



Integrating IdentityIQ with File Access Manager for Enrichment

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Connector Overview

The File Access Manager is an independent application installed on the IdentityIQ platform. This Data Enrichment Connector connects to the IdentityIQ application, which is also installed on the IdentityIQ platform.

The IdentityIQ Enrichment connector retrieves complementary identity information regarding an Active Directory user, if that user created activities in a monitored application connected to the enrichment connector.

File Access Manager uses an IdentityIQ API to connect to the IdentityIQ application and platform.

File Access Manager uses this API to search for an Active Directory account and retrieve that account's identity information.

Supported Versions

This connector supports IdentityIQ versions 7.1 and up.

Setup Procedures

The main setup procedures are:

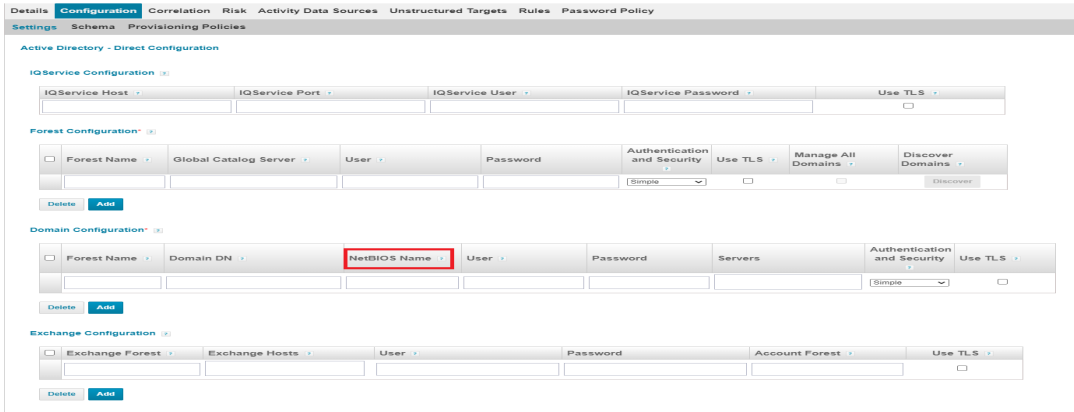
1. Set up the IdentityIQ Active Directory application(s)
2. Assign a user to connect to File Access Manager
3. Set up the enrichment connector in File Access Manager

Prerequisites

Make sure your system fits the descriptions below before starting the installation.

Active Directory Application Setup

1. Create an Active Directory application in IdentityIQ if one does not already exist.
2. Navigate to *Application Configuration > Domain Configuration*, and fill in the “NetBIOS Name” column for each domain.



Setting Account Mappings

1. Navigate to Global Settings > Account Mappings.
2. Create a new attribute by clicking **Add New Attribute**.
3. Set the following values:
 - a. Attribute Name (with the same character case): siqAccountName
 - b. Display Name: File Access ManagerAccount Name

Edit Account Attribute

Specify the applications and rules from which account data is derived. Select a source mapping to change its position within the list.

Account Attribute	
Attribute Name	siqAccountName
Display Name	SecurityIQ Account Name

Advanced Options	
Edit Mode	Read Only ▾
Attribute Type	string ▾
Searchable	<input checked="" type="checkbox"/>
Multi-Valued	<input type="checkbox"/>

Source Mappings	

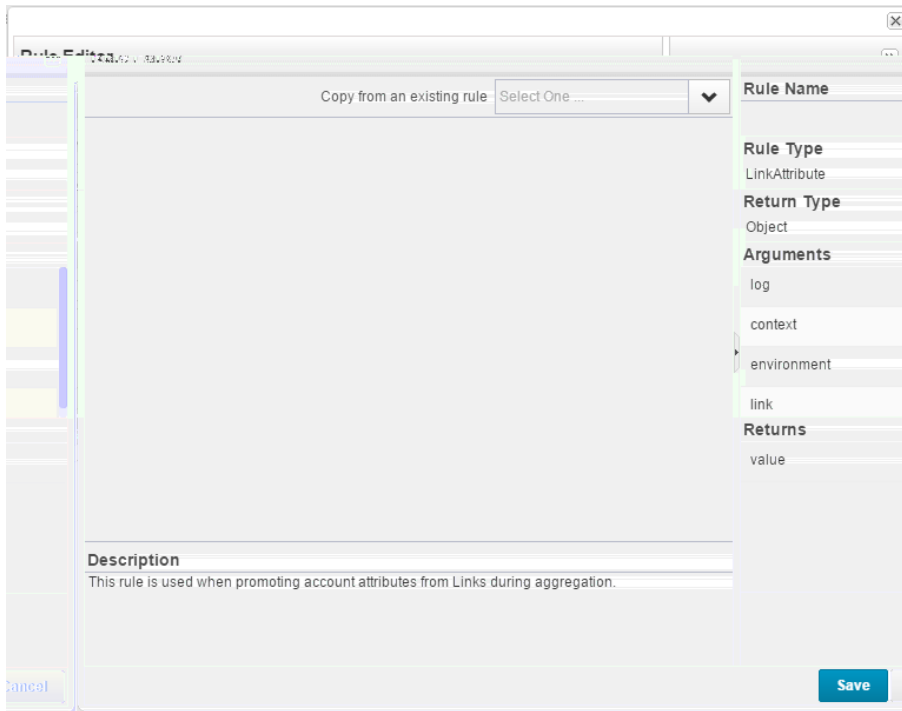
4. Click **Add Source** to add a new source.
5. Select *Global Rule*.

