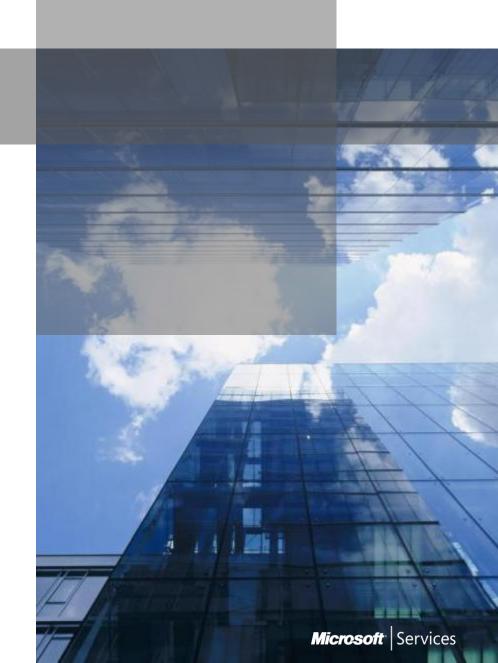
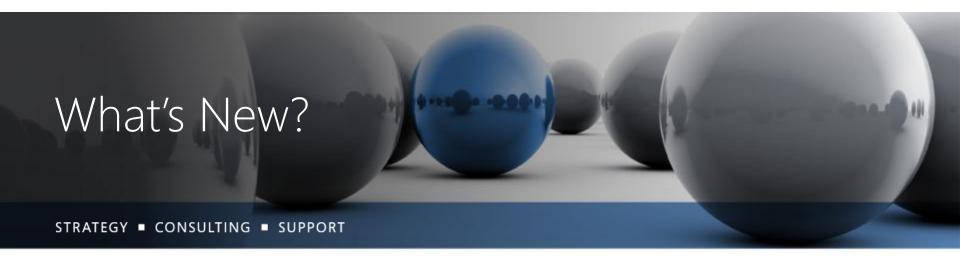


Topics

- New Features
- CRM Outlook Clients
- Install and Configuration
- What is installed
- Client Configuration
- Terminal Server & Citrix
- Upgrade Flow
- CRM Outlook Client GUI
- CRM & Outlook Synchronization
- Go Offline Process
- CRM E-mail Tagging
- CRM Address Book Provider
- CRM Updates
- Troubleshooting



Microsoft Services



New Features

- Outlook Fluent UI
- Views and Form enhancements
 - Customizing
 - Conditional Formatting
 - Categories
 - Follow-ups
- Recurring Appointments
- MAPI Integration
- Data Filter enhancements
- Convert to Opportunity, Lead or Case
- Add Connections
- Sync Performance enhancements
- Address Book Improvements
- 64 bit Outlook support

Microsoft Services



CRM Outlook Clients

- There is now only 1 CRM Outlook client install
 - Client with online capability installs by default
 - Multiple Client Installs per machine (TS\Citrix)
 - Offline Access is available through custom install
 - Else SQL Express will install when user clicks "Go Offline"
 - Only 1 Client Install per machine
 - Hoster Process (while offline only)

Microsoft Services



Setup

- MSI-based deployment
 - Can be run by any administrator
- Published
 - Can be published via Group Policy to allow elevated mode (Non admin install)
- SCCM installs are supported
 - CRM IG Installing Outlook section has the SCCM installation instructions

Prerequisites

- Install:
- Local Admin Manual install
- Outlook client cannot be on the exchange server
- Connection to CRM server not required
- Configuration:
- Outlook Initialized
- Local Admin Manual install
 - Not required if client installed in admin mode via SCCM\GPO
- Must have a connection to the CRM server

Prerequisites

- Microsoft Dynamics CRM 2011 for Microsoft Office Outlook software requirements
 - Microsoft Windows XP, Vista & 7
 - Microsoft Office 2003 SP3, 2007 SP1 & 2010
 - Additional Components
- Microsoft Dynamics CRM 2011 for Microsoft Office Outlook hardware requirements
 - Minimum requirements
 - 750 MHz CPU with 2 GB RAM
 - Recommended requirements
 - 1.8GHz CPU with 4 GB RAM or more

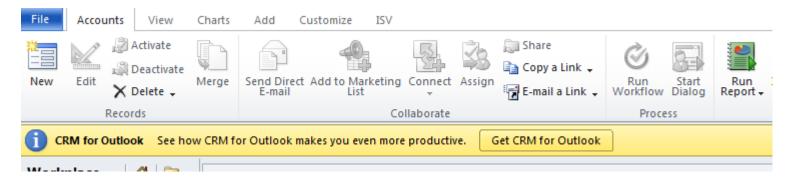
New Setup Option – Install from Website

Basics of the "Get CRM for Outlook" button

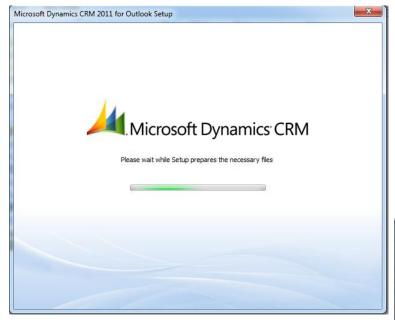
Visibility

Disabling the button

What does the button do?



CRM Outlook Client – Install



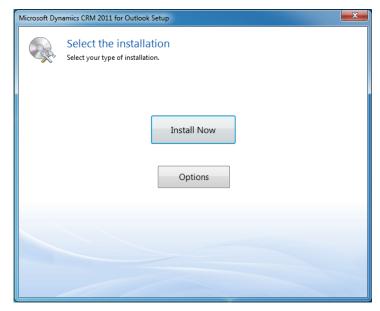
•Run SetupClient.exe

Microsoft Dynamics CRM 2011 for Outlook Setup

• License Agreement

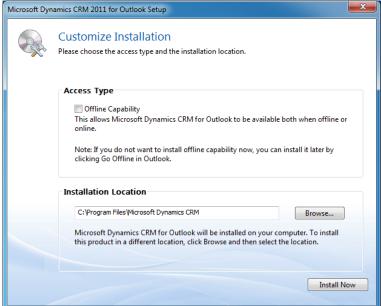


CRM Outlook Client – Install

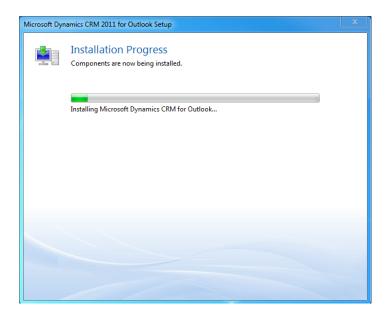


OptionsOffline ClientInstall Location

• Select the Installation type

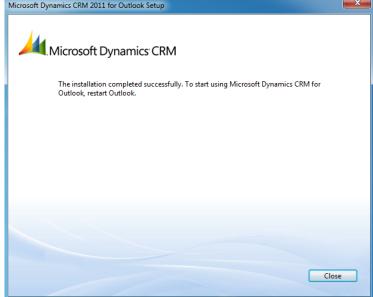


CRM Outlook Client – Install



• Installation Complete

 Required components and CRM Outlook client are installed

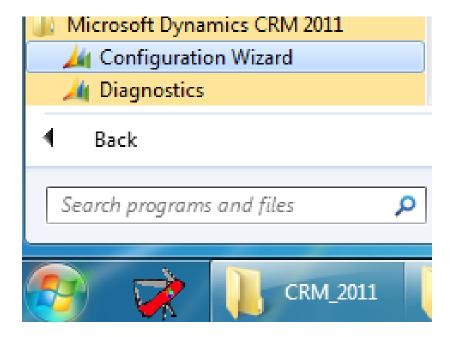


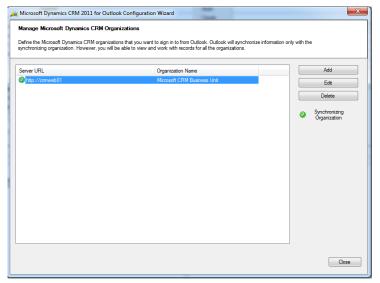
What is installed?

