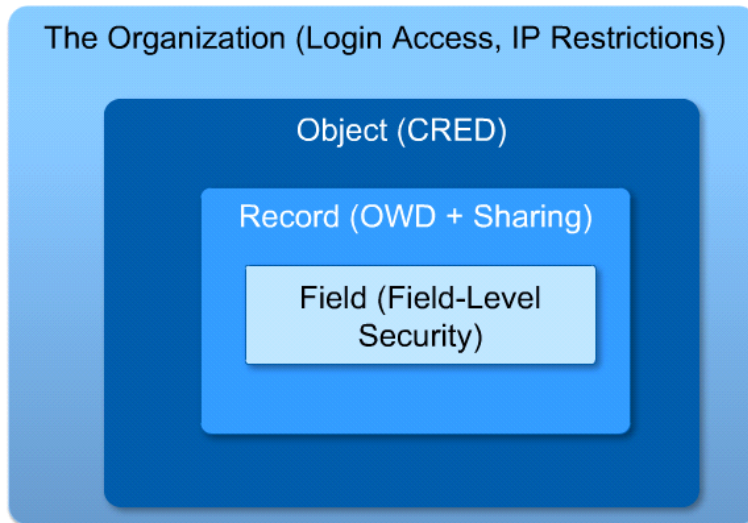


Troubleshoot Record Access and Field Visibility

Thursday, September 17, 2015 5:44 PM

Security Access Levels



When opening up access using the role hierarchy, sharing rules, teams, and manual sharing, the most permissive sharing access wins.

When object permissions provide a different level of access than the sharing model, the more restrictive access wins.

Record Access: Transfers

Sharing Rules: All ownership-based sharing rules for the records are recalculated based on Matt's role.

Teams: When the record owner is changed through the UI, there is a choice to keep the associated teams. When the record owner is changed through Data Loader, teams remain on the records.

Manual Sharing: All manual sharing is removed from the records that were transferred to Matt.

Record Access: Role Change

Sharing Rules: All ownership-based sharing rules for Karl's records are recalculated based on his new role.

Teams: No impact

Manual Sharing: No impact

The Record owner did not change, so teams and manual sharing weren't impacted.

Controlled by Parent

When the Organization-Wide Default Settings are set to: Controlled By Parent, all access is determined by the user's access to the parent account. Sharing Rules no longer have any impact.

Best Practices:

1. Use multiple permission sets to handle one-off permissions, and reduce the need for more custom profiles.
2. Define a hierarchy of roles to control access to information entered by users in lower-level roles.
3. Always assign a user to a role in the role hierarchy.
4. Use public groups to reduce the number of sharing rules.

To view Sharing details, click the "Sharing" button.

Position Director of Sales - Japan

Hide Feed

Post File New Task More

Write something...

Share

+ Follow

Followers

No followers.

Show All Updates

There are no updates.

[Back to List: Positions](#)

[Interviewers \(0\)](#) | [Job Applications \(0\)](#)

Position Detail

Edit Delete Clone **Sharing**

Position Name	Director of Sales - Japan
Job Description	Lead the Japan sales team to generate sales revenue and meet quota expectations
	Hiring

Click "Expand List" in the next page to see who has access to what and why.

Modify Access to Position Records

This can be done by creating new "Roles" and assigning these roles to users not based on position in Org Chart, but by access needs. Reset Sharing Rules to regain access rights: **Setup -> Security Controls -> Sharing Settings**

Restrict Access to the Salary Range Field

Set Field-Level Security: **Setup -> Objects -> [Object_name] -> Custom Fields and Relationships: [Field_Name] -> Set Field-Level Security**

Troubleshooting: Why Can't a User Access a Record?

1. Should the user have access to the record?
2. Does the user have permissions to access the object?
3. How does the role of the user relate to the role of the record owner in the role hierarchy?
4. Should the user be included in an existing or new sharing rule?
5. If the organization uses teams, should the user be added to the team for the record or associated account record?
6. If the organization uses manual sharing, did the user lose access to the record?
7. If the organization uses territory management, is the user missing from one of the territories?

