



**OHF ATNA Audit Client**  
**Architecture & API Documentation**  
**Version X.X.X**

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# 1. Introduction

The Eclipse Foundation is a not-for-profit corporation formed to advance the creation, evolution, promotion, and support of the Eclipse Platform and to cultivate both an open source community and an ecosystem of complementary products, capabilities, and services. Eclipse is an open source community whose projects are focused on providing an extensible development platform and application frameworks for building software.

🔗 [www.eclipse.org](http://www.eclipse.org)

The Eclipse Open Healthcare Framework (EOHF) is a project within Eclipse formed for the purpose of expediting healthcare informatics technology. The project is composed of extensible frameworks and tools which emphasize the use of existing and emerging standards in order to encourage interoperable open source infrastructure, thereby lowering integration barriers.

🔗 [www.eclipse.org/ohf](http://www.eclipse.org/ohf)

The Integrating the Healthcare Enterprise (IHE) is an initiative by healthcare professionals and industry to improve the way computer systems in healthcare share information. IHE promotes the coordinated use of established standards such as DICOM and HL7 to address specific clinical needs in support of optimal patient care. Systems developed in accordance with IHE communicate with one another better, are easier to implement, and enable care providers to use information more effectively.

🔗 [www.ihe.net](http://www.ihe.net)

The IHE Technical Frameworks are a resource for users, developers and implementers of healthcare imaging and information systems. They define specific implementations of established standards to achieve effective systems integration, facilitate appropriate sharing of medical information and support optimal patient care. They are expanded annually, after a period of public review, and maintained regularly by the IHE Technical Committees through the identification and correction of errata.

🔗 [http://www.ihe.net/Technical\\_Framework/index.cfm](http://www.ihe.net/Technical_Framework/index.cfm)

This document describes the current release of the Eclipse OHF plugin implementation of the client side of the IHE ITI Technical Framework Transaction ITI-20: Record Audit Event for use by any IHE Actor or healthcare application.





User Authentication (EUA), Retrieve Information for Display (RID), Patient Synchronized Applications (PSA), and Personnel White Pages (PWP).

The IHE ITI Technical Framework can be found on the following website:

[http://www.ihe.net/Technical\\_Framework/index.cfm#IT](http://www.ihe.net/Technical_Framework/index.cfm#IT).

Key sections relevant to the OHF ATNA Audit Client include (but are not limited to):

- Volume 1, Section 9 and Appendices A,B and G
- Volume 2, Section 1, Section 2, Section 3.20 and Appendix K

### **2.4.3 Newsgroup**

Any unanswered technical questions may be posted to Eclipse OHF newsgroup. The newsgroup is located at <news://news.eclipse.org/eclipse.technology.ohf>.

You can request a password at: <http://www.eclipse.org/newsgroups/main.html>.



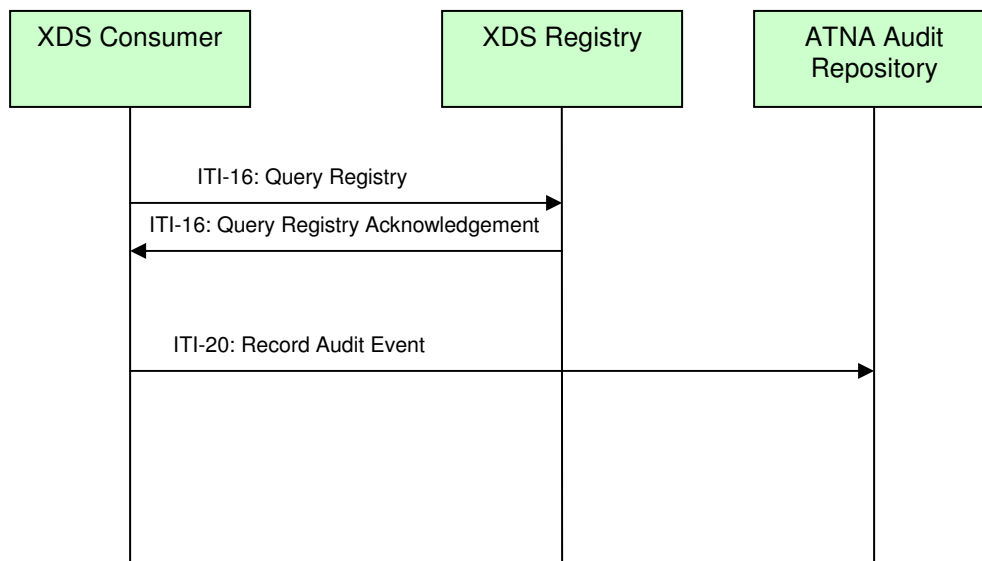
### 3. API Documentation

The ATNA Audit Client is intended to provide a simple and common interface for any IHE actor to participate in the ITI-20: Record Audit Event transaction. It constructs and sends the audit log message to the audit repository when an event occurs. We note that the API for this plugin is not stable due to the pending integration with other OHF components.

#### 3.1 Use Case 1 – Query Registry PHI Import Event

This audit event occurs when the XDS Document Consumer issues a query for documents to the XDS Registry and subsequently records the fact that it has received patient information.

##### 3.1.1 Flow of Execution



##### 3.1.2 API Details

### Field Summary

static int	<a href="#"><u>MINOR_FAILURE_EVENT_OUTCOME</u></a> Constant to indicate that a transaction involving private health information experienced a minor failure.
static int	<a href="#"><u>NODE_AUTHENTICATION_FAILURE</u></a> Constant to indicate that a transaction involving private health information experienced node authentication failure.



static int	<u><a href="#">SERIOUS_FAILURE_EVENT_OUTCOME</a></u> Constant to indicate that a transaction involving private health information experienced a serious failure.
static int	<u><a href="#">SUCCESS_EVENT_OUTCOME</a></u> Constant to indicate that a transaction involving private health information was successful.

## Method Summary

void	<u><a href="#">audit</a></u> (int eventOutcome, java.lang.String initiatingUser, java.lang.String transactionPayload) Client side interface for transaction ITI-20: Record Audit Event Constructs the audit message and sends it to the audit repository on behalf of an IHE actor.
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## 4. Sample Code

Below we provide some sample code.

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### 4.1 Example for Use Case 1 – repeat this section as necessary

#### 4.1.1 Description

This audit event occurs when the XDS Document Consumer issues a query for documents to the XDS Registry.

#### 4.1.2 Code

```
// send query
int eventOutcome = ATNAAuditClient.SUCCESS_EVENT_OUTCOME;
AdhocQueryResponseType qr = null;
try {
    qr = sendQuery(ebXMLQuery);
} catch (Exception e) {
    eventOutcome = ATNAAuditClient.SERIOUS_FAILURE_EVENT_OUTCOME;
    throw e;
} finally {
    if (isDoAudit()) {
        auditor.audit(eventOutcome, initiatingUser, ebXMLQuery);
    }
}
```





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## **5. Additional Sections – repeat as necessary**

*Any additional sections needed are added at this point.*



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## 6. Glossary

*Define any non-common knowledge terms or acronyms here. Provide web-site reference if applicable.*