPI Profile
- The `verb.id` SHALL be set to `http://id.tincanapi.com/verb/viewed`
- The `verb.display.en` SHALL be set to `viewed`
- The `object.id` SHALL be set to a unique identifier according to the Activity ID requirements in the Navy Core xAPI Profile
- The `object.definition.type` SHALL be set to `https://w3id.org/xapi/performance-support/activity-types/procedure`
- The `context.contextActivities.category` array SHALL include the Navy Core xAPI Profile activity identified in the Context Activities Category section

- The `context.contextActivities.category` array SHALL include the Navy Performance Support Profile activity identified in the Context Activities Category section
- The `context.contextActivities.grouping` array SHALL include the performance support application Activity
- The `context.registration` SHALL be set to the same attempt UUID established during the Initialization of the performance support application
- The `context.platform` SHALL be set to the appropriate string value defined in the Navy Core xAPI Profile
- If known, the following Context Extensions requirements apply:
  - Set `https://w3id.org/xapi/netc/extensions/school-center` to the appropriate predefined value from the Navy Common Reference Profile
  - Set `https://w3id.org/xapi/netc/extensions/launch-location` to the appropriate predefined value from the Navy Common Reference Profile
- The `timestamp` SHALL be set according to the requirements in the Navy Core xAPI Profile

2.3.3.2.2. Viewed Procedure Statement Example

```
{
  "actor": {
    "name": "Jane Doe",
    "account": {
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
    }
  },
  "verb": {
    "id": "http://id.tincanapi.com/verb/viewed",
    "display": {
      "en": "viewed"
    }
  },
  "object": {
    "id": "https://navy.mil/netc/xapi/activities/procedures/97668fef-b6bb-419a-
8795-ede691dba9a8",
    "definition": {
      "name": {
```

```
      "en": "Auxiliary Equipment Maintenance Procedure"
    },
    "description": {
      "en": "A maintenance procedure required to ensure proper auxiliary
equipment operation."
    },
    "type": "https://w3id.org/xapi/performance-support/activity-types/procedure"
  }
},
"context": {
  "contextActivities": {
    "grouping": [
      {
        "id":
        "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-
b170-816fdf5947da",
        "definition": {
          "name": {
            "en": "Advanced Airborne Sensor Performance Support App"
          },
          "description": {
            "en": "A mobile application used at the moment of need for
performance support of the Advanced Airborne Sensor on the P-8."
          },
          "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
        }
      }
    ],
    "category": [
      {
        "id": "https://w3id.org/xapi/netc/v1.0",
        "definition": {
          "type": "http://adlnet.gov/expapi/activities/profile"
        }
```

```
      },
      {
        "id": "https://w3id.org/xapi/performance-support/v1.0",
        "definition": {
          "type": "http://adlnet.gov/expapi/activities/profile"
        }
      }
    ]
  },
  "registration": "bff85ae4-af12-11ea-b3de-0242ac130004",
  "platform": "Android 10.0",
  "extensions": {
    "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"
  }
  },
  "timestamp": "2020-04-29T16:00:21.230Z"
}
```

2.3.4. Searches and Search Results

2.3.4.1. Searching for Terms

Performance support applications often implement search engines or some type of search functionality over the performance support content or data. This capability provides the user with the ability to quickly find information they are looking for either within the performance support app or in externally searched resources. The Navy Performance Support Profile defines how to track the user-entered search terms in order to provide insights and analytics on what the users commonly search. All of the Navy xAPI requirements for a Searched Statement are provided below.

2.3.4.1.1. Searched Terms Statement Requirements

An xAPI Statement for searching for terms in performance support content SHALL include the following:

- The `actor` SHALL be set according to the requirements in the Navy Core xAPI Profile

- The `verb.id` SHALL be set to `https://w3id.org/xapi/performance-support/verbs/searched`
- The `verb.display` SHALL be set to `searched`
- The `object.id` SHALL be set to a unique identifier according to the Activity ID requirements in the Navy Core xAPI Profile
- The `object.definition.type` SHALL be set to `https://w3id.org/xapi/acrossx/activities/search-engine`
- The `context.contextActivities.category` array SHALL include the Navy Core xAPI Profile activity identified in the Context Activities Category section
- The `context.contextActivities.category` array SHALL include the Navy Performance Support Profile activity identified in the Context Activities Category section
- The `context.contextActivities.grouping` array SHALL include the performance support Activity
- The `context.registration` SHALL be set to the same attempt UUID established during the Initialization of the performance support application
- The `context.platform` SHALL be set to the appropriate string value defined in the Navy Core xAPI Profile
- The `result.response` SHALL be set to the search term entered by the user
- If known, the following Context Extensions requirements apply:
    - Set `https://w3id.org/xapi/netc/extensions/school-center` to the appropriate predefined value from the Navy Common Reference Profile
    - Set `https://w3id.org/xapi/netc/extensions/launch-location` to the appropriate predefined value from the Navy Common Reference Profile
- The `timestamp` SHALL be set according to the requirements in the Navy Core xAPI Profile

