

Microsoft CRM 4.0 User Handbook

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by Stamati Crook

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To Victor and James for being the only guys left to talk tech with and Marge for helping me out with CRM.

1. Contents

1.	Con	tents	. 3
2.	Intro	duction	. 6
3.	Feat	ures	. 7
3.	.1.	Activities	. 7
3.	2.	Microsoft Outlook Integration	. 7
3.	3.	Customisation	. 8
3.	.4.	Programming	. 8
3.	5.	Security	
3.	.6.	Issues	
3.	7.	Competitors	10
4.	Soft	ware	11
4.	.1.	Client Software	11
4.	.2.	Server Software	11
4.	3.	Hosted CRM	11
4.	.4.	CRM Live	12
4.	5.	External Connector	12
4.	.6.	Other Software	12
4.	7.	Security	13
4.	.8.	Virtual PC	13
5.	Usin	g CRM	15
5.	.1.	Views	16
5.	.2.	Forms	17
5.	3.	Notes and Attachments	20
5.	.4.	Advanced Find	
5.	5.	Exporting CRM data to Excel	21
5.	.6.	Mail Merge to Word	22
5.	7.	Word Templates	23
5.	.8.	Email	23
5.	9.	Email Templates	24
5.	.10.	Send Direct Email	25
5.	.11.	Quick Campaigns	26
5.	.12.	Sharing and Assignment	27
6.	Cust	tomers	29
6.	.1.	Accounts	29
6.	.2.	Contacts	29
6.	.3.	Relationship Roles	30
7.	Activ	<i>v</i> ities	31
7.	.1.	Tasks	33
7.	.2.	Email	33
7.	.3.	Fax	33
	.4.	Phone Call	
7.	5.	Letter	
7.	6.	Appointment	
	.7.	Service Activity	
	.8.	Campaign Response	
8.	Outl	ook Client	36
-	.1.	Tracking Contacts	
0.			51

8.2.	Mail Merge in Outlook	39
8.3.	Tasks	
8.4.	CRM Options	
8.5.	Email Synchronisation	
8.6.	Tracking and Synchronisation Options	
8.7.	Laptop Client Synchronisation	
8.8.	Diagnostic Tool	43
9. Wor	kplace	45
9.1.	Calendar	
9.2.	Queues	
9.3.	Announcements	47
9.4.	Personalise Workplace	47
10. P	roducts	4 0
10.1.	Unit Groups and Items	
10.1.	Price List Items	
10.2.	Discount Lists	
	ales	
11.1.	Leads	
11.2.	Opportunities	
11.3.	Quotations	
11.4.	Orders	
11.5.	Invoices	
11.6. 11.7.	Currency Sales Administration	
11.7.		
11.8.	Sales Pipeline Sales Quotas	
	larketing	
12.1.	Marketing Lists	
12.2.	Campaigns	
12.3.	Campaign Activities	
12.4.	Distribute Campaign Activities via Mail Merge (Outlook)	
12.5. 12.6.	Campaign Templates	
	Campaign Responses	
13. S	ervice	
13.1.	Cases	69
13.2.	Contract Template	
13.3.	Contract	
13.4.	Knowledge Base	73
14. S	cheduling	75
14.1.	Resources and Equipment	
14.2.	Service Type	
14.3.	Scheduling an Activity	
14.4.	Preferred Resources	
14.5.	Service Calendar	81
14.6.	Business Closures	82
15. R	eports	83
15. K	Report Viewer	
15.1.	Report Wizard	
15.3.	Running Reports	
15.4.	Scheduling Reports	

15.5	5. SQL Server Reporting Services	88
16. 16.1 16.2 16.3 16.4	Workflow Steps Dynamic Values Workflow Conditions	
16.5 16.6		-
17.	Security	
17.1		
17.2	2. Users	
17.3	Security Roles	98
17.4	Teams	99
18.	Customisation	100
18.1	. Views	100
18.2	Preview Form	101
18.3		
18.4		
18.5		
18.6	•••••	
18.7		
18.8		
18.9		107
18.1	0. Relationship Roles	107
19.	Data Management	109
19.1		
19.2	Bulk Import	109
19.3		
19.4		
19.5	5. Third Party Software	111
20.	Resources	112
20.1		
20.2		
20.3	Internet and Blogs	112
20.4	Microsoft Training	112
20.5		
21.	Index	114
22.	redware research limited	117

2. Introduction

The Microsoft CRM 4.0 User Handbook is for people using and evaluating Microsoft CRM. A lot of ground is covered with an emphasis on providing a full and concise summary of all the features of CRM rather than a step-by-step guide.

Customer Relationship Management (CRM) software can be configured to influence and monitor many of the communication processes that your business has with its customers. This handbook helps you explore all the functionality that Microsoft CRM offers you as a user.

You will understand the sales cycle, how to run a marketing campaign, and how to schedule appointments and service activities. The user interface is explored in full, both from a web browser and from the Outlook client for CRM, and you will learn how to run a mail merge to Word and export to Excel.

Customisation and workflow features are covered from a user point of view and we do not discuss installation or programming issues (although the author is a programmer). We recommend that you purchase **Working with Dynamics CRM 4.0** by Mike Snyder and Jim Steger if you need to begin extending CRM beyond what is possible with the user interface.

This document provides you with a comprehensive look at Microsoft CRM 4.0 and can be supplemented with books covering CRM 3.0 which are still relevant. One recommendation would be the **Your working day with Microsoft CRM** document distributed by Microsoft (see resources).

There are many facets of CRM, and we cover most of them here. The book does not need to be read sequentially and you can dip into each chapter as required. You could skip the first two chapters if you are keen just to get started with Microsoft CRM but we encourage you to read the chapters on Using CRM, Customers, and Activities (and Outlook if you are using it) before exploring other areas.

The document you are reading is available online at <u>http://www.redware.com/mscrm/handbook</u> and you will find corrections and additions there. Please register for us to send you details of updates to this book and future publications.

We welcome comments and suggestions by email to <u>stamati.crook@redware.com</u>. Please notify us of any errors or suggestions so that they can be corrected promptly.

3. Features

This section looks at some of the features and benefits of Microsoft CRM 4.0 software. You can skip straight to the chapter on Using CRM if you want to start with practical tips on using the software.

Microsoft has looked at the relatively mature CRM marketplace and focussed on core functionality:

- Contact Management for centralised storage of customer communication history.
- **Marketing** for lead generation and progress monitoring of leads until they enter the sales cycle. Marketing can also manage campaigns for lists of existing customers.
- Sales automation allowing quotations to be made on products with various different pricelists and the promotion of these through to the final order.
- Customer support for tracking cases involving customers who may be on support contracts.
- Service Scheduling for scheduling resources for customer related activities such as engineering visits.

3.1. Activities

Activities form the basic unit of workflow and are usually assigned an **owner** responsible for carrying them out.

The Activity Types are:

- Tasks.
- Emails.
- Phone Calls.
- Faxes.
- Letters.
- Appointments.
- Service Activities.
- Campaign Responses.

Activities are created by a user and attached to a CRM record or created automatically as part of a workflow process. Incoming emails can be created automatically as email activity records within CRM and you can easily convert them to leads, sales opportunities, or customer support cases.

An elaborate **workflow** layer has been implemented to allow sophisticated business processes to be applied to each kind of entity (without programming). A sales enquiry task, for example, could automatically be referred to the appropriate manager if not responded to within 24 hours.

Activities are integrated with the **Task List** and the **Calendar** in **Microsoft Exchange** for enterprise wide resource scheduling. This is a major benefit of Microsoft CRM in comparison with other software.

3.2. Microsoft Outlook Integration

CRM integration with **Exchange** (much improved in CRM 4.0) provides one level of integration with Microsoft Outlook. There is also a plug-in for Outlook which customises the Outlook interface to access the CRM application and control data synchronisation. This is particularly useful for organisations that are already heavy Outlook users, as individual emails, tasks, contacts and appointments can be quickly tracked in CRM. Training costs are also lower if the users are already familiar with Outlook.

The Laptop version of Outlook for CRM installs a series of components allowing the full CRM experience (on a subset of data) to take place away from the office. Full synchronisation of data occurs on rejoining the network and the synchronisation software is clever enough to include system

customisations (including programmed plug-ins) which are made available on remote laptops together with the core CRM functionality.

3.3. Customisation

Perhaps the greatest strength of Microsoft CRM is the robustness of the customisation framework which allows an experienced end user to perform additions and changes to the underlying database structure that powers CRM:

- **Views** of the data and search facilities can easily be customised by the end user and data exported into a spreadsheet for simple reporting.
- **Workflow** can be created against each kind of entity to match complex business processes without programming.
- The report wizard allows simple reports to be built without programming.
- Sophisticated security can be defined around users and business units.
- New attributes can be easily defined for entities.
- **Forms** can be modified but only one form is permitted for each entity (which can cause issues in larger organisations where different departments have different views of the data).
- New entities can be created and related to existing entities.

3.4. Programming

Microsoft excels in providing developers with access to the internal nuts and bolts of their software applications and CRM is no exception. Organisations with access to programmers can benefit from the following features:

- Control of the end-user experience with JavaScript programming on forms.
- Full programmatic access to CRM with the **web services** software development kit for integrating existing applications (and building new ones).
- Access to external web pages within CRM using the iframe control on forms.
- Integration of complex SQL Server Reporting Services reports into the CRM user interface.
- Programming **plug-ins** to control many user interface and application events to alter the default behaviour of CRM. This behaviour can also be synchronised to the laptop client.
- Read-only access directly into the **database** for integration with a wide range of applications whilst respecting the security permissions of each user.
- Workflow can be supplemented with code driven functionality.
- Integration with **Sharepoint**.

3.5. Security

CRM has advanced **security** features based on the **ownership** of each entity occurrence by a user. Security can be defined to allow users to keep data private or share information with their business unit or the organisation as a whole.

CRM 4.0 also introduces the idea of **multi-tenancy**, in which multiple companies (or departments) can have completely independent CRM installations running on the same hardware. This is the basis of the hosted implementation of CRM but can be useful in certain corporate situations.

Note: Each user is licensed to access multiple CRM installations.

3.6. Issues

There are some issues with Microsoft CRM that need to be resolved for a successful implementation. Most of these cause **user adoption** problems particularly if users have already had experience of other CRM or sales software.

Microsoft have put a great deal of effort into integrating Outlook with CRM, and Outlook users will require a relatively small amount of training to be able to track contacts, appointments, emails and

tasks in CRM. However, many users of CRM will use the application to the full and need training to understand how the application works.

There are issues with any software package especially one that is designed to assist communication with customers. This section details some of the problems that the author has come across in implementations over the last year or so. Your organisation may encounter a completely different set of problems.

Many issues can be resolved quickly by customisation to remove unwanted fields from the existing forms and by defining new attributes for existing forms. For example, the **company name** field must be entered against a lead even for B2C marketing where the organisation is dealing directly with retail customers and this property may need to be changed before users start using the system.

CRM handles B2B and B2C customer relationships with a virtual **customer** entity which can be either an **account** (company) or **contact**. There are some problems with the lead entity which displays the **full name** of the contact on the hyperlink from related records where most B2B organisations might want the **company name** to be displayed. Another issue occurs here if you change the format of the **full name** after implementation, resulting in inconsistent records (as the field is only set when updating a record). These issues can be fixed programmatically.

The promotion of leads to **opportunities** during the sales cycle is one area of confusion which may require thought and training to overcome. Converting a lead to an opportunity creates a new account and contact occurrence as well as the opportunity record. Many users are confused by having data for a customer potentially stored in many places. Relevant historical information might be stored in any of the lead, opportunity, contact, or company entities and related activities. Other software packages offer a **single view of data** for a prospect or customer and this complexity can cause user adoption issues in the early stages of a CRM implementation.

There can be issues where users need to use **multiple email addresses** to send emails. Outlook is more flexible here than the web client and allows several email accounts to be set up so the sender can have different email identities. Another usability issue is that email templates do not have **attachments** and this type of email needs to be configured with workflow.

Letters can be generated easily from within CRM or the Outlook Client with the **mail merge** facility and the Outlook Client can generate the corresponding **letter** activity to record that the letter was sent. You need to use the Outlook Client if you want to automatically attach the merged document into the notes field of the generated activity.

Workflow also needs careful planning and can cause user adoption issues (although this is not the fault of the software). On the one hand, workflow needs to be prototyped and tested, particularly for business critical tasks, before rolling out the implementation. On the other hand, **complex workflow can bog down user acceptance** and can require considerable training effort.

Contracts can sometimes be difficult to manage because they are made read-only once they have been invoiced. This makes it difficult to modify contract details or add new equipment as line items once the contract is live.

There are also some usability issues with Microsoft CRM, some of which stem from its implementation as a **web client with limited access to the desktop**. For example, the creation of mail merge letters and integration with Word is tighter from the Outlook client than from the web client.

Another example that can slow down an implementation is the impracticality of entering **large product pricelists** via the user interface. At some stage in a complex implementation involving large pricelists you will need to hire programming talent (although clever use of importing might overcome some problems here).

3.7. Competitors

Leaving aside cost implications, any organisation wishing to implement CRM which is already a heavy user of **Microsoft Exchange** and other Microsoft technologies and has access to business analysts to help configure the installation would be well advised to implement Microsoft CRM.

There are several well established competitors providing similar functionality and most are fully featured out-of-the-box and require less customisation effort than Microsoft CRM. A small selection is listed below together with a subjective opinion as to their place in the CRM marketplace:

- ACT! is a respectable sales and marketing product for small groups of sales people. It is relatively cheap and requires few resources, and many sales people are already familiar with it. It allows several databases to be defined easily and is good for running individual campaigns. The software cannot cope with large numbers of users, and ACT! is best applied in a sales scenario, perhaps with a team of fewer than 10 persons, or where salespeople work independently on separate databases.
- **Goldmine's** history is similar to that of ACT!, although they implemented a robust database infrastructure some time ago and is better for larger, sales-oriented, businesses (perhaps up to 40 people).
- Salesforce.com is moving into the CRM marketplace from sales automation and is very
 popular in the US as a hosted system with a pay-monthly subscription. Microsoft has specifically
 designed many of the technical features of CRM 4.0 to compete directly against
 Salesforce.com.
- Accounting vendors often offer a CRM solution to complement their accounting packages. Sage
 is one such vendor that is strong in the CRM marketplace with Act! and Saleslogix and other
 packages. However, the fact that both software packages come from the same vendor does not
 always mean that there is good integration between them.
- **Siebel** (Oracle) and other vendors offer high end CRM implementations. Again Microsoft is specifically addressing high end enterprises with 6,000+ users already possible with Microsoft CRM 3.0.

