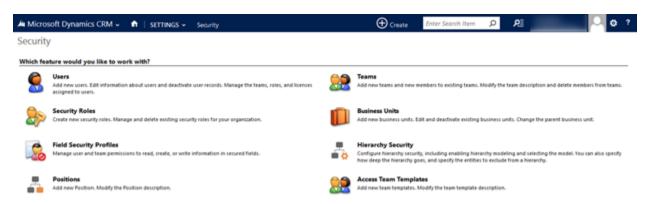
Hierarchical Security Models in Dynamics CRM 2015

- With the coming Microsoft Dynamics CRM 2015 a new addition has been made to the security model to provide hierarchical visibility based on the manager field in the user record.
- 2. This new change will make it possible for managers to see records for the people under them.
- 3. This will let a direct manager of a person read, update, append and append to owned records, and read permissions to managers above the direct manager allowing for easier visibility of subordinates activities that can be used in dashboard and reporting easily.
- 4. With the addition of the new security items, the Security has been moved to its own section in the navigation under Settings:



Security related items have been moved to security along with the new Hierarchy settings:



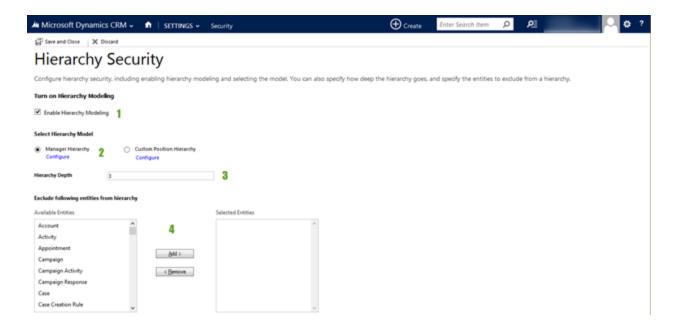
To enable the Hierarchy Security model select the **Hierarchy Security** item.



Hierarchy Security

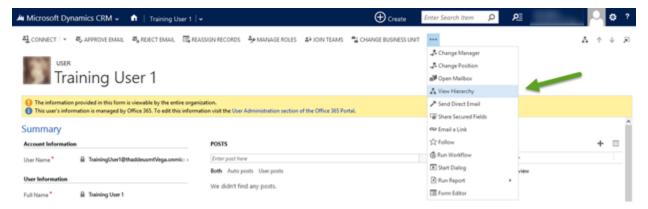
Configure hierarchy security, including enabling hierarchy modeling and selecting the model. You can also specify how deep the hierarchy goes, and specify the entities to exclude from a hierarchy.

This will bring up the settings:



- 1. Turns on or off the Hierarchy Modeling
- 2. Sets the Hierarchy to Manager
- 3. Sets the depth the hierarch will be applied to (Note that there may be a performance impact on depths greater than 4)
- 4. Any entity that should be excluded from the hierarchy model can be set here

A new hierarchy view has been added that is available once the Manager Hierarchy is turned on and it can be viewed from the user record by opening a user and selecting View Hierarchy.

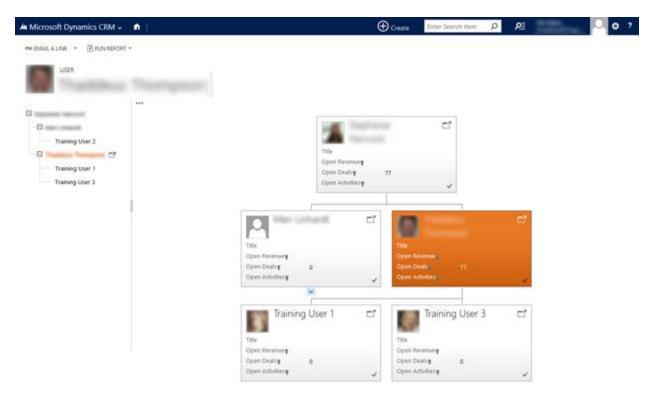


This will show the user in relation to the manager and other users within the scope of the current level.



