



Assureon[®]
API Guide

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Overview

The Assureon API is divided into two components: a client side API and a server side API.

The client side API provides functions to trigger the archiving of files from a client system. The client side API is implemented using .NET Remoting.

The server side API provides functions to administer the Assureon System. Administration includes tasks such as blocking read access, disposing of files or restoring files. The server side API is implemented using Web services.

Client Side API

The following describes the Assureon client side API:

```
public bool Ping(out DateTime serverDateUTC)
```

Pings the FSW service to check if it's alive.

```
public bool SynchronizeDirectory(string syncRule, bool initialSync)
```

Synchronize a directory with the server.

syncRule – Name of rule to use

initialSync - flag that determines if the archive bit needs to be taken into consideration when synchronizing. If true, all files are processed regardless of archive bit.

```
public bool SynchronizeDirectory(string syncRule, bool initialSync,  
byte[] ruleFile)
```

Synchronize a directory with the server.

syncRule – Name of rule to use

initialSync - flag that determines if the archive bit needs to be taken into consideration when synchronizing. If true, all files are processed regardless of archive bit.

ruleFile – content of rule file to use. The rule file is an XML document containing a definition of the rule.

```
public bool GetCurrentStatus(out string currentRule, out string  
currentStatus, out string currentFile, out string currentDirectory,  
out long filesScanned, out long filesSentToArchive, out long  
directoriesProcessed, out long bytesScanned, out Status statusFlag)
```

Returns the status of the synchronization in progress.

```
public void StopCurrentSync()
```

Aborts the synchronization in progress.

```
public bool GetCurrentRules(out string[] ruleNames)
```

Returns a list of the rules associated with the current rule file.

Server Side API (ILM API)

The Assureon ILMAPI web service provides most of the functionality found in the Assureon Systems Administration Web interface.

All ILM API methods are protected using the feature management framework. A user can only call an API method if he belongs to the ILM Active Directory group that enables the specific feature.

The following functionality is supported in the ILMAPI web service:

- Creating and deleting retention rules
- Uploading and deleting watches
- Retrieving and saving disposition candidates
- Overriding retention dates
- Disposing of files
- Allow or block disposition of specific files
- Retrieving a list of files on the server
- Create a classification
- Allow or block read access to specific files
- Get current and saved event logs
- Restore files to a network location

A complete reference of all methods is found below.

Note For all Boolean data types, the expected values are 0 or 1.

For `DateTime`, the expected format is: `YYYY-MM-DDTHH:MM:SSZ`

SignatureId form

The `signatureId` tag specified in the XML fragments discussed in this guide are in the form:

`Fsorganization.fsguid.standardFsguid`

For example:

`IBM.3fb1f4b7-5862-46dc-8d33-93c7d5c7fd86.EVERYONECL.EVERYONESCA.000000011`

Method: CheckIntegrityAuditStatus

Description: Gets the status of the specified servers.

Syntax: bool CheckIntegrityAuditStatus(string hostNames, ref string xmlAuditStatus, ref string xmlResult)

Arguments:

hostnames - a comma separated list of servers where the audit server is running

xmlAuditStatus - details about the audit, per host

```
<auditStatus>
  <status>
    <host>{String}</host>
    <running>{Boolean}</running>
    <isSuspended>{Boolean}</isSuspended>
    <isAuditing>{Boolean}</isAuditing>
  </status>
  ...
</auditStatus>
```

xmlResult – result of the call

```
<result>
  <errorMessage>String</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: CreateClassification
Description: Creates a new classification.
Syntax: bool CreateClassification(string xmlClassification, ref string xmlResult)

Arguments:

xmlClassification - details about the classification

```
<access>
  <fsorganization>{String}</fsorganization>
  <classification>{String}</classification>

  <subClassification>{String}</subClassification>
  <activeFrom>{DateTime}</activeFrom>
  <activeTo>{DateTime}</activeTo>

  <enableFlexibleRetention>{Boolean}</enableFlexibleRetention>
</access>
```

xmlResult – result of the call

```
<result>
  <errorMessage>{String}</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: CreateRetentionRule
Description: Creates a new retention rule.
Syntax: bool CreateRetentionRule(string xmlRetentionRule, ref string xmlResult)

Arguments:

xmlRetentionRule – a description of the retention rule

```
<rule ID="my rule">
  <fsorganization>{String}</fsorganization>
  <minRetentionPeriod>{Int}</minRetentionPeriod>
  <maxRetentionPeriod>{Int}</maxRetentionPeriod>

  <useLastAccessedDate>{Boolean}</useLastAccessedDate>
  <compress>{Boolean}</compress>
  <encrypt>{Boolean}</encrypt>
  <offset>{Int}</offset>
</rule>
```

xmlResult – result of the call

```
<result>
  <errorMessage>{String}</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: DeleteClientConfiguration
Description: Deletes a client configuration.
Syntax: bool DeleteClientConfiguration(string computer, ref string xmlResult)

Arguments:

computer – name of the computer including the domain (domain\computer)

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: DeleteRetentionRule
Description: Deletes a retention rule.
Syntax: bool DeleteRetentionRule(string xmlRetentionRule, ref string xmlResult)

Arguments:

xmlRetentionRule– xml fragment containing the retention rule id and the fsorganization.