4. Software

This chapter describes the software components that make up a typical CRM installation. Skip this section and move to the **Using CRM** section if you are keen to get on with looking at CRM functionality.

4.1. Client Software

CRM users can access all CRM functionality either on the local network or over the Internet using just **Internet Explorer**.

Note: Internet Explorer 6/SP2 or Internet Explorer 7 must be used.

The same functionality and user interface can also be accessed from the **Desktop Client for Microsoft Outlook**, which also offers better integration with Microsoft Office and the Windows Desktop. There are also open source and third party applications allowing access to CRM from **Mobile Devices** or within **Microsoft Office**.

The laptop version allows a subset of the data (including customisations) to be synchronised with a special **Laptop Client for Outlook**. The user can go off network, modify local CRM data and synchronise changes back into CRM when they reconnect to the network (only one user can be set up on each machine).

Microsoft has also announced special pricing for user licences that are **read-only** or attached to a specific **device** so that shift workers can use the same PC but consume only one license. **Administrative** users can also be set up (without a licence) to access administrative functions but cannot access CRM data.

4.2. Server Software

Microsoft CRM 4.0 is provided as a web server application which can be implemented **on premise** in different ways:

- CRM **Workgroup** is licensed for up to 5 users.
- CRM Professional allows a single CRM installation on one server.
- CRM Enterprise allows multi-tenancy where several CRM installations can run side by side on the same server and also allows you to share the load on multiple servers if you have a large number of users.

Note: The Standard version of CRM 3.0 has been discontinued, and user licences will be upgraded to the Professional version in certain circumstances.

The server is a **web application** running on Internet Information Services (**IIS**) written in the **.NET Framework 2.0** and utilises a single **SQL Server 2005** database (or one for each CRM tenancy with the Enterprise version). **SQL Server Reporting Services** are used for producing reports integrated with the CRM user interface.

Exchange Server is optional, as the local SMTP server can be used for outgoing mail and the **email router** can be configured either for Exchange or for POP3 email servers or the Outlook Client used to control emails. Workflow is implemented with the **Windows Workflow Foundation** although this is hidden from the average user. **Language packs** are available for over 20 languages to localise the application with different users able to access a different language pack on the same CRM installation.

4.3. Hosted CRM

Microsoft is positioning CRM 4.0 directly against Salesforce.com which has 400,000 users in the USA and has pushed the boat out to ensure that Microsoft CRM 4.0 can operate as a **fully hosted**

system supported by a network of hosting resellers. **Multi-tenancy** allows multiple CRM installations to share the same hardware, reducing the costs for the hosting providers.

All the functionality of CRM 3.0 is now supported within the CRM application so that all customisation can be done by an experienced user or analyst using a web browser. Workflow and simple reports can be created without needing to run any software on the server and the database structure can be altered by a user using the web interface or by a programmer using web services over the internet.

Note: Most hosting providers will probably limit functionality in a similar fashion to CRM Live at least for a standard service (see below).

4.4. CRM Live

A Microsoft hosted version of CRM is available in the USA as part of the **CRM Live** service and is available in **standard** and **enterprise** versions. Both versions allow customisation, workflow, reporting (with the wizard), and programmer access to the CRM web services with a minimum of 5 users.

The main restrictions of CRM Live (probably shared with most standard hosted implementations) include the inability to read the database directly and not being able to add programmed plug-ins to alter the default behaviour of the application (although some hosting resellers might provide these features). Reports can only be created with the report wizard and programmers cannot add their own reports to your CRM installation. The ability to run a separate web site and web services on the same domain is also useful for some situations.

The Enterprise version has more storage space and allows the use of the Laptop Outlook Client for CRM which can synchronise remote data for use when not connected to the internet. Programmers should note that the CRM web services are available within the Laptop client for CRM, raising interesting possibilities for integrating data locally onto a laptop and then synchronising with the CRM Live system.

Microsoft has taken care to make it easy to migrate from a hosted solution to an on premise solution if you eventually decide to purchase the software for use on your own network.

The CRM Live service for CRM is not expected outside the USA until early 2009. Microsoft is encouraging partners to offer **on demand** hosted CRM services and many will also be bundling hosted Exchange email.

4.5. External Connector

Microsoft has a special licensing requirement for web sites and external applications that integrate with CRM. You do not need an **external license** if you are using a web site to capture data to add into CRM without showing any existing CRM data to the web site users.

The external connector license is required if customers or agents of the organisation regularly log into the web site and view or update data already entered into CRM. You are not supposed to use the External Connector to allow internal users to connect and update CRM data (unless these users have a valid CRM licence).

Note: Using a read-only licence and importing data manually into CRM via a spreadsheet file could be a workaround with regard to the requirement for an external connector licence.

4.6. Other Software

Microsoft provides additional software:

• **CRM Email Router** to synchronise incoming and outgoing email with CRM automatically (you can also do this with the Outlook Client). Both Exchange and SMTP/POP3 mail server infrastructures are now supported.

- The SDK documents the **web services** and allows you to access CRM data from your own application.
- The SDK also allows you to integrate software modules **as plug-ins** (written in .NET 2.0) directly into the server application.
- The data migration manager allows you to migrate thousands of records into CRM efficiently.
- The **integration service** (not seen by the author) allows synchronisation of data between applications to be configured.
- Microsoft also offers integration with MS Dynamics accounting packages.

There are some third-party add-ons for Microsoft CRM produced by independent software vendors, some of which are mentioned in the chapter on resources.

Note: The author sells add-ons for CRM to integrate with text messaging and telephone systems and popular accounting packages in the UK. Please see <u>http://www.redware.com/mscrm</u> for more details.

4.7. Security

The CRM client is a web-based application which runs on Internet Explorer only and uses **Windows security** for user authentication. You can also set up authentication to allow internet users who do not log onto a VPN to access CRM with a user name and password. Emails are sent using the server (SMTP) email agent, so you can access CRM and send emails from any remote machine.

Note: You can set up the security on Internet Explorer to always prompt for a username and password to access CRM so you can log on to CRM with a different identity to the currently logged on Windows user.

4.8. Virtual PC

Virtual PC is an excellent way to evaluate CRM and also develop and test customisations without having to set up a complete development environment. Microsoft ships a Virtual PC version of CRM which can be installed on a machine with 2 GB of RAM and at least 12GB of free disk space.

The Virtual PC installation contains all the software required to carry out development including SQL Server 2005 and Visual Studio 2005. A full copy of Windows Server 2003 runs in a virtual environment on your PC and is also a great way to demonstrate CRM or provide your users with a CRM play area.

Installation is straightforward, but here are some tips to make the best use of Virtual PC:

- Virtual PC has a host key which defaults to the AltGr button found usually at the lower right of your keyboard next to the space bar. Press host+delete for the control+alt+delete necessary to log on to the server.
- Note that the Administrator user has pass@word1 as the user password and the keyboard is in US format, so you will need shift+2 for the @ character.
- Press **host+enter** to toggle to full screen and back (you may need to redefine the display settings for this to work).
- You may find that the mouse does not travel outside the Virtual PC window to allow selection of the menu options for the Virtual PC session. This is because mouse pointer integration is not on and you need to press the **host** key so that the mouse can be used to select the menu options.
- Set up the networking on the Virtual PC by clicking on the TCP/IP option in your LAN Network
 Properties and make sure that you have a compatible IP definition with the host machine. Do
 not choose the same IP address but make the subnet mask and the default gateway (DNS) IP
 address the same as the host. You should be able to browse the Internet from the Virtual PC.
- It is possible to move files between the real PC environment and the Virtual PC using drag and drop with Windows Explorer on each machine. If this does not work then you might share a drive on the host machine and access it from the Virtual PC with a DOS command, for example

net use z:\192.168.1.100\temp. You will encounter a serious error with the Windows Desktop which can be ignored temporarily while you use a DOS session to copy files as follows – **copy z:*.zip c:\temp*.zip**. Remove the share with the following DOS command: **net use z: /delete**.

- Use the CD-ROM to copy files if you cannot connect with the virtual network or drag and drop. There is a facility to share folders, and this requires that you install the Virtual Machine Additions from the menu of a running Virtual PC session (however the author has not managed to get this to work properly.)
- Setting up a new user and remembering passwords can be problematic because of the password policy. Change the **password policy** on the Windows 2003 machine to make things easier. Remember to disable automatic user authentication on the browser so that you can log into CRM with multiple identities.
- Set up a Virtual PC for each site and develop customisations and export the customisations to an XML file which can be installed onto the live CRM installation.
- The undo disks setting allows you to revert to the previously saved session if required.

5. Using CRM

Microsoft has done wonders creating a desktop style user interface within a browser environment (although it is Internet Explorer only).

The top right of the page indicates the currently logged on **user details** with the left hand **navigation pane** allowing navigation to the different areas of the application:

- Workplace accesses individual activities and the personal queues and calendar as well as accounts (companies) and contacts.
- Sales shows the leads and the full sales cycle including customers, opportunities, quotations, orders, and invoices.
- **Marketing** allows the planning, creation, and monitoring of marketing campaigns and associated campaign response information.
- Service allows the creation of service contracts and the monitoring of progress on customer service cases.
- Settings allows access to the customisation features of CRM.
- Resources covers links to the CRM internet community moderated by Microsoft.

Selecting the **workplace-contacts** area provides an example of a **view** of a CRM entity. The selected view shows the appropriate list of contacts (in this case active contacts owned by the currently logged on user).

New Activity - New Record	Go To - Tools - Advanced Find	 Help
Workplace	Contacts	
My Work 🌣	Search for records View:	My Active Contacts
Activities		In Active condicts
🧰 Calendar	🛐 New 🛛 🛃 🧃 🎱 - 🛛 😓 🗙 😭 🗓 🖓 Create Quick Camp	aign 🗸 🛛 More Actions 🗸
Juplicate Detection	Full Name 🔺 Parent Custom	ner Business Phone
Augulate Detection	Andrew Dixon Adventure Wo	orks (555) 555-1212
Articles	Carol Phillips Alpine Ski House	se (555) 555-1212
Reports	Cat Francis Baldwin Museu	um of Science (555) 555-1212
💣 Announcements	Chris Ashton Blue Yonder Ai	irlines (555) 555-1212
Customers 🎄	David Ahs City Power and City Pow	d Light (555) 555-1212
Accounts	Gail Erickson <u>Coho Vineyard</u>	<u>1</u>
Sector Contacts	James Alvord <u>Coho Winery</u>	(555) 555-1212
	Jeff Teper <u>Consolidated N</u>	Messenger (555) 555-1212
	▶ 💓 Jo Berry <u>Contoso</u>	(555) 555-1212
Personalize Workplace	John Emory <u>Contoso Pharm</u>	maceuticals (555) 555-1212
Workplace	🕨 🖳 John Evans <u>Fabrikam, Inc.</u>	. (555) 555-1212
III c.L.	▶ 🖳 Kim Akers <u>Fabrikam, Inc.</u>	. (555) 555-1212
Sales	Leonor Marques <u>Fourth Coffee</u>	(555) 555-1212
S Marketing	Matt Berg Graphic Design	n Institute (555) 555-1212
	🕨 🖳 Nicole Holliday Humongous In	nsurance (555) 555-1212
Service	Patrick Hines Litware, Inc.	(555) 555-1212
Settings	Pia Lund Lucerne Publis	hing (555) 555-1212
J Second	1 of 25 selected.	M 🖣 Page 1

We use this chapter to introduce many of the usability aspects of CRM:

- The **application toolbar** buttons across the top of the page above the title access general functions such as adding new activities and records.
- The **navigation pane** on the left hand side accesses the different work areas available to the user.
- The view selection dropdown allows you to filter the records displayed in the list.
- The **view toolbar** controls functionality that applies to the selected records including reports, exporting to excel or word, assigning ownership, and actions specific to the entity.
- The alphabet bar and the page navigation buttons along the bottom of the view aid navigation.

5.1. Views

Searching for a contact involves selecting the appropriate **view** from the combo box at the top right of the window or searching for a value by typing the search text in the textbox at the top of the list and pressing the adjacent icon.

Note: The * character can be used as a **wildcard** to allow a search for text contained within a field instead of searching on the start of the field.



The columns displayed in a view can be **sorted** by clicking on the arrow just to the right of the field name and the column **resized** by dragging the column divider. Select a single record by clicking on the item or individual multiple records with **control+click**. You can select all the records in the current list by clicking the **select all checkbox** at the top left of the column headings.

Just above the column headings is the **view toolbar** which accesses functions that may be applied to the currently selected records in the view. These include:

- **New**. Create a new entity occurrence.
- **Print**. Print a default listing.
- **Export to Excel**. Export to a standalone Excel spreadsheet or dynamic pivot table or spreadsheet (dynamic spreadsheets will update with the latest data). This option also allows data to be exported and modified and the changes re-imported.
- Mail Merge. Mail merge to Word.
- **Reports**. Run the appropriate reports.
- Assign. Assign to another user (you can share from the more actions menu).
- Delete. Delete the currently selected records (you can deactivate records from the more actions menu instead of deleting).
- Send Direct Email. Sends an email from a template directly without requiring you to edit the message.
- **Merge**. Merge allows you to combine two records if one is a duplicate of the other. The master record inherits all of the activities of the subordinate record which is deactivated.
- **Create Quick Campaign**. Create activities quickly for the selected records (available only on accounts, leads and companies).
- **Run Workflow**. Runs workflow rules to perform required actions (this appears only if there is workflow defined against the entity).
- More Actions. See below.

