

Quest® InTrust 11.7.0

SDK Reference



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Legend

 **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

 **IMPORTANT, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

InTrust SDK Reference

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InTrust SDK Overview

The InTrust SDK makes InTrust functionality available to applications. At this time, the SDK includes the following components:

- [Repository Services API](#)
- [Log Knowledge Base API](#)

The InTrust SDK is included in the InTrust Server component and works on any computer where InTrust Server is deployed.

Requirements

If you want to install the SDK separately from InTrust Server, the computer must meet the following requirements (similar to the requirements for InTrust Server):

| | |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Architecture | x64 |
| Operating System | Any of the following: <ul style="list-style-type: none">• Microsoft Windows Server 2019• Microsoft Windows Server 2016 |
| Memory | Min. 6GB |
| Additional Software and Services | <ul style="list-style-type: none">• Microsoft .NET Framework 4.8 or later, with all updates that are current at the time of this InTrust release• Microsoft Visual C++ Redistributable, provided in the Redist folder of your InTrust distribution |

! CAUTION: To use the InTrust API with old versions of Windows PowerShell (2.0 and earlier), make sure you configure PowerShell to use the version of the .NET runtime that the SDK requires. For that, create the powershell.exe.config (or powershell_ise.exe.config) file in the same folder as powershell.exe (or powershell_ise.exe) file with content like the following:

```
<?xml version="1.0"?>
<configuration>
  <startup useLegacyV2RuntimeActivationPolicy="true">
    <supportedRuntime version="v4.0"/>
    <supportedRuntime version="v2.0.50727"/>
  </startup>
</configuration>
```

Required Permissions

To be able to use the features of the InTrust SDK, your code must be run under an account that is listed as an InTrust organization administrator. For details about setting up this privilege, see [InTrust Organization Administrators](#).

Standalone Setup

To install the InTrust SDK separately from InTrust Server, run the **INTRUST_SDK.11.7.0.*.*.msi** installation package provided to you. It is located in the **InTrustServer** folder in your InTrust distribution.

Configuring C# References

To make sure that C# bindings work, enable references to the following COM type libraries:

1. InTrust Environment 1.0 Type Library
2. Repository Record Inserter 1.0 Type Library
3. Repository Services 1.0 Type Library

For each of them, open the properties and set the **Embed Interop Types** parameter to **False**.

Repository Services API

This topic describes the API that InTrust provides for repositories. This API lets you do the following:

- Connect to a repository for searching and writing
- Get records from a repository by searching
- Put records in a repository
- Manage repositories:
 - Remove (unregister) them
 - Create them
 - Work with repository properties

The API is implemented as a collection of COM objects that become available after you have installed the InTrust SDK. Use the interfaces described in the topics listed below; call the methods of those interfaces for access to records and repositories.

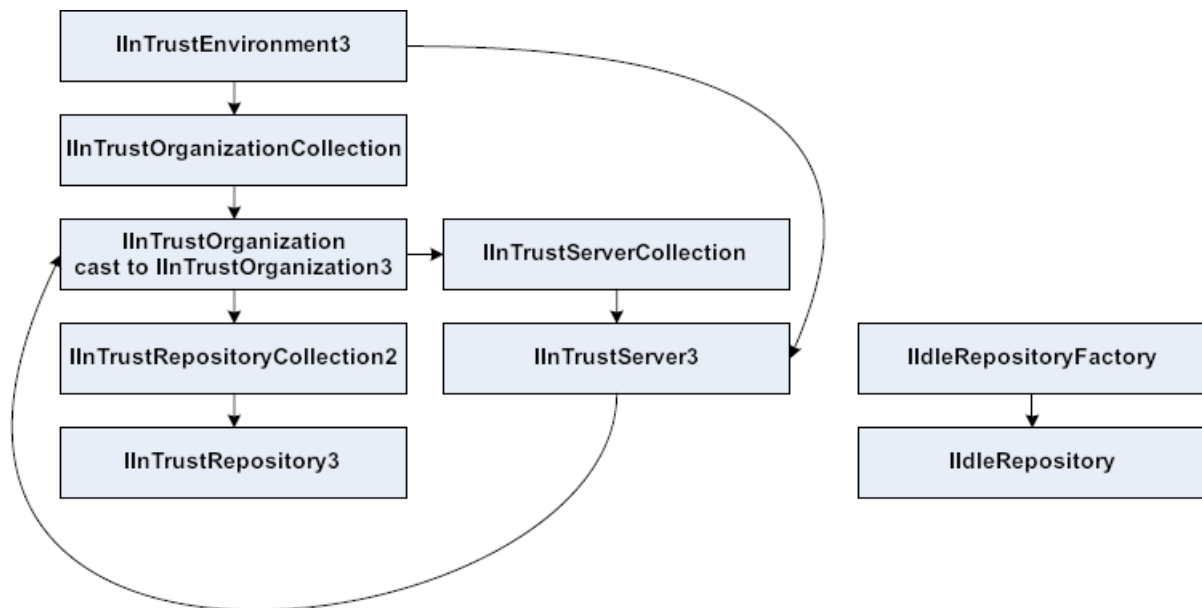
- [Connecting to a Repository](#)
- [Getting Records](#)
- [Writing Records](#)
- [Creating and Removing Repositories](#)
- [Repository Record Data Structures](#)
- [Event Record Data Structures](#)
- [Working with Repository Properties](#)
- [Interfaces](#)

Connecting to a Repository

Use the interfaces listed below for access to an InTrust repository. Once you have gained access, you can search for records in the repository (see [Getting Records](#)) and write records to it (see [Writing Records](#)).

Overview of Repository Access

The following diagram shows the relationships between the InTrust SDK's interfaces used for getting access to a repository. An arrow indicates that an interface returns another interface.



Before you can have access to an InTrust repository, you need to initialize the InTrust environment. For that, create an object that implements the [IInTrustEnvironment](#) interface. This object makes the current InTrust organization, its servers and its repositories available to you. The relationships between these items are as follows:

- An InTrust organization provides a single configuration database for one or more InTrust servers.
- An InTrust repository is registered with an InTrust organization, and its entry is contained in the configuration shared by all InTrust servers in the organization.
- Specific InTrust servers manage specific repositories but do not “own” them; however, the organization does.

The [IInTrustEnvironment](#) interface provides the environment for working with all available InTrust organizations. You can use two methods to get the organization you need:

1. Get a collection of known organizations (**Organizations** method of the [IInTrustEnvironment](#) interface) and pick the necessary one. This involves working with the [IInTrustOrganizationCollection](#) interface. In this case, organizations are discovered by an Active Directory query.
2. Connect directly to an InTrust server by name (**ConnectToServer** method of the [IInTrustEnvironment](#) interface). This involves working with the [IInTrustServer](#) interface, which you can use to get the organization that the server is in.

Once you have gained access to an organization, use its interface ([IInTrustOrganization3](#)) to get a collection of the repositories in it ([IInTrustRepositoryCollection2](#)) and get the repository you are looking for ([IInTrustRepository3](#)).

The information above concerns access to regular production repositories. However, a valid file structure with data can also act as an InTrust repository for the purposes of searching and writing, even if it is not included in InTrust configuration. It is called an idle repository. An idle repository has no representation in the InTrust environment, so you need to construct its interface to gain access. For details, see [Creating and Removing Repositories](#).

Examples

If you know the name of the organization for a specific repository, follow the **organization** → **repository** chain of access:

```
{
    IInTrustEnvironment intrust_environment = new InTrustEnvironment();
    IInTrustOrganizationCollection organizations = intrust_
environment.Organizations;
    IInTrustOrganization3 intrust_organization =
organizations.Cast<IInTrustOrganization3>().Where(x => x.Name == "My
Organization").First();
    IInTrustRepositoryCollection2 repositories = intrust_
organization.Repositories2;
    IInTrustRepository3 repository = repositories.Cast<IInTrustRepository3>
().Where(x => x.Name == "My Repository").First();
}
```

If you only know the name of a server in the organization, follow the **server** → **organization** → **repository** chain of access:

```
{
    IInTrustEnvironment intrust_environment = new InTrustEnvironment();
    IInTrustServer intrust_server = intrust_environment.ConnectToServer("My
Server");
    IInTrustOrganization3 intrust_organization = intrust_server.Organization as
IInTrustOrganization3;
    IInTrustRepositoryCollection2 repositories = intrust_
organization.Repositories2;
    IInTrustRepository3 repository = repositories.Cast<IInTrustRepository3>
().Where(x => x.Name == "My Repository").First();
}
```

Details

Use the following interfaces for repository access and related tasks:

- [IInTrustEnvironment](#)
- [IInTrustOrganizationCollection](#)
- [IInTrustOrganization](#)
- [IInTrustServerCollection](#)
- [IInTrustServer](#)
- [IInTrustRepositoryCollection2](#)
- [IInTrustRepository3](#)

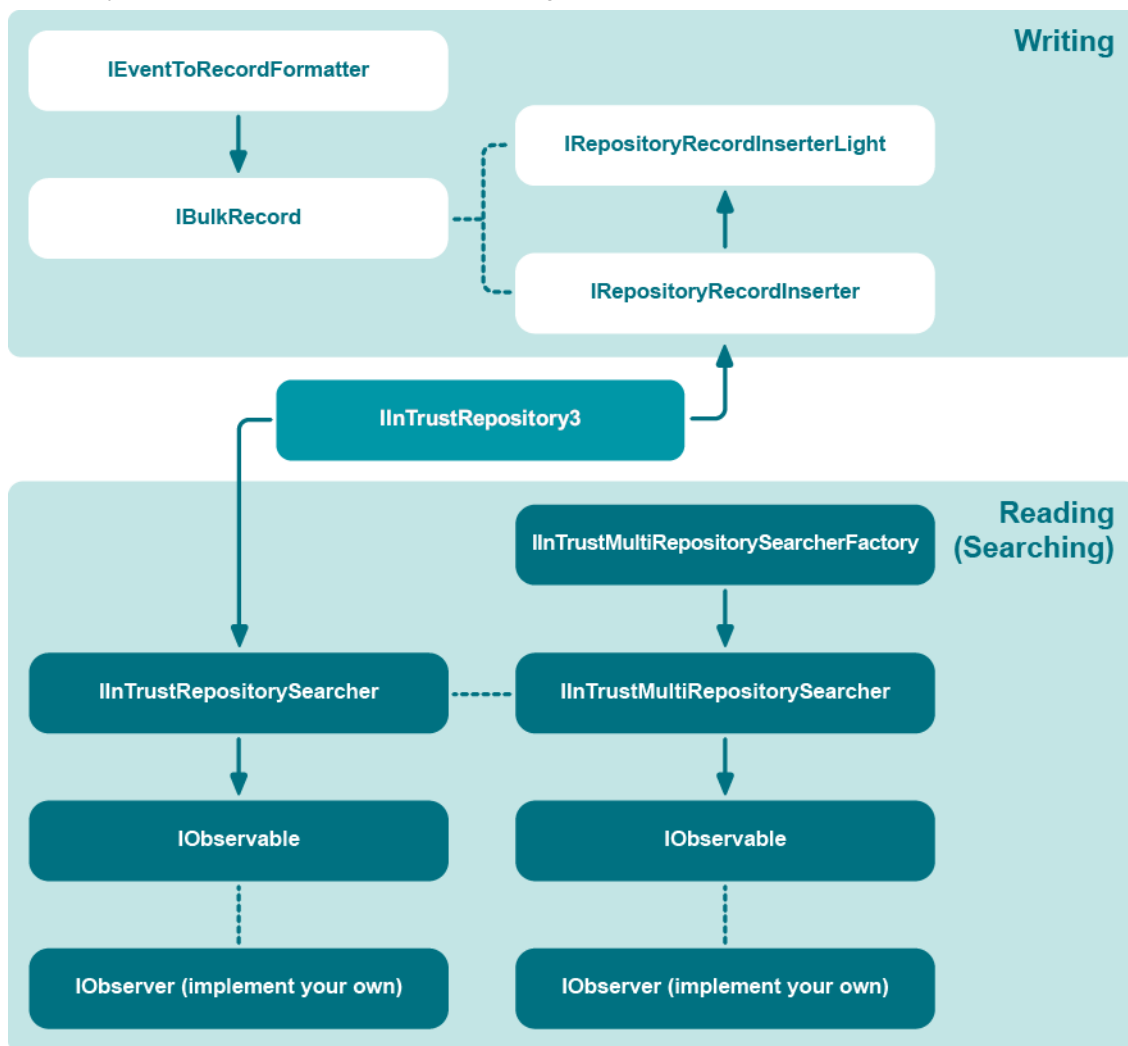
Getting and Putting Data

The InTrust repository was originally developed to store event log data, and this dictated the design choices that it is based on. However, the repository architecture is flexible enough for storing generic records containing arbitrary key-value pairs. The repository API provides tools for reading and writing both kinds of data.

Importantly, the repository is a document-oriented store. If you need to implement any inter-document relationships, you need to define them at the document contents level.

Overview

The following diagram shows the relationships between the InTrust SDK's interfaces used for reading and writing repository data. An arrow indicates that an interface returns another interface. Dashed lines between interfaces mean they don't return one another, but are used together for particular tasks.



See below for details about building program flow that uses these relationships. For a diagram of how to obtain the `IInTrustRepository3` interface, see [Connecting to a Repository](#).

Writing

Whether you want to write generic records or events, first you need access to the [IRepositoryRecordInserter](#) or [IRepositoryRecordInserter2](#) interface. Take the following steps:

1. Connect to the repository you need, as described in [Connecting to a Repository](#).
2. Get the [IRepositoryRecordInserter](#) or [IRepositoryRecordInserter2](#) interface. This interface manages the writing of data to a repository. To obtain it, call the **Inserter** method of the [IInTrustRepository3](#) interface of the repository you are connected to. A new inserter is created every time you make this call. You should obtain it once and reuse it for all writing to the repository.

For details about the next steps, see the following topics:

- [Writing Records](#)
- [Writing Events](#)

Reading

Reading data from a repository means searching the repository for it. Search queries use the REL language described in [InTrust Customization Kit](#). For a list of fields that you can use in search queries, see [Searchable Event and Record Fields](#). For some important REL query specifics, see [Composing REL Queries](#).

The data-retrieving functionality of the InTrust repository API is modeled after the push-based notification system used in the Microsoft .NET Framework. Therefore, the API provides similar interfaces (such as [IObservable](#) and [IObserver](#)).

To perform a repository search

1. Connect to the repository you need, as described in [Connecting to a Repository](#). This gives you access to the [IInTrustRepository3](#) interface.
2. Use the **Searcher** method of the [IInTrustRepository3](#) interface to get the [IInTrustRepositorySearcher](#) interface.
3. Use that interface's **Search** method to get an [IObservable](#) interface.
4. Subscribe to the notification using the [IObserver](#) interface.

Example of a helper function (C#):

```
static void search_events(IInTrustRepository intrust_repository, string query)
{
    IObservable observable = intrust_repository.Searcher().Search(query);
    MyObserver observer = new MyObserver();
    observable.Subscribe(observer, out observer.m_cookie);
}
```

The repository API also provides a way to perform searches on multiple repositories simultaneously. The [IMultiRepositorySearcher](#) interface is provided for this purpose.

To perform a multi-repository search

1. Obtain the [IInTrustRepositorySearcher](#) interfaces for the repositories you need.
2. Construct a [IMultiRepositorySearcher](#) interface using the [IMultiRepositorySearcherFactory](#) interface.

3. In the newly-created interface, specify the interfaces from the first step using the **MakeMultiSearchObject** method.
4. Use the returned interface as a regular [IInTrustRepositorySearcher](#) interface, as described above.

Example of a multi-repository search:

```
IInTrustEnvironment env = new InTrustEnvironment();
IInTrustServer server = env.ConnectToServer("10.30.38.230");
IInTrustOrganization org = server.Organization;
IInTrustEventory evs = org.Eventory;
string eventory_str = evs.Eventory;
IMultiRepositorySearcherFactory multi_searcher_fac = new
MultiRepositorySearcherFactory();
IMultiRepositorySearcher multi_searcher = multi_searcher_
fac.CreateMultiRepositorySearcher(eventory_str);
```

The example above involves an explicitly specified log knowledge base (see [Log Knowledge Base API](#) for details). To use the default log knowledge base, rewrite it as follows:

```
IMultiRepositorySearcherFactory multi_searcher_fac = new
MultiRepositorySearcherFactory();
IMultiRepositorySearcher multi_searcher = multi_searcher_
fac.CreateMultiRepositorySearcher(null);
```

For details about the next steps, see the following topics:

- [Getting Records](#)
- [Getting Events](#)

The following interfaces are involved in repository searches:

- [IObservable](#)
Enables push-based notification. Implement this interface as the source of discovered records.
- [IObserver](#)
Gets push-based notifications. Implement this interface as the search result handler.
- [ICookie](#)
Keeps a search active. It is unlikely that you will need to handle this interface directly, but it helps to know that it is involved in searching.

Getting Records

A repository search returns data wrapped in a polymorphic **IUnknown** interface, as described in [Getting and Putting Data](#). To interpret the data as repository records, cast it as [IBulkRecord2](#).

Example (C#)

```
class MyObserver : IDisposable, REPOSITORYSERVICESLib.IObserver
{
    public REPOSITORYSERVICESLib.ICookie m_cookie;
    public MyObserver()
    {
    }
    public void OnDone()
    {
        Console.WriteLine("Search done");
    }
    public void OnError(int hr, string description)
    {
        Console.WriteLine("Search error: {0}", description);
    }
    public void OnNext(object data)
    {
        if (data != null)
        {
            IBulkRecord2 bulk_record2 = (data as IBulkRecord2);
            List<record2> records = bulk_record2.GetRecords().Cast<record2>
().ToList<record2>();
            int record_count = 0;
            foreach (record2 my_record in records)
            {
                ++record_count;
            }
            System.Runtime.InteropServices.Marshal.FinalReleaseComObject(data);
        }
    }
}
```

For details about what repository records are, see [Repository Record Data Structures](#).

Getting Events

A repository search returns data wrapped in a polymorphic **IUnknown** interface, as described in [Getting and Putting Data](#). To interpret the data as event records, cast it as [IBulkEventWithReadExtensions](#).

Example (C#)

```
class MyObserver : IDisposable, REPOSITORYSERVICESLib.IObserver
{
    public REPOSITORYSERVICESLib.ICookie m_cookie;
    public MyObserver()
    {
    }
    public void OnDone()
    {
        Console.WriteLine("Search done");
    }
}
```

```

}
public void OnError(int hr, string description)
{
    Console.WriteLine("Search error: {0}", description);
}
public void OnNext(object data)
{
    if (data != null)
    {
        IBulkEventWithReadExtensions bulk_event = (data as
IBulkEventWithReadExtensions);
        List<event_with_read_extensions> events = bulk_event.GetEvents
().Cast<event_with_read_extensions>().ToList<event_with_read_extensions>();
        int event_count = 0;
        foreach (event_with_read_extensions my_event in events)
        {
            ++event_count;
        }
    }
    System.Runtime.InteropServices.Marshal.FinalReleaseComObject(data);
}
}

```

For details about what event records are, see [Event Record Data Structures](#).

Composing REL Queries

REL is an expression language developed specifically for InTrust, and it is used for multiple purposes besides repository searching.

The following topics about REL in the [InTrust Customization Kit](#) contain information that is fully applicable to queries used for searching in repositories:

- [Words](#)
- [Expressions](#)
- [Operators](#)
- [Functions](#)

However, due to the specifics of how repositories operate, there are some limitations on what you can include in your queries and nuances that affect performance. These peculiarities have to do with the following:

- Use of punctuation in field values
- Whether "equals" or "contains" semantics are used

Punctuation and Other Non-Alphanumeric Characters

Some characters, such as curly braces and the hyphen, are treated in a special way by the repository indexing engine. A query that includes these characters is automatically transformed during an indexed search, even though the query itself may be perfectly valid. The indexing engine splits the query into substrings at these characters and uses the substrings to make the clauses of an AND expression.

As a result, these characters are effectively removed from the index. This affects how well irrelevant data is filtered out and, consequently, how fast queries are evaluated. The following is a list of such characters:

- \ & { } () [] < > , ! ? .