```
<rule ID="{String}">  
  <fsorganization>{String}</fsorganization>  
</rule>
```

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: DisposeFilesByFilter

Description: Dispose files using a filter. A new disposition job is created and ran at the next disposition schedule.

Syntax: `bool DisposeFilesByFilter(string xmlFilter, string dispositionName, ref string xmlResult)`

Arguments:

xmlFilter – xml fragment containing the filter criteria. Wildcards are allowed in all fields except the dates and the signature ID. If the signature ID is provided, all other fields are ignored.

```
<filter>
  <fsorganization>{String}</fsorganization>
  <fsid>{String}</fsid>
  <from>{DateTime}</from>
  <to>{DateTime}</from>
  <classification>{String}</classification>

  <subclassification>{String}</subclassification>
  <signatureID>{String}</signatureID>
  <computer>{String}</computer>
  <directory>{String}</directory>
  <filename>{String}</filename>
</filter>
```

dispositionName – name of the disposition job to create

xmlResult – result of the call

```
<result>
  <errorMessage>{String}</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: DisposeFilesByList
Description: Dispose a list of files. A new disposition job is created and ran at the next disposition schedule.

Syntax: `bool DisposeFilesByList(string xmlFiles, string dispositionName, ref string xmlResult)`

Arguments:

xmlFiles – xml fragment containing a list of signature Ids

```
<filter>  
  <signatureID>{String}</signatureID>  
  ...  
</filter>
```

dispositionName – name of the disposition job to create.

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: DisposeNow
Description: Execute disposition now.
Syntax: bool DisposeNow(string xmlDisposeNow, ref string xmlResult)

Arguments:

xmlDisposeNow –

```
<filter>  
    <fsorganization>{String}</fsorganization>  
    <fsid>{String}</fsid>  
    <dispositionname>{String}</dispositionname>  
</filter>
```

xmlResult – result of the call

```
<result>  
    <errorMessage>{String}</errorMessage>  
    <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: ExportCRTToTargetFolder
Description: Exports the specified report.
Syntax: void ExportCRTToTargetFolder(string selectedOrganization,
string selectedFileSystem, string exportLocation, int
reportID, string exportDocType)

Arguments:

selectedOrganization – Name of the organization.

selectedFileSystem – Name of the file system.

exportLocation – The folder that will contain the exported report.

reportID – The id or the number of the report which are:
1,4,5,7,8,9.

exportDocType – Which are : pdf, msword, msexcel

Method: GetClassifications
Description: Gets the list of classifications.
Syntax: bool GetClassifications(string fSOrganization, bool showSystemClassifications, ref string xmlClassifications, ref string xmlResult)

Arguments:

fSOrganization – Contains the organization name.

showSystemClassifications – Retrieve the system classification or not.

xmlClassifications – the classifications.

```
<classifications>
  <classification>
    <classification>{String}</classification>

    <subclassification>{String}</subclassification>
    <startDate>{DateTime}</startDate>
    <stopDate>{DateTime}</stopDate>

    <doNotDisposeBeforeFlag>{Boolean}</doNotDisposeBeforeFlag>
  </classification>
</classifications>
```

xmlResult – result of the call

```
<result>
  <errorMessage>{String}</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: GetCurrentEventLogs
Description: Gets the current event log.
Syntax: bool GetCurrentEventLogs(ref string xmlEvents, ref string xmlResult)

Arguments:

xmlEvents - the events in xml dataset format

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: GetDispositionCandidates
Description: Gets a list of disposition candidates
Syntax: bool GetDispositionCandidates(string xmlFilter, ref string xmlCandidates, ref string lastSignatureID, ref string fileType, ref string xmlResult)

Arguments:
xmlFilter – xml fragment containing the filter criteria. Wildcards are allowed in all fields except the dates and the signature ID. If the signature ID is provided, all other fields are ignored.

```
<filter>
    <fsorganization>{String}</fsorganization>
    <fsid>{String}</fsid>
    <from>{DateTime}</from>
    <to>{DateTime}</from>
    <classification>{String}</classification>

    <subclassification>{String}</subclassification>
    <signatureID>{String}</signatureID>
    <computer>{String}</computer>
    <directory>{String}</directory>
    <filename>{String}</filename>
</filter>
```

xmlCandidates - the returned list of disposition candidates

```
<dispositionCandidates>
    <file>
        <name>{String}</name>
        <computerName>{String}</computerName>
        <signatureID>{String}</signatureID>
        <size>{Int}</size>
        <dateModified>{DateTime}</dateModified>
        <expiryDate>{DateTime}</expiryDate>
    </file>
    ...
</dispositionCandidates>
```

lastSignatureID - last signature ID that was returned from the server. This is used for batching. The function will return the results that are 'greater' than the last signatureID, and will return an empty string when the last result was returned.

fileSystemType –the next file system to process.
 A value of "done" indicates that there are is no more file systems to process.

xmlResult – result of the call

```
<result>
    <errorMessage>{String}</errorMessage>
    <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: GetDispositionCandidatesNoVersioning
Description: Gets a list of disposition candidates, without versioning
Syntax: bool GetDispositionCandidatesNoVersioning(string xmlFilter, ref string xmlCandidates, ref string lastSignatureID, ref string fileType, ref string xmlResult)

Arguments:

xmlFilter – xml fragment containing the filter criteria. Wildcards are allowed in all fields except the dates and the signature ID. If the signature ID is provided, all other fields are ignored.