The **More Actions** button accesses general functions that can be applied to the currently selected records in the view. The functions include:

- Edit. Brings up a blank form to allow you to set values on all the selected records (the option for editing multiple records might be denied depending on your security settings).
- Sharing. Share the record with other users or members of a team.
- Activate. Records can be activated and deactivated rather than deleted.
- **Deactivate**. Use this instead of delete to keep a history.
- Detect Duplicates. See the data management section.
- **Copy Shortcut**. Copies a URL of the current form to the clipboard (you can also use **control+n** to reveal the URL in the browser).
- Send Shortcut. Email the URL of the current form to a colleague.
- Add to Marketing List. Add record(s) to a marketing list (only for selected entities).
- Add Relationship. Define a relationship with another record for contacts, accounts, and opportunities.

The **see more triangle** at the left of each record can be toggled to view more information before selecting the record, and the letters at the bottom of the window provide an **alphabet bar** to select records in accordance with the sort column. Note also the **page navigation** button at the bottom right of the window.

Double clicking on the record in the view listing will open a new window containing the appropriate **form** for the record which allows changes to be made to the data and additional functionality to be accessed. **Related entities** are represented on a view as a column containing the primary attribute of the related entity as a hyperlink. Clicking on this **navigation link** will open the form for the related entity rather than the view entity (causing some confusion to novice users).

5.2. Forms

Each entity has a single **form** which pops up in a standalone web page (you need to disable the popup blocker in your browser). A **navigation pane** on the left hand side of each form allows access to related entities.

The fields containing data for the relevant entity are shown with a series of **tabs** across the top to allow additional areas of the form to be viewed (the arrangement of fields over these tabs is easily customised).

The **Notes** tab is interesting as this allows date-stamped notes to be recorded and **documents** to be loaded against the entity by pressing the **paperclip** icon in the form toolbar.

🕢 🖬 🛃 Save and Close	e 🔓 🎒 😭 Sen	d E-mail 🛛 🕕 🔀 Follo	ow Up 🕙 Reports 🗸 🐇	Actions -	Ø Help →
	Contact: Stamati Cr				
Details:	General Details	Administration Notes			
Signation	Salutation	Mr	Business Phone	0845 3010 444	Form Assistant 📎
More Addresses Activities	First Name +	Stamati	Home Phone		Parent Customer
👌 History 🚔 Sub-Contacts	Middle Name		Mobile Phone	07989 854 244	Look Up Records
Relationships	Last Name *	Crook	Fax Home P	none	Look for: Account
🐊 Workflows	Job Title	Managing Director	Pager		Search for records
Sales:	Parent Customer	🕒 redware 🕂 🗔	E-mail	stamati.crook@redwa	Adventure Works
📺 Opportunities	Currency	🥰 <u>uk</u> 🕂 🗔			🕒 Alpine Ski House
😼 Quotes	Address				Baldwin Museum of Science
Orders Invoices	Address Name		ZIP/Postal Code	BN3 5FH	Blue Yonder Airlines
🚡 Holidays	Street 1	104 Tamworth Road	Country/Region		Coho Vineyard
Service:	Street 2		Phone		Coho Winery
Cases	Street 3		Address Type		Contoso
Marketing:	City	Hove	Shipping Method		
 	State/Province		Freight Terms		Tips △ If this contact is a sub-contact, set up a relationship to its parent ▼

The form has a selection of buttons along the top to save and close the window along with additional buttons which may be specific to the entity or your CRM installation. Pay attention to the **Actions** button which accesses functionality specific to the entity.

Some of the more common buttons in the form toolbar include:

- Save to save the current record but keep the window open so that you can then select one of the related entities.
- Save and Close.
- Save and New to save the current record and create a new blank record.
- Delete.
- **Follow Up** to quickly create a related activity using the form assistant.
- Send Email. Brings up an email form to create and send a custom email.
- Reports.
- Attach a File. The paper clip is used to attach a file into the notes section of the form.
- **Run Workflow**. See the workflow section.
- Assign to change the owner of the record to another user (or queue) or assign it to yourself.
- Actions to add a new activity or perform workflow or access functionality specific to the entity.

You can easily change data by overwriting the current value in the field remembering to press the **save** button after you have finished editing the record. Sometimes a record is **read-only** and you can view but cannot edit it as the fields are all greyed out (security is determined by the owner of the record).

Notice the **lookup window** that appears when clicking on the lookup button to the right of a field for a related entity. CRM also has **auto-response** which is an intelligent way of entering data into fields

which require you to select a record from a related entity. You can simply enter the required text directly in the field and **tab** out of the field leaving CRM to search for the best match for you.



Use semi-colons in the auto-response field to select multiple values where appropriate. You will see an exclamation mark if there is more than one possible value and you can then click on the exclamation mark (or the lookup button) to see a list for a partial search based upon the characters already typed.

Note the **Form Assistant** button to the right of the data entry area which you can expand to show a helper area. The available options are shown in a combo box at the top of the form assistant and are selected as you enter the corresponding field in the data entry area. The form assistant displays a lookup of the appropriate records so you can make a quick selection without popping up the lookup window.

Contact: Aaron Con	n			
Salutation First Name * Middle Name Last Name * Job Title Parent Customer Currency	Administration Notes Aaron Con Con Substance S	Business Phone Home Phone Mobile Phone Fax Pager E-mail	555-555-0100 555-555-0100 555-555-0100 fred.quinby@redware.com	Form Assistant
Address Address Name Street 1 Street 2 Street 3 City State/Province	One Microsoft Way	ZIP/Postal Code Country/Region Phone Address Type Shipping Method Freight Terms	98052	Baldwin Museum of Scienc Blue Yonder Airlines City Power & Light Consolidated Messenger Contoso Ltd Contoso Pharmaceuticals Fabrikam Inc.

5.3. Notes and Attachments

Most entities have a **notes and attachments** area which allows a time-stamped comment to be entered by a user:



Attachments are added with the **paperclip** (or from the actions menu) and prompt for you to attach the file by selecting a file from your local hard drives. The document is stored in the CRM database and is made available to all users.

5.4. Advanced Find

The **Advanced Find** option on the View page can be used to configure selection criteria to filter data as required. The following screenshot shows how to set up a View on Accounts for **relationship type** customers only.

Find Saved Views	
🚽 Save 🕞 Save As 🙀 New 🗏 🔟 Edit Columns 🐻 Edit Properties	
Look for: Accounts Use Saved View: My Active Accounts	
🚰 Hide Details 📩 Clear 🚺 Group AND] 🕻 Group OR	
Relationship Type Equals Customer	
Select	

Selection criteria can bring in fields from related entities. The following example filters Contacts for prospects or customers with incomplete Task activities. In this example, the (many-to-one) relationship to the **primary account** is used to check the relationship category, and the (one-to-many) relationship to **Tasks** is used to check for the presence of incomplete tasks.

Find	Saved Views			
🔡 Sav	ve 🕞 Save As 🙀 New	Edit Columns	🐻 Edit Prope	erties
Look	for: Contacts	Use 9	Saved View:	Contacts for Customer or Prospect wit
🚰 Hid	le Details 🕴 📩 Clear 🕴	Group AND]•[Gr	oup OR	
	Select			
-	Accounts (Primary Contact	1		
	Relationship Type	Equals		Customer;Prospect
	Select			
	 <u>Status Reason</u> 	Equals		Not Started;In Progress;
	Select			

You can **save a view** and it will appear in the drop down list for the appropriate entity (you may need to refresh your browser) and you can also select the saved view and **share** it with other users or teams. The system customiser can create views for all to see using a very similar interface.

You can also **edit the columns** shown in a view and change the width and order of the columns as well as selecting which column is the default sort order. Designing a view with the required fields in combination with the export to Excel functionality provides a handy way for performing regular reporting or data export procedures.

You can select fields from related entities in a View (they must be in a many to one relationship so there is a maximum of one corresponding record in the related table). You can select any field but you are limited to the primary attribute if you want two degrees of separation to relate records from an entity related to the related entity.

5.5. Exporting CRM data to Excel

All Views can easily export data to Excel (subject to the security settings) and a custom view can be created to contain any fields from related (many-to-one) entities.

Export Data to Excel Select the type of worksheet to export.	
Use this type of worksheet: C Static worksheet with records from this page C Static worksheet with records from all pages in th C Dynamic PivotTable C Dynamic worksheet	e current view Select Columns Edit Columns
Make this data available for re-import by including re	quired columns Export Cancel

Select the **Export to Excel** button from the View Toolbar (control-click to make a selection of records if required) and then choose from the following options:

- Static Worksheet. Simply exports the current view to Excel.
- **Dynamic Pivot Table**. Allows you to make a selection of columns (so you do not have to create a view with all required fields) and export to a dynamic pivot table.
- **Dynamic Worksheet**. Allows you to select the columns required and export to a dynamic Excel file.
- Note: Dynamic Excel files extract data from the database each time they are refreshed. The CRM database will use the Windows security of the currently logged on user so that the data returned may be different for each user.

A very useful feature here is the ability to tick the checkbox to **Make the data available for reimporting**. This adds some fields required to track the origin of the data and allows you to email the spreadsheet to a colleague or external contact for updating. You can then re-import the data using the **tools-import data** option, whereupon the changed fields will be updated and new records inserted.

Note: This is perhaps the single most important feature to allow non-programmers to integrate CRM with external systems. It works with custom entities and allows you to both modify and add records.

5.6. Mail Merge to Word

The view toolbar has a **mail merge** button available on some entities to help create a quick mail merge file to control Microsoft Word (2003 or 2007). Select the required fields by selecting the appropriate view and selecting all records or using **control+click** before pressing the mail merge button.

The mail merge wizard appears and you may specify a **letter**, **fax**, **email** or **label** merge type and optionally choose an existing Word template document stored in CRM.

Microsoft Dynamics CRM Mail Merge for Micros	oft Office Word Webpage Dialog	
licrosoft Dynamics CRM Mail Merge for Mi elect the options for this mail merge.	crosoft Office Word	
Template Language English		-
Select the mail merge type:		
Letter		
Start with a:		
 Blank document 		
O Organization mail merge template		Q
C Personal mail merge template		Q
Select data fields:		
To select the data fields to use with this mail merge, clic	k Data Fields.	
Data Fields		
	OK Ca	ncel
o://ds-srv-01:5555/Contoso/_grid/cmds/dlg_webmailme	rge.aspx?objectTypeCod	

CRM defaults the list of fields exported to Word but allows you to select the fields you require from the appropriate entity together with access to related (many-to-one) entities if required.

The mail merge process will open a Word document on your machine, and you may need to select the **Add Ins** menu at the top of the window and click on the **CRM Mail Merge** macro and **enable macros** on your copy of Word when prompted.

You can perform the mail merge as usual within Word by adding the **address block** and **greeting block** and creating the merged Word document. Word also allows you to create envelopes, labels, directory type listings and email messages in addition to letter mail merge.

Note: If you use this option from the Outlook Client you will also be prompted if you would like to create the corresponding activity records in CRM (although the letter will not be attached).

An alternative to mail merge is to use the **export to Excel** option and add the appropriate fields to create a mail merge file that could be used with any word processing package (or sent to an external fulfilment house).

5.7. Word Templates

Word Templates are added to the system from the settings-templates-mail merge templates form and can be uploaded from your hard drive.

🌽 Mail Merge Templat	te: New - Windows Internet Explorer	
🕢 🗟 🗟 Save	and Close 🔓	
General Mail M	lerge Template V	
Details		
Name *	Special Offers	
Description		
Categorization		
Associated Entity *	Contact	
Ownership		
Ownership *	Individual 🔽 Owner *	Q
Language		
Template Language	English	
🔊 File Attachment		
File Name: C:\temp\crm-s	pecialoffers.xml	Browse Attach
Status: New		
Done	Local intranet	🔍 100% 👻 //.

5.8. Email

The lead, contact and account forms have a **Send Email** button on the toolbar which creates a new email activity. Emails can also be created in a similar manner to other activities using the **new activity** button on the CRM toolbar.

Emails are sent out from the CRM web interface using either SMTP or Exchange (the former are not automatically copied into the Outlook folders). Emails can be typed with simple formatting or created from an **email template** or **knowledge base article** (described in the Services chapter).

E-mail: Meeting on 5	th November - Windows Internet Expl	orer			_ 8 ×
🕢 🖬 🗟 Save a	and Close 🔓 🎒 📝 Follow Up 😭	🔁 Send	🛃 Convert Activity 🗸		⊘ Help +
E-mail Attachments	ting on 5th November				
From	S CRM Admin	Q	Cc		
То	💓 Stamati Crook	Q	Bcc		
Subject	Meeting on 5th November				
🐰 🖻 🛍 В		÷.	信 A. A.	🕶 🛛 🔂 Insert Template 🗎 🚊 Insert KB Article	1
	r out meeting on 5th November.				
Regarding	Stamati Crook				
Regarding Owner *	Stamati Crook CRM Admin				
		V	Priority		
Owner *	CRM Admin	v	Priority		
Owner * Duration	Image: CRM Admin 30 minutes		Priority Sub-Category		
Owner * Duration Due	Image: CRM Admin 30 minutes				

Note: When entering text into an email message, use **enter** for a paragraph line space but use **shift+enter** if you want a line break only with no space.

5.9. Email Templates

Email Templates can be configured system-wide or by each user as a quick productivity aid. Personal Email Templates are created from **tools-options** or the **workplace-personalize workspace** option in CRM or the **CRM-options** menu in the Outlook client.

You may type text with simple formatting using the toolbar in the edit space or open an html page in Internet Explorer and select the contents to paste into the page for sophisticated layouts.

Be careful to design your HTML to use images that are available at an internet location as images are not stored or transmitted along with the email. Note also that some email clients block images and show only the plain HTML by default.

You can insert dynamic values from the database for the associated CRM entity data into the email. User field values are always available for you to design a signature showing, for example, the user name and telephone number. Select the **Insert/Update** button at the top of the page to insert the required data field with an optional value to show if the data field is blank. The entities available will depend on the base entity selected when you create the template.

Note: It does not seem possible to define attachments for a template which need to be added each time (or created using workflow).