You can deal with this limitation in the following ways:

| What you can do | Comments |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Do nothing; leave the characters where they are. | <p>Your query will be transformed automatically so that the indexing engine filters out as much of the repository as it can before running the search. However, punctuation characters are not part of the index, so the expected values may not be the only ones that match. A lot of similar but irrelevant matches can be present in the results.</p> <p>How fast your query runs and how relevant its results are depends on how many distinctive alphanumeric substrings it contains besides the punctuation:</p> <ul style="list-style-type: none">• If your query is made up of strings that have low chances of occurrence, your search will be fast and the results will be mostly relevant.• If your query contains strings that occur all the time, your search will be slow and the results will not be very useful. |
| Pick different fields to match by; ones that can contain only alphanumeric characters. | You can achieve maximum search performance, but it can be difficult or impossible to find equally relevant fields. |

"Equals" Versus "Contains"

In a repository search, a query that uses "equals" semantics (the **striequ** REL function) is always evaluated faster than a similar query using "contains" semantics (the **substr** REL function). Queries with "does not equal" semantics are even slower.

Regular expressions (the **regexp** REL function) are slowest.

Searchable Event and Record Fields

This topic lists the field names that you can use in your **REL** queries when you search for events or records in a repository using the **IObservable** and **IObserver** interfaces.

The results of a search are polymorphic and can be cast to events or records as necessary. In addition, you can treat the contents of the repository as either events or records and use either event field names or record field names. However, you cannot mix event and record field names in the same query.

For example, if your repository contains custom records with filled-in insertion strings, it is convenient to treat the records as events for easy access to insertion string contents (see [Insertion Strings](#) below).

Event Fields

| Field | Details |
|-------------------------|----------------------------------------------------------------------------------------------------------------|
| <code>__AnyField</code> | Look for the specified pattern in all fields. |
| Category | A symbolic representation of the event category. Search pattern example: <code>"(\\b \\W ^)security"</code> |

| Field | Details |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Computer | The computer where the event was logged. |
| Environment | Internally, InTrust predefines two environment ID values: <ul style="list-style-type: none"> • 8EAF6C85-D1FF-4CFD-9D90-64944C8E6B3E Unix Network Environment • 9E442BEE-EAC2-4D79-9013-053FB225CFD0 Microsoft Windows Network Environment <p>Custom environment IDs can also occur.</p> |
| EventID | |
| PlatformID | Internally, InTrust predefines the following platform ID values: <ul style="list-style-type: none"> • 500 Microsoft Windows • 610 Solaris • 620 HP-UX • 630 Linux • 640 IBM AIX <p>Custom platform IDs can also occur.</p> |
| Source | The subsystem or service that the event is related to. For example, in forwarded Syslog events the source is "Syslog Device". |
| SourceComputer | The computer where the event originated; this can be different from the computer where it was logged. |
| SourceDomain | The domain of the computer where the event originated, if applicable. |
| Time | The timestamp in the event. Tip: Use filtering by date in your REL queries whenever the date range is known. This speeds up searches considerably. |
| Type | The predefined types are Information , Warning , Error , Failure Audit and Success Audit . |
| UserDomain | The domain of the user who produced the event. |
| UserName | The name of the user who produced the event. |
| VersionMajor | The major operating system version number of the computer on which the event occurred. For example, the major version of Windows 7 is 6. |

| Field | Details |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VersionMinor | The minor operating system version number of the computer on which the event occurred. For example, the minor version of Windows 7 is 1. |
| What | A brief description of what the event is about. |
| Where | The computer where the event happened (had effect). |
| Where_From | The name or IP address of the computer from which the activity (such as a logon or configuration change) was performed. This is not necessarily the same computer as the one where the activity had effect. |
| Who | The plain user name of the account that caused the event. |
| WhoDomain | The Active Directory domain of the account that caused the event, where applicable. |
| Whom | The user account that was affected by the event, where applicable. |

Insertion Strings

To look in insertion strings and resolved insertion strings, respectively, use the following field names:

- InsertionString*N*
- ResolvedInsertionString*N*

where *N* is the number of the string.

Examples of REL expressions:

```
in( InsertionString10, "rei", "(\\b|\\W|^)is1608133597" );
striequ(ResolvedInsertionString2,"is");
```

Record Fields

Most of the fields defined in the record data structures (see [Repository Record Data Structures](#)) can be used in search queries:

- directory_tag_1
- directory_tag_2
- directory_tag_3
- directory_tag_4
- field_1
- field_3
- field_4
- file_tag_1
- file_tag_2
- file_tag_3
- file_tag_4

- `formatting_record_field`
- `string_field_1`
- `string_field_2`
- `string_field_3`
- `string_field_4`
- `string_field_5`

Note that some fields contain integers and others strings.

Examples of REL expressions:

```
field_1 = 123;
striequ(directory_tag_1, "blue");
striequ(formatting_record_field, "green");
striequ(string_field_1, "cerise");
file_tag_1 = 5385;
```

Writing Records

After you have obtained the [IRepositoryRecordInserter](#) or [IRepositoryRecordInserter2](#) interface (as described in [Getting and Putting Data](#)), you need to generate the data structures that you are going to write. Before you begin writing, make sure you understand the record data structures (see [Repository Record Data Structures](#)) and are able to construct them efficiently. The repository API provides two ways to write records: you can use either complete **record** structures or arrays of the smaller structures from which **records** are made up. The next steps depend on this choice.

Approach 1: Writing Whole Record Structures

In this approach, you combine your newly generated **tags** and **contents** structures into complete **record** structures, put the **records** in an array and supply the array to the **PutRecords** method of the [IRepositoryRecordInserter](#) interface.

Approach 2: Splitting Records for Writing

This approach requires that you plan in advance which of your record fields best to use as **tags**. This will enable you to create records with shared **tags** and different **contents**. The [IRepositoryRecordInserterLight](#) interface stores the **tags** that you want to share among your records. To get this interface, call the **BindFields** method of the [IRepositoryRecordInserter](#) interface you have obtained. This method accepts your **tags** as a parameter.

After that, supply the **contents** parts of your **records** to the [IRepositoryRecordInserterLight](#) interface; it will form complete **record** structures and perform the writing.

Example (C#)

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Runtime.InteropServices;
using REPOSITORYSERVICESLib;
using REPOSITORYRECORDINSERTERLib;
using INTRUSTENVIRONMENTLib;
namespace RepositoryRecordInserterTest2
{
    class Program
    {
        public static uint ToUnixTime(DateTime date)
        {
            var epoch = new DateTime(1970, 1, 1, 0, 0, 0, DateTimeKind.Utc);
            return (uint)Convert.ToInt64((date.ToUniversalTime() -
epoch).TotalSeconds);
        }

        public static DateTime UnixTimestampToDateTime(uint unixTime)
        {
            DateTime unixStart = new DateTime
(1970, 1, 1, 0, 0, 0, System.DateTimeKind.Utc);
            long unixTimeStampInTicks = (long)(unixTime * TimeSpan.TicksPerSecond);
            return new DateTime(unixStart.Ticks + unixTimeStampInTicks);
        }

        class MyObserver : IDisposable, REPOSITORYSERVICESLib.IObserver
        {
            private AutoResetEvent m_waitHandler;

```

```

public int event_count;

public REPOSITORYSERVICESLib.ICookie m_cookie;

public MyObserver(AutoResetEvent x)
{
    m_waitHandler = x;
    event_count = 0;
}

public void OnDone()
{
    Console.WriteLine("Search done");
    m_waitHandler.Set();
}

public void OnError(int hr, string description)
{
    Console.WriteLine("Search error - {0}", description);
    m_waitHandler.Set();
}

public void OnNext(object data)
{
    if (data != null)
    {
        IBulkRecord bulk_event = (data as IBulkRecord);
        List<record> records = bulk_event.GetRecords().Cast<record>
().ToList<record>();

        foreach (record my_record in records)
        {
            Console.WriteLine("next record");

            Console.WriteLine("    time - {0}", UnixTimestampToDateTime
(my_record.record_contents.gmt_time));

            foreach (named_string my_named_string in my_record.record_
contents.named_fields)
            {

```

```

        Console.WriteLine("    key - {0}, value - {1}", my_
named_string.name, my_named_string.value);
    }
    ++event_count;
}
}

System.Runtime.InteropServices.Marshal.FinalReleaseComObject(data);
}

public void Dispose()
{
    m_cookie.Stop();
}
}

static tags construct_sharding_fields(string log)
{
    // For details about using sharding keys, see the "Repository Record
Data Structures" topic

    tags tg = new tags();
    tg.directory_tag_1 = "ShardingLevel1";
    tg.directory_tag_2 = "ShardingLevel2";
    tg.directory_tag_3 = "{A9E5C7A2-5C01-41B7-9D36-E562DFDDEFA9}"; //
Sharding level 3 must be a GUID

    tg.directory_tag_4 = log;
    tg.file_tag_1 = 0;
    tg.file_tag_2 = 500;
    tg.file_tag_3 = 0;
    tg.file_tag_4 = 0;

    return tg;
}

static contents construct_contents_fields(insertion_string[] insertion_
strings, named_string[] named_fields, string formatting_record_field)
{
    contents ct = new contents();

```

```

        ct.string_field_1 = "string_field_1_value";
        ct.string_field_2 = "string_field_2_value";
        ct.string_field_3 = "string_field_3_value";
        ct.string_field_4 = "string_field_4_value";
        ct.string_field_5 = "string_field_5_value";
        ct.formatting_record_field = formatting_record_field;
        ct.gmt_time = ToUnixTime(DateTime.Now);
        ct.field_1 = 300;
        ct.field_2 = 50;
        ct.field_3 = 2;
        ct.field_4 = 3;
        ct.strings = insertion_strings;

        ct.named_fields = named_fields;
        return ct;
    }

    static record construct_record(uint index, string logname, insertion_string
[] insertion_strings, named_string[] named_fields, string description)
    {

        return new record() {
            record_path = construct_sharding_fields(logname),
            record_contents = construct_contents_fields(insertion_
strings, named_fields, description)
        };
    }

    static void insert_records(IRepositoryRecordInserter pInserter)
    {
        DateTime start = DateTime.Now;
        List<record> records = new List<record>();
        for (uint i = 0; i != 16000; ++i)
        {

```

```

        insertion_string[] insertion_strings =
            {
                new insertion_string() { index = 1, value = "My" },
                new insertion_string() { index = 2, value = "String
value 2" },
                new insertion_string() { index = 6, value = "Event" },
                new insertion_string() { index = 7, value = "String
value 7" }
            };

        named_string[] named_fields =
            {
                new named_string()
                { name = "FieldName1", value = "FieldValue1" },
                new named_string()
                { name = "FieldName2", value = "FieldValue2" },
                new named_string()
                { name = "FieldName3", value = "FieldValue3" },
                new named_string()
                { name = "FieldName4", value = "FieldValue4" },
                new named_string()
                { name = "FieldName5", value = "FieldValue5" },
            };

        records.Add(construct_record(i, "Log1", insertion_strings, named_
fields, "This %1 %6 description"));
    }

    pInserter.PutRecords(records.ToArray());

    pInserter.Commit();
}

static void insert_records_on_server(IRepositoryRecordInserter2 pInserter)
{
    DateTime start = DateTime.Now;

    List<record> records = new List<record>();

    for (uint i = 0; i != 16000; ++i)
    {

```

```

        insertion_string[] insertion_strings =
            {
                new insertion_string() { index = 1, value = "My" },
                new insertion_string() { index = 2, value = "String
value 2" },
                new insertion_string() { index = 6, value = "Event" },
                new insertion_string() { index = 7, value = "String
value 7" }
            };

        named_string[] named_fields =
            {
                new named_string()
{ name = "FieldName1", value = "FieldValue1"},
                new named_string()
{ name = "FieldName2", value = "FieldValue2"},
                new named_string()
{ name = "FieldName3", value = "FieldValue3"},
                new named_string()
{ name = "FieldName4", value = "FieldValue4"},
                new named_string()
{ name = "FieldName5", value = "FieldValue5"},
            };

        records.Add(construct_record(i, "Log1", insertion_strings, named_
fields, "This %1 %6 description"));
    }

    pInserter.PutRecords(records.ToArray());

    pInserter.Commit2(ToServerRepositoryCommitType);
}

static tags construct_naive_sharding_fields(string log)
{
    // For details about using sharding keys, see the "Repository Record
Data Structures" topic

    tags tg = new tags();

    tg.directory_tag_1 = "ShardingLevel1";

    tg.directory_tag_2 = "ShardingLevel2";
}

```

```

        tg.directory_tag_3 = "{A9E5C7A2-5C01-41B7-9D36-E562DFDDEFA9}"; //
        Sharding level 3 must be a GUID

        tg.directory_tag_4 = log; // ShardingLevel4

        return tg;
    }

    static contents construct_naive_contents_fields(named_string[] named_fields)
    {
        contents ct = new contents();
        ct.gmt_time = ToUnixTime(DateTime.Now);
        ct.named_fields = named_fields;
        return ct;
    }

    static record construct_naive_record(uint index, string logname, named_
string[] named_fields)
    {
        return new record()
        {
            record_path = construct_naive_sharding_fields(logname),
            record_contents = construct_naive_contents_fields(named_fields)
        };
    }

    static void insert_naive_records(IRepositoryRecordInserter pInserter)
    {
        DateTime start = DateTime.Now;
        List<record> records = new List<record>();
        for (uint i = 0; i != 16000; ++i)
        {
            named_string[] named_fields =
                {
                    new named_string()
{ name = "FieldName1", value = "FieldValue1"},
                    new named_string()
{ name = "FieldName2", value = "FieldValue2"},
                }
        }
    }
}

```

```

        new named_string()
{ name = "FieldName3", value = "FieldValue3"},

        new named_string()
{ name = "FieldName4", value = "FieldValue4"},

        new named_string()
{ name = "FieldName5", value = "FieldValue5"},

};

records.Add(construct_naive_record(i, "Log1", named_fields));

}

pInserter.PutRecords(records.ToArray());

pInserter.Commit();

}

static void search_records(IInTrustRepository intrust_
repository, string query)
{

    IObservable observable = intrust_repository.Searcher.Search(query);
    AutoResetEvent waitHandler = new AutoResetEvent(false);
    MyObserver observer = new MyObserver(waitHandler);
    observable.Subscribe(observer, out observer.m_cookie);
    waitHandler.WaitOne();

}

static void records_example(IInTrustRepository intrust_repository)
{

    IRepositoryRecordInserter pInserter = intrust_repository.Inserter;

    // Insert records with strictly key-value data directly to the
repository
    insert_naive_records(pInserter);

    search_records(intrust_repository, "(in( __AnyField, \"rei\", \"
(\\\\b|\\\\W|^)FieldValue5\" ));");

    // Insert records directly to the repository
    insert_records(pInserter);

    search_records(intrust_repository, "(in( __AnyField, \"rei\", \"
(\\\\b|\\\\W|^)String value 7\" ));");

```

```

        // Insert records by queuing them on the server
        insert_records_on_server(pInserter as IRepositoryRecordInserter2);

        System.Threading.Thread.Sleep(60000); // We need to wait, because there
        will be a delay up to a minute before the event arrives in the repository

        search_records(intrust_repository, "(in( __AnyField, \"rei\", \"
        (\\\\b|\\\\W|^)String value 7\" ));"
    }

    static void Main(string[] args)
    {
        if (args.Length != 2)
        {
            Console.WriteLine("Invalid argument count.\n");

            Console.WriteLine("\tRepositoryRecordInserterTest.exe <InTrust
            Server Binding String> <Repository Name>\n");

            return;
        }

        try
        {
            InTrustEnvironment intrust_environment = new InTrustEnvironment();

            IInTrustOrganization3 intrust_organization = intrust_
            environment.ConnectToServer(args[0]).Organization as IInTrustOrganization3;

            IInTrustRepository3 intrust_repository = intrust_
            organization.Repositories2.Cast<IInTrustRepository3>().Where(x => x.Name == args
            [1]).First();

            records_example(intrust_repository);
        }

        catch (Exception e)
        {
            Console.WriteLine("Error : {0}", e.ToString());
        }
    }
}

```

Writing Events

After you have obtained the [IRepositoryRecordInserter](#) interface (as described in [Getting and Putting Data](#)), take the following steps:

1. Generate valid **event_with_extensions** structure instances; this structure is described in [Event Record Data Structures](#).
2. Through combined use of the [IEventToRecordFormatter](#) and [IRepositoryRecordInserter](#) interfaces, supply your newly generated events for writing.
For that, use the **Format** method of the [IEventToRecordFormatter](#) interface to wrap your events in [IBulkEventWithReadExtensions](#), and pass the resulting wrapper interface as a parameter to the **PutRecords2** method of the [IRepositoryRecordInserter](#) interface.

Sort Order for Writing

When you write events in batches, the events must be sorted by **gmt_time**, but not necessarily throughout the entire batch. The important thing is to sort those events where the following are the same: domain, computer, log name. That is the scope where you need to sort. For example, if your event batch contains 1000 events from 1000 computers, no sorting is necessary. But if it is 1000 events from two computers, you need to do two sorts.

Out-of-Order Writing

Submitting events out of order is possible, but there is a serious caveat. Whenever the timestamp of your event is less than that of the event you submitted last, you must use the **Commit** method of your inserter interface before you write the “flashback” event. Here are some implications of this:

- Events that are newer than the last-submitted event and older than that event should not be put in the same batch. Otherwise, timestamps will not be interpreted correctly. For example, searching within a specific time range will not return events that match but were written out of order between commits.
- A huge amount of repository files (caused by frequent commits) is bad for performance. Batch your “old” events as much as possible.

Repository Record Data Structures

A record is a chunk of data that is (or has been prepared for being) stored in a repository and processed by repository searches. A record is made up of two parts: tags and contents. The tags indicate where in the file system the file with this record is located. At the same time, the tags double as record field values. The contents do not do anything other than contain record field values.

When you create records, it is important which fields you use as tags and which you use as contents. By handling tags rationally you can help speed up searches on the data you are storing and minimize disk usage by your repository contents.

When you search for records, it doesn't matter in search queries whether a value is used as a tag or as contents. For recommendations on efficiently organizing data fields in records, see [Recommendations on Setting Tags](#) below.

tags

```
struct tags
```

```

{
    BSTR directory_tag_1;
    BSTR directory_tag_2;
    BSTR directory_tag_3; // must specify a GUID
    BSTR directory_tag_4;
    unsigned file_tag_1;
    unsigned file_tag_2;
    unsigned file_tag_3;
    unsigned file_tag_4;
};

```

Contains the values of eight of the record's fields. In addition to carrying record data, this combination of fields is used for identifying the path to a folder and the name of a file in the repository tree. Repository trees are four levels deep, and files are located only at the deepest level.

The directory tags specify the four nesting levels. The third level must be a string representation of a GUID; InTrust verifies the format. This requirement is due to the implementation of the repository services. The GUID is used for identifying event-providing data sources, and each data source type has a particular known GUID. You may want to come up with your own set of special-purpose GUIDs for your specific tasks (for example, hierarchical organization).

The file tags specify the four parts of the file's base name. A file represented by this structure contains one or more entries represented by **contents** and **contents2** structures. If the number of entries per file hits a limit, the same base name is used for creating a new file, and the entries are continued in it.

In a simplified way, the location of a repository file in the file system hierarchy can be represented as follows:

```

repository_root
├── directory_tag_1
│   ├── directory_tag_2
│   │   ├── directory_tag_3
│   │   │   └── directory_tag_4
│   │   └── file_tag_1_file_tag_2_file_tag_3_file_tag_4_InTrust_internal_tags

```

Because tags correlate with the file system, make sure their values do not contain characters that are disallowed in file and directory names.

contents

```

struct contents
{
    unsigned field_1;
    unsigned field_2;
    short field_3;
    short field_4;
    DATE gmt_time;
};

```

```

BSTR string_field_1;

BSTR string_field_2;

BSTR string_field_3;

BSTR string_field_4;

BSTR string_field_5;

SAFEARRAY(struct insertion_string) strings;

SAFEARRAY(struct named_string) named_fields;

BSTR formatting_record_field;

};

```

Used for writing records to the repository and contains the remaining values of the record fields in addition to those specified by the **tags** structure. This structure is physically represented by an entry in a repository file.

i **NOTE:** The InTrust repository is known to easily handle up to 300 strings per record. Higher numbers of strings have not been tested and cannot be recommended.

As a best practice, make sure that your string mapping is consistent; that is, the same string numbers should have the same meanings across your records. This is beneficial for repository searches.

! **CAUTION:** At this time, the **field_2** field is not indexed and cannot be processed in repository searches. Writing useful data to this field is currently not recommended.

contents2

```

struct contents2
{
    unsigned field_1;

    unsigned field_2;

    short field_3;

    short field_4;

    DATE gmt_time;

    BSTR string_field_1;

    BSTR string_field_2;

    BSTR string_field_3;

    BSTR string_field_4;

    BSTR string_field_5;

    SAFEARRAY(struct insertion_string) strings;

    SAFEARRAY(struct named_string) native_named_fields;