```
<filter>
    <fsorganization>{String}</fsorganization>
    <fsid>{String}</fsid>
    <from>{DateTime}</from>
    <to>{DateTime}</from>
    <classification>{String}</classification>

    <subclassification>{String}</subclassification>
    <signatureID>{String}</signatureID>
    <computer>{String}</computer>
    <directory>{String}</directory>
    <filename>{String}</filename>
</filter>
```

xmlCandidates - the returned list of disposition candidates

```
<dispositionCandidates>
    <file>
        <name>{String}</name>
        <computerName>{String}</computerName>
        <signatureID>{String}</signatureID>
        <size>{Int}</size>
        <dateModified>{DateTime}</dateModified>
        <expiryDate>{DateTime}</expiryDate>
    </file>
    ...
</dispositionCandidates>
```

lastSignatureID - last signature ID that was returned from the server. This is used for batching. The function will return the results that are 'greater' than the last signatureID; will return an empty string when the last result was returned.

fileSystemType –the next file system to process.
 A value of “done” indicates that there are is no more file systems to process.

xmlResult – result of the call

```
<result>
    <errorMessage>{String}</errorMessage>
    <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: GetDispositionLogDetails
Description: Gets the details for the specified disposition log.
Syntax: bool GetDispositionLogDetails(string xmlInput, ref string xmlDispdetails, ref string xmlResult)

Arguments:

xmlInput –

```
<filter>  
  <fsorganization>{String}</fsorganization>  
  <fsid>{String}</fsid>  
  <dispoid>{String}</dispoid>  
  <dispodate>{String}</dispodate>  
</filter>
```

xmlDispDetails - the resulting details

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: GetDispositionLogSummary
Description: Gets a list of dispositions for the specified date range
Syntax: bool GetDispositionLogSummary(string xmlDisposition, ref string xmlDispLogs, ref string xmlResult)

Arguments:

xmlDisposition –
<filter>
 <fsorganization>{String}</fsorganization>
 <from>{DateTime}</from>
 <to>{DateTime}</from>
</filter>
xmlDispLogs - the resulting disposition logs
xmlResult – result of the call
 <result>
 <errorMessage>{String}</errorMessage>
 <errorCode>{Int}</errorCode>
 </result>

An error code of 0 signifies a successful completion.

Method: GetFileListByFilter
Description: Get a list of files by filter.
Syntax: bool GetFileListByFilter(string xmlFilter, ref string xmlFileList, ref string lastSignatureID, ref string fileType, ref string xmlResult)

Arguments:
xmlFilter – xml fragment containing the filter criteria. Wildcards are allowed in all fields except the dates and the signature ID. If the signature ID is provided, all other fields are ignored.

```
<filter>
    <fsorganization>{String}</fsorganization>
    <fsid>{String}</fsid>
    <from>{DateTime}</from>
    <to>{DateTime}</from>
    <classification>{String}</classification>
    <subclassification>{String}</subclassification>
    <signatureID>{String}</signatureID>
    <computer>{String}</computer>
    <directory>{String}</directory>
    <filename>{String}</filename>
</filter>
```

xmlFileList – returned list of files

```
<fileList>
    <file>
        <name>{String}</name>
        <computerName>{String}</computerName>
        <signatureID>{String}</signatureID>
        <size>{Int}</size>
        <dateModified>{DateTime}</dateModified>
        <expiryDate>{DateTime}</expiryDate>
    </file>
    ...
</fileList>
```

lastSignatureID - last signature ID that was returned from the server. This is used for batching. The function will return the results that are 'greater' than the last signatureID, and will return an empty string when the last result was returned.

fileSystemType –the next file system to process.
 If the value is “done” this means there is no more file system to process, we reach the end.

xmlResult – result of the call

```
<result>
    <errorMessage>{String}</errorMessage>
    <errorCode>{Int}</errorCode>
</result>
```


Method: GetIntegrityAuditDetails
Description: Gets the details of the specified audit.
Syntax: `bool GetIntegrityAuditDetails(string auditId, DateTime auditDate, ref string xmlAuditDetails, ref string xmlResult)`

Arguments:

auditId - the id of the audit

auditDate - the date the audit was created

xmlAuditDetails - the audit details

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: GetIntegrityAuditSummary
Description: Gets the audit summaries for the specified date range.
Syntax: bool GetIntegrityAuditSummary(DateTime from, DateTime to, ref string xmlAuditSummary, ref string xmlResult)

Arguments:

from - the start date

to - the end date

xmlAuditSummary - the audit summary

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: GetMD5AndSHA1ByList
Description: Gets the MD5 and the SHA1 for the list of signature ids provided.
Syntax: bool GetMD5AndSHA1ByList(string xmlASigIds, ref string xmlMD5AndSHA1, ref string xmlResult)