🌈 E-mail Template: N	ew - Windows Internet Explorer			
🏄 http://ds-srv-01:555	5/Contoso/Tools/EmailTemplateEditor/emailtemplateeditor.as	ox?templateTypeC	ode=4&isPersonal=1	•
🕢 🖬 🛃 Sav	e and Close 🛛 Insert/Update 🔂 Delete			
E-ma Ne	il Template W			
Type *	Lead Template	Language	English	_
	this email to send out a brochire to a prospect.			
Subject * SY	NC Accounting Brochure			
χ 🖻 🛍 Ι	B I <u>U</u> ≣ ≣ ≡ ∰ ⊟ A- A-	· A •		
redware	Dear {!Lead : Salutation;} {!Lead : Last N I have pleasure in attaching our brochure. Best wishes,	ame;Sir},		
•				•
			S Local intranet	⊕ 100% • //.

Specifying style information is difficult via the user interface because it is not possible to edit the html header information to define a style or add a style sheet. Consequently you must control the style information by using the formatting buttons or with inline styles.

The easy way to create sophisticated email templates is to create the web page with inline styles and save and open the file in Internet Explorer for pasting into the template. The inline styles will be preserved when you paste and the underlying HTML for an inline style looks like this:

Thank you for taking the time to talk with me about our software add-ons for Microsoft CRM 3.0. We currently offer the following functionality:

5.10. Send Direct Email

The **Send Direct E-mail** button is available on the toolbar of some views and allows you to send a template email straight off to one or more contacts without needing to view or edit the emails. Select the required view and **control+click** to select the required records and then press the **Send Direct E-mails** button, select the email template, and the emails are sent and automatically stored in the activity history.

🖉 Send Direct E-mail Webpage Dialog		X		
Send Direct E-mail				
Select an e-mail template to use and which record	ls to send to from the following optio			
Language English	V			
		Contract Translation		
Global Templates	Type:	Contact Templates		
Marketing communication unsubscribe acknowledgement	Created By: Created On:	LitwareInc Administrator 11/14/2007		
Contact Templates	Description:	Use this template to reopen		
Customer Reconnect	beschption	the lines of communication with a customer you have not		
Arketing Event Notification		been in contact with for a while.		
Thank you for registering with us		write.		
Send direct e-mail to:				
 Selected records on current pa 	0e			
Send direct e-mail only to the record	-			
 All records on current page 				
Send direct e-mail to all the records o	on this page.			
 All records on all pages 				
Send direct e-mail to all the records o	on all the pages in the current view.			
Send direct e-mail from:				
User or Oueue * 🤱 LitwareInc Administra				
User or Queue * 🔠 LitwareInc Administra	<u>itor</u>			
		Send Cancel		
http://localhost:5555/CRMVPC/_grid/cmds/dlg_bulkemail.aspx?bulkemail=true&multif 😒 Local intranet 🛛 👘 🏸				

5.11. Quick Campaigns

The **Quick Campaign** button on the view toolbar allows activities to be created for each record selected. This might be useful to schedule outbound phone calls or to create emails or activities quickly without using a marketing list or proper campaign (see the Marketing section for more details).

Selecting the Quick Campaign button prompts you to choose an activity type and then displays a template form for you to set the values required into the generated activities. You can use dynamic field values to enter details from the corresponding records.

Select the Activity Type and Owners	
Select what type of activity to create. Activity Type:	
Image: Second system Image: Second system	
Select who will own these new activities. Assign these activities to:	T
 Me O The owners of the records that are included in the quick campaign O Assign to another user or queue 	
Select whether e-mail activities should be closed. Send e-mail messages automatically and close corresponding e-mail activities.	
<back next=""></back>	Cancel

Note: The checkbox at the bottom of the quick campaign allows you to send out the generated emails immediately.

5.12. Sharing and Assignment

Security is set up according to the owner of each record (see the chapter on security). Each owner belongs to a business unit which determines the security settings and whether other users can read the data and write and perform other activities on the record.

CRM allows you to change the current owner of the entity occurrence using the assignment option from the **actions-assign** option which is available on the toolbar for most entities (if you have permissions). Changing the owner will change the security settings and you may no longer be able to view or edit the data in certain situations.

Note: Assigning is the same as changing the value of the owner field.

Sharing the entity occurrence with the **actions-sharing** option does not change or overwrite the security setting but allows other users or teams access to the entity occurrence.



6. Customers

One important point to note about Accounts and Contacts is that both can be considered as **Customers** for the purposes of the sales cycle. Opportunities, quotations, orders and invoices can be specified against either Accounts or Contacts as required (there does not seem to be a way to configure just B2B or B2C commerce).

6.1. Accounts

Accounts in CRM refer to companies and not just sales accounts. Many installations rename this entity to avoid confusion.

🕢 🖬 🛃 Save and Close 📓 🎯 🟠 Send E-mail 🌒 📝 Follow Up 😵 Reports 🗸 🐴 Actions 🗸 🛞 @ Help -					
	Account: redware res				
Details:	General Details	Administration Notes			
Information More Addresses	Account Name *	redware research ltd	Main Phone	08453010444	
Activities	Account Number		Other Phone		
B History					
Sub-Accounts	Parent Account		Fax		
Selationships	Primary Contact	🛐 Stamati Crook	Web Site	http://www.redware.com	
Workflows	Relationship Type	Consultant	E-mail	sync@redware.com]
Sales:	Currency	🥰 US Dollar			
🚰 Opportunities	Address				
😼 Quotes	Address Name		ZIP/Postal Code	BN3 5FH	
Invoices	Street 1	104 Tamworth Road	Country/Region	England	
Service:	Street 2		Phone		
Cases Contracts	Street 3		Address Type	<u> </u>	1
Marketing:	City	Hove	Shipping Method		I
😤 Marketing Lists	State/Province	East Sussex	Freight Terms		I
P Campaigns					
Status: Active					

Some notes about Accounts:

- The primary contact can be used to specify the default contact.
- Select the contacts view from the left hand pane and add a new contact to copy the address
 and other fields across to the new contact automatically (in accordance with the mappings set
 up in the customisation).
- The **relationship type** is a convenient field to categorise companies as suppliers, competitors, customers, prospects and so forth.
- Accounts have a **currency** which is automatically applied to new contacts when they are added from the contacts pane.
- Two addresses can be stored in the entity, with additional addresses stored by selecting the **addresses** view on the left hand pane.
- The **parent customer** can be used to specify the ownership hierarchy of groups and companies.

6.2. Contacts

Contacts contain the standard contact information and the **parent customer** usually specifies the company for which the contact works.

💋 Contact: Stamati Crook - W					_ 🗆 X
🕢 🗟 🗟 Save and Clos	e 🔓 🎒 😭 Send	E-mail 🛛 🖉 🛛 🖉 Follow Up 🔮	Reports - 🔗 <u>A</u> ctions	S 🔻	Ø Help →
	Contact: Stamati Croc				
Details:	General Details	Administration Notes			
Section Information More Addresses	Salutation	Mr	Business Phone	0845 3010 444]
Activities	First Name +	Stamati	Home Phone		
👌 History 🍓 Sub-Contacts	Middle Name		Mobile Phone	07989 854 244]
Relationships Workflows	Last Name *	Crook	Fax		
Sales:	Job Title	Managing Director	Pager		
Opportunities	Parent Customer	📔 redware research Itd 🛛 🗖	E-mail	stamati.crook@redware.com	
Quotes	Currency	💐 UK Pound Sterling 🛛 🗔			
Orders	Address				_
Service:	Address Name		ZIP/Postal Code	BN3 5FH	
Cases	Street 1	104 Tamworth Road	Country/Region		
Contracts	Street 2		Phone		
Marketing: A Marketing Lists	Street 3		Address Type	•]
Campaigns	City	Hove	Shipping Method	•]
	State/Province		Freight Terms	•]
Status: Active					
				Local intranet 🔍 🔍 10)0% • //.

Note: One feature of CRM is that the Company details for a contact must be specified separately in the associated account record even if there is only one contact recorded against the company

6.3. Relationship Roles

See the customisation section.

7. Activities

Activities are used to schedule or record events and are each assigned an **owner** who is responsible for completing the activity in accordance with the best practices of your organisation. The following types of activity are available:

- Task.
- Fax.
- Email.
- Letter.
- Phone Call.
- Appointment.
- Service Activity (see the service chapter).
- Campaign Response (see the marketing chapter).

Most of the core entities and custom entities that allow user ownership have activities and notes attached to them. New activities can be created for an entity in several ways:

- From the new-activity option in the CRM Toolbar.
- From the action-add activity menu in the Form menu.
- Selecting New when looking at the activities pane for the entity.
- Using the **follow up** button from the form toolbar.
- Using the follow up option in the form assistant.
- Selecting the **workplace-activities** pane and adding a new activity.

🕢 🖬 🗟 Save ar	nd Close 🔓 🛃			
Task New				
Task Notes				
Subject *	Send literature to Stamati			
Send holiday in Camboo	ia brochure.			
Regarding			2	
Owner *	Sam Psmith			
Duration	30 minutes	Priority	Normal	
Due]		
Category		Sub-Category		
Status: New				

Activities can also be created automatically using workflow when a new opportunity is created for example. Incoming email activities can be created automatically when sent to an email address

defined in a queue or when received in response to an email sent out from CRM. Activities can also be created from the Outlook Client for CRM by pressing the **Track in CRM** button.

Activities can be viewed from the **workplace-activities** view or from the **activities** pane against each Entity. Each activity is owned by a user (or a queue) who will undertake responsibility for completion of the task.

Note: Take care when creating custom entities as only user-owned entities can have associated activities.

The following fields are present on all activities:

- Owner.
- Subject. A short one-line description.
- Description.
- Regarding. The entity record to which the activity relates could be any core CRM entity or userowned custom entity.
- Scheduled Start (the due field).
- Duration.
- Priority.
- Category and Sub-Category for your own text categorisations.

The following fields are also maintained in addition to those on the default form:

- Actual Start (automatically filled in on completion).
- State. The state of the activity entity, usually open or completed.
- Status. A breakdown status relating to each state.

Once an activity has been completed it is made available from the **history** pane against each related entity. Many activities (not Tasks) can be converted to a **case** or **opportunity** with the **convert activity** button found on the form toolbar and incoming emails can be converted to a new **lead**.

실 Conve	🖆 Convert Phone Call to Opportunity Web Page Dialog				
	Phone Call to Opportunity details of the new opportunity.				
For Le	ead *	Stamati Crook			
Custo	mer *				
Curre	ncy *	🥰 <u>US Dollar</u>	Q		
Sourc	e Campaign *		Q		
	Open the new opportunity				
V	Change the Phone Call status to Com	pleted and close the form			
	Record a closed campaign response				
		ОК	Cancel		
http://192	. 168. 1. 103: 5555/MicrosoftCRN	1/A 🔮 Internet	1.		

Note: **Read-only** users will be able to view their activities but not update them.

7.1. Tasks

Tasks are the catch-all activity type used to schedule and manage workflow activities and are synchronised with Exchange into the **Task List** within Outlook.

7.2. Email

Outgoing email activities can be created manually or from an email template (see the Using CRM section) and replies tracked and stored against the correct entity if you have set up the Email Router for CRM or the synchronisation options for the Outlook Client correctly.

Standard emails can be defined with a template and dispatched with the **send direct email button** or with a quick campaign.

7.3. Fax

The fax activity does not appear to be integrated with the Microsoft fax solutions. Ideally the incoming fax should recognise the telephone number and create a fax activity (with the attached fax document) against the appropriate lead, contact or account. This currently needs to be done manually or programmatically.

7.4. Phone Call

Phone call records are used for scheduling **outbound** phone calls and recording notes for **inbound** calls. Some third party telephony applications automatically create phone call records for inbound calls.

Phone calls and faxes have additional activity fields:

- The direction of the call (incoming or outgoing).
- The sender or recipient.
- Phone or Fax number.
- Fax Cover.
- Note: TAPI dialling is possible with the Outlook client but not currently with the web interface for CRM, and incoming call solutions are available from a limited number of telephony vendors (including Cisco and Avaya). The author has a solution for telephony at http://www.redware.com/mscrm.

7.5. Letter

Letter activities can be created manually or as part of the mail merge process when using the Outlook client for mail merge to Word.

Documents are not automatically attached and you may like to use mail merge on a single record to create a document and then add the letter activity and attach the document into the notes area using the paperclip on the toolbar.

7.6. Appointment

Appointments are more complex activities that allow several **resources** to be booked. The example below shows a meeting booked for a contact and a user with an optional extra user attending. The resources that can be booked for an appointment comprise:

- User.
- Lead, Contact or Account.
- Equipment and Resources (for example, a meeting room or a projector).

🛺 🛃 🖓 Save and Close 🔓 🛃 🏐 🕖 🖉 Follow Up 🥃 Convert Activity - 🔗 <u>A</u> ctions - 🔞						
	Appointment Brochure pre-printing Meeting					
	ent does not have an e-mail address or is marked as "Do Not Allow" e-mail.					
Appointment Notes	es Details					
Subject *	Brochure pre-printing Meeting					
Required	Sconnie Watson; Sei Stamati Crook	Q				
Optional	Seniamin Martin	Q				
Location	London Office					
Show Time As	Busy					
Scheduling Informa	ation					
Start Time *	11/7/2007 2:00 PM V Duration 45 minutes	~				
End Time *	11/7/2007 2:45 PM 🔽 All Day Event					
Sign off of final copy.						

Appointments are recorded in the calendars available from the **workplace-calendar** and the **service-calendar** areas and within the **Exchange Calendar** in Outlook once the activity has been synchronised. Use the **save as completed** option to clear the appointment from the diary after it has taken place.



7.7. Service Activity

Service activities are similar to appointments but allow equipment or a package of required resources to be defined and automatically scheduled when available (see the services chapter).

7.8. Campaign Response

Campaign Response activities are used to monitor the success of marketing campaigns (see the marketing chapter).

8. Outlook Client

CRM is available both from a web browser and from the Outlook Client for CRM. The two versions have identical functionality and identical user interfaces.