Add a source to the siqPrincipalName attribute

Application Attribute Application Rule Global Rule (all applications)

Rule

6. Click the ellipsis button (...) to the right of the Rule field.



7. Set the following values:
 - a. Rule Name: SIQ Account Name
 - b. Source code:

```
import sailpoint.object.Application;
import sailpoint.object.Link;
import sailpoint.tools.Util;
import java.util.List;

value = null;

if (link != null) {
    Application app = link.getApplication();

    if (app != null && app.type.equalsIgnoreCase("Active Directory - Direct")) {
        String msDSPrincipalName = link.getAttribute("msDS-PrincipalName");
        if (Util.isNotNullOrEmpty(msDSPrincipalName) && msDSPrincipalName.contains
("\\\\")) {
            value = msDSPrincipalName;
        }
        else {
            String sAMAccountName = link.getAttribute("sAMAccountName");
            String distinguishedName = link.getAttribute("distinguishedName");
            List settings = app.getAttributeValue("domainSettings");
```

```
        if (settings != null && Util.isNotNullOrEmpty(sAMAccountName) &&
            Util.isNotNullOrEmpty(distinguishedName)) {

            distinguishedName = distinguishedName.toLowerCase();
            String userDomainDN = distinguishedName.substring(distinguishedName.indexOf(",dc=") + 1);

            for (Map settingObj : Util.iterate(settings)) {
                if (!Util.isEmpty(settingObj)) {

                    String domainNetBIOSName = Util.getString(settingObj,
"domainNetBiosName");
                    String domainDN = Util.getString(settingObj, "domainDN");
                    if (Util.isNotNullOrEmpty(domainNetBIOSName) &&
Util.isNotNullOrEmpty(domainDN) && userDomainDN.equalsIgnoreCase(domainDN)) {
                        value = domainNetBIOSName + "\\\" + sAMAccountName;
                    }
                }
            }
        }
    }
}

return value;
```


Rule Editor

```

import sailpoint.object.Application;
import sailpoint.object.Link;
import sailpoint.tools.Util;
import java.util.List;

if (link != null && link.getApplication() != null) {

    String sAMAccountName = link.getAttribute("sAMAccountName");
    String distinguishedName = link.getAttribute("distinguishedName");
    List settings = link.getApplication().getAttributeValue("domainSettings");

    if (settings != null && Util.isNotNullOrEmpty(sAMAccountName) && Util.isNotNullOrEmpty(distinguishedName)) {

        for (Map settingObj : Util.iterate(settings)) {

            if (Util.isEmpty(settingObj)) {

                String domainNetBIOSName = Util.getString(settingObj, "domainNetBiosName");
                String domainDN = Util.getString(settingObj, "domainDN");

                if (Util.isNotNullOrEmpty(domainNetBIOSName) &&
                    Util.isNotNullOrEmpty(domainDN) &&
                    distinguishedName.toLowerCase().endsWith(domainDN.toLowerCase())) {

                    value = domainNetBIOSName + " \\ " + sAMAccountName;

                }

            }

        }

    }

}

return value;
    
```

Description
This rule is used to build a SIQ account name during aggregation.

Save Save As... Cancel

8. Click **Save**.
9. Select *SIQ Account Name* from the Rules selection.

Add a source to the siqAccountName attribute

Application Attribute
 Application Rule
 Global Rule (all applications)

Rule: SIQ Account Name

Add Cancel

10. Click **Add**

Edit Account Attribute

Specify the applications and rules from which account data is derived. Select a source mapping to change its position within the list.

Account Attribute	
Attribute Name	<input type="text" value="siqAccountName"/>
Display Name	<input type="text" value="SecurityIQ Account Name"/>

Advanced Options	
Edit Mode	<input type="text" value="Read Only"/>
Attribute Type	<input type="text" value="string"/>
Searchable	<input checked="" type="checkbox"/>
Multi-Valued	<input type="checkbox"/>

Source Mappings	
<input type="text" value="Global rule SIQ Account Name"/>	

11. Click **Save**.
12. Create a new attribute by clicking **Add New Attribute**.
13. Set the following values:
14. Attribute Name (with the same character case): siqPrincipalName
15. Display Name: File Access Manager Principal Name

Edit Account Attribute

Specify the applications and rules from which account data is derived. Select a source mapping to change its position within the list.