- Install Registry Keys are located:
 - HKLM\Software\Microsoft\MSCRMClient
- User Configuration Registry Keys are located:
 - HKCU\Software\Microsoft\MSCRMClient
 - OrganizationID subfolders
- Default Install Directory C:\Program Files\Microsoft CRM
- SQL Express (Only for Offline Client install)
- Default location of the database files
 - C:\Users\<user>\AppData\Local\Microsoft\MSCRM\Data
 - MSCRM_MSDE.mdf
- CRM Outlook Addin (CRMAddin.dll)
 - Tools-Trust Center-Com Add-Ins
 - C:\Program Files\Microsoft CRM\Client\bin
- Outlook Address Book Provider
 - Gives easy access to email CRM accounts, contacts, users, etc.



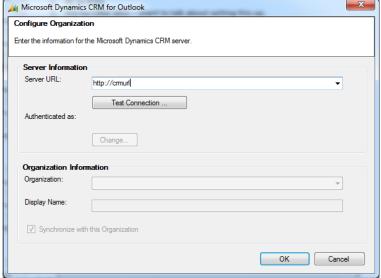
- CRM Configuration Wizard will automatically launch after opening Outlook for the first time.
- Can be launched manually through Start | All Programs | ...

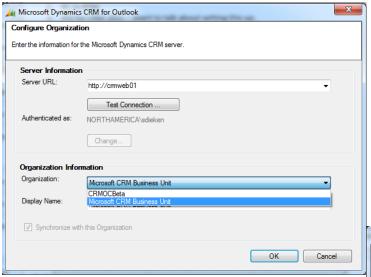




Manage CRM Organizations

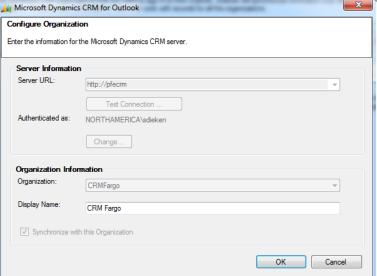
•Enter CRM URL and click Test Connection



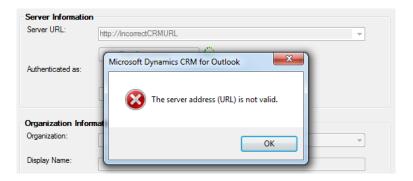


 Select your organization and specify a Display Name

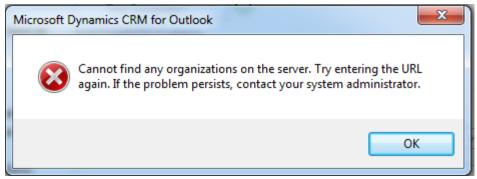
Edit to change Display Name
Or Synchronizing Org

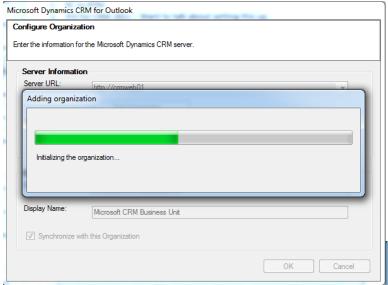


• Error if URL is incorrect or CRM server is unavailable



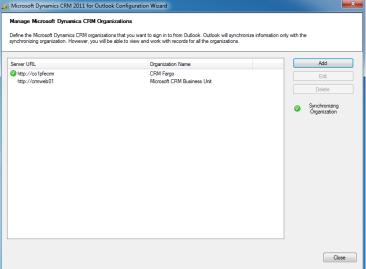
• Error if there are no additional un-configured organizations





•Configuration process begins

• Configuration complete



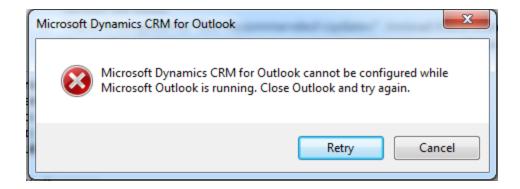
Silent Configuration

Prevents user error Ensures consistency

Steps to "Re-Configure"

- File | CRM | Manage Organizations
- Start | All Programs | Microsoft Dynamics CRM 2011 | Configuration Wizard

Outlook must be closed before configuring client



Class Lab

Lab: Outlook client install and configuration

CRM Outlook Client Startup

CRM Outlook Add-in

Loading moved to background thread

Monitoring for MAPI changes

Loading Performance

CRM Add-in State Manager

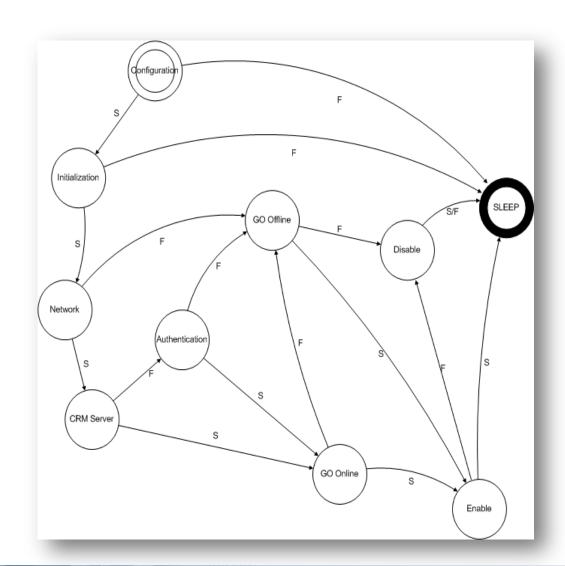
CRM Hoster Process

No longer displayed in Notification Area

Online/Offline performance Enhancements

CRM Add-in State Manager (CASM)

State Engine Monitor Network CASM Logic





Terminal Server & Citrix

Terminal Server & Citrix

- Administrator installs client for manual installs
- How to prevent user's from going offline:
 - Setupclient.exe /disableofflinecapability
 - Add the Dword value: LightClient = 1
 - HKLM\Software\Microsoft\MSCRMClient
 - Remove Offline privileges from user roles (Online only)
- Each user can manually run the Configuration Wizard
- Remove "Configure CRM" button
 - HKEY_CURRENT_USER\Software\Microsoft\Office\Outlook\Addins\crmaddin.Addin\Lo adBehavior
 - DWORD value needs to be changed to 2