This will show the user, the manager, and other people at the same level as the selected user.

By selecting the up arrow the Hierarchy View can be changed to show more of the structure and shift the focus from the originally selected user to the manager and show a larger portion of the tree.



The managers will then have rights to all the records owned by their direct reports without the need of a sharing model.

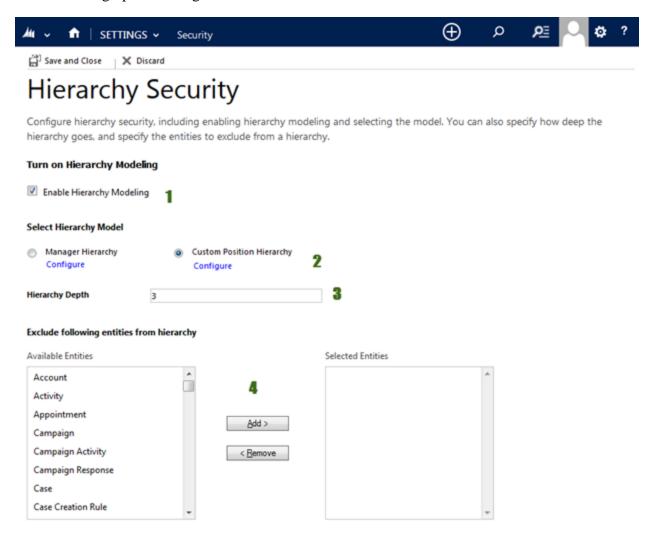
To enable the Positional Security model select the **Hierarchy Security** item.



Hierarchy Security

Configure hierarchy security, including enabling hierarchy modeling and selecting the model. You can also specify how deep the hierarchy goes, and specify the entities to exclude from a hierarchy.

This will bring up the settings:



- 1. Turns on or off the Hierarchy Modeling
- 2. Sets the Hierarchy to Custom Position
- 3. Sets the depth the hierarch will be applied to (Note that there may be a performance impact on depths greater than 4)
- 4. Any entity that should be excluded from the hierarchy model can be set here

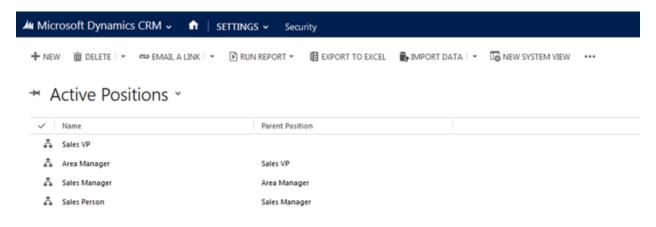
Go back to the security main page and click Select.

Positions



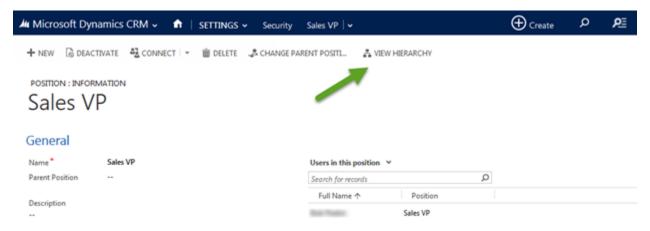
Add new Position. Modify the Position description.