    SAFEARRAY(struct named_string) resolved_named_fields;
}

```

```
BSTR formatting_record_field;

};
```

Used in results of repository searches and contains the remaining values of the record fields in addition to those specified by the **tags** structure. This structure is physically represented by an entry in a repository file.

Unlike the **contents** structure, the **contents2** structure contains two distinct arrays of **named_string** structures. This is because the data for the **native_named_fields** field is not known during record writing. It is only available to repository searches.

i **NOTE:** The InTrust repository is known to easily handle up to 300 strings per record. Higher numbers of strings have not been tested and cannot be recommended.

As a best practice, make sure that your string mapping is consistent; that is, the same string numbers should have the same meanings across your records. This is beneficial for repository searches.

! **CAUTION:** At this time, the **field_2** field is not indexed and cannot be processed in repository searches. Writing useful data to this field is currently not recommended.

record

```
struct record
{
    struct tags record_path;
    struct contents record_contents;
};
```

Combines the path-specifying (**tags**) and complementary (**contents**) parts of a record into a single structure. This type of record is used for writing to the repository.

record2

```
struct record2
{
    struct tags record_path;
    struct contents2 record_contents;
};
```

Combines the path-specifying (**tags**) and complementary (**contents2**) parts of a record into a single structure. This type of record is returned by repository searches.

Recommendations on Setting Tags

Organize your record tags according to the likelihood of the value being the same in a given collection of records. That is, **directory_tag_1** should contain the value that is the same in most of the records you are about to generate. Conversely, **directory_tag_4** should contain the value that the fewest records have in common. Also note that the best way to map the tags (and thereby define how the records will be stored physically) is to make them correspond to something that falls into a meaningful hierarchy. For example, all your records might be Security log events, but it

still doesn't make sense to make the log name the topmost level. You would do better to tag map **directory_tag_1**,..., **directory_tag_4** to domain, computer, data source and log name, respectively; even though there is more value variation at the top levels this way.

A repository can store heterogeneous objects, but you need a way to tell their types apart. This requires a generic ID field, and **directory_tag_3** is good for the purpose. If you come up with a GUID for each object type (file system, computer, Active Directory object and so on), you will not confuse them. A further improvement is to design a hierarchy of IDs.

Event Record Data Structures

These data structures are alternatives to generic repository record data structures. Use event records for convenience when your records represent log events. For details about the meaning of the fields used in event records, see [Event Record Data Structures](#) below.

The primary data structure is [base_event](#). There are also two structures that extend it: [event_with_extensions](#) and [event_with_read_extensions](#). For details about the use of these data structures, see [Getting Events](#) and [Writing Events](#).

base_event

```
struct base_event
{
    BSTR environment;
    BSTR gathering_domain;
    BSTR gathering_computer;
    BSTR datasource_type;
    BSTR gathered_event_log;
    BSTR user_name;
    BSTR user_domain;
    BSTR source_name;
    BSTR computer_name;
    BSTR string_category;
    BSTR description_template;
    SAFEARRAY(struct insertion_string) strings;
    SAFEARRAY(unsigned char) binary_data;
    unsigned time_gmt;
    unsigned time_generated;
    long time_bias;
```

```

    unsigned record_key;
    unsigned event_id;
    unsigned computer_type;
    unsigned platform_id;
    short version_major;
    short version_minor;
    short event_type;
    short numeric_category;
    unsigned padding000;
};

```

! **CAUTION:** The `binary_data` field is present only for compatibility with Windows events. This data cannot be indexed or processed in repository searches. Writing useful data to this field is not recommended.

event_with_read_extensions

```

struct event_with_read_extensions
{
    struct base_event original_event;
    BSTR formatted_description;
    SAFEARRAY(struct augmented_insertion_string) resolved_strings;
    SAFEARRAY(struct named_string) named_strings;
};

```

named_string

```

struct named_string
{
    BSTR name;
    BSTR value;
};

```

i **IMPORTANT:** In the string names that you define, use only alphanumeric ASCII characters and the underscore (`_`) character.

insertion_string

```
struct insertion_string
{
    BSTR value;
    int index;
    int padding;
};
```

A regular insertion string.

augmented_insertion_string

```
struct augmented_insertion_string
{
    int source_index;
    int result_index;
    BSTR value;
};
```

These are normalized parameters that are not originally present in native events. For a description of these parameters, see the [Filter Parameters in Repository Viewer](#) topic.

i | **NOTE:** The **source_index** field holds the index of the original insertion string. The **result_index** field holds the index of the resulting insertion string after the original has been resolved.

event_with_extensions

```
struct event_with_extensions
{
    struct base_event original_event;
    SAFEARRAY(struct resolved_string) resolved_strings;
};
```

i | **NOTE:** The InTrust repository is known to easily handle up to 300 insertion strings per event. Higher numbers of strings have not been tested and cannot be recommended.
As a best practice, make sure that your insertion string mapping is consistent; that is, the same insertion string numbers should have the same meanings across your events. This is beneficial for repository searches.

event_with_extensions2

```
struct event_with_extensions2
{
    struct base_event original_event;
    SAFEARRAY(struct resolved_string) resolved_strings;
};
```

```
SAFEARRAY(struct named_string) named_fields;

};
```

resolved_string

```
struct resolved_string
{
    BSTR value;
    int insertion_string_index;
    resolve_type insertion_string_resolve_type;
};

typedef enum
{
    custom = 0,
    parameter,
    ad_object_guid_to_distinguished_name,
    user_sid_to_user_name,
    group_policy_guid_to_group_policy_object_name,
    device_name_to_path
} resolve_type;
```

The **resolve_type** enumeration specifies what kind of resolution is supposed to have taken place to get the resulting **value**. The insertion string resolution mechanism in InTrust is fairly complex, but for the purposes of the repository service API it is enough to follow this example:

```
insertion_string[] insertion_strings =
{
    new insertion_string() { index = 1, padding = 0, value = "original string" },
    new insertion_string() { index = 2, padding = 0, value = "%2308" }, // event
parameter
    new insertion_string() { index = 3, padding = 0, value = "{9F29FD37-3CD4-4179-
99F1-A6341DCC4EB3}" }, // ad object guid (user guid)
    new insertion_string() { index = 4, padding = 0, value = "S-1-1-0" }, // user
sid
    new insertion_string() { index = 5, padding = 0, value = "{29EDB5C5-B2C1-4001-
9C96-EE51A6A7CAC3}" }, // ad object guid (group policy guid)
    new insertion_string() { index = 6, padding = 0, value =
"\\Device\\HarddiskVolume1\\SomeFolder\\SomeFile.txt" } };
resolved_string[] resolved_insertion_strings =
{
    new resolved_string() {insertion_string_index = 2, insertion_string_resolve_type
= resolve_type.parameter, value = "The user has not been granted the requested
logon type at this machine."},
    new resolved_string() {insertion_string_index = 3, insertion_string_resolve_type
= resolve_type.ad_object_guid_to_distinguished_name, value =
"CN=user1,DC=aa,DC=com"},
    new resolved_string() {insertion_string_index = 4, insertion_string_resolve_type
= resolve_type.user_sid_to_user_name, value = "EDM\\User2"},
    new resolved_string() {insertion_string_index = 5, insertion_string_resolve_type
= resolve_type.ad_object_guid_to_distinguished_name, value = "CN={B96B9D14-E2A4-
47ae-8ACA-CB0460089616},DC=aa,DC=com"},
    new resolved_string() {insertion_string_index = 5, insertion_string_resolve_type
```

```

= resolve_type.group_policy_guid_to_group_policy_object_name, value =
"MyGroupPolicyObject"},
    new resolved_string() {insertion_string_index = 6, insertion_string_resolve_type
= resolve_type.ad_object_guid_to_distinguished_name, value =
"D:\\SomeFolder\\SomeFile.txt"},
};

```

Note that in the case of resolving a group policy GUID to a group policy name you need to provide two **resolved_string** instances.

Creating and Removing Repositories

The methods for creating and removing production InTrust repositories (**Add** and **Remove**) are available in the [IInTrustRepositoryCollection2](#) interface, which provides access to all repositories in a particular InTrust organization.

! CAUTION: For these operations to succeed, the account you are using must be an InTrust organization administrator. To configure this privilege for the account, do one of the following:

- In InTrust Deployment Manager, click **Manage | Configure Access**.
- In InTrust Manager, open the properties of the root node.

Calling the **Add** method of [IInTrustRepositoryCollection2](#) is not enough to create a repository. After you have made the call and obtained the [IInTrustRepository3](#) interface, you need to complete the configuration of its options and call its **Commit** method. This will complete the creation of the repository.

For details about obtaining a collection of repositories, see [Connecting to a Repository](#).

Instead of a production repository (which is registered with InTrust, managed by an InTrust server and has an entry in the InTrust configuration), you may want to create an idle repository (which has only the raw repository file structure). For that, use the [IIdleRepositoryFactory](#) interface, which constructs [IIdleRepository](#) interfaces.

Working with Repository Properties

Repositories have very flexible configuration, where some properties are predefined and others can be custom-defined. Access to repository configuration is provided through the [IInTrustRepository3](#) interface, which has getter and setter methods for supported property groupings. The following groupings are available at this time:

- Forwarding properties
These properties are used by the event forwarding engine in InTrust (see [Integration into SIEM Solutions Through Event Forwarding](#)). For details about these properties, see [IForwardingSettings](#).
- Indexing properties
These properties are the configuration of the repository indexing engine in InTrust (see [Repository Indexing for Advanced Search Capabilities](#)). For details about these properties, see [IIndexingSettings](#).

- Custom attributes

These are arbitrary properties that you can set as necessary for your own purposes. For details, see [Using Custom Attributes](#).

Using Custom Attributes

You can associate custom attributes with InTrust repositories. They are available through the **CustomAttributes** methods of an [IInTrustRepository3](#) interface. They use the [IProperty](#) interface and are accessed collectively through [IPropertyCollection](#) interfaces.

There are no custom attribute guidelines; what custom attributes you add and how you use them is up to you. However, note that the following limits are set for the generic [IProperty](#) interface used by custom attributes:

- Name: 64 characters
- If you set a string of the BSTR type for the value: 1024 characters

It is also recommended that you keep the number of custom attributes low: tens rather than hundreds.

For details about the generic property interfaces used for custom attributes, see [IProperty](#) and [IPropertyCollection](#).

Example (C#)

```
/* Connect to repository */
IInTrustEnvironment2 env = new InTrustEnvironment();
IInTrustServer server = env.ConnectToServerWithCredentials("8.8.8.8",
@"domain\user_name", "password");
IInTrustOrganization org = server.Organization as IInTrustOrganization3;
IInTrustRepository3 rep = org.Repositories2.Item("Default InTrust Audit
Repository");

/* Get collection of custom attributes */
IPropertyCollection props = rep.CustomAttributes;

/* Set custom attributes */
props.Set("NumberAttr", 12);
props.Set("StringAttr", "Initial status");
rep.Commit();

/* Get attribute by name */
IProperty stringAttr = props.Item("StringAttr");
/* Get value */
System.Console.WriteLine("String attribute value is {0}", stringAttr.PropertyValue);
/* Set new value */
stringAttr.PropertyValue = "Updated status";
rep.Commit();

/* Enumerate all attributes */
foreach (IProperty prop in props)
{
    System.Console.WriteLine("Attribute : {0}, Value : {1}", prop.PropertyName,
prop.PropertyValue);
}

/* Delete attribute */
props.Remove("NumberAttr");
(props as IADCCommitable).Commit(); /* Commit only the custom properties without the
other repository fields */
```

Log Knowledge Base API

The log knowledge base contains settings for transforming data from original log formats to the repository format. The API does not work with predefined log definitions, which are completely out of its scope; it is designed only for user-defined logs.

To work with the log knowledge base, use the following interfaces:

- [IInTrustEventory](#)
- [IInTrustEventoryItemCollection](#)
- [IInTrustEventoryItem](#)

To begin working with the log knowledge base, get a collection of known organizations (**Organizations** method of the [IInTrustEnvironment](#) interface) and pick the necessary one. This involves working with the [IInTrustOrganizationCollection](#) interface. Organizations are discovered by an Active Directory query.

The [IInTrustOrganization3](#) that you get has the **Eventory** method, which provides access to the organization-wide log knowledge base.

For details about the format of rules for matching log events and mapping fields, see [Log Transformation Rule Format](#).

! **CAUTION:** If you modify the knowledge base for a specific log, this will invalidate all existing index data for that log in all repositories that contain the log. Indexed searches will no longer find this log's events gathered prior to the modification. Data gathered after the modification will be indexed correctly and be searchable.

If the unavailability of old data is not a problem for you, you don't have to do anything. Otherwise, you will need to recreate valid indexes for all repositories that contain the log. However, it is not feasible to recreate an index for a large production repository without taking it offline for a long time. If you need to experiment with log knowledge base editing, use a dedicated test organization and small repositories, which can be reindexed quickly.

For details about repository reindexing, see [Recreating the Index](#).

Example

```
static void GetFullEventory()
{
    IInTrustEnvironment env = new InTrustEnvironment();
    IInTrustServer server = env.ConnectToServer("8.8.8.8");
    IInTrustOrganization3 org = server.Organization;
    IInTrustEventory ev = org.Eventory;
    string eventory = ev.Eventory;
    Console.WriteLine("Full eventory : " + eventory);
}

static void AddNewLog()
{
    IInTrustEnvironment env = new InTrustEnvironment();
    IInTrustServer server = env.ConnectToServer("8.8.8.8");
    IInTrustOrganization3 org = server.Organization;
    IInTrustEventory ev = org.Eventory;
    IInTrustEventoryItemCollection logs = ev.Logs;
```

```

    IInTrustEventoryItem log = logs.Add("NewLog",
        @"<FieldInfo>
            <Fields>
                <Field FieldName = ""New_field"" DisplayName = ""NewField""
IsIndexed = ""true""></Field>
            </Fields>
            <EventRules>
                <Event EventID = ""701"">
                    <Field Name = ""Who"" Index = ""11""></Field>
                    <Field Name = ""What"" Index = ""12""></Field>
                    <Field Name = ""Object_Type"" Index = ""13""></Field>
                    <Field Name = ""Object_Name"" Index = ""14""></Field>
                </Event>
            </EventRules>
        </FieldInfo>");
}
static void GetLogAndChangeRule()
{
    IInTrustEnvironment env = new InTrustEnvironment();
    IInTrustServer server = env.ConnectToServer("8.8.8.8");
    IInTrustOrganization3 org = server.Organization;
    IInTrustEventory ev = org.Eventory;
    IInTrustEventoryItemCollection logs = ev.Logs;
    IInTrustEventoryItem log = logs.Item("NewLog");
    log.Rules = @"<FieldInfo>
        <Fields>
            <Field FieldName = ""New_field"" DisplayName = ""NewField"" IsIndexed =
""true""></Field>
        </Fields>
        <EventRules>
            <Event EventID = ""701"">
                <Field Name = ""Who"" Index = ""11""></Field>
            </Event>
        </FieldInfo>";
}
static void EnumLogs()
{
    IInTrustEnvironment env = new InTrustEnvironment();
    IInTrustServer server = env.ConnectToServer("8.8.8.8");
    IInTrustOrganization3 org = server.Organization;
    IInTrustEventory ev = org.Eventory;
    IInTrustEventoryItemCollection logs = ev.Logs;
    foreach (IInTrustEventoryItem cur_log in logs)
    {
        string log_name = cur_log.Name;
        string log_rule = cur_log.Rules;
        Console.WriteLine("Log name : " + log_name);
        Console.WriteLine("Log rule : " + log_rule);
    }
}
static void RemoveLog()
{
    IInTrustEnvironment env = new InTrustEnvironment();

```

```

IInTrustServer server = env.ConnectToServer("8.8.8.8");
    IInTrustOrganization3 org = server.Organization;
    IInTrustEventory ev = org.Eventory;
    IInTrustEventoryItemCollection logs = ev.Logs;
    logs.Remove("NewLog");
}
static void AddNewDataSource()
{
    IInTrustEnvironment env = new InTrustEnvironment();
    IInTrustServer server = env.ConnectToServer("8.8.8.8");
    IInTrustOrganization3 org = server.Organization;
    IInTrustEventory ev = org.Eventory;
    IInTrustEventoryItemCollection dataSources = ev.DataSources;
    IInTrustEventoryItem dataSource = dataSources.Add("{10000000-0000-0000-0000-0000-000000000001}",@"<FieldInfo>
<Fields>
    <Field FieldName = "New_field" DisplayName = "NewField" IsIndexed =
"true"></Field>
</Fields>
<EventRules>
    <Event EventID = "701">
        <Field Name = "Who" Index = "11"></Field>
        <Field Name = "What" Index = "12"></Field>
        <Field Name = "Object_Type" Index = "13"></Field>
        <Field Name = "Object_Name" Index = "14"></Field>
    </Event>
</EventRules>
</FieldInfo>");
}
static void GetDataSourceAndChangeRule()
{
    IInTrustEnvironment env = new InTrustEnvironment();
    IInTrustServer server = env.ConnectToServer("8.8.8.8");
    IInTrustOrganization3 org = server.Organization;
    IInTrustEventory ev = org.Eventory;
    IInTrustEventoryItemCollection dataSources = ev.DataSources;
    IInTrustEventoryItem dataSource = dataSources.Item("{10000000-0000-0000-0000-0000-000000000001}");
    dataSource.Rules = @"<FieldInfo>
    <Fields>
        <Field FieldName = "New_field" DisplayName = "NewField" IsIndexed =
"true"></Field>
    </Fields>
    <EventRules>
        <Event EventID = "701">
            <Field Name = "Who" Index = "11"></Field>
        </Event>
    </FieldInfo>";
}
static void EnumDataSources()
{
    IInTrustEnvironment env = new InTrustEnvironment();
    IInTrustServer server = env.ConnectToServer("8.8.8.8");

```

```

IInTrustOrganization3 org = server.Organization;
IInTrustEventory ev = org.Eventory;
IInTrustEventoryItemCollection dataSources = ev.DataSources;
foreach (IInTrustEventoryItem curDataSource in dataSources)
{
    string ds_name = curDataSource.Name;
    string ds_rule = curDataSource.Rules;
    Console.WriteLine("Data source name : " + ds_name);
    Console.WriteLine("Data source rule : " + ds_rule);
}
}
static void RemoveDataSources()
{
    IInTrustEnvironment env = new InTrustEnvironment();
    IInTrustServer server = env.ConnectToServer("8.8.8.8");
    IInTrustOrganization3 org = server.Organization;
    IInTrustEventory ev = org.Eventory;
    IInTrustEventoryItemCollection dataSources = ev.DataSources;
    dataSources.Remove("{10000000-0000-0000-0000-000000000001}");
}

```

i **NOTE:** In the functions that handle data sources, the data source name must be in GUID format; for example:

```
{10000000-0000-0000-0000-000000000001}
```

Log Transformation Rule Format

Log transformation rules are defined as XML. The structure of a rule is shown in the example below, which contains all of the tags and parameters available.