2.3.4.1.2. Searched Terms Statement Example

```
{
  "actor": {
    "name": "Jane Doe",
    "account": {
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
    }
  },
  "verb": {
```

```
    "id": "https://w3id.org/xapi/performance-support/verbs/searched",
    "display": {
      "en": "searched"
    }
  },
  "object": {
    "id": "https://navy.mil/netc/xapi/activities/search-engine/489e9c1b-13ef-43ae-
a7ab-ffe138c19f77",
    "definition": {
      "name": {
        "en": "Application Search"
      },
      "description": {
        "en": "A search activity performed using the application's user interface."
      },
      "type": "https://w3id.org/xapi/acrossx/activities/search-engine"
    }
  },
  "context": {
    "contextActivities": {
      "grouping": [
        {
          "id":
          "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-
b170-816fdf5947da",
          "definition": {
            "name": {
              "en": "Advanced Airborne Sensor Performance Support App"
            },
            "description": {
              "en": "A mobile application used at the moment of need for
performance support of the Advanced Airborne Sensor on the P-8."
            },
            "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
          }
```

```
          }
        ],
        "category": [
          {
            "id": "https://w3id.org/xapi/netc/v1.0",
            "definition": {
              "type": "http://adlnet.gov/expapi/activities/profile"
            }
          },
          {
            "id": "https://w3id.org/xapi/performance-support/v1.0",
            "definition": {
              "type": "http://adlnet.gov/expapi/activities/profile"
            }
          }
        ]
      },
      "registration": "bff85ae4-af12-11ea-b3de-0242ac130004",
      "platform": "Android 10.0",
      "extensions": {
        "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"
      }
    },
    "result": {
      "response": "SMPDM"
    },
    "timestamp": "2020-04-29T16:00:21.230Z"
  }
```

2.3.4.2. Selecting a Search Result

After a user searches for a term in a performance support application, the search engine typically returns several results to be displayed to the user. Each of the results are linked to either an internal or external resource related to the search term. The Navy Performance Support Profile tracks which results are selected by the user in order

to provide insights and analytics on what the users selected from all search results. The linked search result selected by the user SHALL be indicated in `result.response` of the xAPI Searched Statement. All of the Navy xAPI requirements for a Searched Statement are provided below.

2.3.4.2.1. Selected Search Result Statement Requirements

An xAPI Statement for selecting the search results in performance support content SHALL include the following:

- The `actor` SHALL be set according to the requirements in the Navy Core xAPI Profile
- The `verb.id` SHALL be set to `http://id.tincanapi.com/verb/selected`
- The `verb.display.en` SHALL be set to `selected`
- The `object.id` SHALL be set to a unique identifier according to the Activity ID requirements in the Navy Core xAPI Profile
- The `object.definition.type` SHALL be set to `http://adlnet.gov/expapi/activities/link`
- The `context.contextActivities.category` array SHALL include the Navy Core xAPI Profile activity identified in the Context Activities Category section
- The `context.contextActivities.category` array SHALL include the Navy Performance Support Profile activity identified in the Context Activities Category section
- The `context.contextActivities.parent` array SHALL include the search-engine Activity
- The `context.contextActivities.grouping` array SHALL include the performance support Activity
- The `context.registration` SHALL be set to the same attempt UUID established during the Initialization of the performance support application
- The `context.platform` SHALL be set to the appropriate string value defined in the Navy Core xAPI Profile
- If known, the following Context Extensions requirements apply:
  - Set `https://w3id.org/xapi/netc/extensions/school-center` to the appropriate predefined value from the Navy Common Reference Profile
  - Set `https://w3id.org/xapi/netc/extensions/launch-location` to the appropriate predefined value from the Navy Common Reference Profile
- The `timestamp` SHALL be set according to the requirements in the Navy Core xAPI Profile