Remote users who are not able to access CRM with a web browser directly or over a VPN will need to use the Laptop Client for Outlook with local data and synchronise data periodically when they reconnect to the network.

The screenshot below shows the Outlook 2007 client for CRM displaying the contacts view window within the Outlook interface. You can see that the full CRM user interface is made available within Outlook, together with the same arrangement of work areas in the left hand navigation area.

Microsoft Dynamics CRM - N	licrosoft Outlook	_ = X
Eile Edit View Go To		Type a question for help
go maxe amonta a maxe amonta a	eceive 🗸 🗓 Search address books 🗸 🙆 📮 🚱 <u>B</u> ack 🚱 🖄 🖄 🛣	
CRM New Activity VIN	ew Record 🔻 🏽 🌆 Track in CRM 🛛 👯 Set Regarding 🗍 🚮 Advanced Find 🕸 👳	
Mail «	Contacts - Microsoft Dynamics CRM	To-Do Bar » ×
Favorite Folders 🛛 🕆	Search for records View: My Active Contacts	▲ November 2007 ►
🔄 Inbox	Search for records	SMTWTFS
Unread Mail Sent Items	😥 🛛 🗃 🎽 🕘 - 🛛 😓 🗙 😭 📳 🖓 - 🛛 More Actions -	28 29 30 31 1 2 3 4 5 6 7 8 9 10
Mail Folders	🗖 🛛 🛛 Full Name 🔺 🛛 🖉 Parent Custo	11 12 13 14 15 16 17
All Mail Items -	S Andrew Dixon Adventure V	18 19 20 21 22 23 24
	Carol Phillips Alpine Ski Hg	25 26 27 28 29 30 1 2 3 4 5 6 7 8
inbox	E See Cat Francis Baldwin Mus	
Junk E-mail	Elue Yonder	
RSS Feeds	David Ahs <u>City Power a</u>	
🤄 Sent Items	Gail Erickson <u>Coho Vineya</u>	
⊞	James Alvord <u>Coho Winen</u>	No upcoming appointments.
Deleted Items	Jeff Teper <u>Consolidate</u>	
🖻 🚞 Marketing	▶ 💭 Jo Berry <u>Contoso</u>	
Accounts	John Emory <u>Contoso Pha</u>	
Campaigns	🕨 🚂 John Evans <u>Fabrikam, Ir</u>	Arranged By: Due Date 🔺 🔺
- Contacts +	Kim Akers <u>Fabrikam, Ir</u>	Analiged by: Due Date
🖂 Mail	Leonor Marques <u>Fourth Coffe</u>	Type a new task
Calendar	Matt Berg Graphic Desi	🖃 🚩 No Date
Calendar	Nicole Holliday Humongous	Opportunity Ass
Secontacts	Patrick Hines	Test Letter
· · ·	▶ Salund Uureme Pub	
Tasks	1 of 25 selected. If ◀ Page 1 ►	
- 🚺 🖬 🗸 -	All # A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	•
0 Items		Send/Receive 🖓 🕶

The **CRM menu** within Outlook also accesses the navigation structure and allows new activities or other CRM data to be created. The **CRM Toolbar** also offers these options:

- Create a **new activity**.
- Create a **new record** for a CRM entity.
- **Track in CRM** allows an existing Outlook contact, task, appointment or email to be added to CRM and any changes to the data (in either application) automatically synchronised.
- **Tasks** originating in Outlook can also be tracked and you can choose whether to create a task, letter, phone call, or fax activity.
- Set Regarding allows the regarding object for an task or email to be specified quickly within Outlook without having to launch the CRM window (the related entity does not have to be a contact).
- Set Parent replaces the Set Regarding button for a contact and sets the parent customer record.
- Advanced Find allows you to create your own views in CRM.

The following CRM functions are provided in addition to Outlook functionality:

- Contacts (owned by the user) are copied into the Contacts section to allow contact details from CRM to be used within Outlook. Tracked contacts can have the **parent customer** set with the **Set Parent** button.
- Appointments, tasks, letters, phone calls, emails and contacts originating in CRM can be tracked in Outlook. Data is automatically synchronised and Outlook can be configured to use the CRM forms for these entities (instead of the native Outlook form) to make sure that any custom fields or workflows are available to the user.

Items originating in Outlook are synchronised immediately with CRM as the appropriate track button is pressed. Items originating (and modified) within CRM are synchronised with Outlook at startup and every 15 minutes by default. The **CRM-Synchronise with CRM** menu option can be used to synchronise on demand.

8.1. Tracking Contacts

The Contacts tab in Outlook is modified to show contacts owned by the user in CRM rather than the private Outlook Contacts list (which is still available). Clicking on a contact will bring up an Outlook form containing the contact details synchronised from CRM.

	👻 🔻 Stamati Crook - Contact	- = x
Contact Ins	ert Format Text	0
Save & X Close X Actions Show	Meeting A Track Set Parent - Business Card	Picture • (2) Categorize • (1) Follow Up • (8) Options Proofing
[CRM] Parent record: redw	are research Itd	
Full Name	Mr Stamati Crook	Mr Stamati Crook redware research Itd Managing Director
Job <u>t</u> itle:	Managing Director	0845 3010 444 Work
Fil <u>e</u> as: Internet	Crook, Stamati	07989 854 244 Mobile stamati.crook@redware 104 Tamworth Road
🔛 E-mail 🔻	stamati.crook@redware.com	Hove BN3 5FH
D <u>i</u> splay as:	Stamati Crook (stamati.crook@redware.com)	Notes
Web page address:		Eq.
IM address: Phone numbers		^
Business *	0845 3010 444	
Home		
Business Fax 💌	[]	_
Mobile 🔹	07989 854 244	
Addresses	104 Tamworth Road	
This is the mailing address	Hove BN3 5FH	
	I	T

A few of the fields shown on the form are specific to Outlook and are therefore not synchronised with CRM. There will be additional fields specified for the contact entity in CRM that are not shown on the Outlook form.

Some specific CRM functionality is provided in the CRM portion of the toolbar on the contact form:

- Pressing the **View in CRM** button will launch the contact form to allow editing within the CRM interface (and allow access to additional fields and functionality).
- Set Parent will show a lookup view to set the parent customer of the contact without having to launch CRM.
- View Parent will launch the CRM form for the parent customer.

The main benefit of the Outlook Contact form is the powerful integration that Outlook has with the desktop. The user interface constraints caused by the browser implementation are removed in Outlook and more functionality is available:

• The **Call Contact** option on the actions menu allows outbound calling using **TAPI** to connect to your telephone system or **Instant Messenger**.

- Mail merge is available from the **tools-mail merge** menu when looking at the Outlook (not CRM) view of Contacts in the Outlook client.
- Outlook customisations and third-party add-ons are more numerous than for CRM.
- Macros and other features that apply to a desktop rather than a web application are available.

8.2. Mail Merge in Outlook

The mail merge option from the contacts view within the Outlook Client extends the functionality available from the CRM web application allowing you to create corresponding activities if required.

First select the required contacts with **control+click** and press the **mail merge** button on the view toolbar and perform the mail merge to Word in the usual way.

The **create activities** dialog window appears after finishing the mail merge in Word and allows you to create the corresponding letter activities with the **merged document** automatically attached as a file in the notes field.

Create Activities Select the options for the Microsoft Dynamic CRM activities that will be created.									
Track Activities in Microsoft Dynamics CRM Mail Merge									
C Do not create Microsoft Dynamics CRM activities.									
No activities will be created in Microsoft Dynamic CRM after the mail merge is completed.									
Create Microsoft Dynamics CRM activities Activity Details									
Create activities in Microsoft Dynamics CRM when running mail merge.									
Assign activities to: Me The owners of the records that are included in this mail merge Another user or queue Another user or queue Automatically close the activities as completed Create a new quick campaign 									
Name:									

Note: Activities can also be created easily with a Quick Campaign if you are using the web application although the merged document will not be attached in the activity note. See the Using CRM and Marketing chapters for additional mail merge options.

8.3. Tasks

Tasks can easily be synchronised from Outlook to CRM by creating a Task and clicking on the **Track in CRM** button. You have a choice of **task**, **phone call**, **letter**, **fax** and once you have tracked the record you can use the **Set Regarding** button to select the CRM entity occurrence to attach the activity to without having to launch CRM.

Note: Call the synchronisation process from the CRM menu if you need to see new tasks created in CRM immediately.

Save & Delete	Assign Task	Send Status Mark Report Complete	Track in	 Q View in CRM ✓ Set Regarding ▼ ✓ View Regarding 	Recurrence Skip Occurrence	ABC Spelling
Actions	Show	Manage Task		CRM	Options	Proofing
	Remember to upda	te the website with the	e new logo. Not Started			
ue date:	ſhu 1/17/2008	Priority:	Normal 💌	% Comple <u>t</u> e: 0%	-	-
Re <u>m</u> inder:	None	None	T	🕅 Owner: Litwarei	inc Administrator	
The new cor	porate logos ha	ve arrived and need	d integrating into	o our website and	letterhead.	ſ

Tasks can easily be completed within Outlook by clicking the **completed** checkbox which will update the corresponding CRM activity and move it to the **History** pane (and remove any reminders).

D	\checkmark	Subject	Due D
		Click here to add a new Task	
B		Another task for Stamati	None
8		Remember to update the website with the new logo.	Thu 1/
R		Please return Fred Dibdin's Call	None

8.4. CRM Options

Outlook and CRM options are set from the CRM menu:

- **General** options allow you to specify whether the Outlook form or the corresponding CRM form is used within Outlook to edit different entities.
- Synchronization (see below) controls synchronisation with CRM.
- Workplace activates the appropriate work areas in the Outlook navigation pane.
- Formats sets regional settings.
- Email Templates allows you to maintain CRM email templates.
- Address Book specifies how often the address book is updated and can extend the synchronisation of contacts and activities beyond those owned by the current user.
- Languages makes use of the language packs.

Set Personal Options											
Set Personal Options	Set Personal Options										
Change the default display settings to perso											
General Synchronization Workplace	e Formats E-mail Templates	E-mail Address Book	Privacy Lar	nguages							
Select which forms to use											
By default, Microsoft Dynamics CRM for Outlook uses standard Outlook forms for activities. However, Microsoft Dynamics CRM forms might have custom fields that are more specific to your needs. To use Microsoft Dynamics CRM forms instead, select the check boxes for those activities.											
Appointment	Appointment Task										
Contact	📃 E-mail										
Set the number of records shown pe	er page in any list of records.										
Records Per Page	50										
Select the default mode in Advance	d mad										
Advanced Find Mode											
Advanced Find Mode	Simple	C Detailed									
Select a default currency											
Currency				a							
Support high contrast settings	Contract antifact in some boundary of										
Select this option if you are using the High	Contrast settings in your browser or	operating system.									
Enable high contrast											
Improve Outlook startup time and I	Microsoft Dynamics CRM display	speed									
· · · · · ·	Host runs when Outlook is running to	•	osoft Dynamics (CRM. To help Outlook start faster and quickly display							
Always run the Microsoft Dynamics C	-										
A sharp and yardin the fille obore by fullities e	in application most process										
Help			1	A Microsoft Dynamics CRM							
nep				One or more e-mails in Microsoft Dynamics CRM are	waiti						

8.5. Email Synchronisation

Emails and email templates can be synchronised with CRM. Email templates are managed either within CRM or from the **CRM-options-email templates** page. Emails have the following synchronisation options:

- Synchronise all emails into CRM.
- Synchronise only emails received that are replies from emails originating in CRM.
- Synchronise only emails that have email addresses belonging to leads, contacts or accounts already entered in CRM (see the **Address Book** options for details).

	Set Personal Options Change the default display settings to personalize Microsoft Dynamics CRM.										
General	Synchronization	Workplace	Formats	E-mail Templates	E-mail	Address Book	Privacy	Languages			
Select he	Select how CRM for Outlook should integrate e-mail with Microsoft Dynamics CRM										
Impor User from	 Allow Microsoft Dynamics CRM to send e-mail using CRM for Outbook Important: If you select this option, you should be aware of several potential identity issues. If your organization has security roles that allow the Send E-mail as Another User privilege, other users in Microsoft Dynamics CRM can create e-mail with you as the sender. When you synchronize, CRM for Outbook will send those e-mail messages from your Outbook account. Workflow rules can also send e-mail with you as the sender. Check incoming e-mail in Outbook and determine whether an e-mail should be linked and saved as a Microsoft Dynamics CRM record 									nessages	
· ·	e e-mail message	1 C C	-	hat have Information Dynamics CRM	r rugi na ma	nagement (trony w	nii De saveu	and in ited as in	ici osofi e byrian	nics eximited of a	3.
Track		E-mail	messages in I	response to CRM e-n	nail			-			
Display Ic	on	Micro	osoft Dynami	cs CRM icon		C Outlook ic	on				

The email router supports both Microsoft Exchange and SMTP/POP3 mail infrastructure but CRM can be configured to ignore the email router and use your local Outlook application to perform all mail synchronisation.

A unique tag can be specified for each outgoing email so that replies are easily matched and stored against the appropriate entity in CRM. Incoming emails with a tag are attached to any customer (contact or account) who matches the email address. The email is also stored against the parent account of the contact if specified. Emails that cannot be matched show the email address as a red hyperlink which allows quick access to create a new contact.

8.6. Tracking and Synchronisation Options

The following items can be synchronised between CRM and Outlook in both directions:

- Contacts.
- Emails.
- Tasks.
- Appointments.
- Phone Calls.
- Faxes.

Pressing the **Track in CRM** button within Outlook immediately creates the associated data within CRM for all to see, whereas data is synchronised into Outlook from CRM at start-up and every 15 minutes by default.

Note: Your appointments and tasks may not be synchronised immediately from CRM with synchronisation taking place only when you run the Outlook application. Note the **CRM** *Application Host* process which can be configured from the tools-general options if you do not run Outlook often on your desktop.

The **CRM-options-synchronzation** page allows options to be set to clarify which records are downloaded automatically from CRM. This can include appointments, tasks, phone calls, letters, faxes and contacts owned by the user.