```

<FieldInfo>
  <Fields>
    <Field FieldName = "TTF" DisplayName = "TTest Field" IsIndexed = "true"></Field>
    <Field FieldName = "TTF2" DisplayName = "TTest Field 2" IsIndexed =
"true"></Field>
  </Fields>
  <EventRules>
    <Event EventID = "701">
      <Field Name = "TTF" Index = "1"></Field>
      <Field Name = "TTF2" Index = "3"></Field>
    </Event>
  </EventRules>
</FieldInfo>

```

Log events are matched by Event ID, and the **Field** tags specify how the original event fields are mapped to repository record fields. The **Index** parameter specifies the index of the target insertion string.

The following is a variation of the example above:

```

<FieldInfo>
  <Fields>
    <Field FieldName = "TTF" DisplayName = "TTest Field" IsIndexed =

```

```
"true"></Field>
  <Field FieldName = "TTF2" DisplayName = "TTest Field 2" IsIndexed =
"true"></Field>
</Fields>
<EventRules>
  <Field Name = "TTF" Index = "1"></Field>
  <Field Name = "TTF2" Index = "3"></Field>
</EventRules>
</FieldInfo>
```

In this second snippet, the rule applies to all event IDs in a log.

Enumerations

CustomizableCredentialsType
DomainEnumerationType
IndexBuilderType
IndexLocationType
ScriptLanguage
SiteCollectionType
SiteObjectType
SiteType

CustomizableCredentialsType

```
enum CustomizableCredentialsType
{
    CurrentCusomizableCredentials,
    DefaultCustomizableCredentials,
    CustomCustomizableCredentials
};
```

DomainEnumerationType

```
enum DomainEnumerationType
{
    CurrentDomainEnumeration,
    ComputerBrowserDomainEnumeration,
    ComputerListDomainEnumeration
};
```

IndexBuilderType

```
enum IndexBuilderType
{
    CurrentIndexBuilder,
    ServerIndexBuilder,
    SiteIndexBuilder
};
```

IndexLocationType

```
enum IndexLocationType
{
    CurrentIndexLocation,
    RepositoryIndexLocation,
    CustomIndexLocation
};
```

RepositoryCommitType

```
enum RepositoryCommitType
{
    ToRepositoryRepositoryCommitType,
    ToServerRepositoryCommitType
};
```

ScriptLanguage

```
enum ScriptLanguage
{
    ECMAScript,
    JScript,
    PSScript,
    VBScript
};
```

SiteCollectionType

```
enum SiteCollectionType
{
    VisibleSites,
    AllSites
};
```

SiteObjectType

```
enum SiteObjectType
{
    UnknownSiteObject,
    MsnWholeNetworkSiteObject,
    DomainSiteObject,
    ComputerSiteObject,
    IPAddressRangeSiteObject,
    ComputerListFileSiteObject,
    OrganizationalUnitSiteObject,
    ActiveDirectorySiteSiteObject,
    EnumerationScriptSiteObject,
    DomainControllersInDomainSiteObject,
    DomainControllersInActiveDirectorySiteSiteObject
};
```

SiteType

```
SiteType
{
    MicrosoftNetworkSite,
    UnixNetworkSite
};
```

Interfaces

The following is a list of all interfaces available with the InTrust repository API:

| Interface | Details |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| IActiveDirectorySiteSiteObject | Represents an Active Directory site from which to put computers in an InTrust site. |
| IBulkEventWithReadExtensions | Results of a repository search as an array of event_with_read_extensions structures. |
| IBulkRecord | Records packed into a single batch as an array of record structures for writing to the repository. |
| IBulkRecord2 | Results of a repository search as an array of record2 structures. |
| IComputerListDomainEnumeration | Represents the configuration of site membership enumeration through a computer list. |
| IComputerListFileSiteObject | Represents a file that contains a list of computers to include in an InTrust site. |
| IComputerSiteObject | Represents a single computer in an InTrust site. |
| ICookie | Acts as the owner of a repository search and can stop the search. |
| ICredentials | Represents a credential set used by InTrust for access to resources. |
| ICustomCredentials | Wrapper for a credential set used by InTrust for access to resources. |
| ICustomIndexLocation | Gets or sets the location of the index of a repository. |
| ICustomizableCredentials | This is a wrapper for a credential set used by InTrust for access to resources. |

| Interface | Details |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IDomainEnumeration | Indicates which method of domain enumeration is used for populating an InTrust site. |
| IDomainSiteObject | Represents computers in an InTrust site that are indicated by an Active Directory domain. |
| IEnumerationScriptSiteObject | Represents a script that enumerates the computers to include in an InTrust site. |
| IEventToRecordFormatter | Transforms event records to a representation suitable for insertion into a repository by the PutRecords2 method of IRepositoryRecordInserter . |
| IForwardingFilterCollection | Provides a collection of all search-based filters associated with an InTrust repository. |
| IForwardingSettings | Provides access to the event forwarding settings for a repository. |
| IIdleRepository | An <i>idle</i> repository has the correct structure on the file system, but is not registered with an InTrust organization. Currently, you can search in idle repositories using the repository API, but you cannot write to them. |
| IIdleRepositoryFactory | Creates an idle InTrust repository. |
| IIndexBuilder | Represents the index-building configuration for the repository. Indexing can be performed by an InTrust server or delegated to InTrust agents in a specific site. |
| IIndexingSettings | Provides access to the indexing configuration of a repository. |
| IIndexManager | Provides access to indexing-related operations. |
| IIndexManagerFactory | Creates an instance of IIndexManager for a production or idle repository. |

| Interface | Details |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| IInTrustEnvironment | See IInTrustEnvironment3 . |
| IInTrustEnvironment3 | Entry point for access to InTrust organizations, servers and repositories. |
| IInTrustEventory | Provides access to the log knowledge base, which contains rules that govern the transformation of log entries into repository and event records. |
| IInTrustEventoryItem | Represents an entry in the log knowledge base. |
| IInTrustEventoryItemCollection | Provides a collection of IInTrustEventoryItem interfaces. |
| IInTrustOrganization | Legacy interface supplanted by IInTrustOrganization3 . |
| IInTrustOrganization3 | Provides access to an InTrust organization. |
| IInTrustOrganizationCollection | Provides a collection of all available InTrust organizations. |
| IInTrustRepository3 | Provides the searching and writing capabilities of a repository. |
| IInTrustRepositoryCollection2 | Provides a collection of all repositories available in the InTrust organization. |
| IInTrustRepositorySearcher | Provides repository search capabilities. |
| IInTrustScriptCollection | Provides a collection of scripts used in InTrust operations. |
| IInTrustServer | Provides access to an InTrust server. |
| IInTrustServerCollection | Provides a collection of all InTrust servers in the InTrust organization. |
| IInTrustSiteCollection | Represents the sites in an InTrust organization. |
| IIPAddressRangeSiteObject | Represents a range of |

| Interface | Details |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| | IP addresses that are included in an InTrust site. |
| IJob2 | Represents a subset of the configuration of an InTrust job. |
| ITransportInfoCollection | Provides a collection of all transport types supported by InTrust event forwarding. |
| IMessageFormatCustomInfo | Represents a customizable script-based message formatter used for event forwarding. |
| IMessageFormatInfo | Provides access to the formatting configuration for forwarded events. |
| IMessageFormatTypeInfo | Defines a message format for forwarded events and can be used as a template for creating new formats. |
| IMessageFormatTypeInfoCollection | Provides a collection of all message format types supported by InTrust event forwarding. |
| IMicrosoftNetworkSite | Represents an InTrust site of the Microsoft Windows Network type. |
| IMultiRepositorySearcher | A container for search objects that lets you search in all of the specified repositories simultaneously. |
| IMultiRepositorySearcherFactory | Creates an instance of IMultiRepositorySearcher . |
| IObservable | Defines a provider for push-based notification. |
| IObserver | Provides a mechanism for receiving push-based notifications. You need to create your own implementation of this interface. |
| IOrganizationalUnitSiteObject | Represents an organizational unit from which to put computers in an InTrust site. |

| Interface | Details |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IProperty | Property attached to an InTrust repository. A property is a way to tag repositories for arbitrary purposes. |
| IPropertyCollection | Collection of properties associated with an InTrust repository. Access to the collections is gained through specialized methods of the IInTrustRepository3 interface (such as CustomAttributes). |
| IRepositoryRecordInserter | Provides write access to the repository that it is associated with and manages one or more IRepositoryRecordInserterLight interfaces, which do the actual writing. |
| IRepositoryRecordInserter2 | Provides write access to the repository that it is associated with and manages one or more IRepositoryRecordInserterLight interfaces, which do the actual writing. This method can submit records to a queue on the server or put them directly in the repository. |
| IRepositoryRecordInserterLight | Generates valid record structures from predefined and significant values and writes them to the repository. |
| IScript | Represents a script used in InTrust operations. |
| IScriptArgument | Represents an argument used with an InTrust site enumeration script. |
| IScriptArgumentCollection | Represents the arguments defined for an InTrust script. |
| IScriptParameter | Represents a customizable parameter defined for an InTrust script. |
| IScriptParameterCollection | Represents the parameters |

| Interface | Details |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | defined for an InTrust script. |
| ISite | Represents an InTrust site, which can be a regular site visible in InTrust Manager or a hidden internal site associated with a collection visible in InTrust Deployment Manager. |
| ISiteComputer | Represents a computer that is included in an InTrust site. |
| ISiteComputerCollection | Represents an InTrust site associated with a collection visible in InTrust Deployment Manager. |
| ISiteIndexBuilder | Represents the distributed indexing configuration for a repository. |
| ISiteObject | Represents a computer-specifying object that can be included in a site. |
| ISiteObjectCollection | Represents the computer-specifying objects included in a site. |
| ITask2 | Represents a subset of the configuration of an InTrust scheduled task. |
| IIndexBuilderAccess | Represents the security settings for performing repository indexing. |
| ITransportInfo | Represents a transport type supported by InTrust event forwarding. |
| ITransportInfoCollection | Provides a collection of all transport types supported by InTrust event forwarding. |

IActiveDirectorySiteSiteObject

Represents an Active Directory site from which to put computers in an InTrust site.

Methods

Domain (getter)

Returns the domain of the site.

Syntax

```
HRESULT Domain(  
    [out, retval]BSTR* bstrDomain  
);
```

Parameter

| Name | Type | Meaning |
|------------|-------|---------------------|
| bstrDomain | BSTR* | Domain of the site. |

Domain (setter)

Sets the domain of the site.

Syntax

```
HRESULT Domain(  
    [in]BSTR bstrDomain  
);
```

Parameter

| Name | Type | Meaning |
|------------|------|---------------------|
| bstrDomain | BSTR | Domain of the site. |

Site (getter)

Returns the name of the site.

Syntax

```
HRESULT Site(  
    [out, retval]BSTR* bstrSite  
);
```

Parameter

| Name | Type | Meaning |
|----------|-------|-------------------|
| bstrSite | BSTR* | Name of the site. |

Site (setter)

Sets the name of the site.

Syntax

```
HRESULT Site(  
    [in]BSTR bstrSite  
);
```

Parameter

| Name | Type | Meaning |
|----------|------|-------------------|
| bstrSite | BSTR | Name of the site. |

IBulkEventWithReadExtensions

Use this interface to represent the results of a repository search as an array of [event_with_read_extensions](#) structures.

Method

GetRecords

Gets records represented by [event_with_read_extensions](#) structures.

Syntax

```
GetRecords(  
    [out,retval] SAFEARRAY(struct event_with_read_extensions)* events  
);
```

Parameter

| Name | Type | Meaning |
|--------|----------------------------------------------------------------|-------------------------------------------------------------------------------|
| events | SAFEARRAY(struct event_with_read_extensions)* | Records represented by event_with_read_extensions structures. |

IBulkRecord

Represents a batch of repository records as an array of [record](#) structures for writing.

Method

GetRecords

Gets records that match search terms.

Syntax

```
GetRecords(  
    [out,retval] SAFEARRAY(struct record)* records  
);
```

Parameter

| Name | Type | Meaning |
|--------|---------------------------|----------------------------|
| events | SAFEARRAY(struct record)* | Packed repository records. |

IBulkRecord2

Represents the results of a repository search as an array of [record2](#) structures.

Method

GetRecords

Gets records that match search terms.

Syntax

```
GetRecords(  
    [out,retval] SAFEARRAY(struct record2)* records  
);
```

Parameter

| Name | Type | Meaning |
|--------|----------------------------|--------------------------------|
| events | SAFEARRAY(struct record2)* | Discovered repository records. |

IComputerListDomainEnumeration

Represents the configuration of site membership enumeration through a computer list.

Methods

IgnorePasswordsOlderThanInterval (getter)

Returns the maximum age (in days) for the passwords of the accounts of the computers in the site. If a computer account's password is older than that, the computer is excluded from the site.

Syntax

```
HRESULT IgnorePasswordsOlderThanInterval(  
    [out, retval] long* ignoreInterval  
);
```

Parameter

| Name | Type | Meaning |
|----------------|-------|-------------------------------|
| ignoreInterval | long* | Maximum password age in days. |

IgnorePasswordsOlderThanInterval (setter)

Sets the maximum age (in days) for the passwords of the accounts of the computers in the site. If a computer account's password is older than that, the computer is excluded from the site.

Syntax

```
HRESULT IgnorePasswordsOlderThanInterval(  
    [in] long ignoreInterval  
);
```

Parameter

| Name | Type | Meaning |
|----------------|------|-------------------------------|
| ignoreInterval | long | Maximum password age in days. |

IsIgnoringByOldPasswordsEnabled (getter)

Returns whether filtering by password age is enabled. If a computer account's password is older than a specified interval, the computer is excluded from the site.

Syntax

```
IsIgnoringByOldPasswordsEnabled(  
    [out, retval] VARIANT_BOOL* bIgnoringEnabled  
);
```

Parameter

| Name | Type | Meaning |
|------------------|---------------|-----------------------------------------------|
| bIgnoringEnabled | VARIANT_BOOL* | Whether filtering by password age is enabled. |

IsIgnoringByOldPasswordsEnabled (setter)

Sets whether filtering by password age is enabled. If a computer account's password is older than a specified interval, the computer is excluded from the site.

Syntax

```
HRESULT IsIgnoringByOldPasswordsEnabled(  
    [in] VARIANT_BOOL bIgnoringEnabled  
);
```

Parameter

| Name | Type | Meaning |
|------------------|--------------|-----------------------------------------------|
| bIgnoringEnabled | VARIANT_BOOL | Whether filtering by password age is enabled. |

IComputerListFileSiteObject

Represents a file that contains a list of computers to include in an InTrust site.

Methods

Path (getter)

Returns the path to the computer list file.

Syntax

```
HRESULT Path(  
    [out, retval] BSTR* bstrPath  
);
```

Parameter

| Name | Type | Meaning |
|----------|-------|---------------------------------|
| bstrPath | BSTR* | Path to the computer list file. |

Path (setter)

Sets the path to the computer list file.

Syntax

```
HRESULT Path(  
    [in]BSTR bstrPath  
);
```

Parameter

| Name | Type | Meaning |
|----------|------|---------------------------------|
| bstrPath | BSTR | Path to the computer list file. |

IComputerSiteObject

Represents a single computer in an InTrust site.

Methods

Computer (getter)

Gets the computer wrapped in this site object.

Syntax

```
HRESULT Computer(  
    [out, retval]BSTR* bstrComputer  
);
```

Parameter

| Name | Type | Meaning |
|--------------|-------|------------------------------|
| bstrComputer | BSTR* | Computer in the site object. |

Computer (setter)

Sets the computer wrapped in this site object.

Syntax

```
HRESULT Computer(  
    [in]BSTR bstrComputer  
);
```

Parameter

| Name | Type | Meaning |
|--------------|------|------------------------------|
| bstrComputer | BSTR | Computer in the site object. |

ICookie

Acts as the owner of a repository search and can stop the search.

Method

Stop

Stops the search that this interface is associated with. This method is called automatically when the last reference to the interface is destroyed.

! **CAUTION:** This is a synchronous method. It must never be called from notifications received through `IObserver`, because this will result in a deadlock.

Syntax

```
HRESULT Stop()
```

ICredentials

Represents a credential set used by InTrust for access to resources.

Methods

AccountName (getter)

Returns the account name.

Syntax

```
HRESULT AccountName(  
    [out, retval] BSTR* accountName  
);
```

Parameters

| Name | Type | Meaning |
|-------------|-------|---------------|
| accountName | BSTR* | Account name. |

AccountName (setter)

Sets the account name.

Syntax

```
HRESULT AccountName(  
    [in] BSTR accountName  
);
```

Parameters

| Name | Type | Meaning |
|-------------|------|---------------|
| accountName | BSTR | Account name. |

AccountPassword

Sets the password for the account.

Syntax

```
HRESULT AccountPassword(  
    [in] BSTR accountPassword  
);
```

Parameters

| Name | Type | Meaning |
|-----------------|------|---------------------------|
| accountPassword | BSTR | Password for the account. |

ICustomIndexLocation

Gets or sets the location of the index of a repository.

Methods

IndexPath (getter)

Returns the path to the index.

Syntax

```
HRESULT IndexPath(  
    [out, retval] BSTR* indexPath  
);
```

Parameter

| Name | Type | Meaning |
|-----------|-------|--------------------|
| indexPath | BSTR* | Path to the index. |

IndexPath (setter)

Returns the path to the index.

Syntax

```
HRESULT IndexPath(  
    [in] BSTR indexPath  
);
```

Parameter

| Name | Type | Meaning |
|-----------|------|--------------------|
| indexPath | BSTR | Path to the index. |

ICustomCredentials

This is a wrapper for a credential set used by InTrust for access to resources.

Method

Credentials

Provides access to the credential set.

Syntax

```
HRESULT Credentials(  
    [out, retval] ICredentials** ppCredentials  
);
```

Parameter

| Name | Type | Meaning |
|---------------|--------------------------------|-----------------|
| ppCredentials | ICredentials** | Credential set. |

ICustomizableCredentials

Indicates what type of credential set is used. If the result is **CustomCustomizableCredentials**, you can cast this to [ICustomCredentials](#) to work with the credential set.

Method

Type

Gets the type of credential set used.

Syntax

```
HRESULT Type(  
    [out, retval] enum CustomizableCredentialsType* pType  
);
```

Parameter

| Name | Type | Meaning |
|-------|---------------------------------------------------|------------------------------|
| pType | enum CustomizableCredentialsType* | Type of credential set used. |

IDomainEnumeration

Indicates which method of domain enumeration is used for populating an InTrust site. If the result is **ComputerListDomainEnumeration**, you can cast this to [IComputerListDomainEnumeration](#) to obtain and modify the configuration.

Method

Type

Gets the method of domain enumeration used for populating an InTrust site.

Syntax

```
HRESULT Type(  
    [out, retval] enum DomainEnumerationType* pType  
);
```

Parameter

| Name | Type | Meaning |
|-------|----------------------------------------------|---------------------------------------------|
| pType | enum DomainEnumerationType * | Which method of domain enumeration is used. |

IDomainSiteObject

Represents computers in an InTrust site that are indicated by an Active Directory domain.

Methods

Domain (getter)

Gets the domain that indicates the computers.

Syntax

```
HRESULT Domain(  
    [out, retval] BSTR* bstrDomain  
);
```

Parameter

| Name | Type | Meaning |
|------------|-------|--------------------------------------|
| bstrDomain | BSTR* | Domain that indicates the computers. |

Domain (setter)

Sets the domain that indicates the computers.

Syntax

```
RESULT Domain(  
    [in]BSTR bstrDomain  
);
```

Parameter

| Name | Type | Meaning |
|------------|------|--------------------------------------|
| bstrDomain | BSTR | Domain that indicates the computers. |

IEnumerationScriptSiteObject

Represents a script that enumerates the computers to include in an InTrust site.

Methods

Script (getter)

Returns the script that enumerates site computers.

Syntax

```
HRESULT Script(  
    [out, retval]IScript** ppScript  
);
```

Parameter

| Name | Type | Meaning |
|----------|---------------------------|----------------------------------------|
| ppScript | IScript** | Script that enumerates site computers. |

Script (setter)

Sets the script that enumerates site computers.

Syntax

```
HRESULT Script(  
    [in]IScript* pScript  
);
```

Parameter

| Name | Type | Meaning |
|---------|--------------------------|----------------------------------------|
| pScript | IScript* | Script that enumerates site computers. |

Name (getter)

Returns the name of the script.

Syntax

```
HRESULT Name(  
    [out, retval]BSTR* bstrName  
);
```

Parameter

| Name | Type | Meaning |
|----------|-------|---------------------|
| bstrName | BSTR* | Name of the script. |

Name (setter)

Sets the name of the script.

Syntax

```
HRESULT Script(  
    [in]BSTR bstrName  
);
```

Parameter

| Name | Type | Meaning |
|----------|------|---------------------|
| bstrName | BSTR | Name of the script. |

Arguments

Provides access to the arguments used with the script.

Syntax

```
HRESULT Arguments(  
    [out, retval]IScriptArgumentCollection** ppArguments  
);
```

Parameter

| Name | Type | Meaning |
|-------------|---------------------------------------------|---------------------------------|
| ppArguments | IScriptArgumentCollection** | Arguments used with the script. |

IEventToRecordFormatter

Transforms event records to a representation suitable for insertion into a repository by the **PutRecords2** method of [IRepositoryRecordInserter](#). For details about event records, see [Event Record Data Structures](#).

Method

Format

Performs the event-to-record transformation.

Syntax

```
HRESULT Format(  
    [in] SAFEARRAY(struct event_with_extensions) events,  
    [out, retval] IBulkRecord** ppBulkRecord  
);
```

Parameters

| Name | Type | Meaning |
|--------------|----------------------------------------------------------|--------------------------------------------|
| events | SAFEARRAY(struct event_with_extensions) | Event records to put into the repository. |
| ppBulkRecord | IBulkRecord** | Repository records prepared for insertion. |

IForwardingFilterCollection

Provides a collection of all search-based filters associated with an InTrust repository.

Methods

_NewEnum

Returns an enumerator for the collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------|------------------------|
| pVal | LPUNKNOWN* | Collection enumerator. |

Add

Adds a new filter based on a Repository Viewer search.

Syntax