Arguments:

xmlASigIds - a list of signature IDs

```
<filter>  
  <signatureID>{String}</signatureID>  
  ...  
</filter>
```

xmlMD5AndSHA1 - The result in the following format:

```
<fileHash>  
  <signatureID>{String}</signatureID>  
  <md5Hash>{String}</md5Hash>  
  <sha1Hash>{String}</sha1Hash>  
</fileHash>
```

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: GetReadAccessLogsByFilter
Description: Gets a list of access logs by filter.
Syntax:

```
bool GetReadAccessLogsByFilter (string xmlFilter, ref
string xmlReadAccess, ref string lastSigID, ref string
fileSystemType, ref string xmlResult)
```

Arguments:

xmlFilter – xml fragment containing the filter criteria. Wildcards are allowed in all fields except the dates and the signature ID. If the signature ID is provided, all other fields are ignored.

```
<filter>
  <fsorganization>{String}</fsorganization>
  <fsid>{String}</fsid>
  <from>{DateTime}</from>
  <to>{DateTime}</from>
  <classification>{String}</classification>
  <subclassification>{String}</subclassification>
  <signatureID>{String}</signatureID>
  <computerName>{String}</computerName>
  <directory>{String}</directory>
  <filename>{String}</filename>
  <username>{String}</username>
</filter>
```

xmlReadAccess – returned list of files

lastSigID – SignatureId of the last file processed

fileSystemType –the next file system to process

If the value is “done” this means there is no more file system to process, we reach the end.

xmlResult – result of the call

```
<result>
  <errorMessage>{String}</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

Method: GetReadAccessLogsByList

Description: Gets the read access logs for the specified files.

Syntax: `bool GetReadAccessLogsByList(string xmlFiles, ref string xmlReadAccess, ref string xmlResult)`

Arguments:

xmlFiles – the list of files to retrieve

```
<filter>  
    <signatureID>{String}</signatureID>  
    ...  
</filter>
```

xmlReadAccess – the resulting files

xmlResult – result of the call

```
<result>  
    <errorMessage>{String}</errorMessage>  
    <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: GetReports
Description: Gets the list of reports.
Syntax: bool GetReports(ref string xmlReports, ref string xmlResult)

Arguments:

xmlReports – a list of reports

```
<reports>
  <report>
    <title>{String}</title>
    <id>{Int}</id>
    <description>{String}</description>
    <dbJob>{Int}</dbJob>
  </report>
  ...
</reports>
```

xmlResult – result of the call

```
<result>
  <errorMessage>{String}</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: GetRestoreDetails
Description: Returns details about the restore request status.
Syntax: bool GetRestoreDetails(string xmlRestore, string batchId, ref string xmlLog, ref string xmlResult)

Arguments:

xmlRestore –

```
<filter>  
  <fsorganization>{String}</fsorganization>  
  <fsid>{String}</fsid>  
  <restoreid>{String}</restoreid>  
  <batchid>{String}</batchid>  
</filter>
```

batchId – ID of batch to query. To get a list of batch IDs, see GetRestoreSummary.

xmlLog - the log file that was generated for this restore operation

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: GetRestoreSummariesByMonth
Description: Returns details about the restore request status by month.
Syntax: bool GetRestoreSummariesByMonth(string xmlInput, ref string xmlSummaries, ref string xmlResult)

Arguments:

xmlInput –

```
<filter>
  <fsorganization>{String}</fsorganization>
  <fsid>{String}</fsid>
  <restoreid>{String}</restoreid>
  <year>{String}</year>
  <month>{String}</month>
</filter>
```

xmlSummaries – a list of all restores in the given month

```
<restores>
  <restore>
    <batchIds>{Int}</batchIds>
    <numRestored>{Int}</numRestored>
    <numFailed>{Int}</numFailed>
    <numToRestore>{Int}</numToRestore>
    <restoreId>{Int}</restoreId>

    <keepDirStructure>{Boolean}</keepDirStructure>

    <restoreAllVersions>{Boolean}</restoreAllVersions>

    <overwriteExisting>{Boolean}</overwriteExisting>
    <startTime>{DateTime}</startTime>
    <stopTime>{DateTime}</stopTime>
    <restorePath>{String}</restorePath>
  </restore>
  ...
</restores>
```

xmlResult – result of the call

```
<result>
  <errorMessage>{String}</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: GetRestoreSummary
Description: Returns a summary of the restore request status
Syntax: bool GetRestoreSummary(string xmlRestore, ref string xmlSummary, ref string xmlResult)

Arguments:

xmlRestore –

```
<filter>
    <fsorganization>{String}</fsorganization>
    <fsid>{String}</fsid>
    <restoreid>{String}</restoreid>
</filter>
```

xmlSummary – a summary of the restore operation

```
<restore>
    <numRestored>{Int}</numRestored>
    <numFailed>{Int}</numFailed>
    <numToRestore>{Int}</numToRestore>
    <status>{Int} 0=NotStarted,
                1=Restoring,2=Finished,3=DoesNotExist</status>
    <batchIds>{Int} A comma separated list of batchIds that were used
    for this restore. Use this in the call to GetRestoreDetails </batchIds>
</restore>
```

xmlResult – result of the call

```
<result>
    <errorMessage>{String}</errorMessage>
    <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: GetRetentionRules
Description: Gets the list of retention rules.
Syntax: bool GetRetentionRules(string fsorganization, ref string xmlRetentionRules, ref string xmlResult)

Arguments:

fsorganization: - Name of an organization

xmlRetentionRules – the retention rules