2.3.4.2.2. Selected Search Result Statement Example

```
{
```

```
  "actor": {
    "name": "Jane Doe",
    "account": {
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
    }
  },
  "verb": {
    "id": "http://id.tincanapi.com/verb/selected",
    "display": {
      "en": "selected"
    }
  },
  "object": {
    "id": "https://navy.mil/netc/xapi/activities/links/e4042887-6035-41bb-ae98-
96d9f6e11884",
    "definition": {
      "name": {
        "en": "SMPDM Link"
      },
      "description": {
        "en": "A link to a resource on SMPDM."
      },
      "type": "http://adlnet.gov/expapi/activities/link"
    }
  },
  "context": {
    "contextActivities": {
      "parent": [
        {
          "id":
          "https://navy.mil/netc/xapi/activities/search-engine/489e9c1b-13ef-43ae-
a7ab-ffe138c19f77",
          "definition": {
            "name": {
```

```
              "en": "Application Search Engine"
            },
            "description": {
              "en": "The search engine used in the performance support
application."
            },
            "type": "https://w3id.org/xapi/acrossx/activities/search-engine"
          }
        }
      ],
      "grouping": [
        {
          "id":
          "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-
b170-816fdf5947da",
          "definition": {
            "name": {
              "en": "Advanced Airborne Sensor Performance Support App"
            },
            "description": {
              "en": "A mobile application used at the moment of need for
performance support of the Advanced Airborne Sensor on the P-8."
            },
            "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
          }
        }
      ],
      "category": [
        {
          "id": "https://w3id.org/xapi/netc/v1.0",
          "definition": {
            "type": "http://adlnet.gov/expapi/activities/profile"
          }
        },
```

```
        {
          "id": "https://w3id.org/xapi/performance-support/v1.0",
          "definition": {
            "type": "http://adlnet.gov/expapi/activities/profile"
          }
        }
      ]
    },
    "registration": "bff85ae4-af12-11ea-b3de-0242ac130004",
    "platform": "Android 10.0",
    "extensions": {
      "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"
    }
  },
  "timestamp": "2020-04-29T16:00:21.230Z"
}
```

2.3.5. Tracking General Activities

The Navy Common Reference Profile provides several options for tracking general activities. The Navy Performance Support Profile reuses some of these general activities such as interacting with menus, like/dislike buttons, files, links, pages, and videos. A few examples of tracking these types of general activities in a performance support application are provided below. The requirements for each of these examples are provided in the Navy Common Reference Profile and are not repeated here.

2.3.5.1. Menus & Menu Items

User interface activities such as interacting with menu items can also be tracked within performance support content. The requirements and examples for menu activities are defined in the Navy Common Reference Profile since they can be optionally tracked in many types of content. However, there is an additional Navy Performance Support Profile requirement to add a context grouping relationship with the performance support application. For the sake of brevity and eliminating bloat from this document, only one xAPI Statement example for selecting a menu item is provided below. Refer to the Navy Common Reference Profile for the general xAPI

Statement requirements and examples for menu and menu item activities and apply the same grouping requirements.

2.3.5.1.1. Accessed Menu Item Statement Example

```
{
  "actor": {
    "name": "Jane Doe",
    "account": {
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
    }
  },
  "verb": {
    "id": "https://w3id.org/xapi/performance-support/verbs/accessed",
    "display": {
      "en": "accessed"
    }
  },
  "object":{
   "id": "https://navy.mil/netc/xapi/activities/menu-items/6ac32904-0774-49d8-9527-
ccfb264cce03",
    "objectType": "Activity",
    "definition": {
      "name": {
        "en": "AAS Configuration"
      },
      "description": {
        "en": "A submenu item in the Configuration Menu."
      },
      "type": "https://w3id.org/xapi/performance-support/activity-types/menu-item"
    }
  },
  "context": {
      "contextActivities": {
        "parent": [
```

```
        {
          "id":
"https://navy.mil/netc/xapi/activities/menus/25fcb754-b09e-11ea-b3de-0242ac130004",
          "definition": {
            "name": {
              "en": "Configuration Menu"
            },
            "description": {
              "en": "The configuration menu provided for the Advanced Airborne
Sensor App."
            },
            "type":
            "https://w3id.org/xapi/performance-support/activity-types/menu"
          }
        }
      ],
      "grouping": [
        {
          "id":
          "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-
b170-816fdf5947da",
          "definition": {
            "name": {
              "en": "Advanced Airborne Sensor Performance Support App"
            },
            "description": {
              "en": "A mobile application used at the moment of need for
performance support of the Advanced Airborne Sensor on the P-8."
            },
            "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
          }
        }
      ],
      "category": [
        {
```

```
          "id": "https://w3id.org/xapi/netc/v1.0",
          "definition": {
            "type": "http://adlnet.gov/expapi/activities/profile"
          }
        },
        {
          "id": "https://w3id.org/xapi/performance-support/v1.0",
          "definition": {
            "type": "http://adlnet.gov/expapi/activities/profile"
          }
        }
      ]
    },
    "registration": "bff85ae4-af12-11ea-b3de-0242ac130004",
    "platform": "Android 10.0",
    "extensions": {
      "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"
    }
  },
  "timestamp": "2020-04-29T16:05:41.520Z"
}
```