Position Custom Field

Salary Range

[Back to Position](#)

[Validation Rules \(0\)](#)

Custom Field Definition Detail

Edit **Set Field-Level Security** View Field Accessibility

Field Information

Field Label	Salary Range	Object Name	Position
Field Name	Salary_Range	Data Type	Picklist
API Name	Salary_Range__c		
Description			
Help Text			
Created By	Kai Tribble , 9/14/2015 2:29 PM	Modified By	Kai Tribble , 9/14/2015 2:29 PM

Picklist Options

Controlling Field [\[New\]](#)

Note: When using Global Search for troubleshooting for users, click the Search Feeds button to get all recent Chatter Feeds about that user.

It is more scalable to grant one user access to the Account team rather than give an entire Role access to an Account.

D. Should the user be included in an existing or new sharing rule?

- Click **Setup | Security Controls | Sharing Settings**.
- Scroll down to the Account Sharing Rules section, and verify that there is not any account sharing rules.
- Consider the pros and cons of creating the following criteria-based sharing rule:
Account: Account.TextName CONTAINS American Bank shared with
Role: Sales Engineers with Read/Write access to opportunities

Pros	Cons
None	All users in the Sales Engineers role would have access to the American Bank account. The solution is not scalable. The sharing rule depends on the value in a text field.

E. If the organization uses teams, should the user be added to the team for the record or associated account record?

- Click the Accounts tab.
- Click the **American Bank** account.
- Click the **Account Team** related list hover link.
- Click **Display Access**.
- Consider the pros and cons of giving Amy Daniels access to all opportunities for the American Bank account by adding her to the account team.

Pros	Cons
It gives her access to all opportunities related to American Bank. If the account owner changes, the account team can be kept on the record.	None

This is better than giving the User Sharing Settings using the Sharing button at the top of the Opportunity for a particular account because permissions are removed once the Account Owner changes.

An organization may also use Territory Management. Territory Management is an account sharing system that lets users access accounts based on the characteristics of the accounts, such as geography, product line, or business unit. You can assign these Territory Management automatically using **Account Assignment Rules**. When using Territory Management, the territory management hierarchy must also be defined. If a User and an Account have only one Territory in common, the Account is automatically assigned to that territory. Territory access is independent of Account Owner permissions.

Role Hierarchy	Territory Hierarchy
A user has a single role.	A user can be part of many territories.
An account is owned by a single user.	An account can belong to multiple territories.
Account owners and users above them in the role hierarchy, and those who have access to a child object can access the account.	In addition to users listed in the left column, an account is accessible by all users in territories to which it is assigned, as well as those above them in the territory hierarchy.
A user has a single forecast based on role.	A user has a forecast for each territory in which they work with active opportunities.

- Territory management works in parallel with other sharing functionality.
- Both role and territory hierarchy must be managed simultaneously.
- Forecasts are derived from territory hierarchy, not role hierarchy.
 - Customizable forecasting must be enabled.
 - Forecast data is derived from the opportunities associated with a user's territory.
 - Users will have a different forecast for each territory to which they are assigned.

Accounts -> [Account_Name] -> Account Team

Account Team				
<div> Add Add Default Team Display Access Delete All </div>				
Account team members may have greater access than defined by their account team membership.				
Action	Team Member	Account Access	Contact Access	Opportunity Access
Edit Del	Tim Howe	Read Only	Read Only	Private
Edit Del	Yuko Ishikawa	Full Access	Read/Write	Read/Write

Encrypt the Values of a Custom Field

Create an encrypted custom field for opportunities and add it to the B2C Opportunity Layout:

Setup -> Customize -> Opportunities -> Fields

Custom Fields and Relationships: Text (Encrypted) -> Next

Field Label
Encrypted Credit Card Num
i

Please enter the maximum length for a text field below.