```
<retentionRules>
  <retentionRule>
    <retentionId>{String}</retentionId >
    <numberOfDays>{Int}</numberOfDays>
    <compressData>{Boolean}</compressData>
    <encryptData>{Boolean}</encryptData>
    <dateCreated>{DateTime}</dateCreated>

    <doNotDisposeBefore>{DateTime}</doNotDisposeBefore>

    <setExpiryFromFileDate>{Boolean}</setExpiryFromFileDate>
    <maxVersionNumber>{Int}</maxVersionNumber>
    <setReadOnlyLock>{Boolean}</setReadOnlyLock>
  </retentionRule>
</retentionRules>
```

xmlResult – result of the call

```
<result>
  <errorMessage>{String}</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: GetSavedEventLogs
Description: Gets saved event logs.
Syntax: `bool GetSavedEventLogs(DateTime startDate, DateTime endDate, ref string xmlEvents, ref string xmlResult)`

Arguments:

startDate – date of first event to return

endDate – date of last event to return

xmlEvents - the returned events

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: ManageIntegrityAudit
Description: Starts, stops, pauses or resumes the audit process on the specified machine.
Syntax: bool ManageIntegrityAudit(string xmlRequests, ref string xmlAuditResults, ref string xmlResult)

Arguments:**xmlRequests** - the action to take, per server

```
<auditAction>
  <audit hosts= "{String}"
    action="{Int} (0=start,1=stop,2=resume,3=stop)"/>
  ...
</auditAction>
```

xmlAuditResults - the results of the request, per server

```
<auditRequests>
  <request host= "{String}"
    action="{Int} (0=start,1=stop,2=resume,3=stop)"
    success="{String}true/false"/>
  ...
</auditRequests>
```

xmlResult - result of the call

```
<result>
  <errorMessage>{String}</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: OverrideDispositionByFilter
Description: Override the retention period of assets by filter.
Syntax: bool OverrideDispositionByFilter (DateTime newExpiryDate, string xmlFilter, ref string xmlResult)

Arguments:

newExpiryDate – new expiry date to set

xmlFilter – the filter criteria. Wildcards are allowed in all fields except the dates and the signature ID. If the signature ID is provided, all other fields are ignored.

```
<filter>
  <fsorganization>{String}</fsorganization>
  <fsid>{String}</fsid>
  <from>{DateTime}</from>
  <to>{DateTime}</from>
  <classification>{String}</classification>

  <subclassification>{String}</subclassification>
  <signatureID>{String}</signatureID>
  <computer>{String}</computer>
  <directory>{String}</directory>
  <filename>{String}</filename>
</filter>
```

xmlResult – result of the call

```
<result>
  <errorMessage>{String}</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: OverrideDispositionByList
Description: Override the retention period of a list of assets.
Syntax: bool OverrideDispositionByList (DateTime newExpiryDate, string xmlFiles, ref string xmlResult)

Arguments:

newExpiryDate – new expiry date to set

xmlFiles – a list of signature IDs

```
<filter>  
  <signatureID>{String}</signatureID>  
  ...  
</filter>
```

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: RestoreFilesByFilter
Description: Restores a set of files by filter.
Syntax: bool RestoreFilesByFilter(string xmlFilter, string xmlRestoreOptions, ref string restoreID, ref string xmlResult)

Arguments:

xmlFilter – xml fragment containing the filter criteria. Wildcards are allowed in all fields except the dates and the signature ID. If the signature ID is provided, all other fields are ignored.

```
<filter>
    <fsorganization>{String}</fsorganization>
    <fsid>{String}</fsid>
    <from>{DateTime}</from>
    <to>{DateTime}</from>
    <classification>{String}</classification>

    <subclassification>{String}</subclassification>
    <signatureID>{String}</signatureID>
    <computer>{String}</computer>
    <directory>{String}</directory>
    <filename>{String}</filename>
</filter>
```

xmlRestoreOptions – options to control how restore is performed

```
<options>
    <allFileVersions>{Boolean}</allFileVersions>
    <overwriteFiles>{Boolean}</overwriteFiles>

    <keepDirStructure>{Boolean}</keepDirStructure>
    <restorePath>{String}</restorePath>
    <username>{String}</username>
    <password>{String}</password>
</options>
```

restoreID – ID of restore request. This ID can be used in subsequent calls to retrieve the status of the request.

xmlResult – result of the call

```
<result>
    <errorMessage>{String}</errorMessage>
    <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: RestoreFilesByList
Description: Restores a set of files by list.
Syntax: bool RestoreFilesByList(string xmlFiles, string xmlRestoreOptions, ref string restoreID, ref string xmlResult)

Arguments:

xmlFiles – a list of signature IDs

```
<filter>
  <signatureID>{String}</signatureID>
  ...
</filter>
```

xmlRestoreOptions – options to control how restore is performed

```
<options>
  <allFileVersions>{Boolean}</allFileVersions>
  <overwriteFiles>{Boolean}</overwriteFiles>

  <keepDirStructure>{Boolean}</keepDirStructure>
  <restorePath>{String}</restorePath>
  <username>{String}</username>
  <password>{String}</password>
</options>
```

restoreID – ID of restore request. This ID can be used in subsequent calls to retrieve the status of the request.

xmlResult – result of the call

```
<result>
  <errorMessage>{String}</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: SetBlockDispositionStatusByFilter

Description: Block or unblock disposition of a set of files by filter.