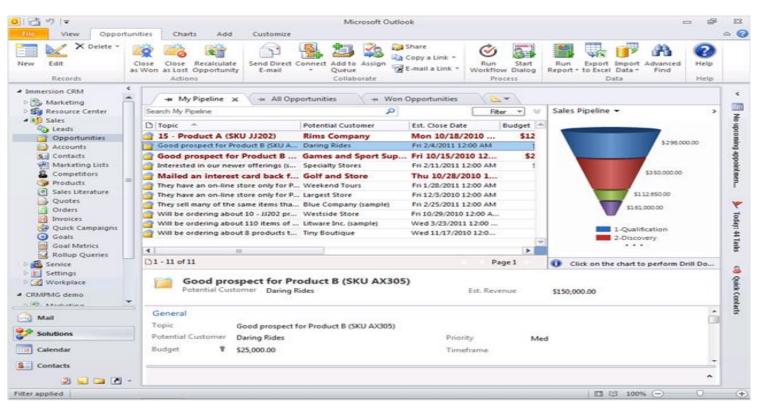
Upgrade

- CRM 4.0 Outlook clients are forward compatible with CRM 2011!
 - Limitations:
 - Requires that the CRM 4.0 client be on UR7 or later
 - Online only
 - You can go back online with CRM 4.0 once if you were offline when the CRM server was upgraded
 - IMPORTANT: Do NOT upgrade the Outlook client if you are offline as you will lose any data changes that have not been uploaded.
 - Limited to available CRM 4.0 features and functionality
- CRM 4.0 UR7 is required for upgrade to CRM 2011
- No need to reconfigure



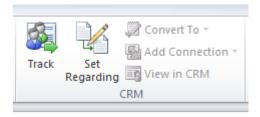
Next Generation UI

- Multiple Organizations
 - Immersion CRM
 - CRMPMG Demo



CRM Ribbon

Ribbon from Home tab.



CRM tab on ribbon from Inbox

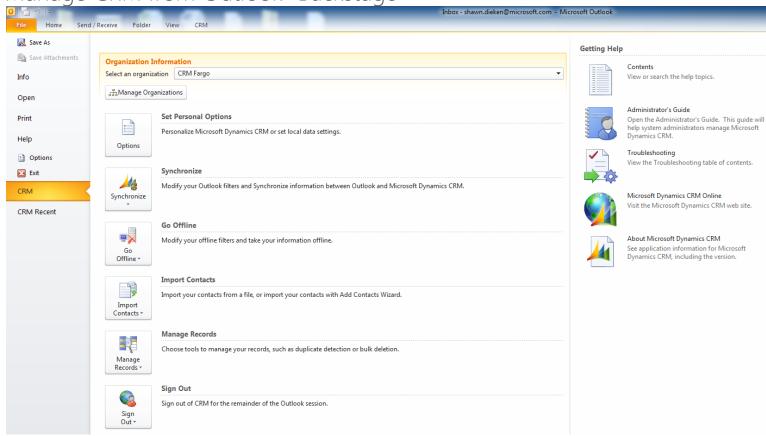


Ribbon from Accounts

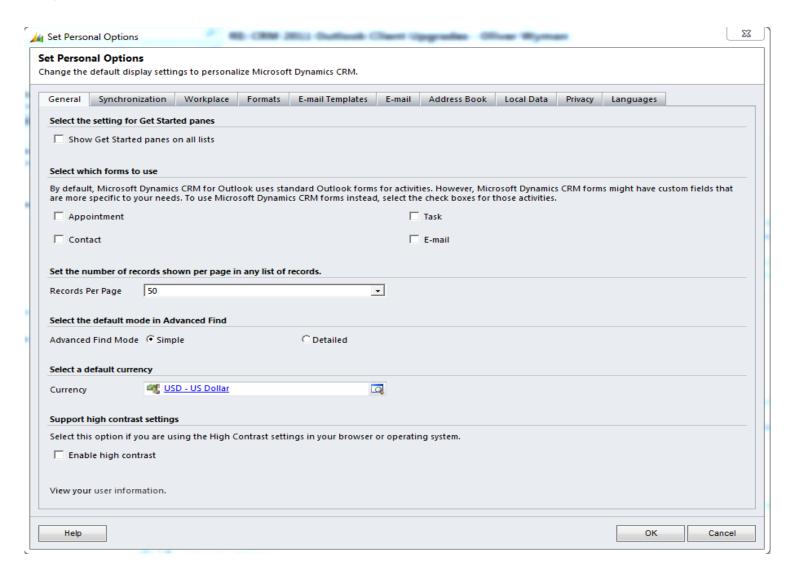


CRM Menu in Outlook "Backstage"

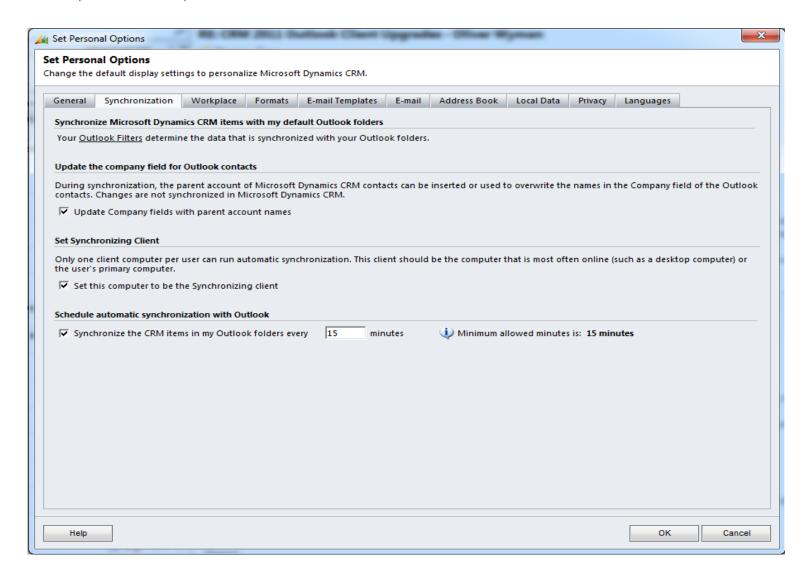
Manage CRM from Outlook "Backstage"