```
HRESULT Add(  
    [in] BSTR bstrPath  
);
```

Parameter

| Name | Type | Meaning |
|----------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bstrPath | BSTR | Path to the Repository Viewer search to make the new filter from. At this time, an internal representation of the path is expected, and there is no usable way to look it up for a specific search. Later implementations should fix this. |

Remove

Removes the specified filter from the collection. To specify the filter, pass in the path to its corresponding Repository Viewer search.

Syntax

```
HRESULT Remove(  
    [in] BSTR bstrPath  
);
```

Parameter

| Name | Type | Meaning |
|----------|------|-------------------------------------------------------------------|
| bstrPath | BSTR | Path to the Repository Viewer search to make the new filter from. |

IForwardingSettings

Provides access to the event forwarding settings for a repository.

Methods

ForwardingEnabled (getter)

Returns whether event forwarding is enabled for the repository.

Syntax

```
HRESULT ForwardingEnabled(  
    [out, retval] VARIANT_BOOL* pForwardingEnabled  
);
```

Parameter

| Name | Type | Meaning |
|--------------------|---------------|---------------------------------------------------------|
| pForwardingEnabled | VARIANT_BOOL* | Whether event forwarding is enabled for the repository. |

ForwardingEnabled (setter)

Enables or disables event forwarding for the repository.

Syntax

```
HRESULT ForwardingEnabled(  
    [in] VARIANT_BOOL ForwardingEnabled  
);
```

Parameter

| Name | Type | Meaning |
|--------------------|--------------|-------------------------------------------------------------------|
| pForwardingEnabled | VARIANT_BOOL | Whether to enable or disable event forwarding for the repository. |

ForwardingFilters

Returns the collection of repository searches used as forwarding filters. Management of these filters is outside the scope of the InTrust SDK.

Syntax

```
HRESULT ForwardingFilters(  
    [out, retval] IForwardingFilterCollection** ppForwardingFilters  
);
```

Parameter

| Name | Type | Meaning |
|---------------------|-----------------------------------------------|-------------------------------------------------|
| ppForwardingFilters | IForwardingFilterCollection** | Repository searches used as forwarding filters. |

ForwardingServer (getter)

Returns the InTrust server that manages event forwarding from the repository.

Syntax

```
HRESULT ForwardingServer(  
    [out, retval] IInTrustServer3** ppForwardingServer  
);
```

Parameters

| Name | Type | Meaning |
|--------------------|-----------------------------------|-------------------------------------------------------------------|
| ppForwardingServer | IInTrustServer3** | InTrust server that manages event forwarding from the repository. |

ForwardingServer (setter)

Sets the InTrust server that manages event forwarding from the repository.

Syntax

```
HRESULT ForwardingServer(  
    [in] IInTrustServer3* pForwardingServer  
);
```

Parameters

| Name | Type | Meaning |
|-------------------|----------------------------------|-------------------------------------------------------------------|
| pForwardingServer | IInTrustServer3* | InTrust server that manages event forwarding from the repository. |

Host (getter)

Returns the name or IP address of the destination host for event forwarding.

Syntax

```
HRESULT Host(  
    [out, retval] BSTR* bstrHost  
);
```

Parameter

| Name | Type | Meaning |
|----------|-------|------------------------------------------------------------------|
| bstrHost | BSTR* | Name or IP address of the destination host for event forwarding. |

Host (setter)

Sets the name or IP address of the destination host for event forwarding.

Syntax

```
HRESULT Host(  
    [in] BSTR bstrHost  
);
```

Parameter

| Name | Type | Meaning |
|----------|------|------------------------------------------------------------------|
| bstrHost | BSTR | Name or IP address of the destination host for event forwarding. |

MessageFormat (getter)

Returns the details of the message format used for event forwarding from the repository.

Syntax

```
HRESULT MessageFormat(  
    [out, retval] IMessageFormatInfo** ppMessageFormatInfo  
);
```

Parameter

| Name | Type | Meaning |
|---------------------|--------------------------------------|------------------------------------------------------------------------------|
| ppMessageFormatInfo | IMessageFormatInfo** | Details of the message format used for event forwarding from the repository. |

MessageFormat (setter)

Sets the message format to use for event forwarding from the repository.

Syntax

```
HRESULT MessageFormat(  
    [in] IMessageFormatInfo* pMessageFormatInfo  
);
```

Parameter

| Name | Type | Meaning |
|--------------------|-------------------------------------|------------------------------------------------------------------------------|
| pMessageFormatInfo | IMessageFormatInfo* | Details of the message format used for event forwarding from the repository. |

Port (getter)

Returns the destination port for event forwarding.

Syntax

```
HRESULT Port(  
    [out, retval] BSTR* bstrPort  
);
```

Parameter

| Name | Type | Meaning |
|----------|-------|----------------------------------------|
| bstrPort | BSTR* | Destination port for event forwarding. |

Port (setter)

Sets the destination port for event forwarding.

Syntax

```
HRESULT Port(  
    [in] BSTR bstrPort  
);
```

Parameter

| Name | Type | Meaning |
|----------|------|----------------------------------------|
| bstrPort | BSTR | Destination port for event forwarding. |

TransportInfo (getter)

Returns the details of the transport selected for event forwarding from the repository.

Syntax

```
HRESULT Transport(  
    [out, retval] ITransportInfo** ppTransportInfo  
);
```

Parameter

| Name | Type | Meaning |
|-----------------|----------------------------------|--------------------------------------------------------------|
| ppTransportInfo | ITransportInfo** | Transport selected for event forwarding from the repository. |

TransportInfo (setter)

Sets the transport for event forwarding from the repository.

Syntax

```
HRESULT Transport(  
    [in] ITransportInfo* pTransportInfo  
);
```

Parameter

| Name | Type | Meaning |
|----------------|---------------------------------|--------------------------------------------------------------|
| pTransportInfo | ITransportInfo* | Transport selected for event forwarding from the repository. |

IdleRepository

Represents an idle repository. An *idle* repository has the correct structure on the file system, but is not registered with an InTrust organization. Currently, you can search in idle repositories using the repository API, but you cannot write to them.

Method

Searcher

Returns a searcher interface for the idle repository.

Syntax

```
HRESULT Searcher(  
    [in, optional] VARIANT pIndexManager,  
    [out, retval] IInTrustRepositorySearcher** ppSearcher);
```

Parameters

| Name | Type | Meaning |
|---------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| pIndexManager | VARIANT | Interface that contains details about the index to use for searching in the repository. See IIndexManager for details. |
| ppSearcher | IInTrustRepositorySearcher** | Searcher interface that you can supply your query to. |

IdleRepositoryFactory

Creates an idle InTrust repository. An *idle* repository has the correct structure on the file system, but is not registered with an InTrust organization.

Method

MakeIdleRepository

Returns an idle InTrust repository.

Syntax

```
HRESULT MakeIdleRepository(  
    [in] BSTR bstrPath,  
    [in] BSTR bstrUser,  
    [in] BSTR bstrPassword,  
    [out, retval] IIdleRepository **ppRepository);
```

Parameters

| Name | Type | Meaning |
|--------------|---------------------------------|----------------------------------------|
| bstrPath | BSTR | Search query. |
| bstrUser | BSTR | User account to use for the operation. |
| bstrPassword | BSTR | Password to use for the operation. |
| ppRepository | IIdleRepository | The newly-created idle repository. |

IIndexBuilder

Represents the index-building configuration for the repository. Indexing can be performed by an InTrust server or delegated to InTrust agents in a specific site. Offloading indexing to additional agents can help with InTrust server load balancing.

All this interface does is say what is used for building the index for the repository. If the type of builder is **SiteIndexBuilder**, then you can configure it by casting **IIndexBuilder** to [ISiteIndexBuilder](#) and working with its methods.

Method

Type

Syntax

```
HRESULT Type(  
    [out, retval] enum IndexBuilderType* pType  
);
```

Parameter

| Name | Type | Meaning |
|-------|----------------------------------------|---------------------------------------------|
| pType | enum IndexBuilderType* | What resources are used for index building. |

IIndexingSettings

Provides access to the indexing configuration of a repository.

Methods

IndexingServer (getter)

Returns the indexing server for the repository.

Syntax

```
HRESULT IndexingServer(  
    [out, retval] IInTrustServer3** ppIndexingServer  
);
```

Parameter

| Name | Type | Meaning |
|------------------|-----------------------------------|-------------------------------------|
| ppIndexingServer | IInTrustServer3** | Indexing server for the repository. |

IndexingServer (setter)

Sets the specified indexing server for the repository.

Syntax

```
HRESULT IndexingServer(  
    [in] IInTrustServer3* pIndexingServer  
);
```

Parameter

| Name | Type | Meaning |
|-----------------|----------------------------------|--------------------------------------------|
| pIndexingServer | IInTrustServer3* | Indexing server to set for the repository. |

IndexBuilder

Provides access to the index-building configuration for the repository. For details, see [IIndexBuilder](#).

Syntax

```
HRESULT IndexBuilder(  
    [in, defaultvalue(CurrentIndexBuilder)] enum IndexBuilderType,  
    [out, retval] IIndexBuilder** pIndexPathType  
);
```

Parameter

| Name | Type | Meaning |
|----------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | enum IndexBuilderType | Selects the method's operation mode: <ul style="list-style-type: none">Return the currently set index-building configurationSwitch to InTrust server indexingSwitch to delegated indexing by agents in an InTrust site |
| pIndexPathType | IIndexBuilder** | Index-building configuration for the repository. |

IndexLocation

Returns the location of the index for the repository.

Syntax

```
HRESULT IndexLocation(  
    [in, defaultvalue(CurrentIndexLocation)] enum IndexLocationType,  
    [out, retval] IIndexLocation** pIndexPathType  
);
```

Parameter

| Name | Type | Meaning |
|----------------------|----------------------------------------|-------------------------------------|
| CurrentIndexLocation | enum IndexLocationType | |
| pIndexPathType | IIndexLocation** | Indexing server for the repository. |

IsIndexingEnabled (getter)

Indicates whether indexing is enabled for the repository.

Syntax

```
HRESULT IsIndexingEnabled(  
    [out, retval] VARIANT_BOOL* bEnabled  
);
```

Parameter

| Name | Type | Meaning |
|----------|---------------|-------------------------------------------------|
| bEnabled | VARIANT_BOOL* | Whether indexing is enabled for the repository. |

IsIndexingEnabled (setter)

Enables or disables indexing for the repository.

Syntax

```
HRESULT IsIndexingEnabled(  
    [in] VARIANT_BOOL bEnabled  
);
```

Parameter

| Name | Type | Meaning |
|----------|--------------|-----------------------------------------------------------|
| bEnabled | VARIANT_BOOL | Whether to enable or disable indexing for the repository. |

IIndexLocation

Represents the location of the index, which can be a folder in the repository share, as by default, or a custom network share.

All this interface does is say whether the index is in the default or a custom location. If it is custom, cast the **IIndexLocation** instance to [ICustomIndexLocation](#) to get or set the path.

Method

Type

Syntax

```
HRESULT Type(  
    [out, retval] enum IndexLocationType* pType  
);
```

Parameter

| Name | Type | Meaning |
|-------|------------------------------------------|------------------------------------------------------|
| pType | enum IndexLocationType * | Where the index is located: default folder or share. |

IIndexManager

Provides access to indexing-related operations.

Methods

GetID

Returns the ID of the index manager.

Syntax

```
HRESULT GetID(  
    [out, retval] BSTR*  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|--------------------------|
| | BSTR* | ID of the index manager. |

Shutdown

Shuts down the index manager.

Syntax

```
HRESULT Shutdown();
```

IIndexManagerFactory

Creates an instance of [IIndexManager](#) for a production or idle repository.

Methods

GetRemoteIndexManager

Creates an [IIndexManager](#) instance for a production repository.

Syntax

```
HRESULT GetRemoteIndexManager(  
    [in] BSTR pszServerName,  
    [in] BSTR pszRepositoryIdentity,  
    [out] IIndexManager** ppManager  
);
```

Parameters

| Name | Type | Meaning |
|-----------------------|---------------------------------|-----------------------------------------------------------------------|
| pszServerName | BSTR | Name of an InTrust server in the same organization as the repository. |
| pszRepositoryIdentity | BSTR | ID of the production repository that you need. |
| ppManager | IIndexManager** | Index manager for the production repository. |

GetLocalIndexManager

Creates an [IIndexManager](#) instance for an idle repository.

Syntax

```
HRESULT GetLocalIndexManager(  
    [in] BSTR pszIndexPath,  
    [in] BSTR pszRepositoryPath,  
    [in] BSTR pszAccount,  
    [in] BSTR pszPassword,  
    [in] enum modeOpen mode,  
    [out, retval] IIndexManager**  
);
```

Parameters

| Name | Type | Meaning |
|-------------------|---------------------------------|-------------------------------------------------------|
| pszIndexPath | BSTR | Path to the index data for the idle repository. |
| pszRepositoryPath | BSTR | Path to the idle repository file structure. |
| pszAccount | BSTR | User name for access to the idle repository. |
| pszPassword | BSTR | Password for access to the idle repository. |
| mode | enum | MODE_OPEN = 0 MODE_CREATE = 1 |
| | IIndexManager** | Index manager to use for indexing-related operations. |

InTrustEnvironment

Entry point for access to InTrust organizations, servers and repositories. Whenever you obtain this legacy interface, you should cast it to [InTrustEnvironment3](#) and use that instead.

Methods

ConnectToServer

Provides access to the specified InTrust server.

! CAUTION: For this operation to succeed, the account you are using must be a member of the **AMS Readers** local group on the InTrust server you want to connect to. Alternatively, it can be an InTrust organization administrator. To configure this privilege for the account, do one of the following:

- In InTrust Deployment Manager, click **Manage | Configure Access**.
- In InTrust Manager, open the properties of the root node.

Syntax

```
HRESULT ConnectToServer(  
    [in] BSTR bstrServerBinding,  
    [out, retval] IInTrustServer** ppServer  
);
```

Parameters

| Name | Type | Meaning |
|-------------------|------------------|-----------------------------|
| bstrServerBinding | BSTR | Name of the InTrust server. |
| | IInTrustServer** | InTrust server interface. |

Organizations

Provides a collection of available InTrust organizations.

Syntax

```
HRESULT Organizations(  
    [out, retval] IInTrustOrganizationCollection** ppOrganization  
);
```

Parameter

| Name | Type | Meaning |
|----------------|----------------------------------|------------------------------------------------|
| ppOrganization | IInTrustOrganizationCollection** | Collection of available InTrust organizations. |

Eventory

Provides access to the log knowledge database associated with the InTrust organization.

Syntax

```
HRESULT Eventory(  
    [out, retval] IInTrustEventory **ppVal  
);
```

Parameter

| Name | Type | Meaning |
|-------|--------------------|------------------------------------------------------------------|
| ppVal | IInTrustEventory** | Log knowledge database associated with the InTrust organization. |

IInTrustEnvironment3

Entry point for access to InTrust organizations, servers and repositories.

Methods

ConnectToServer

Provides access to the specified InTrust server. The credentials of the current user are used for the operation.

! CAUTION: For this operation to succeed, the account you are using must be a member of the AMS Readers local group on the InTrust server you want to connect to. Alternatively, it can be an InTrust organization administrator. To configure this privilege for the account, do one of the following:

- In InTrust Deployment Manager, click Manage | Configure Access.
- In InTrust Manager, open the properties of the root node.

Syntax

```
HRESULT ConnectToServer(  
    [in] BSTR bstrServerBinding,  
    [out, retval] IInTrustServer** ppServer  
);
```

Parameters

| Name | Type | Meaning |
|-------------------|------------------|-----------------------------|
| bstrServerBinding | BSTR | Name of the InTrust server. |
| | IInTrustServer** | InTrust server interface. |

ConnectToServerLocal

Provides access to the InTrust server running locally.

Syntax

```
ConnectToServerLocal(  
    [out, retval] IInTrustServer** ppServer  
);
```

Parameters

| Name | Type | Meaning |
|----------|------------------|-----------------------------------------|
| ppServer | IInTrustServer** | Interface for the local InTrust server. |

ConnectToServerWithCredentials

Provides access to the specified InTrust server using the specified credentials.

Syntax

```
HRESULT ConnectToServerWithCredentials(  
    [in] BSTR bstrServerBinding,  
    [in] BSTR bstrUserName,  
    [in] BSTR bstrUserPassword,  
    [out, retval] IInTrustServer** ppServer);
```

Parameters

| Name | Type | Meaning |
|-------------------|------------------|----------------------------------------------------|
| bstrServerBinding | BSTR | Name of the InTrust server. |
| bstrUserName | BSTR | User name of the account to use for the operation. |
| bstrUserPassword | BSTR | Password of the account to use for the operation. |
| ppServer | IInTrustServer** | Interface for the InTrust server. |

Organizations

Provides a collection of available InTrust organizations.

Syntax

```
HRESULT Organizations(  
    [out, retval] IInTrustOrganizationCollection** ppOrganization  
);
```

Parameter

| Name | Type | Meaning |
|----------------|----------------------------------|------------------------------------------------|
| ppOrganization | IInTrustOrganizationCollection** | Collection of available InTrust organizations. |

IInTrustEventory

Provides access to the log knowledge base, which contains rules that govern the transformation of log entries into repository and event records.

Methods

Eventory

Returns a string representation of the log knowledge base.

Syntax

```
HRESULT Eventory(  
    [out, retval] BSTR* bstrEventory  
);
```

Parameters

| Name | Type | Meaning |
|--------------|-------|--------------------------------------------------|
| bstrEventory | BSTR* | String representation of the log knowledge base. |

Logs

Provides access to the log knowledge base entries through an [IInTrustEventoryItemCollection](#).

Syntax

```
HRESULT Logs(  
    [out, retval] IInTrustEventoryItemCollection** pVal  
);
```

Parameters

| Name | Type | Meaning |
|------|--------------------------------------------------|-----------------------------|
| pVal | IInTrustEventoryItemCollection** | Log knowledge base entries. |

DataSources

```
HRESULT DataSources(  
    [out, retval] IInTrustEventoryItemCollection** pVal  
);
```

Parameters

| Name | Type | Meaning |
|------|---------------------------------------------------|-----------------------------|
| pVal | IInTrustEventoryItemCollection ** | Log knowledge base entries. |

IInTrustEventoryItem

Represents an entry in the log knowledge base.