Which will bring up the position definition list:

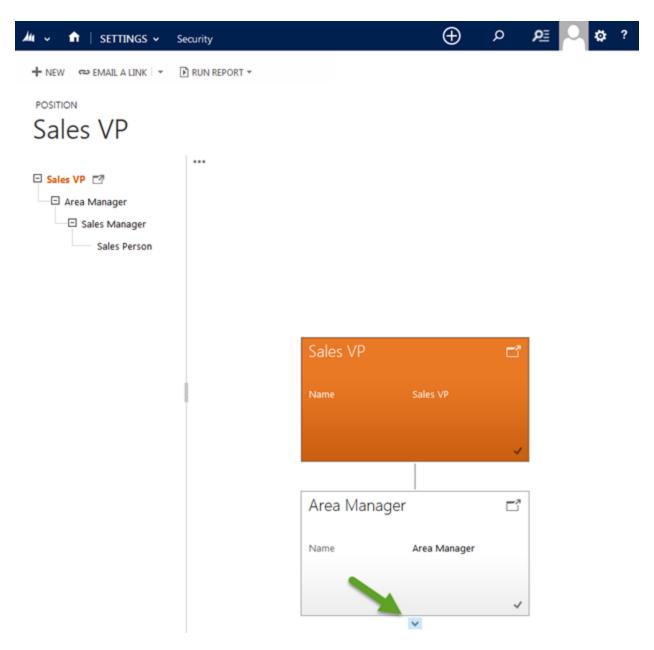


Where you can define positions and which position reports to another position. This model is best for an organization that is based on one or more manager needs access to records of a group of people in a position below that manager.

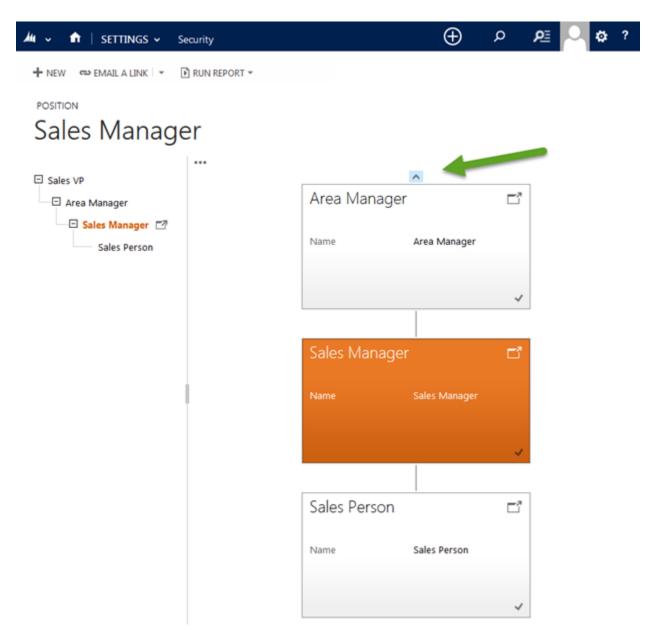
Defining a position is simple in that it needs a name, and a parent position if it applies. Once this is saved, users can be added to the position using the sub grid.



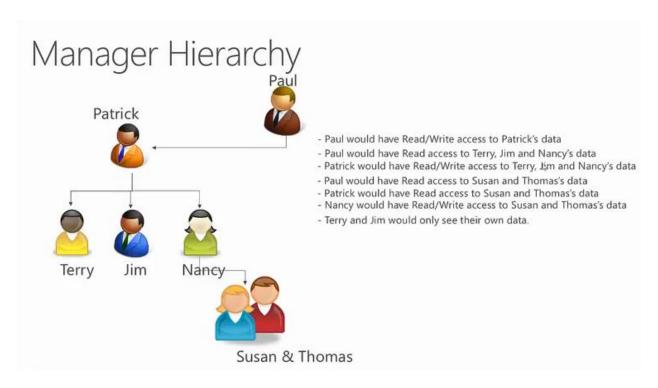
You can look at the positional hierarchy by selecting View Hierarchy item.