Length
16

Field Name
Encrypted_Credit_Card_Num
i

Description
Encrypted Credit Card Number

Help Text

Required
☐ Always require a value in this field in order to save a record

Mask Type
Credit Card Number

Required ☐ Always require a value in this field in order to save a record

Mask Type **Credit Card Number**

Mask Character **X**

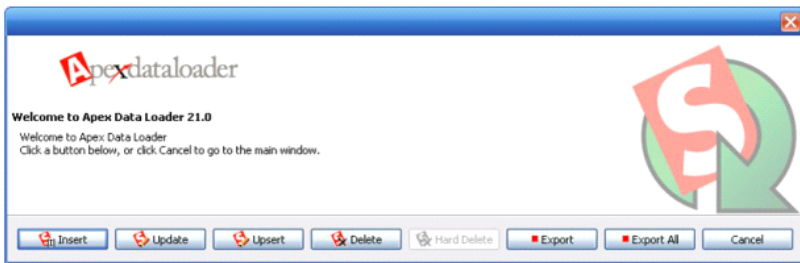
Example XXXX-XXXX-XXXX-1234

In order for a Profile to view encrypted data, they must have the System Permission to "View Encrypted Data"

Steps to Import Encrypted Data:

Export Existing Data

- Record ID
- Field to be encrypted



Create Encrypted Field

- Select Text (Encrypted) data type
- Set label, length, mask type, and mask character
- Set field-level security
- Add to page layout

Note: Text length maximum is at 175 characters.

Step 1. Choose the field type: ☐ None Selected, ☐ Text Area (Rich), ☒ **Text (Encrypted)**, ☐ URL

Step 2. Enter the details: Field Label, Length, Field Name, Description, Help Text, Required ☐ Always require, Mask Type **None**, Mask Character **None**

Step 3. Establish field-level security: Field Label encrypt, Data Type Text (Encrypted), Field Name encrypt, Description, Field-Level Security for Profile ☒ Visible, Accounts Receivable User ☒, Contract Manager ☒, Executive User ☒, General Marketing User ☒

Step 4. Add to page layouts: Select the page layouts that should include this field on the page if you do not select a layout. To change the location of this field on the page, you can click the field icon. ☒ Add Field, Page Layout Name: ☒ Account Layout, ☒ Customer Account Layout, ☒ Partner Account Layout

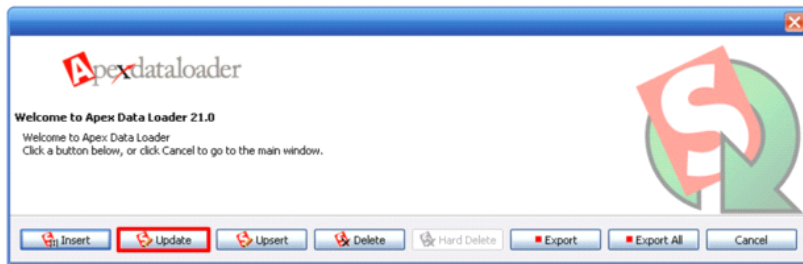
Set Profile Permissions

Set the "View Encrypted Data" permission

System Permissions Edit		
System		
Permission Name	Enabled	Description
View Encrypted Data	<input checked="" type="checkbox"/>	View the value of encrypted fields in plain text.
View My Team's Dashboards	<input type="checkbox"/>	View dashboards owned by people under them in the role.
View Setup and Configuration	<input checked="" type="checkbox"/>	View the App Setup and Administrative Settings pages.
Weekly Data Export	<input type="checkbox"/>	Run the weekly data export service.

Import Data into Encrypted Field

- Record ID
- Encrypted Field



Use DataLoader to update multiple fields at once.

Module 2 Review

1. Suri only has the "read" permission for the case object on her profile. A criteria-based sharing rule gives her read/write access to product support cases. Will Suri be able to edit product support cases?
Suri will not be able to edit product support cases, because object permissions give her only read permission. When working with object access, the most restrictive wins.
2. Both a sharing rule and an account team give Jose access to the Dixon Chemical account. The sharing rule gives him read access, and the account team gives him read/write access. Will Jose be able to edit the Dixon Chemical account?
Jose will be able to edit the Dixon Chemical account, because the account team gives him read/write access. When working with record access, the most permissive wins.
3. When territory management is enabled, what determines record access to accounts and associated contacts, cases, and opportunities?
When territory management is enabled, record access to accounts and associated contacts, cases, and opportunities is simultaneously controlled by record ownership, organization-wide defaults, role hierarchy, sharing rules, teams, manual sharing, and territory hierarchy.
4. Tom's account page layout makes the Rating field required, but his field-level security settings make the field read-only. Will Tom be able to edit the Rating field?
Tom will not be able to edit the Rating field, because field-level security settings make the field read-only. When working with field access, the most restrictive wins.