General	Synchronization	Workplace	E-mail Templates	E-mail	Address Book	Privacy	Languages		
Synchronize Microsoft Dynamics CRM items with my default Outlook folders									
Contacts specified in your Local Data settings will be synchronized to Outlook. Only owned tasks and attended appointments will be synchronized to Outlook.									
Appoin	ntments I'm attend	ding			My phone cal	ls			
Conta	acts				My letters				
V My tasks									
My tas	sks				My faxes				
	sks ne company field	d for Outlook (contacts		My faxes				
Jpdate th During sync he Outlook	ne company field chronization, the p k contacts. Change	arent account o es are not synch	f Microsoft Dynamics pronized in Microsoft [acts can be inserte	d or used to	overwrite the	names in the Company field o	
Jpdate th During sync he Outlook	ne company field	arent account o es are not synch	f Microsoft Dynamics pronized in Microsoft [acts can be inserte	d or used to	overwrite the	names in the Company field o	
Update th During sync the Outlook	ne company field chronization, the p k contacts. Change	arent account o es are not synch	f Microsoft Dynamics pronized in Microsoft [acts can be inserte	d or used to	o overwrite the	names in the Company field o	
Update th During sync the Outlook IV Update Set Synch Only one di	ne company fiek chronization, the p k contacts. Change e Company fields v pronizing Client	earent account o es are not synch with parent acco user can run au	f Microsoft Dynamics ironized in Microsoft [unt names)ynamics (acts can be inserte RM.			names in the Company field o n online (such as a desktop	
Update the During sync the Outlook ✓ Update Set Synch Doly one di computer) o	ne company field chronization, the p k contacts. Change e Company fields v nronizing Client lient computer per	arent account o es are not synch with parent acco user can run au ry computer.	f Microsoft Dynamics ironized in Microsoft [unt names tomatic synchronizati)ynamics (acts can be inserte RM.				

Press the **local data** hyperlink to bring up a view that lets you define a series of advanced find queries to supplement the default synchronisation option which only copy down data that you own. You can use this to add to the contacts copied into your address book for example.

Note: Synchronisation properties for the company allow the parent company name to be copied down into Outlook for appropriate contacts. Changes to this field are not however synchronised with CRM.

The **address book** tab allows you to specify how often the address book is updated and which records are downloaded from CRM and defaults to downloading just the records you own. The address book in the Outlook Client automatically creates additional address books to show CRM contacts, leads, users and equipment. Click on the **address book** icon in the Outlook client to search these areas.

🗐 Set Pers	onal Options								
Set Pers	onal Options								
Change the	default display settir	igs to personali:	ze Microsoft	Dynamics CRM.					
General	Synchronization	Workplace	Formats	E-mail Templates	E-mail	Address Book	Privacy	Languages	
Select h	ow e-mail recipier	its are recond	ciled with M	licrosoft Dynamic	s CRM rec	ords			
	The Microsoft Dynamics CRM address book matches the names and e-mail addresses in the To, Cc, and Bcc fields to contact, account, lead, user, qui records in Microsoft Dynamics CRM, and then links the message to the records.								
Contacts	:	⊙ Ma	atch only aga	ainst contacts synchr	onized to M	licrosoft Dynamics	CRM		
		O Ma	atch all conta	acts in Microsoft Dyna	amics CRM				
Other red	cord types:	O Do	o not match						
		⊙ Ma	atch only the	items I own					
		O Ma	atch all items	in Microsoft Dynamic	s CRM				
Select h	ow often the Outle	ook Address B	Book shoul	d be updated from	Microsof	t Dynamics CRM	1		
🔽 Upda	ate the Outlook Addr	ess Book every		24	hours	i Minimu	um allowed ł	hours is: 1 ho	ur

Deleted records may not synchronise between CRM and Outlook as expected. Deleting a completed task in Outlook, for example, does not delete the corresponding CRM record. Deleting a record in CRM may break the link to the Outlook data but not delete the record in Outlook.

8.7. Laptop Client Synchronisation

The Laptop Client for Outlook stores CRM data locally (up to 4GB) as determined by the filter criteria setup in the **Local Data** option of the CRM menu. Synchronisation can occur in the background and the **Go Offline** option is used before disconnecting the laptop from the network.

Data is synchronised back with CRM when the laptop is reconnected to the system and the process checks to see if the data has been changed by other users since the copy was made. Checks are made on a field by field basis so that different users can change two different fields on the same record without affecting the synchronisation process. See the Microsoft documentation for more details.

8.8. Diagnostic Tool

A diagnostic tool is provided to help diagnose problems on your machine if the CRM client for Outlook fails to install or operate.

Microsoft Dynamics CRM Diagnostics	
Diagnostics Report A number of issues were found. Some of the issues are fixed automatically while others may require your alterniton. Problems found. Some problems can be fixed.	<u>F</u> ix All
Network and Connectivity	-
No problems found.	
Internet Settings	
Current Internet Explorer security settings are configured to use a pop-up blocker. To help Microsoft Dynamics CRM display correctly, consider adding it to the list of allowed sites.	Eix
Client Configuration	
No problems found.	
Synchronization	
No problems found.	
System Configuration	
No problems found.	
Software Updates	
 No problems found. 	-

Note: The **fix** button is particularly helpful for novice users who need to remove the popup blocking on their browsers.

9. Workplace

The workplace is often used as the default view for CRM users as it provides easy access to the activities view which allows activities to be filtered in various different ways.

lew Activity - New Record -	Go To - Tools - La Advanced Find		🕜 <u>H</u> elp
Workplace	Activities		
1y Work Activities Calendar	Search for records Due: All Type: All	View: My Ac	tivities
Imports	New Image: Subject	Regarding Priority	Start Date
y Queues Articles Reports Announcements	EO Appointment See publisher abount book deal		
ustomers Accounts Contacts	*		
ersonalize Workplace			

The workplace navigation pane is divided into two with the **My Work** area (described below) and the **customers** area allowing access to **accounts** and **contacts** (leads are available in the sales section). You can also select the **Personalise Workspace** option to bring up the user settings for CRM also available from the **tools-options** menu.

The My Work area has the following options:

- Activities to view tasks, appointments, emails, and so forth owned by the current user or colleagues or still in a queue (see the activities chapter).
- A **calendar** showing appointments and scheduled activities for the current user (there is a more sophisticated calendar in the service area).
- **Imports** shows the current status and history of bulk imports (see the data management chapter).
- **Duplicate Detection** helps identify and resolve duplicate records imports (see the data management chapter).
- **Queues** are used to receive incoming emails and as a collective area for assigning activities (especially cases) that have yet to be assigned a specific owner.
- Articles are available from the knowledge base (see the services chapter).
- **Reports** providing access to reports and the ability to create and edit reports or change the default filter criteria.
- Announcements showing the latest news.

9.1. Calendar

The workplace **calendar** shows appointments and service activities for the current user and provides a monthly, weekly, or daily view. You can also add new appointments and service activities from here.

unesudy, Ja	nuary 16, 2008							
			<		Jan	200	8	:
12:00 AM		-	Su	Мо	Tu	We	Th	Fr S
1:00 AM			30	31		2		4
2:00 AM			6	7		9	_	11 1
			13	-		16	_	18 1
3:00 AM			20	-		_	_	25 2 1
4:00 AM			3	4	5	6	7	8
5:00 AM					day: :	_	/200	
6:00 AM			Caler	ndar	View	s:		
7:00 AM			31					
8:00 AM			7 \					
			1	Day				
9:00 AM			Creat	te a I	New:			
10:00 AM	10:00 AM - 12:00 PM See publisher abount book deal		10 A	ppoir	ntmen	t		
11:00 AM			100 S	ervice	e Acti	vity		
12:00 PM								
1:00 PM								

There is a more sophisticated calendar (which shows other users and resources) in the Service work area and you should note that appointments, service activities, tasks, and some other activities may be synchronised with Exchange and viewed from your Outlook client independently of CRM.

Note: There are third party applications available to provide better calendar views from CRM data.

9.2. Queues

Assigning ownership of an activity to a user will add the activity to the **Assigned Queue** so the user can view newly assigned activities, select them and click the **Accept** button to take on ownership of the activity and move it to the **In Progress** queue.

Microsoft Dy	ynamics CRM		Welcon
New Activity - New Record	✓ <u>G</u> o To ✓ <u>T</u> ools ✓ <u></u> Advance	ced Find	
Workplace	Queues		
My Work Activities	🛃 💩 🗙 Accept	🗖 Title	Entered Que
Jupports	i My Work i Assigned i In Progress	ISDN not ringing Problem with Printer	06/11/2007 06/11/2007
Queues Queues Articles Reports	Queues		
Announcements Customers			

A queue is often set up to accept emails from customers directly from a customer support email address (the CRM Email Router automatically copies the incoming emails into the appropriate queue).

Ownership of a new incoming email can be allocated by workflow rules or selected users instructed to browse the queue and **assign** items to themselves or other users. Automatically allocated emails initially join the **Assigned** queue of the user and can be progressed normally as each user accepts the activities assigned to them. Occasionally the user might return the item back to the queue or assign it to another user.

Note: Queues are an integral part of working with the service functionality of CRM.

Activities (including incoming emails) can be **converted** to a **lead**, **opportunity** or a **case** using the appropriate toolbar button or option from the action menu. This will automatically **complete the activity** and further action might begin if appropriate **workflow** is set up to create new activities as old ones are completed.

9.3. Announcements

Announcements are used to show the latest news and new items can be easily added (by users with the appropriate permissions) using the **settings-administration-announcements** form.

Each announcement has a deactivation date and you can set the announcements to be the default page as the user starts up CRM each morning to make sure that new messages are viewed.

no	uncements
1	SMS Gateway
_	We all now have accounts with the redware sms gateway that you can use from home to text colleagues.
	More Information: http://sms.redware.com
P	redware MS CRM 4.0 User Handbook
	The user handbook from redware is now available onlne.
	More Information: http://www.redware.com/mscrm/handbook

9.4. Personalise Workplace

The personalise workplace option allows you to define your user settings.

실 Set Personal Op	tions We	eb Page E)ialog					×
Set Personal Option Change the default displa			rosoft Dynamics CRM			mail templates.		
General Workplace	Activities	Formats	E-mail Templates	E-mail	Privacy	Languages		
Set your default sta	rt page.							
Default Pane	Workplace				• D	efault Tab	Activities	•
Set the number of r	cords shown	per page i	n any list of record	5.				
Records Per Page	50				•			
Select the default m	ode in Advan	ced Find						
Advanced Find Mode	Simple		C Detai	led				
Set the time zone y	ou are in							
Time Zone	(GMT-08:00)	Pacific Time ((US & Canada)					•
Select a default curr	ency							
Currency					Q			
Support high contra	st settings							
Select this option if you	i are using the H	ligh Contras	t settings in your brow	vser or ope	erating syst	em.		
🔲 Enable high contra	ast							
View your user profile l	nere.							
Help								OK Cancel
http://192.168.1.103	:5555/Micro	softCRM/t	cools/personalset	ings/dial	logs/pers	onalsettings.	aspx?workplace=1	🔮 Internet 🛛 👘

Many features are available:

- Number of records to be shown in a View.
- Default Currency.
- Default work area and pane.
- **Time zone** and default currency.
- Work hours.
- Regional formatting characteristics for date and decimal formatting.
- Personal Email templates.
- Email synchronisation settings for Exchange integration.
- Preferred user interface language.
- Note: Some of these options are also available in the Outlook Client for CRM together with additional options to control the synchronisation process (see the section on the Outlook Client).

10. Products

The **product catalog** is read-only when accessed from the Sales work area and is maintained in the **settings-product catalog** work area.

Products require a short code **product identifier** and a one-line **product name** along with the **unit group** and **default unit item** and the **decimals supported** value. The **default currency** can be specified, and the **price list item** then needs to be added before the product is available for use in the sales cycle.

🕢 🖬 🛃 Save and Close 🔓 🎯 🕘 🌮 Actions -							
	Product: Logtech Optio						
Details:	General Description	Notes					
Information Substitutes	ID *	LOG-OPT-MOUSE					
Service List Items	Name *	Logtech Optical Mouse					
Sales:	Subject		Product Type	Sales Inventory			
Sales Literature	Unit Group *	1 Default	Quantity On Hand				
Competitors	Default Unit *	🗧 Each	URL				
	Currency	💐 UK Pound Sterling					
	Costs						
	Default Price List +	UK Retail	List Price	£			
	Decimals Supported *	2	Standard Cost	£			
			Current Cost	£			

A **price list item** record must be created (for each currency) before a product is available to the sales process. The **list price** and **standard and current cost** are specified in the product record and can be inherited by the price list item records so that a change in the list price would also change all the corresponding price list item records. You can set the **default price list** for a product once the corresponding price list item has been created.

Substitute products can be indicated against a product record and links made to the sales literature and competitor entities. Products can also be defined as **Product Kits** by selecting the **Convert to Product Kit** option in the actions menu. A kit has several constituent products to form a bill of materials.

Note: The author has developed a program to assist in uploading products into CRM from a spreadsheet or accounts package. See <u>http://www.redware.com/mscrm</u>.

10.1. Unit Groups and Items

Unit Groups and Unit Items need to be defined before products can be added into the system.

Unit Groups are designed to reflect categories of measurement, so liquids, for example, might have a unit of one millilitre as the smallest **primary unit**. Unit Items are multiples of the primary unit, and a unit of one litre might then be defined for liquids. For whole items, a primary unit for a single unit (each) must be defined and other unit items derived from it with tens and perhaps a dozen or a gross defined for multiples of whole units if required.

Each product must have a **default unit item** taken from a **unit group** that specifies the available unit items permissible for the product.

10.2. Price List Items

The **price list item** specifies the pricing of a **product**, for a particular **pricelist** (and currency) and **unit item**. Once entered, the product is available in the sales cycle (for the appropriate currency only) and the **default pricelist** can be set against the product.