2.3.6.1. Like & Dislike Buttons

The Navy Common Reference Profile enables content to track which things are liked or disliked the most by the users in order to provide quantitative insights and analytics. The same xAPI Statements for liking and disliking something can also be used to represent favoriting or unfavoriting. All of the Navy xAPI requirements for a Liked or Disliked Statement are provided in the Navy Common Reference Profile. For the sake of brevity, only one Liked Statement example in a performance support application is provided below.

2.3.6.1.1. Liked Statement Example

```
{
```

```json
  "actor": {
    "name": "Jane Doe",
    "account": {
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
    }
  },
  "verb": {
    "id": "https://w3id.org/xapi/acrossx/verbs/liked",
    "display": {
      "en": "liked"
    }
  },
  "object":{
   "id": "https://navy.mil/netc/xapi/activities/images/326b1af6-b0a0-11ea-b3de-
0242ac130004",
    "objectType": "Activity",
    "definition": {
      "name": {
        "en": "SMP Inspection Diagram"
      },
      "description": {
        "en": "A diagram of SMP Avionics and Power Umbilical Inspection Setup."
      },
      "type": "https://w3id.org/xapi/performance-support/activity-types/image"
    }
  },
  "context": {
      "contextActivities": {
        "parent": [
        {
          "id":
          "https://navy.mil/netc/xapi/activities/pages/2250e9ef-f105-4092-a53c-
93cb25b8e088",
          "definition": {
```

```
            "name": {
              "en": "AAR Resources Page"
            },
            "description": {
              "en": "A resource page within the Advanced Airborne Sensor
Performance Support App."
            },
            "type": "https://w3id.org/xapi/acrossx/activities/page"
          }
        }
        ],
        "grouping": [
        {
          "id":
          "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-
b170-816fdf5947da",
          "definition": {
            "name": {
              "en": "Advanced Airborne Sensor Performance Support App"
            },
            "description": {
              "en": "A mobile application used at the moment of need for
performance support of the Advanced Airborne Sensor on the P-8."
            },
            "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
          }
        }
      ],
        "category": [
        {
          "id": "https://w3id.org/xapi/netc/v1.0",
          "definition": {
            "type": "http://adlnet.gov/expapi/activities/profile"
          }
        },
```

```
        {
          "id": "https://w3id.org/xapi/performance-support/v1.0",
          "definition": {
            "type": "http://adlnet.gov/expapi/activities/profile"
          }
        }
      ]
    },
    "registration": "bff85ae4-af12-11ea-b3de-0242ac130004",
    "platform": "Android 10.0",
    "extensions": {
      "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"
    }
  },
  "timestamp": "2020-04-29T16:05:41.520Z"
}
```

2.3.7.1. Files, Links, and Pages

Activities such as files, links, and pages can be tracked within performance support content. The requirements and examples for these Activity Types are defined in the Navy Common Reference Profile. However, there is an additional Navy Performance Support Profile requirement to add a context grouping relationship with the performance support application. For the sake of brevity and eliminating bloat from this document, only one example is provided below. Refer to the Navy Common Reference Profile for the requirements and more xAPI Statement examples of Verbs that can be used to track with file, link, and page activities and apply the same grouping requirements.