Syntax: bool SetBlockDispositionStatusByFilter(string xmlFilter, bool blockDisposition, ref string xmlResult)

Arguments:

xmlFilter – the filter criteria. Wildcards are allowed in all fields except the dates and the signature ID. If the signature ID is provided, all other fields are ignored.

```
<filter>
    <fsorganization>{String}</fsorganization>
    <fsid>{String}</fsid>
    <from>{DateTime}</from>
    <to>{DateTime}</from>
    <classification>{String}</classification>

    <subclassification>{String}</subclassification>
    <signatureID>{String}</signatureID>
    <computer>{String}</computer>
    <directory>{String}</directory>
    <filename>{String}</filename>
</filter>
```

blockDisposition – block or unblock disposition

xmlResult – result of the call

```
<result>
    <errorMessage>{String}</errorMessage>
    <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: SetBlockDispositionStatusByList
Description: Block or unblock disposition of a list of files.
Syntax: `bool SetBlockDispositionStatusByList(string xmlFiles, bool blockDisposition, ref string xmlResult)`

Arguments:

xmlFiles - a list of signature IDs

```
<filter>
  <signatureID>{String}</signatureID>    ...
</filter>
```

blockDisposition – block or unblock disposition

xmlResult – result of the call

```
<result>
  <errorMessage>{String}</errorMessage>
  <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: SetReadAccessByFilter
Description: Allow or disallow read access to a set of files by filter.
Syntax: bool SetReadAccessByFilter(string xmlFilter, bool allowRead, ref string xmlResult)

Arguments: **xmlFilter** – the filter criteria. Wildcards are allowed in all fields except the dates and the signature ID. If the signature ID is provided, all other fields are ignored.

```
<filter>
    <fsorganization>{String}</fsorganization>
    <fsid>{String}</fsid>
    <from>{DateTime}</from>
    <to>{DateTime}</from>
    <classification>{String}</classification>

    <subclassification>{String}</subclassification>
    <signatureID>{String}</signatureID>
    <computer>{String}</computer>
    <directory>{String}</directory>
    <filename>{String}</filename>
</filter>
```

allowRead – enable or disable read access

xmlResult – result of the call

```
<result>
    <errorMessage>{String}</errorMessage>
    <errorCode>{Int}</errorCode>
</result>
```

An error code of 0 signifies a successful completion.

Method: SetReadAccessByList
Description: Allow or disallow read access to a list of files.
Syntax: bool SetReadAccessByList(string xmlFiles, bool allowRead, ref string xmlResult)

Arguments:

xmlFiles - a list of signature IDs

```
<filter>  
  <signatureID>{String}</signatureID>  
  ...  
</filter>
```

allowRead – enable or disable read access

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Method: UploadClientConfiguration
Description: Uploads a client FSW configuration files to the server
Syntax: bool UploadClientConfiguration(string computer, string xmlWatch, ref string xmlResult)

Arguments:

computer – name of computer hosting the configuration including the domain (domain\computer)

xmlWatch – the details of the watch (fswconfig.xml)

xmlResult – result of the call

```
<result>  
  <errorMessage>{String}</errorMessage>  
  <errorCode>{Int}</errorCode>  
</result>
```

An error code of 0 signifies a successful completion.

Note: Be sure to delete from the fswConfig.xml all data that doesn't belong to the user watches.