Price Lis Logte	et Item Ech Optical Mouse		
General			
Price List *	😫 <u>UK Retail</u>	Currency	💐 UK Pound Sterling
Product *	🌍 Logtech Optical Mouse 🛛 🗔	Discount List	
Unit *	🗧 Each 🗔	Quantity Selling Option *	Whole
Pricing			
Pricing Method *	Currency Amount		
Amount *	£ 23.99		
Percentage *			
Rounding			
Rounding Policy *			
Rounding Option *	V		
Rounding Amount *	£		

The pricing method allows the price to be inherited from the prices entered against the product or for a specific currency amount defined for each price list item:

- **Currency amount** specifies a precise amount for the price list item with no inheritance from the product record.
- A **percentage of the list price** can be specified so changes to the product price list are automatically reflected in the price list item.
- A percentage markup or margin can be specified on either the standard or the current cost of the product and is automatically updated when the product costs are changed.
- Note: It can be time consuming to maintain price lists with precise currency amounts and you might want to automate the process or at least use the export and import facilities of CRM to maintain prices in a spreadsheet.

10.3. Discount Lists

Discount lists can be defined to provide discounts according to the quantity ordered. A trade discount list might, for example, apply a 10% discount if more than 100 items are ordered. The discount list can be referenced for each price list term to apply quantity discounts automatically onto a quotation.

General Discour	nt rmation
Begin Quantity *	10.00000
End Quantity *	25.00000
Percentage *	10.00000

11. Sales

Microsoft has implemented a sophisticated set of features for managing the sales cycle within CRM. The basic premise is that a large number of unqualified **leads** are subjected to a series of marketing **campaigns** and workflow **activities** until the point where they qualify as a sales **opportunity**. At this point, the original lead record is **qualified** and promoted by converting it to a **customer** record (an **account** and/or **contact**) with an associated **opportunity** record.

Opportunities relate to a **customer** record, which can be either an account or a contact record depending on the nature of the business. Potential new business for an existing customer or prospect is recorded by creating a new opportunity against the customer record.

Information on the **products** that interest the prospect are stored against the opportunity together with a **value** and **estimated close date** for the deal. Products and prices are maintained in the **product catalog** (see the Products section) and the users can set the pricing for each item or let the system calculate pricing.

The products held against an opportunity are carried through the sales process as the opportunity is converted into a **quotation**, then an **order**, and finally an **invoice**. **Discounts** and **write-in products** (that are not picked from the product catalog) can be added from the quotation stage onwards (together with sales tax) and **freight costs** can be added at the order stage.

Sophisticated **sales workflow** involving a series of **pipeline phases** can be defined against the opportunity to ensure that the sales pipeline is progressing smoothly. These phases are created with workflow and are similar to workflow stages (see the section on workflow).

The sales cycle involves several entities:

- A lead is an unqualified marketing contact.
- An **opportunity** is a qualified sales opportunity associated with a potential **customer** together with associated **products**.
- An account represents the company details for a potential customer.
- A **contact** represents the contact details of a company but may also be a customer for consumer sales.

Products can be attached to the opportunity record initially and follow the sales process through as additional entities become involved:

- **Opportunities** have associated products with pricing taken from an appropriate price list and perhaps have a discount applied.
- Quotations are created with associated product items against a customer usually by converting an opportunity. A quotation can have user pricing to override the product pricelist pricing and also write-in products that are not attached to any record in the product catalog. Discounts and freight can also be applied here..
- Orders and associated products are usually created by converting an active quotation.
- **Invoices** can be created by converting an order although many CRM implementations leave invoices to be extracted from the accounting system.

Activities and **workflow** can be defined against any of these entities although CRM is designed to use the opportunity sales pipeline for monitoring and progressing the sales cycle. One area of systems analysis for CRM installations is the determination of the best practice for storing notes and activities consistently against the different entities associated with each potential sale.

Note: Some organisations do not require the opportunity phase in the sales cycle and progress directly from a lead to a completed sale.

The value of the **pipeline phase** for each opportunity is often used in conjunction with the expected date, value, and probability to drive the sales pipeline reports. See the workflow section for a description of how this can be automated.

11.1. Leads

Leads represent contacts at a stage before they become serious sales prospects.

Leads can be created in CRM from a text file using the **bulk import** facility and associated with a **marketing list.** The bulk import feature is discussed in the chapter on data management.

A **quick campaign** (see the marketing chapter) can rapidly create **activities** for organising sales activities such as scheduling outbound phone calls or emails or sales literature fulfilment via a mail merge.

At some point the status of the lead is updated and the lead may be **promoted** to an **opportunity** at which point an associated **customer** (account or contact or both) record is created and the lead is **deactivated** and made read-only.

Lead: Fred Bloggs	ion			
General Details	Administration Notes			
Address				
Street 1	104 Tamworth Road		State/Province	East Sussex
Street 2			ZIP/Postal Code	BN3 5FH
Street 3			Country/Region	England
City	Hove			
Company Inform	ation			
Annual Revenue	£ 135,000.00		SIC Code	7220
No. of Employees	4		Industry	Consulting
Lead Information				
Lead Source	Trade Show	•		

Note: Deactivated leads can be reactivated from the actions menu.

There are several predefined fields in the default CRM database used for profiling leads, including **annual revenue**, **industry type** and **lead source**. New attributes can easily be added to the lead entity and the validation set so that values must be entered by the user when a new lead is created. This can help in analysing the success of marketing efforts and is recommended practice.

Note: You should make sure that your system customiser defines mappings for additional fields created for a lead so that these values are copied automatically to the appropriate contact or account entity when the lead is qualified and the new records created.

Leads are converted to Opportunities (or disqualified) using the **Convert Lead** button on the form menu. The lead can be converted to the corresponding new account, contact and opportunity records or converted to a new opportunity against an existing customer record.

🦉 Cor	vert	Lead Webpage Dialog	×
Conv	vert l	Lead	
Specif disqua		ther to convert this lead into one or more of the following options or to	
œ	Qua	lify and convert into the following records	
	\checkmark	Account	
	\checkmark	Contact	
	~	Opportunity	
		Potential Customer	
		Currency 💐 UK Pound Sterling 🗔	
		Open newly created records	
o	Disq Stat	gualify tus Lost 💌	
http://d	s-srv-	OK Cancel	

Qualified leads are **deactivated** (made read-only) in the database and converted to the corresponding customer and opportunity records. A link to the original lead is available from the opportunity entity to trace back over the history if required.

Leads that fail to progress through to the sales pipeline can be **disqualified** rather than **deleted**. This means that the data is available for analysis later.

11.2. Opportunities

Opportunities are integral to monitoring the sales pipeline and represent a business opportunity with a customer or a prospect (either an account or a contact record). Leads must be converted to an opportunity before they are considered part of the sales pipeline.

Note: Some users of sales and marketing systems such as Act! And Goldmine find it difficult to move from one view of data to having data stored for a single prospect in the lead, account, contact, and opportunity entities (not to mention the related activities).

The key fields for the opportunity are the **potential customer**, the **currency**, and the **pricelist**. Each user has a **default currency** which is set into the lead initially and is carried through to the customer and opportunity when the lead is converted. The currency cannot be changed once the opportunity has been created and determines the available pricelists that can be selected.

🛺 🖬 🛃 Save and Close 📓 🎒 🕘 🗃 Follow Up Recalculate 🐞 <u>A</u> ctions -				
	Opportunity: SYNC CR			
Details:	General Administra	SYNC CRM Software		
 Relationships 	Potential Customer * Currency *	Stamati Crook	Price List	🙀 <u>UK Retail</u>
Workflows	Estimated Revenue			
Sales: Quotes Orders Invoices	Revenue Est. Revenue	System Calculated O User Pr £ 1,055.00	rovided Probability	50
Invoices	Est. Close Date Description	1/16/2008	Rating	Warm
				•

Note: New opportunities are created for existing customers to represent a new piece of potential business.

Once the price list has been specified, **products** may be added to the opportunity to reflect the interests of the potential customer. The individual products linked to an opportunity must come from a **product price list item**.

Prices are specified for each **product** against a **pricelist** (for each currency) and a base **unit** which must be specified together with the quantity and price. The options to alter prices and add discounts depend on the specification of the product and the user's security settings.

Note: Write-in products that do not derive from the price lists and discounts can be added at the quotation stage.

Prices are automatically calculated for **system calculated** opportunities which will automatically reflect any price changes made to the product price list items when the **recalculate** option is selected.

User provided prices can be set if the user has the appropriate security permissions and should be used when a firm price is given to the customer as they do not change automatically when recalculated.

	ortunity Product ftware		
Product * Pricing	Software	Unit *	Primary Unit
Price Per Unit Volume Discount	£ 248.00 £ 0.00		
Quantity * Amount	40.00 £ 9,920.00		
Manual Discount Extended Amount	£ £ 9,920.00		

Note: Clicking on the product hyperlink will bring up the relevant product form which shows the standard retail and cost prices and links through to **competitor and sales literature** information as well as all the price list items for that product.

The **sales pipeline** value is determined by the **probability** and the **estimated revenue** and **close date** and is an important management figure. **Pipeline phases** (see the workflow section) can be specified to monitor the sales process by automatically assigning a probability at different stages to reflect the business processes surrounding the sales pipeline.

11.3. Quotations

A new quotation is made by selecting the quotations pane from the opportunity record and creating a new quotation. This automatically copies the products already associated with the opportunity into the quotation.

-	twre Enquir Drmatio	-				
General	Shipping	Addresses	Administration	Notes		
Quote ID	*	QUO-1000-	IS5G89		Revision ID *	0
Name *		Software Er	quiry			
Potential	Potential Customer *		Green Living Limited		Currency *	💐 UK Pound Sterling
Price List	Price List *		ail	Q		
Totals						
Detail Am	ount	£ 9,920.00				
Quote Dis	scount (%)	5.00				
Quote Dis	scount	£				
Pre-Freig	ht Amount	£ 9,920.	00			
Freight A	mount	£ 15.00				
Total Tax		£ 0.00				
Total Amo	ount	£ 9,920.	00			

A **discount percentage** and **freight charges** can be added at this stage if required. The expected delivery dates and the shipping and invoice addresses are set in the **shipping** and **addresses** tabs of the form.

The pricing information stored against the quotation products can be changed and **write-in products** added that do not use the existing product codes or pricelists. You can specify the **override price** option to set your own price for a product item so that it is not changed (when the price is **recalculated**) because of a change to the product price list item.

	e Product ormation		
General Delivery	Address		
Select Product	C Existing O Write In	Product Description *	Installation over VPN.
Product	Q	Unit	
Pricing			
Pricing	Override Price		
Price Per Unit *	£ 100.00		
Volume Discount	£ 0.00		
Quantity *	1.00000		
Amount	£ 100.00		
Manual Discount	£		
Tax	£		
Extended Amount	£ 100.00		

Note: Most installations will want to implement a JavaScript solution on the form for the tax calculation which does not seem to be built in to CRM (see the customisation chapter).

Once the Quotation is complete you should use the option on the Actions menu to Activate Quote.

Use the **Print Quote for Customer** button to merge the quotation to Word, by means of your quotation Word template which can be stored in CRM. You can then distribute the document to the prospect (remembering to append a copy of the document as a file attached to the quotation in the notes field).

licrosoft Dynamics CRM Mail Merge for Microsoft Office Word elect the options for this mail merge.					
Start with a:					
C Blank document					
 Organization mail merge template 	2 Quote For Customer				
C Personal mail merge template					
Select data fields: To select the data fields to use with this mail merge, Data Fields	click Data Fields.				

Additional options on the Actions menu allow you to **get products**, perhaps from an opportunity created for another customer, or **lookup addresses** to specify the delivery and invoice addresses.

A **version number** is applied to each Quotation and best practice is to **activate** the quotation before sending to the prospect. Select the **revise quote** option from the Actions if you need to modify an existing quote and note that the **revision ID** for the quotation has been incremented.

The actions menu provides the **create order** option to convert the Quotation to an **order** (the quotation must be activated before it can be converted) if the quotation is accepted by the customer. On the other hand, if the quotation is not accepted, use the **close quote** option to indicate that the sale has been lost and indicate the appropriate reasons.

11.4. Orders

Orders have functionality similar to that of Quotations and allow modification of the final order information if required.

Order: SYN							
General	Shipping	Addresses	Administration	Notes			
Order ID '	*	ORD-1000-8P	PHGQ6				
Name *		SYNC CRM So	oftware				
Customer	*	🔙 Stamati (Crook C	Curi	ency *	Pound Sterling	Q
Price List '	*	🝺 <u>UK Retai</u>	<u> </u>	2			
Totals							
Detail Amo	ount	£ 1,115.00		Price	es Locked *	\checkmark	
Order Disc	count (%)						
Order Disc	count	£					
Pre-Freigh	nt Amount	£ 1,115.00					
Freight Ar	mount	£					
Total Tax		£ 0.00					
Total Amo	unt	£ 1,115.00					

The action menu is used to **fulfil** an order when it is complete and needs to be dispatched to the customer. Alternatively, the order might be **cancelled** (and the appropriate reason entered) or simply **deleted**.

Other options available for an order include looking up **addresses** and **recalculating** or using the **current product pricing** from the appropriate pricelists.

Finally, an **Invoice** can be created from the fulfilled Order record. Some of the accounts integration products stop invoices from being created within CRM and take completed orders to add into the accounting package and then copy the invoices back into CRM.

Note: The author has such software available for Sage and QuickBooks at <u>http://www.redware.com/mscrm</u> and Microsoft have their own offering for Dynamics accounting software.

11.5. Invoices

Invoices allow recalculation of the pricing information using the latest product pricing and can be **cancelled** or **deleted**. The actions menu allows the status to change to **Invoice Paid** which completes the Invoice so that it can no longer be updated.

Note: Many installations make invoices read-only and use their accounting system as the source of invoicing data. Take some care if you use invoices as multiple Invoices can be created from a single order. You may need to print invoices with a custom report and remember that Invoices should not be updatable once they have been dispatched to the customer.

11.6. Currency

Each user and customer has a default currency and all monetary values are stored against a specified currency together with a calculation of the amount in the system base currency.

Currencies are maintained in the **settings-business management-currencies** area and allow an exchange rate to be entered against the base currency. The current figures can be maintained by uploading a file of the latest currency rates.