Methods

Name

Returns the name of the log knowledge database entry.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR* bstrName  
);
```

Parameter

| Name | Type | Meaning |
|----------|-------|-------------------------------------------|
| bstrName | BSTR* | Name of the log knowledge database entry. |

Rules (out parameter)

Returns the rules defined for the log knowledge database entry. For details about the rule format, see [Log Transformation Rule Format](#).

Syntax

```
HRESULT Rules(  
    [out, retval] BSTR* bstrRules  
);
```

Parameter

| Name | Type | Meaning |
|-----------|-------|-----------------------------------------------------------------------------------|
| bstrRules | BSTR* | Textual representation of the rules defined for the log knowledge database entry. |

Rules (in parameter)

Sets the rules defined for the log knowledge database entry. For details about the rule format, see [Log Transformation Rule Format](#).

Syntax

```
HRESULT Rules(  
    [in] BSTR bstrRules  
);
```

Parameter

| Name | Type | Meaning |
|-----------|------|-----------------------------------------------------------------------------------|
| bstrRules | BSTR | Textual representation of the rules defined for the log knowledge database entry. |

IInTrustEventoryItemCollection

Provides a collection of [IInTrustEventoryItem](#) interfaces.

Methods

Item

Gets a log knowledge base entry from the collection by name.

Syntax

```
HRESULT Item(  
    [in] BSTR bstrLogName,  
    [out, retval] IInTrustEventoryItem** ppEventoryItem  
);
```

Parameters

| Name | Type | Meaning |
|----------------|----------------------------------------|-------------------------------------------------------------------------------|
| bstrLogName | BSTR | Name of the log knowledge base entry. This name must exist in the collection. |
| ppEventoryItem | IInTrustEventoryItem** | The log knowledge base entry. |

_NewEnum

Returns an enumerator for the collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameters

| Name | Type | Meaning |
|------|------------|------------------------|
| pVal | LPUNKNOWN* | Collection enumerator. |

Add

Adds the specified entry.

Syntax

```
HRESULT Add(  
    [in] BSTR bstrItemName,  
    [in] BSTR bstrItemRules,  
    [out, retval] IInTrustEventoryItem** ppEventoryItem  
);
```

Parameters

| Name | Type | Meaning |
|----------------|------------------------|----------------------------------------------------|
| bstrItemName | BSTR | Name of the entry to add. The name must be unique. |
| bstrItemRules | BSTR | Textual definition of the entry. |
| ppEventoryItem | IInTrustEventoryItem** | The new log knowledge base entry. |

Remove

Removes an entry from the collection by name.

Syntax

```
HRESULT Remove(  
    [in] BSTR bstrItemName  
);
```

Parameter

| Name | Type | Meaning |
|--------------|------|------------------------------|
| bstrItemName | BSTR | Name of the entry to remove. |

IInTrustOrganization

Provides access to an InTrust organization.

i | **IMPORTANT:** This interface is deprecated. Before you start working with an organization, cast `IInTrustOrganization` to `IInTrustOrganization3`.

Methods

Name

Returns the name of the InTrust organization.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------|-----------------------------------|
| pVal | BSTR | Name of the InTrust organization. |

Servers

Provides access to a collection of the InTrust servers in an InTrust organization.

Syntax

```
HRESULT Servers(  
    [out, retval] IInTrustServerCollection** ppVal  
);
```

Parameter

| Name | Type | Meaning |
|-------|-----------------------------------------|--------------------------------|
| ppVal | <code>IInTrustServerCollection**</code> | Collection of InTrust servers. |

Repositories

Provides access to a collection of repositories in an InTrust organization.

Syntax

```
HRESULT Repositories(  
    [out, retval] IInTrustRepositoryCollection** ppVal  
);
```

Parameter

| Name | Type | Meaning |
|-------|--------------------------------|-----------------------------|
| ppVal | IInTrustRepositoryCollection** | Collection of repositories. |

Eventory

Provides access to the organization-wide log knowledge base. See [Log Knowledge Base API](#) for details.

Syntax

```
HRESULT Eventory(  
    [out, retval] IInTrustEventory **ppVal  
);
```

Parameter

| Name | Type | Meaning |
|-------|--------------------|---------------------|
| ppVal | IInTrustEventory** | Log knowledge base. |

IInTrustOrganization3

Provides access to an InTrust organization.

Methods

Eventory

Provides access to the log knowledge database associated with the InTrust organization.

Syntax

```
HRESULT Eventory(  
    [out, retval] IInTrustEventory **ppVal  
);
```

Parameter

| Name | Type | Meaning |
|-------|--------------------|------------------------------------------------------------------|
| ppVal | IInTrustEventory** | Log knowledge database associated with the InTrust organization. |

Name

Returns the name of the InTrust organization.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------|-----------------------------------|
| pVal | BSTR | Name of the InTrust organization. |

Servers

Provides access to a collection of the InTrust servers in an InTrust organization.

Syntax

```
HRESULT Servers(  
    [out, retval] IInTrustServerCollection** ppVal  
);
```

Parameter

| Name | Type | Meaning |
|-------|--------------------------------------------|--------------------------------|
| ppVal | IInTrustServerCollection** | Collection of InTrust servers. |

Scripts

Provides access to a collection of scripts that perform various InTrust operations.

Syntax

```
HRESULT Scripts(  
    [out, retval] IInTrustScriptCollection** ppScripts  
);
```

Parameters

| Name | Type | Meaning |
|-----------|--------------------------------------------|-----------------------------------------|
| ppScripts | IInTrustScriptCollection** | Collection of InTrust-specific scripts. |

Sites

Provides access to a collection of sites in an InTrust organization.

Syntax

```
HRESULT Sites(  
    [in, defaultvalue(VisibleSites)] enum SiteCollectionType,  
    [out, retval] IInTrustSiteCollection** ppSites  
);
```

Parameters

| Name | Type | Meaning |
|---------|------------------------------------------|-------------------------------------------------------------------------------------------------------|
| | enum SiteCollectionType | Whether you want all sites (including internally-used hidden ones) or just the general-purpose sites. |
| ppSites | IInTrustSiteCollection** | Collection of InTrust sites. |

Repositories2

Provides access to a collection of repositories in an InTrust organization.

Syntax

```
HRESULT Repositories2(  
    [out, retval] IInTrustRepositoryCollection2** ppVal  
);
```

Parameter

| Name | Type | Meaning |
|-------|-------------------------------------------------|-----------------------------|
| ppVal | IInTrustRepositoryCollection2** | Collection of repositories. |

Eventory

Provides access to the organization-wide log knowledge base. See [Log Knowledge Base API](#) for details.

Syntax

```
HRESULT Eventory(  
    [out, retval] IInTrustEventory **ppVal  
);
```

Parameter

| Name | Type | Meaning |
|-------|------------------------------------|---------------------|
| ppVal | IInTrustEventory** | Log knowledge base. |

IInTrustOrganizationCollection

Provides a collection of all available InTrust organizations.

Methods

Item

Provides access to the specified InTrust organization.

Syntax

```
HRESULT Item(  
    [in] BSTR bstrOrganizationIdentity,  
    [out, retval] IInTrustOrganization**  
);
```

Parameters

| Name | Type | Meaning |
|--------------------------|----------------------------------------|-----------------------------------|
| bstrOrganizationIdentity | BSTR | Name of the InTrust organization. |
| | IInTrustOrganization** | InTrust organization interface. |

_NewEnum

Returns an enumerator for the collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------|-----------------------------------|
| pVal | LPUNKNOWN* | Enumerated InTrust organizations. |

IInTrustRepository3

Provides the searching and writing capabilities of a repository.

Methods

CustomAttributes

Provides access to the collection (instance of [IPropertyCollection](#)) of custom attributes attached to an InTrust repository (instances of [IProperty](#)).

Syntax

```
HRESULT CustomAttributes(  
    [out, retval] IPropertyCollection** pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|---------------------------------------|-------------------------------------------------------------|
| pVal | IPropertyCollection** | Collection of custom attributes attached to the repository. |

Description (getter)

Returns the description of the repository.

Syntax

```
HRESULT Description(  
    [out, retval] BSTR* description  
);
```

Parameter

| Name | Type | Meaning |
|-------------|-------|--------------------------------|
| description | BSTR* | Description of the repository. |

Description (setter)

Sets the description of the repository.

Syntax

```
HRESULT Description(  
    [in] BSTR description  
);
```

Parameter

| Name | Type | Meaning |
|-------------|------|--------------------------------|
| description | BSTR | Description of the repository. |

ForwardingSettings

Provides access to the forwarding settings for the repository.

Syntax

```
HRESULT ForwardingSettings(  
    [out, retval] IForwardingSettings** ppForwardingSettings  
);
```

Parameter

| Name | Type | Meaning |
|----------------------|---------------------------------------|-----------------------------------------|
| ppForwardingSettings | IForwardingSettings** | Forwarding settings for the repository. |

ID

Returns the GUID of the repository.

Syntax

```
HRESULT ID(  
    [out, retval] GUID* pID  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|-------------------------|
| pID | GUID* | GUID of the repository. |

IndexingSettings

Provides access to the indexing settings for the repository.

Syntax

```
HRESULT IndexingSettings(  
    [out, retval] IIndexingSettings** ppIndexingSettings  
);
```

Parameter

| Name | Type | Meaning |
|--------------------|-------------------------------------|---------------------------------------|
| ppIndexingSettings | IIndexingSettings** | Indexing settings for the repository. |

Insertter

Provides an interface for inserting records into the repository. For details, see [Writing Records](#).

CAUTION: A new inserter is created every time you call this method. It's likely that you only want a single unique inserter per repository for all of your writing activity.

Syntax

```
HRESULT Inserter(  
    [out, retval] IRepositoryRecordInserter** ppInserter  
);
```

Parameter

| Name | Type | Meaning |
|------------|---------------------------------------------|---------------------------------------------------------------------|
| ppInserter | IRepositoryRecordInserter** | Record-inserting interface associated with a particular repository. |

Name (getter)

Returns the name of the repository.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR* name  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|--------------------------------------------------------------------------------|
| name | BSTR* | Name of the repository. The name is not necessarily unique in an organization. |

Name (setter)

Sets the name of the repository.

Syntax

```
HRESULT Name(  
    [in] BSTR name  
);
```

Parameter

| Name | Type | Meaning |
|------|------|--------------------------------------------------------------------------------|
| name | BSTR | Name of the repository. The name is not necessarily unique in an organization. |

Path (getter)

Returns the path to the repository.

Syntax

```
HRESULT Path(  
    [out, retval] BSTR* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|-----------------------------------------------------|
| pVal | BSTR* | UNC path to the share that contains the repository. |

Path (setter)

Sets the path to the repository.

Syntax

```
HRESULT Path(  
    [in] BSTR path  
);
```

Parameter

| Name | Type | Meaning |
|------|------|-----------------------------------------------------|
| path | BSTR | UNC path to the share that contains the repository. |

RepositoryAccessCredentials

Provides access to the credentials that are used for access to the repository.

Syntax

```
HRESULT RepositoryAccessCredentials(  
    [in, defaultvalue(CurrentCustomizableCredentials)] enum  
    CustomizableCredentialsType type,  
    [out, retval] ICustomizableCredentials** pCredentials  
);
```

Parameters

| Name | Type | Meaning |
|--------------|--------------------------------------------------|---------------------------------------------------------|
| type | enum CustomizableCredentialsType | How repository access is currently configured. |
| pCredentials | ICustomizableCredentials** | Credentials that are used for access to the repository. |

Searcher

Provides an interface for finding records in the repository. For details, see [Getting Records](#).

Syntax

```
HRESULT Searcher(  
    [out, retval] IInTrustRepositorySearcher** ppSearcher  
);
```

Parameter

| Name | Type | Meaning |
|------------|--------------------------------------------|------------------------------------------------------------------------|
| ppSearcher | IInTrustRepositorySearcher | A searcher interface that accepts search queries and provides results. |

Statuses

Gets the status enumerator for the repository

Syntax

```
HRESULT Statuses(  
    [out, retval] IInTrustRepositoryStatusCollection** pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------------------------------------------------|---------------------------------------|
| pVal | IInTrustRepositoryStatusCollection** | Status enumerator for the repository. |

IInTrustRepositoryCollection2

Provides a collection of all repositories available in the InTrust organization.

Methods

Item

Gets the specified repository from a collection.

Syntax

```
HRESULT Item(  
    [in] BSTR bstrRepositoryIdentity,  
    [out, retval] IInTrustRepository3**  
);
```

Parameters

| Name | Type | Meaning |
|------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bstrRepositoryIdentity | BSTR | A piece of information that identifies the repository. You can specify one of the following: <ul style="list-style-type: none">Repository nameRepository GUIDUNC path to the repository share The Item method tries to interpret its input parameter as each of these identifiers, in that order. |
| | IInTrustRepository3** | Repository interface. |

Add

Creates a repository with the specified properties in a collection. To configure additional properties, use the methods of the repository that is returned.

Note that even though this makes the repository a member of the collection, it will not actually be created until you have called the Commit method of its [IInTrustRepository3](#) interface.

! CAUTION: For this operation to succeed, the account you are using must be an InTrust organization administrator. To configure this privilege for the account, do one of the following:

- In InTrust Deployment Manager, click Manage | Configure Access.
- In InTrust Manager, open the properties of the root node.

Syntax

```
HRESULT Add(  
    [in] BSTR bstrRepositoryName,  
    [in] BSTR bstrRepositoryPath,  
    [out, retval] IInTrustRepository3**  
);
```

Parameters

| Name | Type | Meaning |
|--------------------|---------------------------------------|-----------------------------------------------------|
| bstrRepositoryName | BSTR | Name of the repository. |
| bstrRepositoryPath | BSTR | UNC path to the share that contains the repository. |
| | IInTrustRepository3** | Repository interface. |

Remove

Removes the specified repository from the collection, deleting it from the InTrust organization configuration.

CAUTION: For this operation to succeed, the account you are using must be an InTrust organization administrator. To configure this privilege for the account, do one of the following:

- In InTrust Deployment Manager, click **Manage | Configure Access**.
- In InTrust Manager, open the properties of the root node.

Syntax

```
HRESULT Remove(  
    [in] BSTR bstrRepositoryIdentity  
);
```

Parameter

| Name | Type | Meaning |
|------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bstrRepositoryIdentity | BSTR | A piece of information that identifies the repository. You can specify one of the following: <ul style="list-style-type: none">• Repository name• Repository GUID• UNC path to the repository share The Item method tries to interpret its input parameter as each of these identifiers, in that order. |

_NewEnum

References repositories in a collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------|-----------------------------------------|
| pVal | LPUNKNOWN* | Access to repositories in a collection. |

InTrustRepositorySearcher

Provides repository search capabilities.

Method

Search

Runs a repository search using the specified query.

Syntax

```
HRESULT ID(  
    [in] BSTR rel_query,  
    [out] IObservable** search_object  
);
```

Parameters

| Name | Type | Meaning |
|---------------|-----------------------------|---------------------------------------------------------|
| rel_query | BSTR | Search query. |
| search_object | IObservable | Interface that you can subscribe to for search results. |

InTrustScriptCollection

Provides a collection of scripts used in InTrust operations.

Methods

_NewEnum

Returns an enumerator for the collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------|------------------------|
| pVal | LPUNKNOWN* | Collection enumerator. |

Add

Adds a script to the collection.

Syntax

```
HRESULT Add(  
    [out, retval] IScript** ppScript  
);
```

Parameters

| Name | Type | Meaning |
|----------|-----------|----------------------------------|
| ppScript | IScript** | Script to add to the collection. |

Item

Gets a script from the collection by name.

Syntax

```
HRESULT Item(  
    [in] BSTR bstrScript,  
    [out, retval] IScript** ppScript  
);
```

Parameters

| Name | Type | Meaning |
|------------|-----------|----------------------|
| bstrScript | BSTR | Name of the script. |
| ppScript | IScript** | The returned script. |

Remove

Removes the script with the specified name from the collection.

Syntax

```
HRESULT Remove(  
    [in] BSTR bstrScript  
);
```

Parameter

| Name | Type | Meaning |
|------------|------|-------------------------------|
| bstrScript | BSTR | Name of the script to remove. |

InTrustServer

Provides access to an InTrust server.

Methods

Name

Returns the name of the InTrust server.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|-----------------------------|
| pVal | BSTR* | Name of the InTrust server. |

Organization

The InTrust organization that the InTrust server belongs to.

Syntax

```
HRESULT Organization(  
    [out, retval] IInTrustOrganization** pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------------------|---------------------------------|
| pVal | IInTrustOrganization** | InTrust organization interface. |

IInTrustServer3

Provides access to an InTrust server.

Methods

ForwardingSupport

Returns the global event forwarding configuration.

Syntax

```
HRESULT ForwardingSupport(  
    [out, retval] IInTrustServerForwardingSupport** ppVal  
);
```

Parameter

| Name | Type | Meaning |
|-------|-----------------------------------|----------------------------------------|
| ppVal | IInTrustServerForwardingSupport** | Global event forwarding configuration. |

ID

Returns the ID of the InTrust server.

Syntax

```
HRESULT ID(  
    [out, retval] BSTR* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|---------------------------|
| pVal | BSTR* | ID of the InTrust server. |

Name

Returns the name of the InTrust server.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|-----------------------------|
| pVal | BSTR* | Name of the InTrust server. |

Organization

The InTrust organization that the InTrust server belongs to.

Syntax

```
HRESULT Organization(  
    [out, retval] IInTrustOrganization** pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------------------|---------------------------------|
| pVal | IInTrustOrganization** | InTrust organization interface. |

Version

Returns the InTrust Server version.

Syntax

```
HRESULT Version(  
    [out, retval] BSTR* pVersion  
);
```

Parameter

| Name | Type | Meaning |
|----------|-------|-------------------------|
| pVersion | BSTR* | InTrust Server version. |

IInTrustServerCollection

Provides a collection of all InTrust servers in the InTrust organization.

Methods

Item

Provides access to the specified InTrust server.

Syntax

```
HRESULT Item(  
    [in] BSTR bstrServerIdentity,  
    [out, retval] IInTrustServer**  
);
```

Parameters

| Name | Type | Meaning |
|--------------------|----------------------------------|-----------------------------|
| bstrServerIdentity | BSTR | Name of the InTrust server. |
| | IInTrustServer** | InTrust server interface. |

_NewEnum

References InTrust servers in a collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------|-----------------------------|
| pVal | LPUNKNOWN* | Enumerated InTrust servers. |

InTrustServerForwardingSupport

Provides access to global InTrust event forwarding settings.

Methods

SupportedMessageFormats

Returns the message formats that InTrust supports for event forwarding.

Syntax

```
HRESULT SupportedMessageFormats(  
    [out, retval] IMessageFormatTypeInfoCollection** ppMessageFormats  
);
```

Parameter

| Name | Type | Meaning |
|------------------|----------------------------------------------------|-------------------------------------------------------------|
| ppMessageFormats | IMessageFormatTypeInfoCollection** | Message formats that InTrust supports for event forwarding. |

SupportedTransports

Returns the transports that InTrust event forwarding supports.

Syntax

```
HRESULT SupportedTransports(  
    [out, retval] ITransportInfoCollection** ppTransports  
);
```

Parameter

| Name | Type | Meaning |
|--------------|--------------------------------------------|----------------------------------------------------|
| ppTransports | ITransportInfoCollection** | Transports that InTrust event forwarding supports. |

InTrustSiteCollection

Represents the sites in an InTrust organization.

Methods

_NewEnum

Returns an enumerator for the collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------|------------------------|
| pVal | LPUNKNOWN* | Collection enumerator. |

Add

Adds a site to the collection.

Syntax

```
HRESULT Add(  
    [in] enum SiteType site,  
    [out, retval] ISite**  
);
```

Parameters

| Name | Type | Meaning |
|------|-------------------------------|------------------------------------|
| site | enum SiteType | What kind of site to add. |
| | ISite** | The site to add to the collection. |

Item

Gets a site from the collection by identity.

Syntax

```
HRESULT Item(  
    [in] BSTR siteIdentity,  
    [out, retval] ISite**  
);
```

Parameters

| Name | Type | Meaning |
|--------------|-------------------------|------------------------------------------------------------------------|
| siteIdentity | BSTR | Identity of the site. The method accepts site display names and GUIDs. |
| | ISite** | The returned site. |

Remove

Removes the site with the specified identity from the collection.

Syntax

```
HRESULT Remove(  
    [in] BSTR siteIdentity  
);
```

Parameter

| Name | Type | Meaning |
|--------------|------|----------------------------------------------------------------------------------|
| siteIdentity | BSTR | Identity of the site to remove. The method accepts site display names and GUIDs. |

IIPAddressRangeSiteObject

Represents a range of IP addresses that are included in an InTrust site.

Methods

FromIPAddress (getter)

Returns the starting IP address in the range.

Syntax

```
HRESULT FromIPAddress(  
    [out, retval]BSTR* bstrIPAddress  
);
```

Parameters

| Name | Type | Meaning |
|---------------|-------|-----------------------------------|
| bstrIPAddress | BSTR* | Starting IP address in the range. |

FromIPAddress (setter)

Sets the starting IP address in the range.

Syntax

```
HRESULT FromIPAddress(  
    [in]BSTR bstrIPAddress  
);
```

Parameters

| Name | Type | Meaning |
|---------------|------|-----------------------------------|
| bstrIPAddress | BSTR | Starting IP address in the range. |

ToIPAddress (getter)

Returns the ending IP address in the range.

Syntax

```
HRESULT ToIPAddress(  
    [out, retval]BSTR* bstrIPAddress  
);
```

Parameters

| Name | Type | Meaning |
|---------------|-------|---------------------------------|
| bstrIPAddress | BSTR* | Ending IP address in the range. |

ToIPAddress (setter)

Sets the ending IP address in the range.

Syntax

```
HRESULT ToIPAddress(  
    [in]BSTR bstrIPAddress  
);
```

Parameters

| Name | Type | Meaning |
|---------------|------|---------------------------------|
| bstrIPAddress | BSTR | Ending IP address in the range. |

IJob2

Represents a subset of the configuration of an InTrust job.

Method

JobCredentials

Provides access to the credentials that the job uses for access to the resources it requires.

Syntax

```
HRESULT JobCredentials(  
    [in, defaultvalue(CurrentCusomizableCredentials)] enum  
    CustomizableCredentialsType type,  
    [out, retval] ICustomizableCredentials** ppCredentials  
);
```

Parameters

| Name | Type | Meaning |
|---------------|--------------------------------------------------|----------------------------------------|
| type | enum CustomizableCredentialsType | What kind of credential set is used. |
| ppCredentials | ICustomizableCredentials** | Definition of the credential set used. |

IMessageFormatCustomInfo

Represents a customizable script-based message formatter used for event forwarding.

Methods

Data (getter)

Returns the custom script that implements the functionality of the formatter.