Account Attribute	
Attribute Name	<input type="text" value="siqPrincipalName"/>
Display Name	<input type="text" value="SecurityIQ Principal Name"/>

Advanced Options	
Edit Mode	<input type="text" value="Read Only"/>
Attribute Type	<input type="text" value="string"/>
Searchable	<input checked="" type="checkbox"/>
Multi-Valued	<input type="checkbox"/>

Source Mappings	
<input type="text"/>	

16. Click **Add Source** to add a new source.

17. Set the following values:
 - a. Application: The Active Directory application name
 - b. Attribute: userPrincipalName

Add a source to the siqPrincipalName attribute

Application Attribute Application Rule Global Rule (all applications)

Application: sailpoint.com

Attribute: userPrincipalName

Add Cancel

18. Click **Add**.

Edit Account Attribute

Specify the applications and rules from which account data is derived. Select a source mapping to change its position within the list.

Account Attribute

Attribute Name: siqPrincipalName

Display Name: SecurityIQ Principal Name

Advanced Options

Edit Mode: Read Only

Attribute Type: string

Searchable:

Multi-Valued:

Source Mappings

userPrincipalName from the sailpoint.com application

Add Source Delete Sources

Save Cancel

19. Click **Save**.

To force IdentityIQ account mappings to be updated, run the Active Directory Account Aggregation task with option "Disable optimization of unchanged accounts" checked.

IdentityIQ User for File Access Manager

File Access Manager connects to IdentityIQ, using the basic authentication mechanism to retrieve data from IdentityIQ.

Basic authentication requires a user name and a password.

Assign an IdentityIQ user (with *SCIM Executor* capability) to File Access Manager so that the user has access to, and can retrieve data from, IdentityIQ.

Enrichment Connector Setup

1. On the File Access Manager Administrative Client navigate to *Applications > Configuration > Activity Monitoring > Data Enrichment Connectors*.
2. Click **New**.
3. Select Type: IdentityIQ.

4. Complete the following IdentityIQ Enrichment connector fields as follows:

Name

The connector's logical name.

Context Root

The IdentityIQ context root is part of the IdentityIQ address. The default context root when installing IdentityIQ is "IdentityIQ", as in the URL: *http://localhost:8080/IdentityIQ*

The context root can be changed from the default value during the IdentityIQ installation stage. If so, type in the updated value.

Server

The IdentityIQ server name.

Port

The IdentityIQ port.

Is SSL

Select if IdentityIQ uses SSL.

User/Password

The IdentityIQ credentials (from the account in Section [IdentityIQ User for File Access Manager](#)).

IdentityIQ *Account Name Attribute*: The Account Mapping attribute name (from the File Access Manager Account Name mapping created in section [Setting Account Mappings](#)).

If the names are the same as those in this guide, the attribute will be siqAccountName.

IdentityIQ User Principal Name Attribute

Type the Principal Name Mapping attribute name, as defined in File Access Manager Principal Name mapping created in section [Setting Account Mappings](#).

If the names are the same as those in this guide, the attribute will be siqPrincipalName.

Report Interval

Set the connector Health reporting interval (in seconds).

5. Click **Manage Attributes**.

This screen displays the attributes that can be fetched from the IdentityIQ Enrichmentconnector. Some are predefined attributes, while others are custom attributes (defined in IdentityIQ Identity Mappings).

The predefined attributes displayed the first time this screen is displayed are:

- userName
- capabilities
- displayName
- isManager
- active
- email

Other attributes will be displayed after the predefined attributes, with the same Name and Display Name, and will be unmarked by default.

#	Name	Display Name(Editable)	Type	WH Question
1	<input checked="" type="checkbox"/> userName	User Name	String	Who
2	<input checked="" type="checkbox"/> capabilities	Capabilities	String Array	Who
3	<input checked="" type="checkbox"/> displayName	Display Name	String	Who
4	<input checked="" type="checkbox"/> isManager	Is Manager	Boolean	Who
5	<input checked="" type="checkbox"/> active	Active	Boolean	Who
6	<input checked="" type="checkbox"/> email	Email	String	Who
7	<input type="checkbox"/> adSAMAccountName	adSAMAccountName	String	Who
8	<input type="checkbox"/> adFirstName	adFirstName	String	Who
9	<input type="checkbox"/> adDescription	adDescription	String	Who
10	<input type="checkbox"/> department	department	String	Who
11	<input type="checkbox"/> nickNames	nickNames	String Array	Who

Save Cancel

6. Each marked attribute will be fetched from IdentityIQ and stored in each File Access Manager activity.

7. Mark an attribute to add it, or unmark an attribute to remove it.

Predefined attributes cannot be unmarked.

8. You can edit the display name of any attribute by clicking on it and typing a new Display Name.

9. Click **Save** after editing the attributes.

10. Click **Save** (again) to save the connector.