ADEPTIA

Read Client Certificate

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Adeptia Support Information

For support queries, please contact us at support@adeptia.com.
Access the Adeptia Web site at the following URL:

www.adeptia.com

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PREFACE

This document provides you with information on how you can read client certificate attributes in a process flow.

Target Audience

Users who want to use the information in client certificates as per their needs.

Pre-requisites

You must have installed Adeptia Suite on your system.

Other Resource Materials

The following other resource materials are available.

Title	Description
Installation Guide	This document provides guidelines for installing Adeptia Suite on Microsoft Windows and Linux/Solaris operating systems.
Getting Started Guide	This document is intended as a reference for those working with Adeptia Suite for the first time.
Developer Guide	This document covers a detailed description of all activities and services of Adeptia Suite that are available to a developer. It acts as a guideline to use these services seamlessly and use them in a design environment using Adeptia Suite.
Business User Guide	This document covers a detailed description of all features of Adeptia Suite that are available to a business user. It acts as a guideline to use these features seamlessly and perform them in a business environment using Adeptia Suite.

HOW IS THIS GUIDE ORGANIZED?

This guide is organized into the following sections:

Section	Description

Section	Description
Preface	Introduction to this document
Read Client Certificates	Information on how you can read client certificate attributes.

CONVENTIONS

The following tables list the various conventions used in Adeptia documentation. We follow these conventions to help you quickly and easily identify particular elements, processes, and names that occur frequently in documents.

Typographical Conventions

This guide uses the following typographical conventions:

Convention	Description
Bold text	Indicates one of the following: ▪ Screen element ▪ New terminology ▪ A file or folder name ▪ A control in an application's user interface ▪ A registry key ▪ Important information
Italic text	Indicates a reference or the title of a publication
`Monospaced text`	Indicates code examples or system messages
`Monospaced bold text`	Indicates system commands that you enter
Hyperlink	Indicates an Internet link to target material

Graphical Conventions

This guide uses the following graphical conventions:

Convention	Description
	Indicates additional information that may be of interest to the reader

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READ CLIENT CERTIFICATES

This chapter will provide you with information regarding how to read client certificate attributes in a process flow.

To read a client certificate you need to do the following:

1. Create a Web Service Provider Activity (With SSL)

2. Access this Web Service Provider Activity

3. Reading Client Certificate attributes

CREATING WEB SERVICE PROVIDER ACTIVITY

Create a SOAP-based Web Service Provider Activity. Please keep in mind that while creating the activity you check the **Enable SSL** checkbox.

> If you want to get more information on how to create a Web Service Provider Activity then, please refer to the *Creating Web Service Provider Activity* section of the *Developer Guide*.
>
> Please note that you can also use your existing SOAP-based Web Service Provider Activity for reading client certificate attributes.

CREATING WEB SERVICE CONSUMER ACTIVITY

Create a Web Service Consumer Activity to access the Web Service Provider Activity that you have created above.

> If you want to get more information on how to create a Web Service Consumer Activity then, please refer to the *Creating Web Service Consumer Activity* section of the *Developer Guide*.

> Instead of creating a Web Service Consumer Activity to access the Web Service Provider Activity, you can also use a SOAP UI or other services to access this Web Service Provider Activity.

READING CLIENT CERTIFICATE

Once your Web Service Consumer Activity accesses the Web Service Provider Activity it creates an **X509Ceritificates** variable within the context info of the process flow of the Web Service Provider Activity. This variable stores the certificate information of client which you can use or manipulate as per your requirement.

This is a sample XML that contains certificate information see Figure 1.

```
- <Param>
   - <Name>
         <![CDATA[X509Certificates]]>
     </Name>
   - <Value>
         <![CDATA[<X509Certificates> <Certificate> <Version>3</Version> <SerialNumber>1</SerialNumber> <SigAlgName>SHA1withRSA</SigAlgName>
         <CriticalExtensionOIDs></CriticalExtensionOIDs> <ExtendedKeyUsage></ExtendedKeyUsage> <IssuerAlternativeNames></IssuerAlternativeNames>
         <NonCriticalExtensionOIDs>2.5.29.14 </NonCriticalExtensionOIDs> <SubjectAlternativeNames></SubjectAlternativeNames> <IssuerDN>C=dsfds, ST=fdfdf, L=dsfds, O=fdf,
         OU=dsfds, CN=dfs</IssuerDN> <IssuerX500Principal>C=dsfds,ST=fdfdf,L=dsfds,O=fdf,OU=dsfds,CN=dfs</IssuerX500Principal> <ValidFrom>Fri Mar 07 14:45:24 IST
         2014</ValidFrom> <ValidTo>Sat Mar 07 14:45:24 IST 2015</ValidTo> <SubjectDN>C=dsfds, ST=fdfdf, L=dsfds, O=fdf, OU=dsfds, CN=dfs</SubjectDN>
         <SubjectX500Principal>C=dsfds,ST=fdfdf,L=dsfds,O=fdf,OU=dsfds,CN=dfs</SubjectX500Principal>
         <PublicKey><Algorithm>RSA</Algorithm><Format>X.509</Format><Key>Sun RSA public key, 1024 bits modulus:
         105177733869495478266775907563556250237032954463451442680435884953396531300347627825156309160962242260182327355841896822514286812967077039879 17
         public exponent: 65537</Key></PublicKey> <BasicConstraints>-1</BasicConstraints> <SigAlgOID>1.2.840.113549.1.1.5</SigAlgOID> <Type>X.509</Type>
         </Certificate> </X509Certificates>]]>
     </Value>
  </Param>
+ <Param>
- <Param>
   - <Name>
         <![CDATA[SubjectDN]]>
     </Name>
   - <Value>
         <![CDATA[C=dsfds, ST=fdfdf, L=dsfds, O=fdf, OU=dsfds, CN=dfs]]>
     </Value>
  </Param>
```

Figure 1: Sample XML with Certificate Information

The context info of the process flow also contains Subject DN (Distinguished Names) variable of the client certificate. This Subject DN variable contain entities that have information about the subject and issuer of the certificate. If there is a chain of certificates then, the context info of the process flow will contain the Subject DN variable with information of root certificate.

You can restrict the usage of your Web Service Provider Activity or create statistics of the usage or carry out any other task on the basis of the information in these certificates.