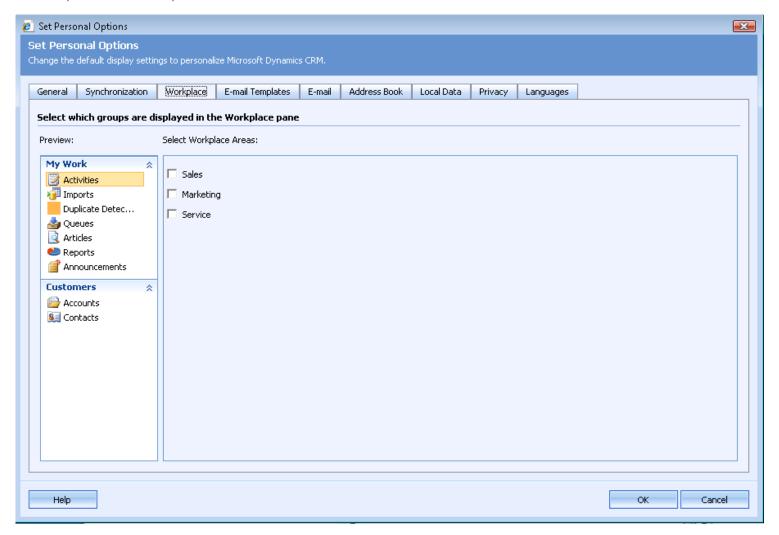


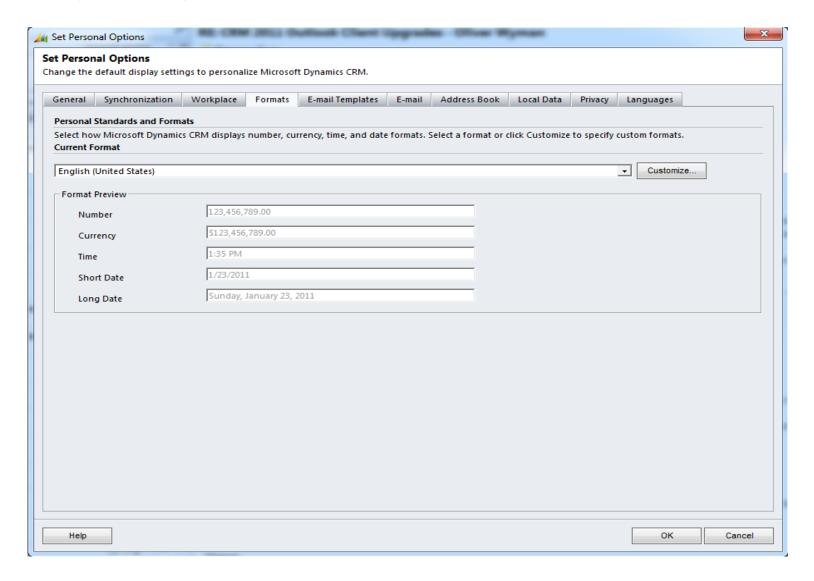
CRM | Personal Options

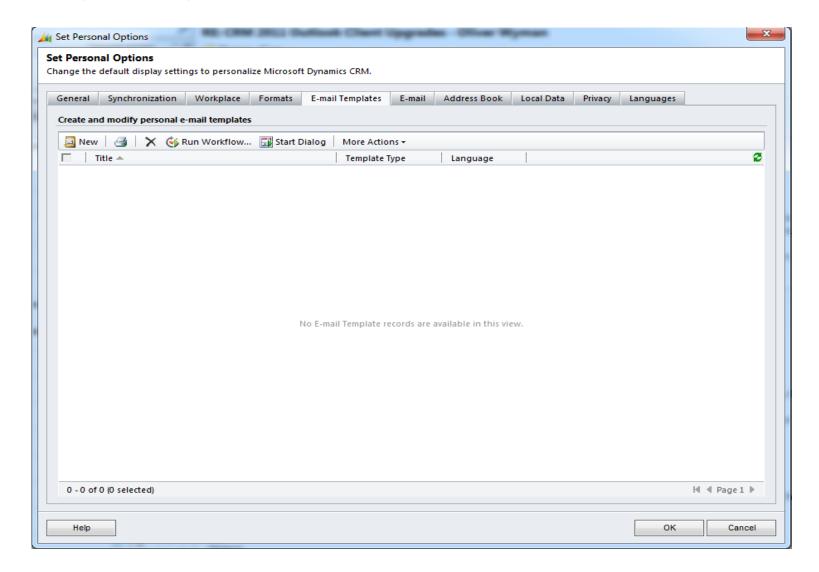


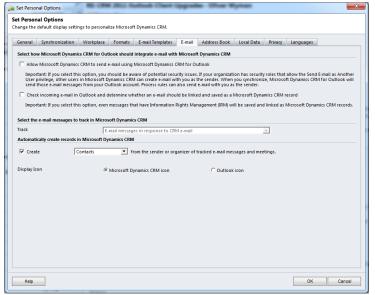
CRM | Personal Options





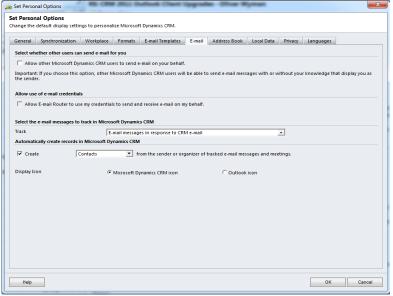


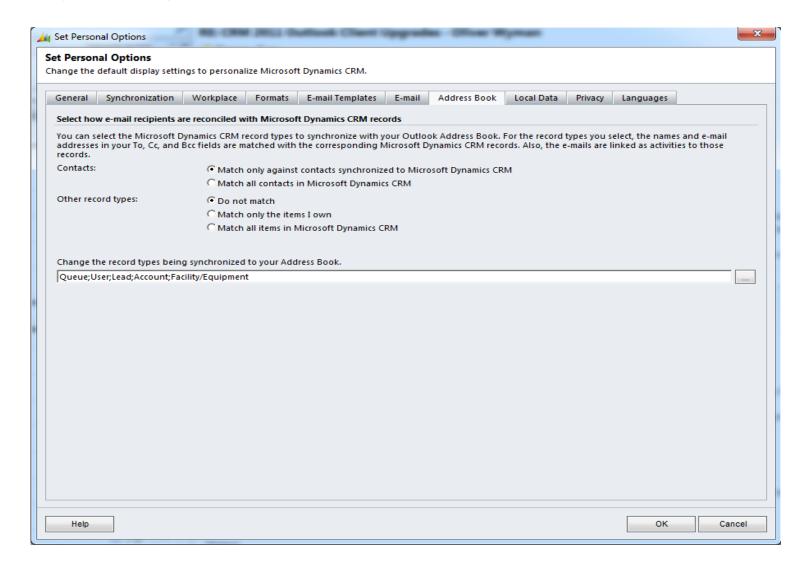


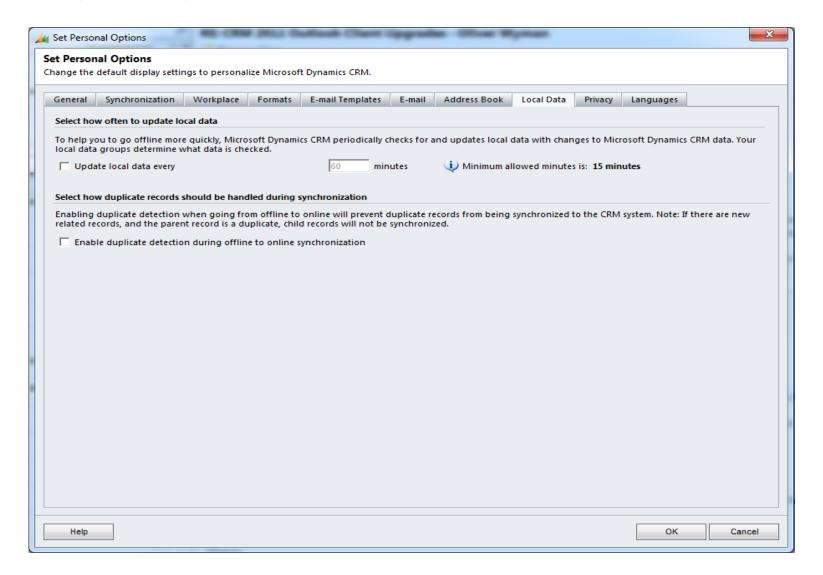


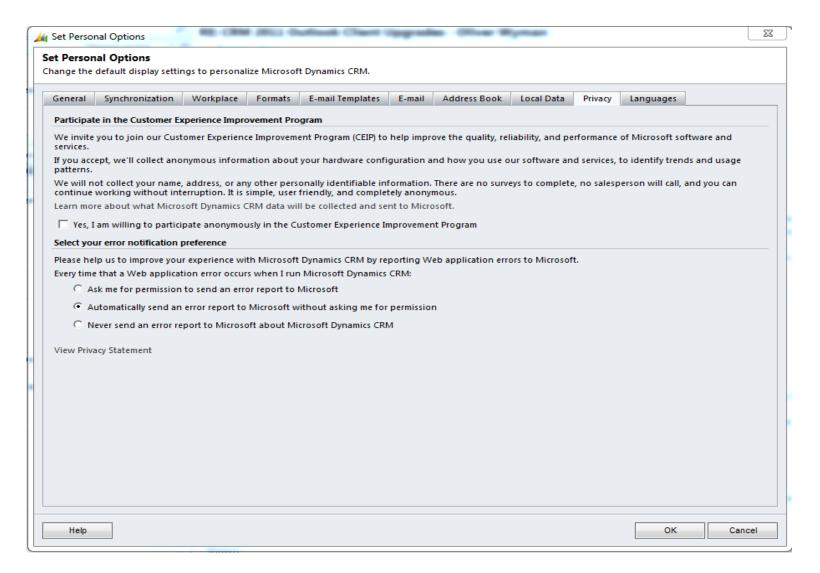
Options if you have Outlook\Outlook

- Options if you have FWD MB\Router OR
- Options if you have Router\Router

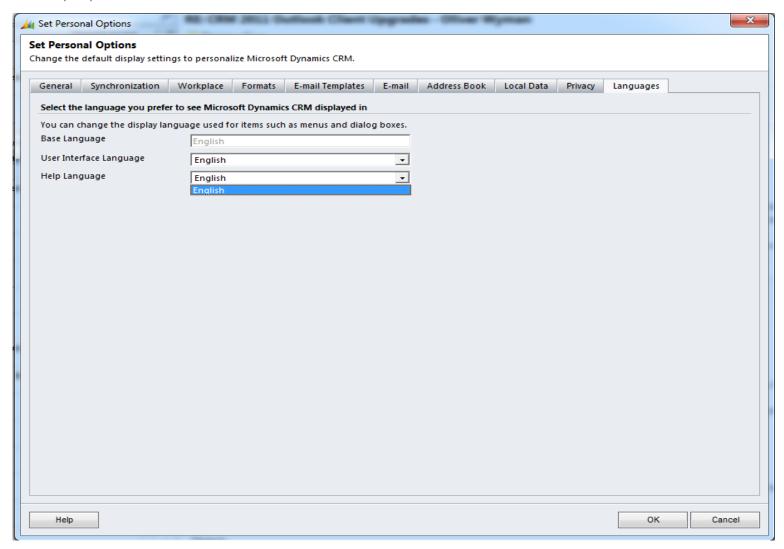


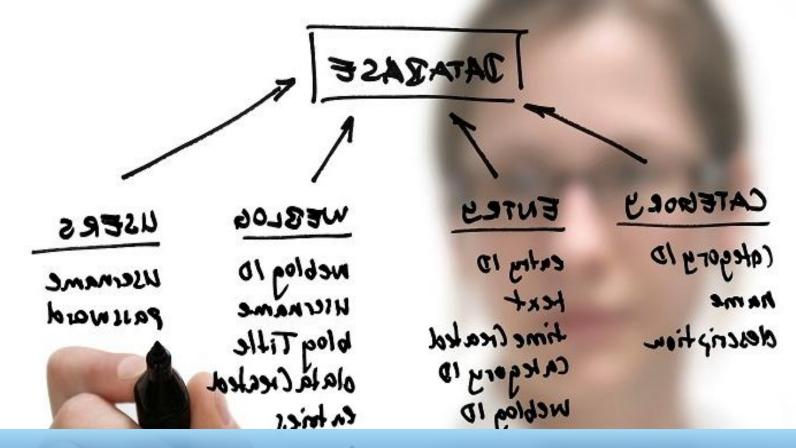






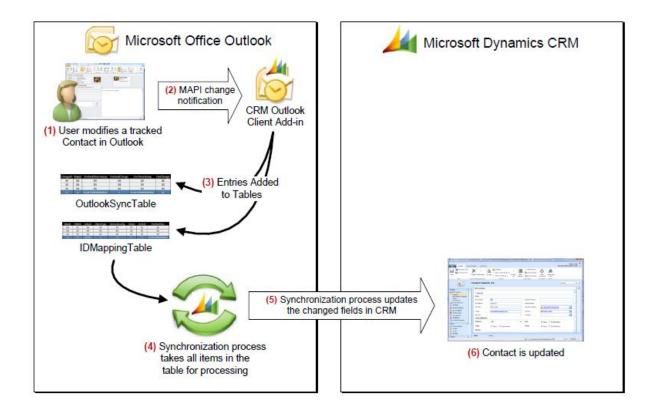
CRM | Options



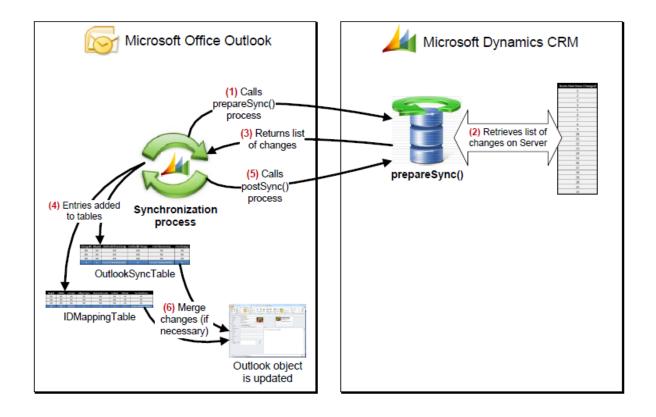


CRM & Outlook Synchronization

Changes to Items in Outlook



Changes to Items in Dynamics CRM

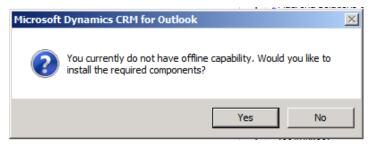


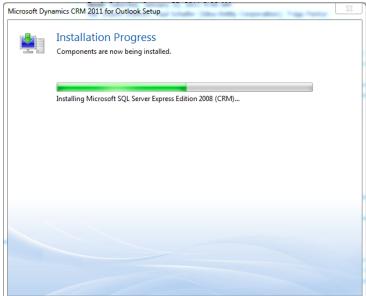




Go Offline

 When a user clicks "Go Offline" they will be prompted to install required components (SQL Express)





Data Filters

- Overview
 - What Are Data Filters
- Data Filters Enhancements
- Shared and System Data Filter Configuration
- Individual Data Filters Configuration
- Personal CRM Options

Offline Synchronization

Modes

Changing between modes

Go Offline Process

Offline Mode

Go Online Process

Performance Enhancements

Offline White Paper (CRM 4.0)