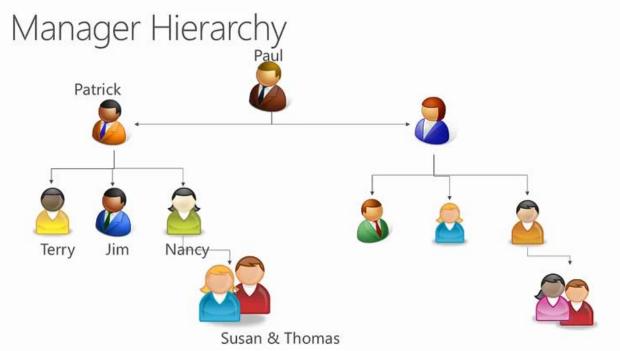


This will bring up a view of the relationship of the positions and can be navigated with the blue arrows, similar to the manager hierarchy.



These two models are in addition to the current security models and will adhere to business unit restrictions or if using a team model, the teams the person is on. This adds visibility based on the hierarchical structure to allow for an easier way for managers to see the records for their people and those below them.





Position Hierarchy

Cross business unit

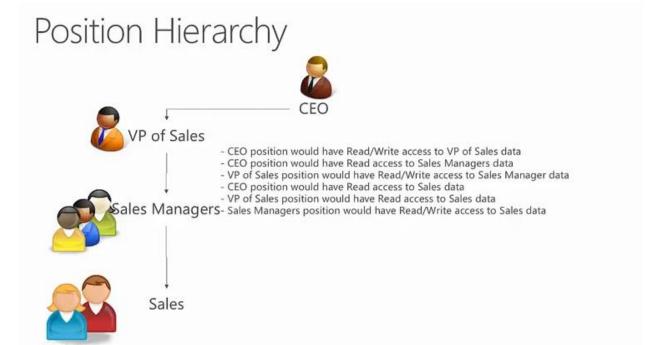
No constraints on business unit hierarchy Structure based on Position and Parent Position records

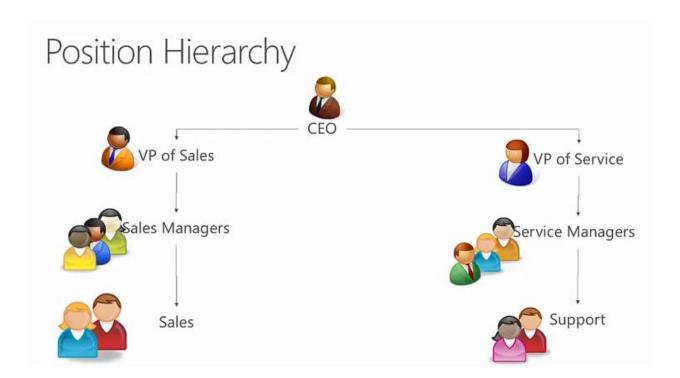
Users tagged to a position

Positions can be used for multiple users

Reporting structure

User doesn't have to be a manager of a user to access data

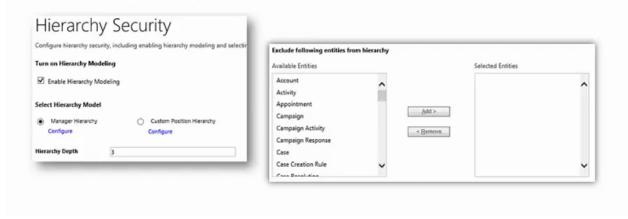




Enable HSM

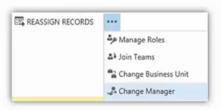
Settings-Security-Hierarchy Security

Disabled by default on new and upgraded organizations Hierarchy Depth will default to 3



Manager Hierarchy

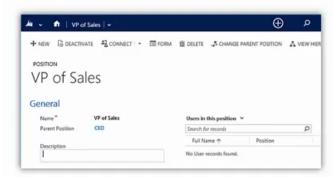
Set Manager on User Record

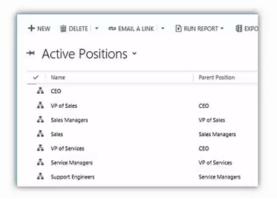




Position Hierarchy

Create Position Records





Viewing the Hierarchy



Security Filtering

Hierarchy Security Disabled

Disabled by default

Current BU, Roles, Teams, Sharing are still used

Hierarchy Security Enabled

No changes for non manager users

No changes if managers role is BU depth or global access

Qualifying Records

Owned by child users or teams the child user is a member of Shared to child users or teams the child user is a member of

