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Hour Log – Olog Interface Specifications

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|  |  |
| Project Name | Hour Log |
| Project Code |  |
| Account |  |
| Department |  |
| Project Leader |  |
| Project Coordinator |  |

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Revision History

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| --- | --- | --- | --- |
| Version | Date | Author | Description |
| 1.0 | 12-Aug-204 | Vuppala | Initial |
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# Introduction

Hour Log application is used by the Operations Department at National Superconducting Cyclotron Laboratory (NSCL) to manage activity log, facility status, system breakdowns, shift change, and to generate reports for funding agencies. A new version of Hour Log (NHL) is being implemented to enhance functionality, improve maintainability, and to allow extensibility. The new version will interface with several external systems: Approved Experiments, Trouble Reports, Training Database, Logbook Service, and Configuration databases.

## Purpose

The purpose of this document is to capture requirements for Logbook Service (Olog) to meet NHL’s needs. It is intended for the following audience:

* Members of the Logbook Service development team that will implement the interfaces; they need to make sure that the requirements are feasible.
* Members of the Controls and Computing Department; they need to make sure that the requirements are accurate and complete for interfacing with Hour Log.

## Scope

An interface to Olog service, referred as the Olog Interface, shall be developed. It will enable

* Import of existing log entries from the current Hour Log (CHL) into Olog service
* Create, modify, and read log entries in Olog service by NHL

## Definition, Acronyms, and Abbreviations

Table Glossary

|  |  |
| --- | --- |
| Item | Description |
| API | Application Programming Interface |
| CHL | Current Hour Log: the current version of the Hour Log |
| NHL | New Hour Log: the new version of Hour Log |
| NSCL | National Superconducting Cyclotron Lab |
| Olog | The Logbook system |
| TR | Trouble Report System |
| TG | Training System |
|  |  |
|  |  |

## References

## Overview

# Overall Description

## Product Perspective

The Olog Interface will enable importing of data from CHL. Using the interface, NHL will store log entries in the Olog system. This may require changes to current Olog system and its API.

### System Interfaces

None.

### User Interfaces

None

### Hardware Interfaces

None

### Software Interfaces

None

### Communications Interfaces

None

### Memory Constraints

None

### Operations

None

### Site-adaptation Requirements

None.

## Product Functions

The desired interface shall allow

* Importing data into Olog
* Create, modify, and read log entries by another service (not a user)

## User Characteristics

The users of the interface are familiar with various interfacing technologies.

## General Constraints

## Assumptions and Dependencies

1. It is assumed that functionality of Olog’s current interface i.e. multiple logbooks, tags, properties etc, will not change or diminish. The requirements mentioned in this document specify additional complementary functionality.

# Specific Requirements

This section contains all the software requirements with sufficient detail so as to enable designers to design a system that meets the requirements.

## External Interfaces

None.

## Functions

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Description | By | Comments |
| Olog-F01 | Olog interface shall allow importing of log entries, including attachments, from CHL. | Vuppala V |  |
| Olog-F02 | Olog interface shall allow creation, modification, and reading of log entries. | Vuppala V |  |
| Olog-F03 | Olog interface shall allow setting of a long entry’s author during its creation. | Vuppala V |  |
| Olog-F04 | Olog interface shall allow changing of timestamp of a log entry. | Vuppala V |  |
| Olog-F05 | Olog interface shall allow reading of a log entry’s edits (history). | Vuppala V |  |
| Olog-F06 | Olog interface shall allow for checking the availability of the Olog system. | Vuppala V |  |

## Performance Requirements

None.

## Design Constraints

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Description | By | Comments |
| Olog-D01 | Olog interface shall be RESTful | Vuppala V |  |
| Olog-D02 | A log entry’s identifier, assigned during its creation by Olog, must never change. This identifier will be stored in NHL. | Vuppala V |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Software System Attributes

## Other Requirements

1. Use Cases

UC-01: List of TRs

UC-02: Training