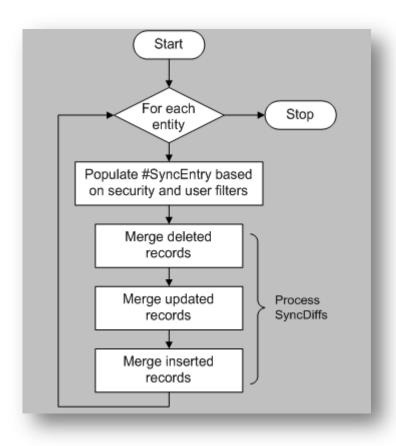
Bing Search: CRM Outlook Nuts and Bolts

The GoOffline Process

- PrepareSync
 - SyncState
- Propagate Schema Changes
- Move Data
- PostSync API

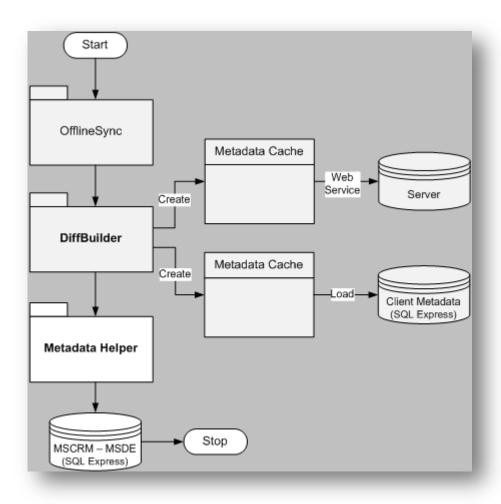
The GoOffline Process

PrepareSync



The GoOffline Process

Propagate Schema Changes

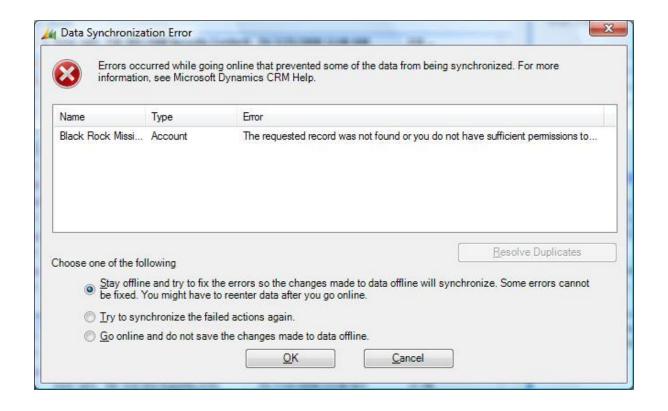


While in Offline Mode

- Changes queued
- Replay to ensure business logic

The GoOnline Process

Conflict Resolution



Additional Resources

- White Paper Outlook Synchronization (CRM 4.0)
 - ➤ Bing Search: Outlook Synchronization in Microsoft Dynamics CRM 4.0



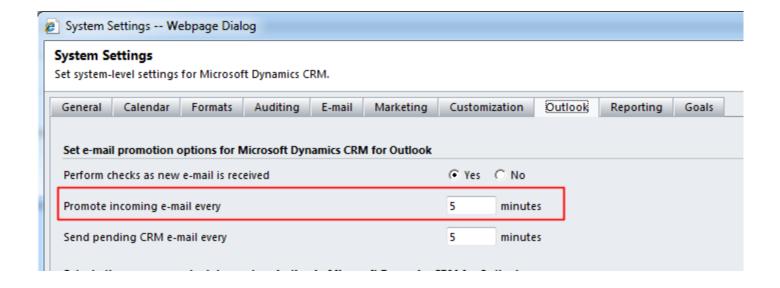
Introducing the E-mail Tagging process

- Performance Challenges
- CRM 4.0 UR7 CRM Outlook Client Changes
- Triggers to the e-mail tagging process
 - The expiration of a timer
 - The arrival of a new e-mail

Triggers

Schedule

Arrival of new e-mails



The E-mail tagging Process

- Client query
- The EmailCache SDF database
- RecentEmailsTable
- EmailIdMappingTable
- Tagging

A look at the tables EmailIdMappingTable:

RecentEmailsTable:

Results:									
	ld	MessageId	Entryld	^					
>	4	<f9b9119fa8793d4391b268c5e7b5b7224356f2bc22@djwdc.wentz.local></f9b9119fa8793d4391b268c5e7b5b7224356f2bc22@djwdc.wentz.local>	00000000B2D16CA788D1DE4D999FB7104AE824B50700F9B9119FA8793D)					
	5	<f9b9119fa8793d4391b268c5e7b5b7224356f2bc21@djwdc.wentz.local></f9b9119fa8793d4391b268c5e7b5b7224356f2bc21@djwdc.wentz.local>	00000000B2D16CA788D1DE4D999FB7104AE824B50700F9B9119FA8793D)					
	3	<f9b9119fa8793d4391b268c5e7b5b7224356f2bc1a@djwdc.wentz.loc< td=""><td>00000000B2D16CA788D1DE4D999FB7104AE824B50700F9B9119FA87930</td><td>)</td></f9b9119fa8793d4391b268c5e7b5b7224356f2bc1a@djwdc.wentz.loc<>	00000000B2D16CA788D1DE4D999FB7104AE824B50700F9B9119FA87930)					
	6	<f9b9119fa8793d4391b268c5e7b5b7224356f2bc20@djwdc.wentz.local></f9b9119fa8793d4391b268c5e7b5b7224356f2bc20@djwdc.wentz.local>	00000000B2D16CA788D1DE4D999FB7104AE824B50700F9B9119FA8793D)					
	7	<f9b9119fa8793d4391b268c5e7b5b7224356f2bc1f@djwdc.wentz.local></f9b9119fa8793d4391b268c5e7b5b7224356f2bc1f@djwdc.wentz.local>	00000000B2D16CA788D1DE4D999FB7104AE824B50700F9B9119FA8793D	5					
	8	<f9b9119fa8793d4391b268c5e7b5b7224356f2bc1e@djwdc.wentz.loc< td=""><td>00000000B2D16CA788D1DE4D999FB7104AE824B50700F9B9119FA87930</td><td>)</td></f9b9119fa8793d4391b268c5e7b5b7224356f2bc1e@djwdc.wentz.loc<>	00000000B2D16CA788D1DE4D999FB7104AE824B50700F9B9119FA87930)					
	9	<f9b9119fa8793d4391b268c5e7b5b7224356f2bc1d@djwdc.wentz.loc< td=""><td>00000000B2D16CA788D1DE4D999FB7104AE824B50700F9B9119FA8793D</td><td>)</td></f9b9119fa8793d4391b268c5e7b5b7224356f2bc1d@djwdc.wentz.loc<>	00000000B2D16CA788D1DE4D999FB7104AE824B50700F9B9119FA8793D)					
	40	FORCELOS LOS CONTROCAS POR CONTROL CON	000000000000000000000000000000000000000	7					