Appendix – Advanced - Configuration Files

A sample client configuration file, containing the list of files to be processed. Note that the watch name must be “api”.

```
<?xml version="1.0" encoding="utf-8"?>
<AssureonDirectoryWatch xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
ILMBuildNo="4.00.0002">
  <globalSettings ID="global" rev="1.0">
    <includeSubDirectories>true</includeSubDirectories>
    <fswEnable>true</fswEnable>
    <syncEnable>false</syncEnable>
    <watchBufferSize>40960</watchBufferSize>
    <processFileOnLastWrite>true</processFileOnLastWrite>
    <processFileOnCreationTime>true</processFileOnCreationTime>
    <processFileOnFileClose>true</processFileOnFileClose>
    <processFileOnDelete>false</processFileOnDelete>
    <processFileOnRename>true</processFileOnRename>
    <delayBeforeProcessing>2000</delayBeforeProcessing>
    <maximumBatchSize>20</maximumBatchSize>
    <storeTimeStampsZipped>false</storeTimeStampsZipped>
    <zippedFileExtension>.AEZ</zippedFileExtension>
    <signFileBeforeSending>false</signFileBeforeSending>
    <signFileCertSN />
    <fileWatchCritical>false</fileWatchCritical>
    <storeOriginalFile>false</storeOriginalFile>
    <storeOriginalFileWithTimeStamp>false</storeOriginalFileWithTimeStamp>
    <storeTimeStampOnLocalMachine>false</storeTimeStampOnLocalMachine>
    <storeTimeStampLocalToFile>false</storeTimeStampLocalToFile>
    <storeTimeStampDirectOrRelative>R</storeTimeStampDirectOrRelative>
    <storeTimeStampDirectory />
    <storeTimeStampRelativeDirectory />
    <recentFileCache>512</recentFileCache>
    <recentFileCacheMax>1024</recentFileCacheMax>
    <recentFileCacheGC>60000</recentFileCacheGC>
    <recentFileCacheEnabled>true</recentFileCacheEnabled>
    <recentFileCachePersist>true</recentFileCachePersist>
    <markTimeStampReadOnly>false</markTimeStampReadOnly>
    <markFileReadOnly>false</markFileReadOnly>
    <logTimeStampsLocally>true</logTimeStampsLocally>
    <directoryPolicy dPID="0" dPName="Policy 0">
      <directoryMatch />
      <fileTypeRule fTRID="0" fName="Rule 0">
        <customerLicense>CLASS00001.SUBCLASS01</customerLicense>
        <removeFileAfterStore>false</removeFileAfterStore>
        <replaceFileWithShortCutAfterTime>
          <enable>true</enable>
          <daysFromDateAccessed>0</daysFromDateAccessed>
          <daysFromDateModified>0</daysFromDateModified>
        </replaceFileWithShortCutAfterTime>
        <include />
        <processFileAfterTime>
          <enable>false</enable>
          <minutesSinceLastAccess>0</minutesSinceLastAccess>
          <minutesSinceModification>0</minutesSinceModification>
        </processFileAfterTime>
      </fileTypeRule>
    </directoryPolicy>
  </globalSettings>
</AssureonDirectoryWatch>
```

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```
<minutesSinceCreation>0</minutesSinceCreation>
</processFileAfterTime>
</fileTypeRule>
<fileTypeRule fTRID="1" fName="Rule 1">
  <exclude>
    <filesStartingWith>~</filesStartingWith>
    <extensions>.tmp,.temp,.url,.desktop</extensions>
  </exclude>
</fileTypeRule>
</directoryPolicy>
</globalSettings>
<watchName ID="api" rev="1">
  <directory>c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X</directory>
  <includeSubDirectories>>true</includeSubDirectories>
  <fileWatchCritical>>false</fileWatchCritical>
  <processFileOnLastWrite>>true</processFileOnLastWrite>
  <processFileOnCreationTime>>true</processFileOnCreationTime>
  <processFileOnFileClose>>true</processFileOnFileClose>
  <processFileOnDelete>>false</processFileOnDelete>
  <processFileOnRename>>true</processFileOnRename>
  <delayBeforeProcessing>2000</delayBeforeProcessing>
  <maximumBatchSize>20</maximumBatchSize>
  <recentFileCache>512</recentFileCache>
  <recentFileCacheMax>1024</recentFileCacheMax>
  <recentFileCacheEnabled>>true</recentFileCacheEnabled>
  <recentFileCacheGC>60000</recentFileCacheGC>
  <recentFileCachePersist>>true</recentFileCachePersist>
  <signFileBeforeSending>>false</signFileBeforeSending>
  <signFileCertSN />
  <storeOriginalFile>>false</storeOriginalFile>
  <storeOriginalFileWithTimeStamp>>false</storeOriginalFileWithTimeStamp>
  <storeTimeStampOnLocalMachine>>false</storeTimeStampOnLocalMachine>
  <storeTimeStampLocalToFile>>false</storeTimeStampLocalToFile>
  <storeTimeStampDirectOrRelative>R</storeTimeStampDirectOrRelative>
  <storeTimeStampDirectory />
  <storeTimeStampRelativeDirectory />
  <storeTimeStampsZipped>>false</storeTimeStampsZipped>
  <zippedFileExtension>.AEZ</zippedFileExtension>
  <logTimeStampsLocally>>true</logTimeStampsLocally>
  <removeFileAfterStore>>false</removeFileAfterStore>
  <replaceFileWithShortCut>>true</replaceFileWithShortCut>
  <fswEnable>>true</fswEnable>
  <syncEnable>>true</syncEnable>
  <directoryPolicy dPID="0" dPName="Policy 0">
    <fileTypeRule fTRID="0" fName="Rule 0">
      <customerLicense>CLASS00001.SUBCLASS01</customerLicense>
      <retentionId>DynamicC</retentionId>
      <replaceFileWithShortCutAfterTime>
        <enable>true</enable>
        <daysFromDateAccessed>0</daysFromDateAccessed>
        <daysFromDateModified>0</daysFromDateModified>
      </replaceFileWithShortCutAfterTime>
      <include>
        <file retentionDate="2006-07-17T15:24:27.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Mailbox\44B5142C.DEVDOMAIN.DEVPO.100.1387239.1.3B1E.1.xml</file>
```

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```
<file retentionDate="2005-06-13T11:00:00.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Calendar\44B5144B.DEVDOMAIN.DEVPO.100.1387239.1.3B21.1.xml</file>
<file retentionDate="2006-07-18T13:38:25.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\att\44B64CD1.DEVDOMAIN.DEVPO.100.1387239.1.3B24.1\Scheduler.trc</file>
<file retentionDate="2006-07-18T13:38:25.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\att\44B64CD1.DEVDOMAIN.DEVPO.100.1387239.1.3B24.1\GWSyncJob_Allen
Dixon.trc</file>
<file retentionDate="2006-07-18T13:38:25.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\att\44B64CD1.DEVDOMAIN.DEVPO.100.1387239.1.3B24.1\NetMSMQ.trc</file>
<file retentionDate="2006-07-18T13:38:25.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Mailbox\44B64CD1.DEVDOMAIN.DEVPO.100.1387239.1.3B24.1.xml</file>
<file retentionDate="2006-07-26T14:28:32.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Mailbox\44C0E490.DEVDOMAIN.DEVPO.100.1387239.1.3B28.1.xml</file>
<file retentionDate="2006-07-29T08:19:45.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32 2X\xml\Work In
Progress\44C482A2.DEVDOMAIN.DEVPO.100.1387239.1.3B2B.1.xml</file>
<file retentionDate="2006-07-29T08:35:34.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32 2X\xml\Work In
Progress\44C48656.DEVDOMAIN.DEVPO.100.1387239.1.3B2C.1.xml</file>
<file retentionDate="2006-07-29T11:08:09.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32 2X\xml\Work In
Progress\44C4AA19.DEVDOMAIN.DEVPO.100.1387239.1.3B2D.1.xml</file>
<file retentionDate="2006-07-30T12:45:19.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Mailbox\44C61260.DEVDOMAIN.DEVPO.100.1387239.1.3B32.1.xml</file>
<file retentionDate="2006-07-31T16:47:00.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Calendar\44C79C9E.DEVDOMAIN.DEVPO.100.1387239.1.3B35.1.xml</file>
<file retentionDate="2006-07-31T16:47:00.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Calendar\44C79C9E.DEVDOMAIN.DEVPO.100.1387239.1.3B36.1.xml</file>
<file retentionDate="2006-07-31T16:47:50.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Calendar\44C79CB6.DEVDOMAIN.DEVPO.100.1387239.1.3B38.1.xml</file>
<file retentionDate="2006-08-19T11:59:59.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Calendar\44C79CB6.DEVDOMAIN.DEVPO.100.1387239.1.3B39.1.xml</file>
<file retentionDate="2006-07-31T16:48:30.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Mailbox\44C79CDE.DEVDOMAIN.DEVPO.100.1387239.1.3B3B.1.xml</file>
<file retentionDate="2006-08-07T09:15:58.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32 2X\xml\Work In
Progress\44D06D4E.DEVDOMAIN.DEVPO.100.1387239.1.3B40.1.xml</file>
<file retentionDate="2006-08-07T11:00:00.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Calendar\44D06E38.DEVDOMAIN.DEVPO.100.1387239.1.3B42.1.xml</file>
<file retentionDate="2006-08-07T13:30:00.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Calendar\44D06EF3.DEVDOMAIN.DEVPO.100.1387239.1.3B44.1.xml</file>
```