2.3.7.1.1. Opened File Statement Example

```
{
  "actor": {
    "name": "Jane Doe",
    "account": {
```

```
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
    }
  },
  "verb": {
    "id": "https://w3id.org/xapi/netc/verbs/opened",
    "display": {
      "en": "opened"
    }
  },
  "object":{
   "id": "https://navy.mil/netc/xapi/activities/files/307325ca-36f4-49cb-8787-
80faf527f042",
    "objectType": "Activity",
    "definition": {
      "name": {
        "en": "Advanced Airborne Sensor Special Mission Pod Deployment Mechanism
Technical Manual, Aircraft Maintenance Manual (AAM) CDRL C027: 20 October 2015,
D809-04231-1"
      },
      "description": {
        "en": "A PDF file tech manual for the Advanced Airborne Sensor."
      },
      "type": "http://adlnet.gov/expapi/activities/file"
    }
  },
  "context": {
    "contextActivities": {
      "parent": [
        {
          "id":
          "https://navy.mil/netc/xapi/activities/pages/2250e9ef-f105-4092-a53c-
93cb25b8e088",
          "definition": {
            "name": {
              "en": "AAR Resources Page"
```

```
            },
            "description": {
              "en": "A resource page within the Advanced Airborne Sensor
Performance Support App."
            },
            "type": "https://w3id.org/xapi/acrossx/activities/page"
          }
        }
      ],
      "grouping": [
        {
          "id":
          "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-
b170-816fdf5947da",
          "definition": {
            "name": {
              "en": "Advanced Airborne Sensor Performance Support App"
            },
            "description": {
              "en": "A mobile application used at the moment of need for
performance support of the Advanced Airborne Sensor on the P-8."
            },
            "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
          }
        }
      ],
      "category": [
        {
          "id": "https://w3id.org/xapi/netc/v1.0",
          "definition": {
            "type": "http://adlnet.gov/expapi/activities/profile"
          }
        },
        {
          "id": "https://w3id.org/xapi/performance-support/v1.0",
```

```
            "definition": {
                "type": "http://adlnet.gov/expapi/activities/profile"
            }
        }
    ]
    },
    "registration": "bff85ae4-af12-11ea-b3de-0242ac130004",
    "platform": "Android 10.0",
    "extensions": {
        "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"
    }
    },
    "timestamp": "2020-04-29T16:30:41.520Z"
}
```

2.3.8.1. Video & Audio

Granular activities such as audio and video files can also be tracked within performance support content. The requirements and examples for these Activity Types are defined in the Navy Common Reference Profile. However, there are additional Navy Performance Support Profile requirements for the Context Object of an xAPI Statement when including any audio or video activities within performance support. For the sake of brevity and eliminating bloat from this document, only one xAPI Statement example with a video is provided below. Refer to the Navy Common Reference Profile for the requirements and more xAPI Statement examples of video activities.

2.3.8.1.1. Played Video Statement Example

```
{
  "actor": {
    "name": "Jane Doe",
    "account": {
      "homePage": "https://edipi.navy.mil",
      "name": "9876543210"
```

```
    }
  },
  "verb": {
    "id": "https://w3id.org/xapi/video/verbs/played",
    "display": {
      "en": "played"
    }
  },
  "object": {
    "id": "https://navy.mil/netc/xapi/activities/videos/179b305b-a1b2-4539-9854-
1e09fa97a0c1",
    "definition": {
      "name": {
        "en": "MFCS simulated video"
      },
      "description": {
        "en": "An video simulation of the Mechanism Functional Checkout Simulator
(MFCS)."
      },
      "type": "https://w3id.org/xapi/video/activity-type/video"
    }
  },
  "context":{
    "contextActivities":{
      "parent": [
      {
          "id":
          "https://navy.mil/netc/xapi/activities/pages/94a37584-58ed-4454-bf73-
98ddcb32acdd",
          "definition": {
            "name": {
              "en": "Mechanism Functional Checkout Simulator Page"
            },
            "description": {
              "en": "A page on MFCS within the Advanced Airborne Sensor Performance
Support App."
```

```
            },
            "type": "https://w3id.org/xapi/acrossx/activities/page"
          }
        }
      ],
      "grouping": [
        {
          "id":
          "https://navy.mil/netc/xapi/activities/applications/60608f6b-c938-4ae7-
b170-816fdf5947da",
          "definition": {
            "name": {
              "en": "Advanced Airborne Sensor Performance Support App"
            },
            "description": {
              "en": "A mobile application used at the moment of need for
performance support of the Advanced Airborne Sensor on the P-8."
            },
            "type": "https://w3id.org/xapi/performance-support/activity-
types/application"
          }
        }
      ],
      "category": [
        {
          "id": "https://w3id.org/xapi/netc/v1.0",
          "definition": {
            "type": "http://adlnet.gov/expapi/activities/profile"
          }
        },
        {
          "id": "https://w3id.org/xapi/performance-support/v1.0",
          "definition": {
            "type": "http://adlnet.gov/expapi/activities/profile"
          }
```

```
        },
        {
          "id":"https://w3id.org/xapi/video/v1.0.3",
          "definition":{
            "type":"http://adlnet.gov/expapi/activities/profile"
          }
        }
      ]
    },
    "registration": "bff85ae4-af12-11ea-b3de-0242ac130004",
    "platform": "Android 10.0",
    "extensions": {
      "https://w3id.org/xapi/video/extensions/time": 0,
      "https://w3id.org/xapi/netc/extensions/school-center": "Center for Naval
Aviation Technical Training (CNATT)"
    }
  },
  "timestamp":"2020-04-29T16:05:42.520Z"
}
```