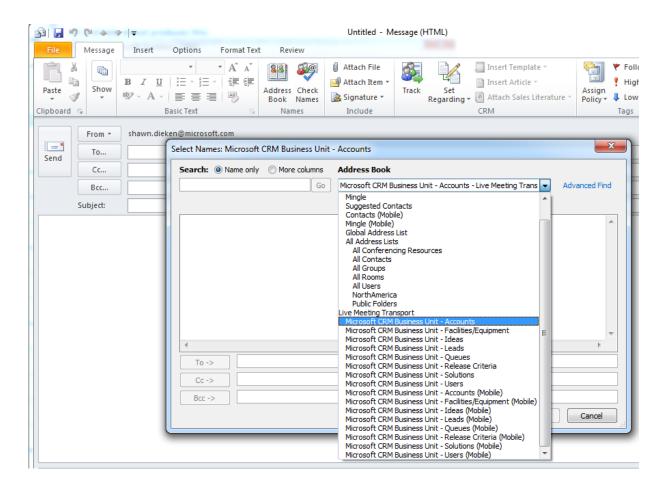
Results:										
	ld	Messageld	Entryld	Crmld	Regardingld	IsDeletedLocally				
•	1	<0EA3BD8C-0F15-DF11-A9E5-00155D40DA04>	00000000B2D16CA788D1DE4D999FB7104AE824B507	16a1cd8e-0f15-df11-bbb4-00155d40da01		False				
	2	<f9b9119fa8793d4391b268c5e7b5b7224356f< td=""><td>00000000B2D16CA788D1DE4D999FB7104AE824B507</td><td>35c89f24-af15-df11-bbb4-00155d40da01</td><td></td><td>False</td></f9b9119fa8793d4391b268c5e7b5b7224356f<>	00000000B2D16CA788D1DE4D999FB7104AE824B507	35c89f24-af15-df11-bbb4-00155d40da01		False				
	3	<f9b9119fa8793d4391b268c5e7b5b7224356f< td=""><td>00000000B2D16CA788D1DE4D999FB7104AE824B507</td><td>2bc89f24-af15-df11-bbb4-00155d40da01</td><td></td><td>False</td></f9b9119fa8793d4391b268c5e7b5b7224356f<>	00000000B2D16CA788D1DE4D999FB7104AE824B507	2bc89f24-af15-df11-bbb4-00155d40da01		False				
	4	<f9b9119fa8793d4391b268c5e7b5b7224356f< td=""><td>00000000B2D16CA788D1DE4D999FB7104AE824B507</td><td>21c89f24-af15-df11-bbb4-00155d40da01</td><td></td><td>False</td></f9b9119fa8793d4391b268c5e7b5b7224356f<>	00000000B2D16CA788D1DE4D999FB7104AE824B507	21c89f24-af15-df11-bbb4-00155d40da01		False				
	5	<f9b9119fa8793d4391b268c5e7b5b7224356f< td=""><td>00000000B2D16CA788D1DE4D999FB7104AE824B507</td><td>17c89f24-af15-df11-bbb4-00155d40da01</td><td></td><td>False</td></f9b9119fa8793d4391b268c5e7b5b7224356f<>	00000000B2D16CA788D1DE4D999FB7104AE824B507	17c89f24-af15-df11-bbb4-00155d40da01		False				
	6	<2ECF0302-B015-DF11-A9E5-00155D40DA04>	00000000B2D16CA788D1DE4D999FB7104AE824B507	d2f580ff-af15-df11-bbb4-00155d40da01		False				



CRM Address Book Provider (ABP)

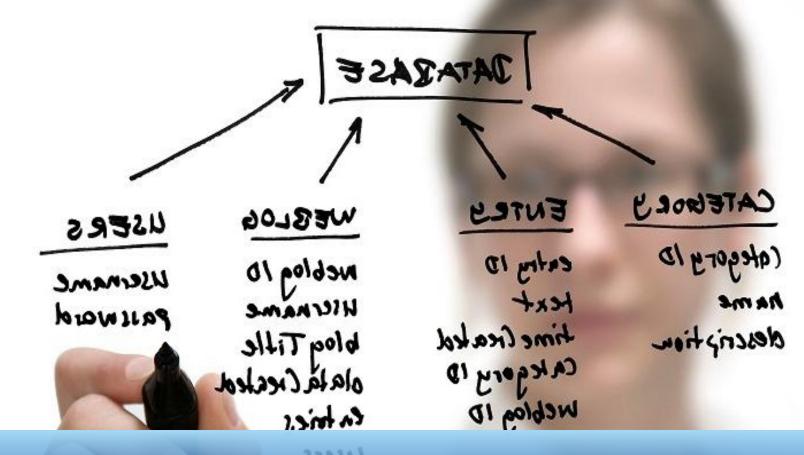
Address Book

CRM Address Book available in Outlook



ABP Location

- CRM ABP Data is stored in a SQL CE file
 - OrganizationIDFalse.sdf
 - C:\Users\<user>\AppData\Local\Microsoft\MSCRM\Client



CRM Updates via Microsoft Update

CRM Updates via Microsoft Update

- Microsoft Dynamics CRM is now included with Microsoft updates
 - Setup Updates
 - Update Rollups
- The CRM Outlook client will respect the Microsoft Updates settings within the clients Windows Microsoft Updates options



Timezones in CRM Outlook client

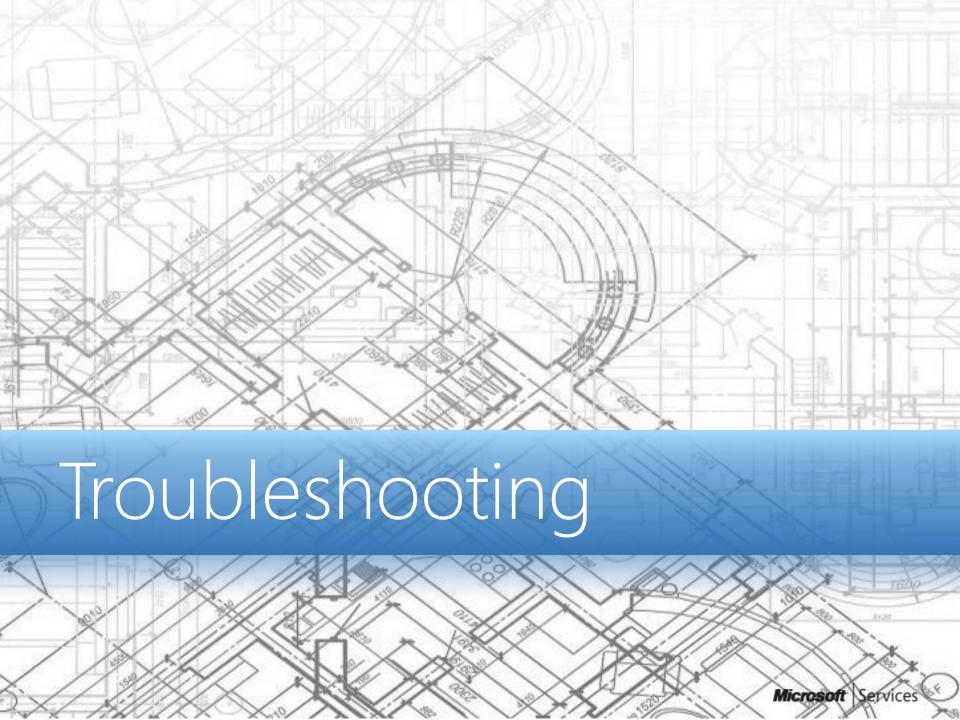
- The first time you start Outlook:
 - 1. Get the OS Timezone
 - 2. Make a call to CRM to change the user's CRM Timezone to the OS Timezone
 - 3. Save the OS Timezone in the local registry.
- Subsequently:
 - 1. Get the OS Timezone
 - 2. If is the same as the registry value, do nothing
 - 3. Else;
 - Make a call to CRM to change the user's CRM Timezone to the OS Timezone
 - Save the OS Timezone in the local registry.
- Example: If you take a laptop to Japan and your OS TZ changes, appointments for example will sync correctly to Outlook.

Mail Merge

- Mail merge allows you to send personalized messages to a large group of people at once without them knowing who else you have sent it to.
- Available via the web and Outlook clients
- Outlook Client allows for additional functionality
 - Creates activities to track mail merge
 - Upload template to CRM for future use
 - Ability to create Quick Campaigns

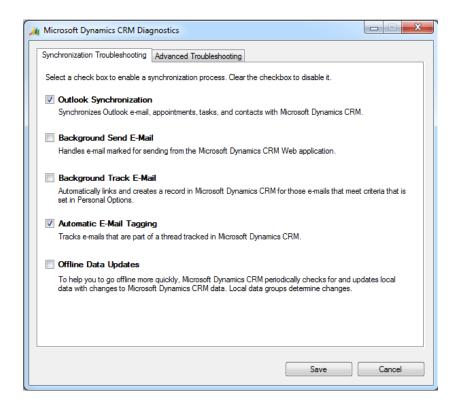
Mail Merge (cont.)