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```
<file retentionDate="2006-08-07T13:30:00.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Calendar\44D06EF3.DEVDOMAIN.DEVPO.100.1387239.1.3B45.1.xml</file>
  <file retentionDate="2006-08-08T13:08:42.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Mailbox\44D1F55A.DEVDOMAIN.DEVPO.100.1387239.1.3B4C.1.xml</file>
    <file retentionDate="2006-08-08T13:08:42.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Mailbox\44D1F55A.DEVDOMAIN.DEVPO.100.1387239.1.3B4D.1.xml</file>
      <file retentionDate="2006-08-16T09:28:27.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Mailbox\44DC4DBB.DEVDOMAIN.DEVPO.100.1387239.1.3B58.1.xml</file>
        <file retentionDate="2006-08-19T14:30:52.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Mailbox\44E0891C.DEVDOMAIN.DEVPO.100.1387239.1.3B5B.1.xml</file>
          <file retentionDate="2006-08-19T14:30:52.0000000-
04:00">c:\EmailArchive\ArchivesNexsan\Agent32 1X Agent32
2X\xml\Mailbox\44E0891C.DEVDOMAIN.DEVPO.100.1387239.1.3B5C.1.xml</file>
            </include>
              <processFileAfterTime>
                <enable>>false</enable>
                <minutesSinceLastAccess>0</minutesSinceLastAccess>
                <minutesSinceModification>0</minutesSinceModification>
                <minutesSinceCreation>0</minutesSinceCreation>
              </processFileAfterTime>
            </fileTypeRule>
          </directoryPolicy>
        <markFileReadOnly>>false</markFileReadOnly>
        <markTimeStampReadOnly>>false</markTimeStampReadOnly>
        <watchBufferSize>40960</watchBufferSize>
      </watchName>
    </AssureonDirectoryWatch>
```



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United States patents US8,191,841, US8,120,922;
United Kingdom patents GB2466535B, GB2467622B, GB2467404B, GB2296798B, GB2297636B