Non-qualify records

Records that child users can see due to global security privileges

Records that child users can see due to Business Unit depth security privileges

Tables

SystemUserManagerMap

Row for every user

Every Manager also has a row for every child user they can see HierarchyLevel column identifies how many levels of hierarchy exists between the manager and user Depth setting will affect how much data is in this table

0 0 1 3 2 1 2 0 0 0	SystemUserManagerMapId	ParentSystemUserid	ManagerName	SystemUserid	UserName
	AE64D774-BEA9-4323-A80E-0A0AD80F8EC7	B90BB450-133D-E411-80C4-00155D0D790A	CRM Admin	B90BB450-133D-E411-80C4-00155D0D790A	CRM Admin
	37C955EE-FF81-4030-8F4F-50652F2FCA34	47B3921A-6743-E411-80C6-00155D0D790A	Terry Adams	47B3921A-6743-E411-80C6-00155D0D790A	Terry Adams
	6E649FC2-1F7A-48F3-A992-A5421405394D	5483921A-6743-E411-80C6-00155D0D790A	Susan Burk	47B3921A-6743-E411-80C6-00155D0D790A	Terry Adams
	72D01715-40F6-4203-9BCC-A6F0B1227060	F4333B32-4748-E411-80C6-00155D0D790A	Nancy Anderson	47B3921A-6743-E411-80C6-00155D0D790A	Terry Adams
	0BEBAA9D-3806-468E-BC9C-FDC2AEFDC716	6EB3921A-6743-E411-80C6-00155D0D790A	Patrick Sands	47B3921A-6743-E411-80C6-00155D0D790A	Terry Adams
	1D09FC07-7287-4AB7-BC2F-126F6BE4E4E0	6EB3921A-6743-E411-80C6-00155D0D790A	Patrick Sands	54B3921A-6743-E411-80C6-00155D0D790A	Susan Burk
	600840A7-712E-4ABF-9682-502962C1F5C4	F4333B32-4748-E411-80C6-00155D0D790A	Nancy Anderson	5483921A-6743-E411-80C6-00155D0D790A	Susan Burk
	44AB700D-6333-4F88-A0FE-EAE2E984517F	54B3921A-6743-6411-80C6-00155D0D790A	Susan Burk	54B3921A-6743-E411-80C6-00155D0D790A	Susan Burk
	C416D163-A2BA-4D4B-A2D7-DEE9F31AE545	61B3921A-6743-E411-80C6-00155D0D790A	Paul Cannon	61B3921A-6743-E411-80C6-00155D0D790A	Paul Cannon
	56B5DC81-075D-48BF-B2CF-08FA8496396E	F4333B32-474B-E411-80C6-00155D0D790A	Nancy Anderson	6183921A-6743-E411-80C6-00155D0D790A	Paul Cannon
	F6176214-D39F-48E5-9A48-31F55E3A64B9	F4333B32-474B-E411-80C6-00155D0D790A	Nancy Anderson	6EB3921A-6743-E411-80C6-00155D0D790A	Patrick Sands
	6ABD9308-CB4E-41FF-A4D0-25EE850CB898	6EB3921A-6743-E411-80C6-00155D0D790A	Patrick Sands	6EB3921A-6743-E411-80C6-00155D0D790A	Patrick Sands
	85729864-F9C2-4E1C-BF08-B3C5568A8B83	F4333B32-474B-E411-80C6-00155D0D790A	Nancy Anderson	F4333B32-474B-E411-80C6-00155D0D790A	Nancy Anderson