- Mail Merge is available to users who have the correct security privileges assigned.
 - Additional security settings are available for Mail Merge templates
 - Leads, Accounts, Contacts, Opportunities, Quotes and custom entities

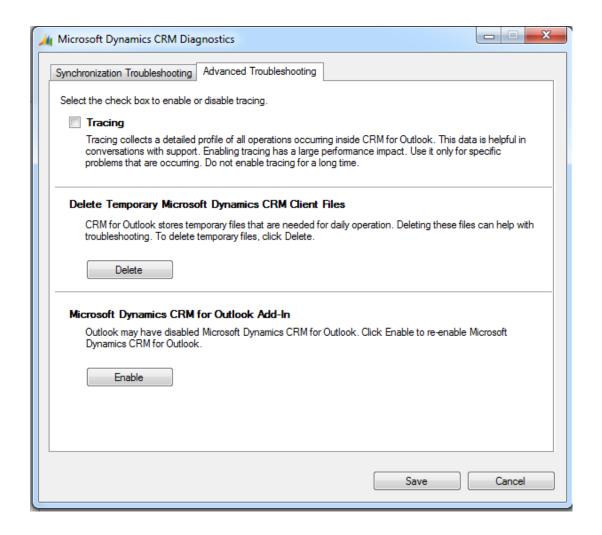


Microsoft Dynamics CRM Diagnostics

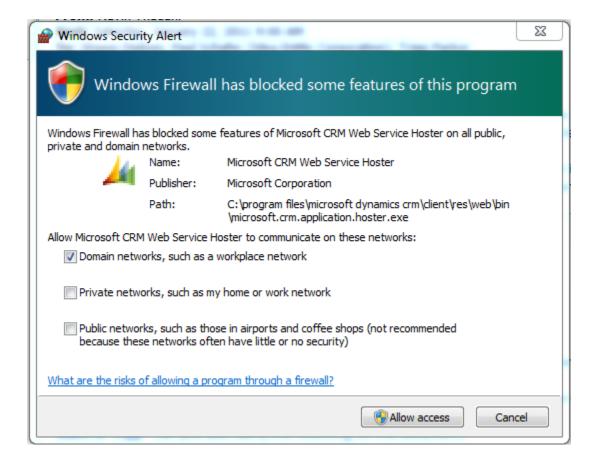
- Available on every CRM Outlook client
 - Start | All Programs | Microsoft Dynamics CRM 2011 | Diagnostics



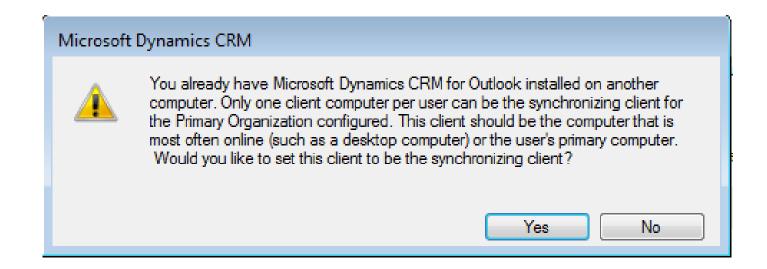
Microsoft Dynamics CRM Diagnostics



Message when trying to use CRM client offline



- Message when installing 2nd client
- Example: Laptop & Desktop scenario or Retiring old machine
 - Resolution: In Outlook go to CRM > Options and make the client the primary synch client on the Synchronization Tab



- Client Configuration Issues
 - Confirm that user is not prompted for login credentials when accessing web client
 - Managed Passwords
 - Verify DNS is setup correctly and NSlookup's resolve
 - KB 814591 Install and Configure DNS on Win2K3 Server
 - KB 200525 Using Nslookup.exe
 - KB 911353 Removing Duplicate SPN's
 - Check Deployment Properties table in MSCRM_Config
 - KB 970630 Error during CRM Outlook configuration
 - KB 947423 Updating port # or host header (NLB)

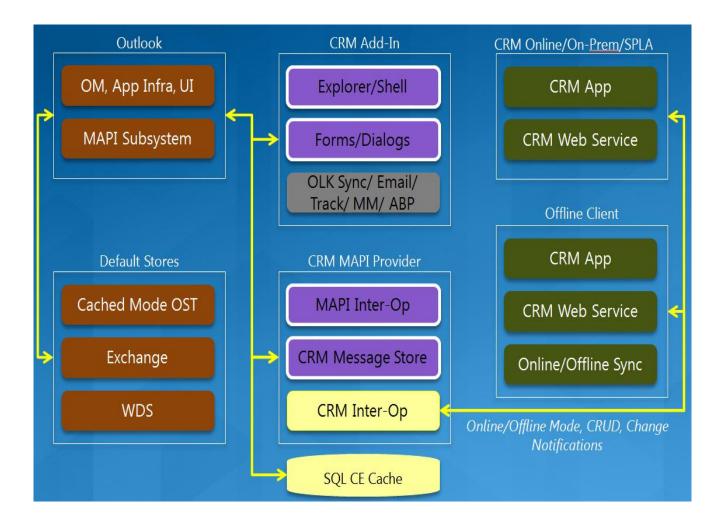
- Client Login Issues
 - Can the user login to the web client successfully?
 - Does the CRM user have a role assigned?
 - Confirm Managed Passwords are not out of date
 - Temporarily disable other 3rd party Addin's
 - If using IFD Confirm IFD URL is configured correctly

- Client Performance
 - Install latest Update Rollup
 - Temporarily disable synchronizations
 - Temporarily disable other 3rd party Addin's and re-enable one by one
 - Gather crash and\or hang dumps
 - KB 286350 ADPlus Tool
 - Monitor Performance Counters

Uninstall

- Add\Remove Programs
- Select Microsoft Dynamics CRM for Outlook and then click Change.
- Select Uninstall
- Delete the Microsoft Dynamics CRM folder < systemdrive >:\Program Files\Microsoft Dynamics CRM.
- Offline Client: Delete the database folder (and files) < systemdrive > :\Program Files\Microsoft SQL Server\MSSQL\$CRM.

MAPI Integration

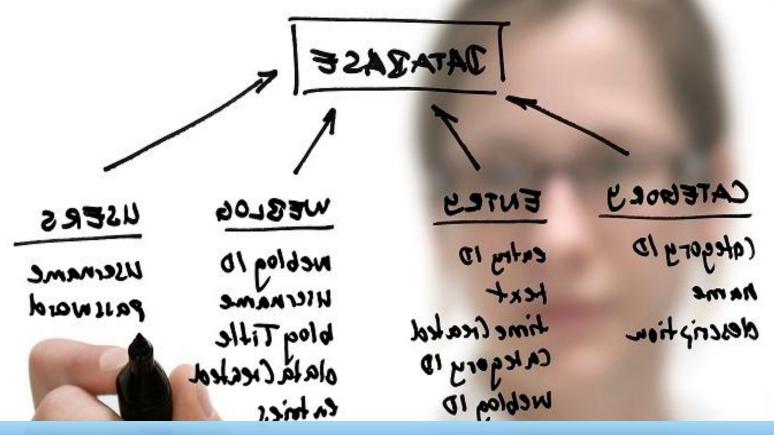


Summary

- New Features
- CRM Outlook Clients
- Install and Configuration
- What is installed
- Client Configuration
- Terminal Server & Citrix
- Upgrade Flow
- CRM Outlook Client GUI
- CRM & Outlook Synchronization
- Go Offline Process
- CRM E-mail Tagging
- CRM Address Book Provider
- CRM Updates
- Troubleshooting







Questions?

users blog tect