Syntax

```
HRESULT Data(  
    [out, retval] BSTR* bstrData  
);
```

Parameters

| Name | Type | Meaning |
|----------|-------|-------------------------------------------------------------------|
| bstrData | BSTR* | Custom script that implements the functionality of the formatter. |

Data (setter)

Supplies the custom script that implements the functionality of the formatter.

Syntax

```
HRESULT Data(  
    [in] BSTR bstrData  
);
```

Parameters

| Name | Type | Meaning |
|----------|------|-------------------------------------------------------------------|
| bstrData | BSTR | Custom script that implements the functionality of the formatter. |

IMessageFormatInfo

Provides access to the formatting configuration for forwarded events.

Methods

MessageFormatType

Returns the configuration of message format.

Syntax

```
HRESULT MessageFormatType(  
    [out, retval] IMessageFormatTypeInfo** ppMessageFormatTypeInfo  
);
```

Parameter

| Name | Type | Meaning |
|-------------------------|------------------------------------------|--------------------------------------|
| ppMessageFormatTypeInfo | IMessageFormatTypeInfo** | Configuration of the message format. |

Name

Returns the display name of the message format.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR* val  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|-------------------------------------|
| val | BSTR* | Display name of the message format. |

IMessageFormatTypeInfo

Defines a message format for forwarded events and can be used as a template for creating new formats.

Methods

CreateMessageFormat

Returns a new message format item.

Syntax

```
HRESULT CreateMessageFormat(  
    [out, retval] IMessageFormatInfo** ppMessageFormat  
);
```

Parameters

| Name | Type | Meaning |
|-----------------|--------------------------------------|------------------------------------------|
| ppMessageFormat | IMessageFormatInfo** | New message format for forwarded events. |

GUID

Returns the GUID of the message format.

Syntax

```
HRESULT GUID(  
    [out, retval] BSTR* GUID  
);
```

Parameters

| Name | Type | Meaning |
|------|-------|-----------------------------|
| GUID | BSTR* | GUID of the message format. |

IsCustomizable

Returns whether this is a customizable script-based message format.

Syntax

```
HRESULT IsCustomizable(  
    [out, retval] VARIANT_BOOL* val  
);
```

Parameters

| Name | Type | Meaning |
|------|---------------|-------------------------------------------------------------|
| val | VARIANT_BOOL* | Whether this is a customizable script-based message format. |

Name

Returns the display name of the message format.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR* val  
);
```

Parameters

| Name | Type | Meaning |
|------|-------|-------------------------------------|
| val | BSTR* | Display name of the message format. |

IMessageFormatTypeInfoCollection

Provides a collection of all message format types supported by InTrust event forwarding.

Methods

_NewEnum

Returns an enumerator for the collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------|------------------------|
| pVal | LPUNKNOWN* | Collection enumerator. |

Item

Gets a message format type from the collection by GUID.

Syntax

```
HRESULT Item(  
    [in] BSTR GUID,  
    [out, retval] IMessageFormatTypeInfo**  
);
```

Parameters

| Name | Type | Meaning |
|------|------------------------------------------|----------------------------------|
| GUID | BSTR | GUID of the message format type. |
| | IMessageFormatTypeInfo** | The message format type. |

IMicrosoftNetworkSite

Represents an InTrust site of the Microsoft Windows Network type.

Methods

AgentAccessCredentials

Provides access to the credentials used for running the agent service.

Syntax

```
HRESULT AgentAccessCredentials(  
    [in, defaultvalue(CurrentCustomizableCredentials)] enum  
    CustomizableCredentialsType,  
    [out, retval] ICustomizableCredentials** pCredentials  
);
```

Parameters

| Name | Type | Meaning |
|--------------|--------------------------------------------------|-------------------------------------|
| | enum CustomizableCredentialsType | What kind of credential set to use. |
| pCredentials | ICustomizableCredentials** | Credential set to use. |

DomainEnumeration

Provides access to the choice of domain enumeration method for sites to use.

Syntax

```
HRESULT DomainEnumeration(  
    [in, defaultvalue(CurrentDomainEnumeration)] enum DomainEnumerationType,  
    [out, retval] IDomainEnumeration** pDomainEnumeration  
);
```

Parameters

| Name | Type | Meaning |
|--------------------|--------------------------------------------|------------------------------------------------|
| | enum DomainEnumerationType | What kind of domain enumeration method to use. |
| pDomainEnumeration | IDomainEnumeration ** | Choice of domain enumeration mechanism. |

InstallAgentsAutomatically (getter)

Returns whether automatic installation of agents on the site computers is enabled.

Syntax

```
HRESULT InstallAgentsAutomatically(  
    [out, retval] VARIANT_BOOL* pInstallAutomatically  
);
```

Parameter

| Name | Type | Meaning |
|-----------------------|---------------|----------------------------------------------------------------------------|
| pInstallAutomatically | VARIANT_BOOL* | Whether automatic installation of agents on the site computers is enabled. |

InstallAgentsAutomatically (setter)

Sets whether automatic installation of agents on the site computers is enabled.

Syntax

```
HRESULT InstallAgentsAutomatically(  
    [in] VARIANT_BOOL pInstallAutomatically  
);
```

Parameter

| Name | Type | Meaning |
|-----------------------|--------------|----------------------------------------------------------------------------|
| pInstallAutomatically | VARIANT_BOOL | Whether automatic installation of agents on the site computers is enabled. |

SiteAccessCredentials

Provides access to the credentials used for site enumeration and installation of agents on site computers.

Syntax

```
HRESULT SiteAccessCredentials(  
    [in, defaultvalue(CurrentCusomizableCredentials)] enum  
    CustomizableCredentialsType,  
    [out, retval] ICustomizableCredentials** pCredentials  
);
```

Parameters

| Name | Type | Meaning |
|--------------|--------------------------------------------------|-------------------------------------|
| | enum CustomizableCredentialsType | What kind of credential set to use. |
| pCredentials | ICustomizableCredentials** | Credential set to use. |

IMultiRepositorySearcher

A container for search objects that lets you search in all of the specified repositories simultaneously.

CAUTION: This container is optimized for shared use. Therefore, it is strongly recommended that you create only one `IMultiRepositorySearcher` and reuse it rather than creating different `IMultiRepositorySearcher` instances for different search queries and sets of repositories.

Methods

MakeMultiSearchObject

Creates a search object that uses multiple repositories at once.

Syntax

```
HRESULT MakeMultiSearchObject(  
    [in] BSTR rel_query,  
    [in] SAFEARRAY(IDispatch) psaSeachers,  
    [out, retval] IObservable** search_object  
);
```

Parameters

| Name | Type | Meaning |
|-------------|----------------------|-----------------------------------------------------------------|
| rel_query | BSTR | Search query. |
| psaSeachers | SAFEARRAY(IDispatch) | Searcher interfaces for the repositories you want to search in. |

| Name | Type | Meaning |
|---------------|-------------------------------|-----------------------------------------------|
| search_object | IObservable** | Interface that provides search functionality. |

IMultiRepositorySearcherFactory

Creates an instance of [IMultiRepositorySearcher](#).

CreateMultiRepositorySearcher

Creates the [IMultiRepositorySearcher](#).

Syntax

```
HRESULT CreateMultiRepositorySearcher(
    [in] VARIANT eventory_xml,
    [out, retval] IMultiRepositorySearcher** rep_searcher
);
```

Parameters

| Name | Type | Meaning |
|--------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| eventory_xml | VARIANT | String representation of the log knowledge base to use with the multi-repository searches. To use the fallback knowledge base, specify null . |
| rep_searcher | IMultiRepositorySearcher** | The searcher interface capable of working with multiple repositories at once. |

IObservable

Defines a provider for push-based notification.

Method

Subscribe

Syntax

```
HRESULT Subscribe(  
    [in] IObserver* observer,  
    [out] ICookie** cookie  
);
```

Parameters

| Name | Type | Meaning |
|----------|------------|----------------------------------------|
| observer | IObserver* | Source of push-based notifications. |
| cookie | ICookie** | Keeps the search active while present. |

IObserver

Provides a mechanism for receiving push-based notifications. You need to create your own implementation of this interface.

Methods

OnDone

Notifies the observer that the provider has finished sending push-based notifications.

Syntax

```
void OnDone();
```

OnError

Notifies the observer that the provider has experienced an error condition.

Syntax

```
void OnError(  
    [in] HRESULT hr,  
    [in] BSTR description  
);
```

Parameters

| Name | Type | Meaning |
|-------------|---------|-----------------------------------------|
| hr | HRESULT | Operation result. |
| description | BSTR | Additional information about the error. |

OnNext

Provides the observer with new data.

Syntax

```
void OnNext(  
    [in] IUnknown* data  
);
```

Parameter

| Name | Type | Meaning |
|------|-----------|---------------------------------------|
| data | IUnknown* | The current notification information. |

IOrganizationalUnitSiteObject

Represents an organizational unit from which to put computers in an InTrust site.

Methods

CanonicalName (getter)

Returns the canonical name of the organizational unit.

Syntax

```
HRESULT CanonicalName(  
    [out, retval]BSTR* bstrCanonicalName  
);
```

Parameter

| Name | Type | Meaning |
|-------------------|-------|--------------------------------------------|
| bstrCanonicalName | BSTR* | Canonical name of the organizational unit. |

CanonicalName (setter)

Sets the canonical name of the organizational unit.

Syntax

```
HRESULT CanonicalName(  
    [in]BSTR bstrCanonicalName  
);
```

Parameter

| Name | Type | Meaning |
|-------------------|------|--------------------------------------------|
| bstrCanonicalName | BSTR | Canonical name of the organizational unit. |

DistinguishedName (getter)

Returns the distinguished name of the organizational unit.

Syntax

```
HRESULT DistinguishedName(  
    [out, retval]BSTR* bstrDistinguishedName  
);
```

Parameter

| Name | Type | Meaning |
|-----------------------|-------|------------------------------------------------|
| bstrDistinguishedName | BSTR* | Distinguished name of the organizational unit. |

DistinguishedName (setter)

Sets the distinguished name of the organizational unit.

Syntax

```
HRESULT DistinguishedName(  
    [in]BSTR bstrDistinguishedName  
);
```

Parameter

| Name | Type | Meaning |
|-----------------------|------|------------------------------------------------|
| bstrDistinguishedName | BSTR | Distinguished name of the organizational unit. |

Domain (getter)

Returns the domain of the organizational unit.

Syntax

```
HRESULT Domain(  
    [out, retval]BSTR* bstrDomain  
);
```

Parameter

| Name | Type | Meaning |
|------------|-------|------------------------------------|
| bstrDomain | BSTR* | Domain of the organizational unit. |

Domain (setter)

Sets the domain of the organizational unit.

Syntax

```
HRESULT Domain(  
    [in]BSTR bstrDomain  
);
```

Parameter

| Name | Type | Meaning |
|------------|------|------------------------------------|
| bstrDomain | BSTR | Domain of the organizational unit. |

IProperty

Represents a property attached to an InTrust repository. A property is a way to tag repositories for arbitrary purposes.

Methods

PropertyName (setter)

Sets the name of the property.

Syntax

```
HRESULT PropertyName(  
    [in] BSTR pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------|----------------------------------------------------------------------------------------------------------------------|
| pVal | BSTR | Name of the property. The name must be unique in the property collection (see IPropertyCollection). |

PropertyValue (getter)

Returns the value of the property.

Syntax

```
HRESULT PropertyValue(  
    [out, retval] VARIANT *pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|----------|------------------------|
| pVal | VARIANT* | Value of the property. |

PropertyValue (setter)

Sets the value of the property.

Syntax

```
HRESULT PropertyValue(  
    [in] VARIANT pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|---------|------------------------|
| pVal | VARIANT | Value of the property. |

PropertyName

Returns the name of the property.

i **NOTE:** There is no setter method for the name of a property. Instead of renaming an existing property, you need to create a new one in the property collection ([IPropertyCollection](#)) and assign it the value you need. The old property can be deleted using the collection's **Remove** method.

Syntax

```
HRESULT PropertyName(  
    [out, retval] BSTR *pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|-----------------------|
| pVal | BSTR* | Name of the property. |

IPropertyCollection

Represents a collection of properties associated with an InTrust repository. Access to the collections is gained through specialized methods of the [IInTrustRepository3](#) interface (such as **CustomAttributes** and **ForwardingProperties**), which filter the available properties by purpose.

Methods

Item

Gets a property from the collection by name.

Syntax

```
HRESULT Item(  
    [in] BSTR bstrPropertyName,  
    [out, retval] IProperty** ppProperty  
);
```

Parameters

| Name | Type | Meaning |
|------------------|-----------------------------|---------------------------------------------------------------|
| bstrPropertyName | BSTR | Name of the property. This name must exist in the collection. |
| ppProperty | IProperty** | The property. |

_NewEnum

Returns an enumerator for the collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameters

| Name | Type | Meaning |
|------|------------|------------------------|
| pVal | LPUNKNOWN* | Collection enumerator. |

Set

Sets the specified property if it exists or creates it if it doesn't.

Syntax

```
HRESULT Set(  
    [in] BSTR bstrPropertyName,  
    [in] VARIANT varPropertyValue  
);
```

Parameters

| Name | Type | Meaning |
|------------------|------|-------------------------------------------------------|
| bstrPropertyName | BSTR | Name of the property to add. The name must be unique. |
| varPropertyValue | BSTR | The value to set. |

Remove

Removes a property from the collection by name.

Syntax

```
HRESULT Remove(  
    [in] BSTR bstrPropertyName  
);
```

Parameter

| Name | Type | Meaning |
|------------------|------|---------------------------------|
| bstrPropertyName | BSTR | Name of the property to remove. |

IRepositoryRecordInserter

Provides write access to the repository that it is associated with and manages one or more [IRepositoryRecordInserterLight](#) interfaces, which do the actual writing. For each [IRepositoryRecordInserterLight](#), it also stores predefined field values that are the same in all records written by that [IRepositoryRecordInserterLight](#). Incoming records are pushed to the repository at regular intervals. However, you can force an immediate write by calling the **Commit** method.

Methods

BindFields

Sets the values of the path-specifying fields for records that will be written to the same repository file.

Syntax

```
HRESULT BindFields(  
    [in] tags path,  
    [out, retval] IRepositoryRecordInserterLight**  
);
```

Parameters

| Name | Type | Meaning |
|------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| path | tags | The field record values that you specify here are supposed to be the same for all records generated by the IRepositoryRecordInserterLight that will be initialized. |
| | IRepositoryRecordInserterLight** | Record-inserting interface with some record field values predefined. |

PutRecords

Writes the specified records to the repository asynchronously.

Syntax

```
HRESULT PutRecords(  
    [in] SAFEARRAY(struct record) records  
);
```

Parameter

| Name | Type | Meaning |
|---------|-------------------------------------------|-----------------------------------|
| records | SAFEARRAY(struct record) | Records to put in the repository. |

PutRecords2

Writes the specified records to the repository asynchronously. This method is similar to **PutRecords**, except the type of the input parameter. Using the [IBulkRecord](#) interface for input makes it possible to write event records converted by [IEventToRecordFormatter](#). For details, see [Event Record Data Structures](#).

Syntax

```
HRESULT PutRecords2(  
    [in] IBulkRecord* pBulkRecord  
);
```

Parameter

| Name | Type | Meaning |
|---------|-------------------------------------------|---------------------------------------------------------------------|
| records | IBulkRecord * pBulkRecord | Records (normally, converted from events) to put in the repository. |

Commit

Performs all deferred record writes synchronously.

! **CAUTION:** This operation is resource-intensive and should not be used needlessly. For example, committing after each record is strongly discouraged. InTrust commits records automatically every 60 seconds.

Forcing a commit is acceptable in situations like the following:

- You need to confirm that a batch of events or records has safely arrived in the repository.
- You are writing events or records out of order. See the corresponding note in [Writing Events](#).

Syntax

```
HRESULT Commit();
```

Return Values

| Name | Value | Meaning |
|--------------------------------------------|------------|----------------------------------------------------------------|
| ITRT_E_COMMIT_TO_INTERMEDIATE_STORE_FAILED | 0x8ADD1002 | Cannot commit records to intermediate store on InTrust server. |
| ITRT_E_COMMIT_TO_REPOSITORY_FAILED | 0x8ADD1003 | Cannot commit records to repository. |
| ITRT_E_COMMIT_IN_PROGRESS | 0x8ADD1004 | Commit is still in progress. |

IRepositoryRecordInserter2

Provides write access to the repository that it is associated with and manages one or more [IRepositoryRecordInserterLight](#) interfaces, which do the actual writing. For each [IRepositoryRecordInserterLight](#), it also stores predefined field values that are the same in all records written by that [IRepositoryRecordInserterLight](#).

Incoming records are pushed to the repository at regular intervals. However, you can force an immediate write by calling the **Commit** method.

Methods

BindFields

Sets the values of the path-specifying fields for records that will be written to the same repository file.

Syntax

```
HRESULT BindFields(  
    [in] tags path,  
    [out, retval] IRepositoryRecordInserterLight**  
);
```

Parameters

| Name | Type | Meaning |
|------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| path | tags | The field record values that you specify here are supposed to be the same for all records generated by the IRepositoryRecordInserterLight that will be initialized. |
| | IRepositoryRecordInserterLight** | Record-inserting interface with some record field values predefined. |

PutRecords

Writes the specified records to the repository asynchronously.

Syntax

```
HRESULT PutRecords(  
    [in] SAFEARRAY(struct record) records  
);
```

Parameter

| Name | Type | Meaning |
|---------|-------------------------------------------|-----------------------------------|
| records | SAFEARRAY(struct record) | Records to put in the repository. |

PutRecords2

Writes the specified records to the repository asynchronously. This method is similar to **PutRecords**, except the type of the input parameter. Using the [IBulkRecord](#) interface for input makes it possible to write event records converted by [IEventToRecordFormatter](#). For details, see [Event Record Data Structures](#).

Syntax

```
HRESULT PutRecords2(  
    [in] IBulkRecord* pBulkRecord  
);
```

Parameter

| Name | Type | Meaning |
|---------|-------------------------------------------|---------------------------------------------------------------------|
| records | IBulkRecord * pBulkRecord | Records (normally, converted from events) to put in the repository. |

Commit

Performs all deferred record writes synchronously.

! **CAUTION:** This operation is resource-intensive and should not be used needlessly. For example, committing after each record is strongly discouraged. InTrust commits records automatically every 60 seconds.

Forcing a commit is acceptable in situations like the following:

- You need to confirm that a batch of events or records has safely arrived in the repository.
- You are writing events or records out of order. See the corresponding note in [Writing Events](#).

Syntax

```
HRESULT Commit();
```

Return Values

| Name | Value | Meaning |
|--------------------------------------------|------------|----------------------------------------------------------------|
| ITRT_E_COMMIT_TO_INTERMEDIATE_STORE_FAILED | 0x8ADD1002 | Cannot commit records to intermediate store on InTrust server. |
| ITRT_E_COMMIT_TO_REPOSITORY_FAILED | 0x8ADD1003 | Cannot commit records to repository. |
| ITRT_E_COMMIT_IN_PROGRESS | 0x8ADD1004 | Commit is still in progress. |

Commit2

Performs deferred record writes. This method either submits records to a queue on the server or puts them directly in the repository, depending on the argument. Using

[RepositoryCommitType::ToRepositoryRepositoryCommitType](#) as the argument is equivalent to calling the [Commit](#) method.

! **CAUTION:** Direct writes to the repository are resource-intensive and should not be used needlessly. For example, committing after each record is strongly discouraged. InTrust commits records automatically every 60 seconds.

Forcing a commit is acceptable in situations like the following:

- You need to confirm that a batch of events or records has safely arrived in the repository.
- You are writing events or records out of order. See the corresponding note in [Writing Events](#).

Syntax

```
HRESULT Commit2(  
    [in, defaultvalue(ToRepositoryRepositoryCommitType)] RepositoryCommitType  
    commitType  
);
```

Parameter

| Name | Type | Meaning |
|------------|--------------------------------------|----------------------------------------------------------------------------------------------|
| commitType | RepositoryCommitType | Whether to queue the committed records on the server or put them directly in the repository. |

Return Values if RepositoryCommitType::ToRepositoryRepositoryCommitType is Used

| Name | Value | Meaning |
|--------------------------------------------|------------|----------------------------------------------------------------|
| ITRT_E_COMMIT_TO_INTERMEDIATE_STORE_FAILED | 0x8ADD1002 | Cannot commit records to intermediate store on InTrust server. |
| ITRT_E_COMMIT_TO_REPOSITORY_FAILED | 0x8ADD1003 | Cannot commit records to repository. |
| ITRT_E_COMMIT_IN_PROGRESS | 0x8ADD1004 | Commit is still in progress. |

IRepositoryRecordInserterLight

Generates valid record structures from predefined and significant values and writes them to the repository.

i **NOTE:** [IRepositoryRecordInserterLight](#) or [IRepositoryRecordInserter](#): when to use which?
Use [IRepositoryRecordInserterLight](#) if you need to write large numbers of records with coinciding values in specific fields. Otherwise, using [IRepositoryRecordInserter](#) should be more efficient.

Method

PutRecords

Syntax

```
HRESULT PutRecords(  
    [in] SAFEARRAY(struct contents) recordFields  
);
```

Parameter

| Name | Type | Meaning |
|--------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| recordFields | SAFEARRAY (struct contents) | Field value structures to convert to records. Missing fields will be filled in based on the tags structure instance associated with this IRepositoryRecordInserterLight . |

IScript

Represents a script used in InTrust operations.

Methods

Description (getter)

Returns the description of the script.

Syntax

```
HRESULT Description(  
    [out, retval] BSTR* description  
);
```

Parameter

| Name | Type | Meaning |
|-------------|-------|----------------------------|
| description | BSTR* | Description of the script. |

Description (setter)

Sets the description of the script.

Syntax

```
HRESULT Description(  
    [in] BSTR description  
);
```

Parameter

| Name | Type | Meaning |
|-------------|------|----------------------------|
| description | BSTR | Description of the script. |

ID

Returns the ID of the script.

Syntax

```
HRESULT ID(  
    [out, retval] BSTR* pID  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|-------------------|
| pID | BSTR* | ID of the script. |

Language (getter)

Returns which language the script is in.

Syntax

```
HRESULT Language(  
    [out, retval] enum ScriptLanguage* language  
);
```

Parameter

| Name | Type | Meaning |
|----------|---------------------------------------|----------------------------------|
| language | enum ScriptLanguage * | Which language the script is in. |

Language (setter)

Sets which language the script is in.

Syntax

```
HRESULT Language(  
    [in] enum ScriptLanguage language  
);
```

Parameter

| Name | Type | Meaning |
|----------|-------------------------------------|----------------------------------|
| language | enum ScriptLanguage | Which language the script is in. |

Name (getter)

Returns the name of the script.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR *name  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|---------------------|
| name | BSTR* | Name of the script. |

Name (setter)

Sets the name of the script.

Syntax

```
HRESULT Name(  
    [in] BSTR name  
);
```

Parameter

| Name | Type | Meaning |
|------|------|---------------------|
| name | BSTR | Name of the script. |

Parameters

Provides access to a collection of the script's parameters.

Syntax

```
HRESULT Parameters(  
    [out, retval] IScriptParameterCollection** ppParameters  
);
```

Parameter

| Name | Type | Meaning |
|--------------|----------------------------------------------|----------------------------------------|
| ppParameters | IScriptParameterCollection** | Collection of the script's parameters. |

Script (getter)

Returns the script source code.

Syntax

```
HRESULT Script(  
    [out, retval] BSTR* script  
);
```

Parameter

| Name | Type | Meaning |
|--------|-------|---------------------|
| script | BSTR* | Script source code. |

Script (setter)

Overwrites the script source code.

Syntax

```
HRESULT Script(  
    [in] BSTR script  
);
```

Parameters

| Name | Type | Meaning |
|--------|------|---------------------|
| script | BSTR | Script source code. |

IScriptArgument

Represents an argument used with an InTrust site enumeration script.

Methods

Description

Returns the description of the argument.

Syntax

```
HRESULT Description(  
    [out, retval] BSTR* description  
);
```

Parameter

| Name | Type | Meaning |
|-------------|-------|------------------------------|
| description | BSTR* | Description of the argument. |

ID

Returns the ID of the argument.

Syntax

```
HRESULT ID(  
    [out, retval] BSTR* pID  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|---------------------|
| pID | BSTR* | ID of the argument. |

IsCustom

Returns whether this is a custom argument.

Syntax

```
HRESULT IsCustom(  
    [out, retval] VARIANT_BOOL* bIsCustom  
);
```

Parameter

| Name | Type | Meaning |
|-----------|---------------|------------------------------------|
| bIsCustom | VARIANT_BOOL* | Whether this is a custom argument. |

Name

Returns the name of the argument.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR *name  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|-----------------------|
| name | BSTR* | Name of the argument. |

Value (getter)

Returns the value of the argument.

Syntax

```
HRESULT Value(  
    [out, retval] BSTR* value  
);
```

Parameter

| Name | Type | Meaning |
|-------|-------|------------------------|
| value | BSTR* | Value of the argument. |

Value (setter)

Sets the value of the argument.

Syntax

```
HRESULT Value(  
    [in] BSTR value  
);
```

Parameter

| Name | Type | Meaning |
|-------|------|------------------------|
| value | BSTR | Value of the argument. |

IScriptArgumentCollection

Represents the arguments defined for an InTrust script.

Methods

_NewEnum

Returns an enumerator for the collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameter

| Name | Type | Meaning |
|-------------|-------------|------------------------|
| pVal | LPUNKNOWN* | Collection enumerator. |

Item

Gets an argument from the collection by name.

Syntax

```
HRESULT Item(  
    [in] BSTR bstrArgumentName,  
    [out, retval] IScriptArgument** ppArgument  
);
```

Parameters

| Name | Type | Meaning |
|------------------|-----------------------------------|------------------------|
| bstrArgumentName | BSTR | Name of the argument |
| ppArgument | IScriptArgument** | The returned argument. |

IScriptParameter

Represents a customizable parameter defined for an InTrust script.

Methods

DefaultValue (getter)

Returns the default value of the parameter.

Syntax

```
HRESULT DefaultValue(  
    [out, retval] BSTR* bstrDefaultValue  
);
```

Parameter

| Name | Type | Meaning |
|------------------|-------|---------------------------------|
| bstrDefaultValue | BSTR* | Default value of the parameter. |

DefaultValue (setter)

Sets the default value for the parameter.

Syntax

```
HRESULT DefaultValue(  
    [in] BSTR bstrDefaultValue  
);
```

Parameter

| Name | Type | Meaning |
|------------------|------|---------------------------------|
| bstrDefaultValue | BSTR | Default value of the parameter. |

Description (getter)

Returns the description of the parameter.

Syntax

```
HRESULT Description(  
    [out, retval] BSTR* bstrDescription  
);
```

Parameter

| Name | Type | Meaning |
|-----------------|-------|-------------------------------|
| bstrDescription | BSTR* | Description of the parameter. |

Description (setter)

Sets the description of the parameter.

Syntax

```
HRESULT Description(  
    [in] BSTR bstrDescription  
);
```

Parameter

| Name | Type | Meaning |
|-----------------|------|-------------------------------|
| bstrDescription | BSTR | Description of the parameter. |

ID

Returns the ID of the script parameter.

Syntax

```
HRESULT ID(  
    [out, retval] BSTR* bstrID  
);
```

Parameter

| Name | Type | Meaning |
|--------|-------|-----------------------------|
| bstrID | BSTR* | ID of the script parameter. |

Name (getter)

Returns the name of the parameter.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR* bstrName  
);
```

Parameter

| Name | Type | Meaning |
|----------|-------|------------------------|
| bstrName | BSTR* | Name of the parameter. |

Name (setter)

Sets the name of the parameter.

Syntax

```
HRESULT Name(  
    [in] BSTR bstrName  
);
```

Parameter

| Name | Type | Meaning |
|----------|------|------------------------|
| bstrName | BSTR | Name of the parameter. |

IScriptParameterCollection

Represents the parameters defined for an InTrust script.

Methods

_NewEnum

Returns an enumerator for the collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------|------------------------|
| pVal | LPUNKNOWN* | Collection enumerator. |

Add

Adds a parameter to the collection.

Syntax

```
HRESULT Add(  
    [out, retval] IScriptParameter** ppParameter  
);
```

Parameters

| Name | Type | Meaning |
|-------------|------------------------------------|-------------------------------------|
| ppParameter | IScriptParameter** | Parameter to add to the collection. |

Item

Gets a parameter from the collection by name.

Syntax

```
HRESULT Item(  
    [in] BSTR bstrParameterName,  
    [out, retval] IScriptParameter** ppParameter  
);
```

Parameters

| Name | Type | Meaning |
|-------------------|------------------------------------|-------------------------|
| bstrParameterName | BSTR | Name of the parameter. |
| ppParameter | IScriptParameter** | The returned parameter. |

Remove

Removes the parameter with the specified name from the collection.

Syntax

```
HRESULT Remove(  
    [in] BSTR bstrParameterName  
);
```

Parameter

| Name | Type | Meaning |
|-------------------|------|----------------------------------|
| bstrParameterName | BSTR | Name of the parameter to remove. |

ISite

Represents an InTrust site, which can be a regular site visible in InTrust Manager or a hidden internal site associated with a collection visible in InTrust Deployment Manager.

To work with methods that are specific to sites of the Microsoft Windows Network type, cast this to [IMicrosoftNetworkSite](#)

Methods

Description (getter)

Returns the description of the site.

Syntax

```
HRESULT Description(  
    [out, retval]BSTR* bstrDescription  
);
```

Parameter

| Name | Type | Meaning |
|-----------------|-------|--------------------------|
| bstrDescription | BSTR* | Description of the site. |

Description (setter)

Sets the description of the site.

Syntax

```
HRESULT Description(  
    [in]BSTR bstrDescription  
);
```

Parameter

| Name | Type | Meaning |
|-----------------|------|--------------------------|
| bstrDescription | BSTR | Description of the site. |

EnumerationPeriod (getter)

Returns the interval (in hours) between site enumerations that refresh the site membership.

Syntax

```
HRESULT EnumerationPeriod(  
    [out, retval] long* pEnumerationPeriod  
);
```

Parameter

| Name | Type | Meaning |
|--------------------|-------|---------------------------------------------------------------------------------|
| pEnumerationPeriod | long* | Interval (in hours) between site enumerations that refresh the site membership. |

EnumerationPeriod (setter)

Sets the interval (in hours) between site enumerations that refresh the site membership.

Syntax

```
HRESULT EnumerationPeriod(  
    [in] long enumerationPeriod  
);
```

Parameter

| Name | Type | Meaning |
|--------------------|------|---------------------------------------------------------------------------------|
| pEnumerationPeriod | long | Interval (in hours) between site enumerations that refresh the site membership. |

ID

Returns the ID of the site.

Syntax

```
HRESULT ID(  
    [out, retval] BSTR* pID  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|-----------------|
| pID | BSTR* | ID of the site. |

Name (getter)

Returns the name of the site.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR* bstrName  
);
```

Parameter

| Name | Type | Meaning |
|----------|-------|-------------------|
| bstrName | BSTR* | Name of the site. |

Name (setter)

Sets the name of the site.

Syntax

```
HRESULT Name(  
    [in]BSTR bstrName  
);
```

Parameter

| Name | Type | Meaning |
|----------|------|-------------------|
| bstrName | BSTR | Name of the site. |

Server (getter)

Returns the InTrust server that manages the site.

Syntax

```
HRESULT Server(  
    [out, retval] IInTrustServer3** ppServer  
);
```

Parameter

| Name | Type | Meaning |
|----------|-----------------------------------|---------------------------------------|
| ppServer | IInTrustServer3** | InTrust server that manages the site. |

Server (setter)

Sets the InTrust server that manages the site.

Syntax

```
HRESULT Server(  
    [in] IInTrustServer3* pServer  
);
```

Parameter

| Name | Type | Meaning |
|---------|----------------------------------|---------------------------------------|
| pServer | IInTrustServer3* | InTrust server that manages the site. |

SiteObjects

Provides access to the collection of objects in the site.

Syntax

```
HRESULT SiteObjects(  
    [out, retval] ISiteObjectCollection** pSiteObjects  
);
```

Parameter

| Name | Type | Meaning |
|--------------|-----------------------------------------|------------------------------------|
| pSiteObjects | ISiteObjectCollection** | Collection of objects in the site. |

Type

Returns the type of the site.

Syntax

```
HRESULT Type(  
    [out, retval] enum SiteType* pSiteType  
);
```

Parameter

| Name | Type | Meaning |
|-----------|--------------------------------|-------------------|
| pSiteType | enum SiteType* | Type of the site. |

ISiteComputer

Represents a computer that is included in an InTrust site.

Methods

AccessName

Returns the access name of the computer. This is either the IP address or the same as the name returned by the **OriginalName** method.

Syntax

```
HRESULT AccessName(  
    [out, retval] BSTR* pbstrName  
);
```

Parameter

| Name | Type | Meaning |
|-----------|-------|------------------------------|
| pbstrName | BSTR* | Access name of the computer. |

AgentID

Returns the ID of the agent installed on the computer.

Syntax

```
HRESULT AgentID(  
    [out, retval] BSTR* pbstrAgentID  
);
```

Parameter

| Name | Type | Meaning |
|--------------|-------|--------------------------------------------|
| pbstrAgentID | BSTR* | ID of the agent installed on the computer. |

Alive

Returns whether the computer is treated as active by the InTrust server.

Syntax

```
HRESULT Alive(  
    [out, retval] VARIANT_BOOL* pvbAlive  
);
```

Parameter

| Name | Type | Meaning |
|----------|---------------|------------------------------------------------------------------|
| pvbAlive | VARIANT_BOOL* | Whether the computer is treated as active by the InTrust server. |

IPAddress

Returns the IP address of the computer.

Syntax

```
HRESULT IPAddress(  
    [out, retval] long* lIP  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|-----------------------------|
| IIP | long* | IP address of the computer. |

Name

Returns the name of the computer, as shown, for example, in the system properties in Windows.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR* pbstrName  
);
```

Parameter

| Name | Type | Meaning |
|-----------|-------|-----------------------|
| pbstrName | BSTR* | Name of the computer. |

OfficialHostName

Returns the official host name of the computer. This is either the FQDN or the canonical name, whichever is the result of resolving the name.

Syntax

```
HRESULT OfficialHostName(  
    [out, retval] BSTR* pbstrName  
);
```

Parameter

| Name | Type | Meaning |
|-----------|-------|-------------------------------------|
| pbstrName | BSTR* | Official host name of the computer. |

OriginalName

Returns the original name of the computer. This is the name that was originally provided by the user for adding the computer to the site.

Syntax

```
HRESULT OriginalName(  
    [out, retval] BSTR* pbstrName  
);
```

Parameter

| Name | Type | Meaning |
|-----------|-------|--------------------------------|
| pbstrName | BSTR* | Original name of the computer. |

Status

Returns the current status of the computer.

Syntax

```
HRESULT Status(  
    [out, retval] BSTR* pbstrName  
);
```

Parameter

| Name | Type | Meaning |
|-----------|-------|---------------------------------|
| pbstrName | BSTR* | Current status of the computer. |

ISiteIndexBuilder

Represents the distributed indexing configuration for a repository.

Methods

IndexAccess

Provides access to the security settings for distributed indexing of the repository.

Syntax

```
HRESULT IndexBuilderAccessCredentials(  
    [in, defaultvalue(CurrentCustomizableCredentials)] enum  
    CustomizableCredentialsType,  
    [out, retval] ICustomizableCredentials** pCredentials  
);
```

Parameters

| Name | Type | Meaning |
|------|------|---------|
| | enum | |

| Name | Type | Meaning |
|--------------|-----------------------------|---------------------------------------------------------------|
| | CustomizableCredentialsType | |
| pCredentials | ICustomizableCredentials** | Security settings for distributed indexing of the repository. |

Siteld (getter)

Returns the ID of the InTrust site whose agents must perform distributed indexing operations.

Syntax

```
HRESULT SiteId(
    [out, retval] BSTR* siteId
);
```

Parameter

| Name | Type | Meaning |
|--------|-------|-----------------------------------------------------------------------------------|
| siteld | BSTR* | ID of the InTrust site whose agents must perform distributed indexing operations. |

Siteld (setter)

Specifies the ID of the InTrust site whose agents must perform distributed indexing operations.

Syntax

```
HRESULT SiteId(
    [in] BSTR siteId
);
```

Parameter

| Name | Type | Meaning |
|--------|------|-----------------------------------------------------------------------------------|
| siteld | BSTR | ID of the InTrust site whose agents must perform distributed indexing operations. |

IndexBuilderAccess

Provides access to the security settings for performing repository indexing.

Syntax

```
HRESULT IndexBuilderAccess(
    [in, defaultvalue(CurrentIndexBuilderAccess)] enum IndexBuilderAccessType,
    [out, retval] IIndexBuilderAccess** pIndexPathType
);
```

Parameters

| Name | Type | Meaning |
|----------------|---------------------------------------------|-------------------------------------------------------|
| | enum IndexBuilderAccessType | What kind of account is used for repository indexing. |
| pIndexPathType | IIndexBuilderAccess ** | Security settings for performing repository indexing. |

ISiteObject

Represents a computer-specifying object that can be included in an InTrust site. Sites can be populated by indicating computers in a variety of ways, including IP ranges and Active Directory domains.

Methods

Type

Returns the type of the site object.

Syntax

```
HRESULT Type(  
    [out, retval]enum SiteObjectType* type  
);
```

Parameter

| Name | Type | Meaning |
|------|---------------------------------------|--------------------------|
| type | enum SiteObjectType * | Type of the site object. |

ID

Returns the ID of the site object.

Syntax

```
HRESULT ID(  
    [out, retval] BSTR* pID  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|------------------------|
| pID | BSTR* | ID of the site object. |

ISiteObjectCollection

Represents the computer-specifying objects included in a site. Sites can be populated by indicating computers in a variety of ways, including IP ranges and Active Directory domains.

Methods

_NewEnum

Returns an enumerator for the collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------|------------------------|
| pVal | LPUNKNOWN* | Collection enumerator. |

Add

Adds a site object to the collection.

Syntax

```
HRESULT Add(  
    [in] enum SiteObjectType objectType,  
    [out, retval] ISiteObject** ppSiteObject  
);
```

Parameters

| Name | Type | Meaning |
|--------------|-------------------------------------|-------------------------------------------|
| objectType | enum SiteObjectType | What kind of site object to add. |
| ppSiteObject | ISiteObject** | The site object to add to the collection. |

Item

Gets a site object from the collection by ID.

Syntax

```
HRESULT Item(  
    [in] BSTR siteObjectId,  
    [out, retval] ISiteObject** ppSiteObject  
);
```

Parameters

| Name | Type | Meaning |
|--------------|---------------|-------------------------------|
| siteObjectId | BSTR | ID of the site object to get. |
| ppSiteObject | ISiteObject** | The returned site object. |

Remove

Removes the specified site object from the collection.

Syntax

```
HRESULT Remove(  
    [in] BSTR bstrSiteObject  
);
```

Parameter

| Name | Type | Meaning |
|----------------|------|----------------------------|
| bstrSiteObject | BSTR | The site object to remove. |

ITask2

Represents a subset of the configuration of an InTrust scheduled task.

Method

TaskCredentials

Provides access to the credentials used for running the task.

Syntax

```
HRESULT TaskCredentials(  
    [in, defaultvalue(CurrentCusomizableCredentials)] enum  
    CustomizableCredentialsType type,  
    [out, retval] ICustomizableCredentials** ppCredentials  
);
```

Parameters

| Name | Type | Meaning |
|---------------|--------------------------------------------------|--------------------------------------|
| type | enum CustomizableCredentialsType | What kind of credential set is used. |
| ppCredentials | ICustomizableCredentials** | Credentials for running the task. |

ITransportInfo

Represents a transport type supported by InTrust event forwarding.

Methods

GUID

Returns the GUID of the transport type.

Syntax

```
HRESULT GUID(  
    [out, retval] BSTR* GUID  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|-----------------------------|
| GUID | BSTR* | GUID of the transport type. |

Name

Returns the display name of the transport type.

Syntax

```
HRESULT Name(  
    [out, retval] BSTR* val  
);
```

Parameter

| Name | Type | Meaning |
|------|-------|-------------------------------------|
| val | BSTR* | Display name of the transport type. |

ITransportInfoCollection

Provides a collection of all transport types supported by InTrust event forwarding.

Methods

_NewEnum

Returns an enumerator for the collection.

Syntax

```
HRESULT _NewEnum(  
    [out, retval] LPUNKNOWN* pVal  
);
```

Parameter

| Name | Type | Meaning |
|------|------------|------------------------|
| pVal | LPUNKNOWN* | Collection enumerator. |

Item

Gets a transport type from the collection by GUID.

Syntax

```
HRESULT Item(  
    [in] BSTR GUID,  
    [out, retval] ITransportInfo**  
);
```

Parameters

| Name | Type | Meaning |
|------|----------------------------------|-----------------------------|
| GUID | BSTR | GUID of the transport type. |
| | ITransportInfo** | The transport type. |

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