Only the current prices are maintained and it is important to understand that the base currency values stored against each currency amount are recalculated only when any money field on a record is changed or the status for that record is changed.

Note: The base currency for the installation is set during the installation process but the system customiser can change the name and symbol of the base currency.

11.7. Sales Administration

Additional entities play a role in the organisation of the sales process in CRM:

- **Subject**. A hierarchy of subjects is defined in the **settings-business management-subjects** area to allow a consistent hierarchy to be applied for organising products and sales literature.
- **Competitors**. Competitors can be defined in the **sales-competitors** area with links to the products they supply and notes on their strengths and weaknesses.
- Sales Literature. A set of documents can be uploaded into the sales-sales literature area and tracked against products and competitors. An abstract and keywords help in searching for the required literature where there are many related products involved.

Sales Territories can be defined and allocated against each customer. Territories are created in the **system-business management-sales territories** area and have a manager and a number of member users. Each Customer can be assigned to a particular Territory allowing sales pipeline analysis by territory (and territory manager).

11.8. Sales Pipeline

The **sales pipeline** is an essential tool for sales and marketing management and shows the predicted level of orders currently coming through the sales process.

Sales pipeline reports (from the **workplace-reports** pane) use the opportunity data (comprising the probability, estimated value and estimated close date) to predict sales forecasts against the salesperson, business unit, territory and so on. Take a look at other reports regarding the sales pipeline including the **Sales History**, **Sales Pipeline** and **Neglected Leads** reports.

11.9. Sales Quotas

Sales quotas can be set against each user from the **actions-manage quotas** option of the user form. This option only appears after the fiscal year has been defined for the CRM installation.

Note: The fiscal year settings cannot be changed once they have been set so take great care to decide if you want monthly, quarterly, or annual sales quotas and take a backup before setting this value into the system.

Sales quotas are entered by selecting the fiscal period and currency and simply entering the sales targets for each user. These are then used in the pipeline reports.

Manage Quotas You have selected 1 Sales will be overwritten when y	person. Set the quotas of ou dick OK.	the Salesperson by enterin	g values in the boxes. Any e	xisting values
Fiscal year:	2008	3		
Currency:		Pound Sterling		Q
Period	Start Date	End Date	Quota	
2008Q1	1/1/2008	12/31/2008	£ 25,000.00	
				7
		ОК	Cancel	Apply

12. Marketing

Marketing is designed to aid the conversion of **leads** into **opportunities** by creating the appropriate **activities** to manage processes for a marketing campaign such as the mailing of a letter or the making of an outbound sales call to the lead. Marketing also applies to customer retention and cross-selling campaigns focussing on **existing customers** or prospects.

Marketing Lists are an important organisational feature of CRM which can be applied to many different business processes. These lists are a collection of leads, accounts or contacts that can be created manually or in accordance with any possible filter criteria. Marketing lists can be used to quickly **create activities** with **a quick campaign** and run **a mail merge** to Word.

Marketing lists are also used to drive a full marketing **campaign**. A series of **campaign activities** can be defined for a campaign to act as templates for generating activities against a collection of mailing lists. In our example, two campaign activities are created to act as a template for a mailshot and a follow-up call activity. A campaign activity is created as a template for each of the required activities and **distributed** as activity records created against the members of the appropriate marketing list.

Associated **costs** can be summated for each campaign by looking at the costs associated with each distributed activity. The performance and return on investment can be measured by creating **campaign responses** for each campaign and tracking them against any **opportunities** created.

12.1. Marketing Lists

Marketing Lists can be used to generate successive campaigns or control business processes such as regular mailings or courtesy calls made to customers. Marketing lists are defined for **leads**, **accounts** or **contacts** and consist of little information other than the list of **members**.

Marketing List: Special Offe	ers - Windows Internet Explorer	
🕢 🗟 🗟 Save and Clos	se 🔓 🍓 🍿 💣 Mail Merge on List Members 旧 Create Quick Campaign 🔗 Actions - 🕡 🔘	Help +
	Marketing List: Special Offers B Marketing List Members	
Details:	Search for records View: All Members	-
😤 Information	Total: 9 members	
B Marketing List Memb	🕞 👿 🔯 Manage Members More Actions -	
Marketing:	Full Name 🔺 Business Phone Address 1: City	3
P Campaigns	El Chris Ashton (555) 555-1212	
🚰 Quick Campaigns	David Ahs (555) 555-1212	
	James Alvord (555) 555-1212	
	John Evans (555) 555-1212	
	Kim Akers (555) 555-1212	
	Leonor Marques (555) 555-1212	
	Pia Lund (555) 555-1212	
	Tanja Plate (555) 555-1212	
	Tony Poe (555) 555-1212	
	1of9selected. III 4 Page All # A B C D E F G H I J K L M N O P Q R S T U V W X	
		_
Status: Active		
Done	🛛 💭 👘 🖳 Local intranet 🔍 100%	• //

Members can be managed from the marketing list form by selecting the **Manage List Members** form and clicking on the **Manage Members** button, which provides several options to manage members by using the features of advanced find.



Note: Remember that a filter can be complex and include related entities so that customers (accounts or contacts) can be filtered in accordance with, for example, the products in which they have shown an interest.

The **lookup members** option allows you to define a selection with an advanced find query and add the selected accounts, contacts, or leads into the marketing list. **Add members** will add new members found via the required query into the marketing list and **remove members** will remove members from an existing list in accordance with the query. **Evaluate** keeps only those members already on the marketing list that match the query and discards the remainder.

Marketing Lists can also be useful in situations where the advanced find query is not appropriate for selecting the required data. In this case, a marketing list can be created by manually adding the entity occurrences to the list. The contact, account and lead forms allow individual records to be added or removed from marketing lists with the **add to marketing list** button so a salesperson can create their own marketing lists.

Marketing Lists can also be created automatically when performing a **bulk import** from a spreadsheet file to create, for example, a marketing list for a tradeshow.

Mail merging to Word is available from the toolbar of a marketing list and creates a mail merge file integrated with Word for creating letters, envelopes, faxes, labels and also emails directly from Outlook (see the Using CRM section).

Quick Campaigns (see the Using CRM section) can quickly generate activities for a marketing list but campaign activities (see below) offer a more sophisticated approach.

12.2. Campaigns

Campaigns are used to help plan and organise marketing campaigns and keep track of costs and return on investment. A campaign is created from the **marketing-campaigns** work area and specifies basic campaign details, including the **price list**, the proposed and actual **start** and **end** dates and a **budget** and estimated **revenue** (on the financials page).

	mpaign: New Information				
Details:	General Financials	Administration Notes			
Planning Tasks	Name *	Christmas Special Offer Mailing	Status Reason *	Ready To Launch	
📸 Campaign Activities	Campaign Code	XMAS-OFFERS	Campaign Type	Direct Marketing	
📆 Campaign Responses 🎝 Workflows	Currency *	💐 UK Pound Sterling 🛛 🗔			
Sales:	Expected Response	100	Price List	🙀 <u>UK Retail</u>	
Target Products Sales Literature	Offer				
Marketing:	Schedule				
😤 Target Marketing Lists					-
Related Campaigns	Proposed Begin Date	10/11/2007	Actual Begin Date	■ • •	J
	Proposed End Date		Actual End Date	₩	1
	Description				'
	Description	Mail brochures followed by email ren	ninders.		

The **Expected Response** refers to the percentage of campaign responses expected from the activities performed. The **Target Products** and **Sales Literature** panes are for reference only and provide users with quick access to relevant information when dealing with a campaign response. **Related Campaigns** may also be of interest to the Marketing department (perhaps for reporting purposes).

The **planning tasks** pane is a quick method of adding **tasks** to the current campaign to represent the planning and preparation process. These tasks do not affect the campaign in any way and are just a convenient place to view the various tasks associated with a campaign.

Several pre-built reports are available to monitor campaigns including the **Campaign Performance** report available from the campaign form and the **Campaign Activity Status and Campaign Comparison** report available from the **workspace-reports** area

12.3. Campaign Activities

Campaign Activities are templates used to generate activities related to a campaign against the members of the marketing lists associated with the campaign.

A new campaign activity is defined and a **channel** selected to indicate the type of marketing activity (letter, fax, email and so forth). The activities are then **distributed** and recorded as activities within CRM. Later these activities are converted to campaign **responses** so that the success of the campaign can be monitored.

Campaign Activity: Se	-		
Campaign Activity	Notes		
Parent Campaign *	🚱 Christmas Special 😑 🗔	Status Reason	Proposed
Channel	Letter via Mail Merge 💌	Туре	Direct Follow-Up Contact 💌
Subject *	Send Brochure by Mail		
Cover letter and broc	hure to be sent second class postage	2.	<u> </u>
Owner *	S CRM Admin		1
Outsource Vendors	🕒 redware research ltd 💓 Card	ol Phillips	2
Scheduled Start	15/11/2007	Actual Start	
Scheduled End	22/11/2007	Actual End	
Budget Allocated	£ 175.00	Actual Cost	£ 220.00
Priority	High 💌		
Anti-Spam Setting:	Exclude marketing list member	s if contacted within	set time period
No. of Days	0		

Each activity generated can have an associated **budget** and **cost** which are summated on the campaign activity form and could also be used to help manage **outsourced vendors** (external suppliers).

The **channel** is the most important setting on the campaign activity and is used to generate **activities** according to the **marketing lists** attached to the campaign. The available channels comprise:

- Phone.
- Appointment.
- Letter.
- Letter via Mail Merge which uses the Outlook CRM client.
- Fax.
- Fax by Mail Merge which uses the Outlook CRM client.
- Email.
- Email via Mail Merge which uses the Outlook CRM client.
- Other.

The **Distribute Campaign Activities** button appears once the campaign activities form has been saved and brings up a form template to create the appropriate activity record for each entity occurrence in the campaign marketing lists. You can control the ownership of the created activities.

Note: The Anti-Spam Setting excludes records that have been contacted within the specified number of days.

12.4. Distribute Campaign Activities via Mail Merge (Outlook)

The Outlook client for CRM can be used to distribute letters, faxes, or emails via mail merge and the corresponding activity records can be generated (usually as completed activities) once the mail merge in Word has finished with the following dialog window:

Mici	rosoft Dynamics CRM Mail Merge for Microsoft Office Word	×								
Crea	te Activities									
Select	the options for the Microsoft Dynamic CRM activities that will be created.									
	ck Activities in Microsoft Dynamics CRM Mail Merge									
o	O Do not create Microsoft Dynamics CRM activities.									
_	No activities will be created in Microsoft Dynamic CRM after the mail merge is completed.									
œ	Create Microsoft Dynamics CRM activities Activity Details									
	Create activities in Microsoft Dynamics CRM when running mail merge.									
		_								
Assi	ign activities to:									
0	Me									
o	The owners of the records that are included in this mail merge									
o	Another user or queue									
	Automatically close the activities as completed									
	OK Cancel									

Note: Using the Outlook Client allows you to attach the relevant document to the activity.

12.5. Campaign Templates

You can save time by defining a **campaign template** if you are running a series of similar campaigns. An existing campaign can be **copied to a template** or **copied as a new campaign** from the action menu when looking at the campaign form.

12.6. Campaign Responses

Campaign Responses are used to monitor the activity resulting from a campaign.

Activities created with a campaign have a **Promote to Response** option on the actions menu (this should really be more prominent). Selecting this brings up the campaign response form, which can be used to record additional details required by the marketing department and also drives the reporting to measure the success of the campaign.

Individual activities created for a campaign activity can be viewed in the navigation pane of the campaign form and promoted to a response as required. Campaign activities can also be viewed in the **workplace-activities** area as well as against the corresponding lead, account, or contact record.

🅢 🖬 🗟 Save a	and Close 🔓 🎒 🕕 🖞 Conv	ert Campaign Response	<i> </i>
Cou	ign Response rtesy Call Required reg	arding specia	l offers.
Campaign Response	Notes		
Parent Campaign *	🚰 Christmas Special Offer 🛛 🚍 🗔	Response Code	Interested 💌
Promotion Code			
Received From Exist	ing Customer		
Customer	🚂 Tanja Plate		a
Received From New	Customer		
Company Name		Phone	
Last Name		E-Mail	
First Name		Fax	
Details			
Channel	Phone	Outsource Vendor	
Received On	09/11/2007	Close By	
Originating Activity	Sourtesy Call Required regarding sp	ecial offers.	3
Subject *	Courtesy Call Required regarding specia	offers.	
Owner *	🙎 CRM Admin	Priority	Normal

Note: The **outsource vendor** can be used to track reseller or affiliate schemes where an external organisation was responsible for generating the lead.

Emails sent out as part of a campaign can be automatically converted to campaign responses if a reply is received from the target (provided that incoming email and tracking are implemented on your CRM system).

Campaign responses can also be created as a new activity from the **new activity-campaign response** menu as responses to a campaign begin to arrive. Here the **Received from New Customer** details are filled in after the appropriate parent campaign has been selected.

🦲 Con	wert	Campaign Response Webpage Dialog	X
Clos	e and	d Convert the Response	
Close		sponse and select whether to convert it into a new record.	
·	Clos	e response and convert into a record	
	\odot	Create New lead	
		A lead is created using the information received in the campaign response.	
	0		
	0	Convert an existing lead	
		The lead that responds to the campaign is converted into a new account or contact.	
	0	Create new record for a customer	
		An account or contact record is used to create a new quote, order, or campaign.	
		C Quote	
		Order	
		Opportunity	
	V	Open newly created records	
	V	opennewly dealed records	
0	Clos	e response	
	Stat	tus Completed	
		· · · · · · · · · · · · · · · · · · ·	
			_
		OK Cancel	
http://d	ls-srv-l	01:5555/Contoso/MA/CampaignResponse/Di 독 Local intranet	

The **Convert Campaign Response** option is made available once a new campaign response record has been saved and this allows the campaign response to be closed and details converted to a **new lead** (for new details), or an **existing lead** to be converted to an account or contact, or for a **new quote**, **order** or **opportunity** to be created for an existing customer.

Close the response and change the status to **disqualified** if the campaign response does not fulfil the campaign requirements.

13. Service

The service area allows you to control the management and resolution of customer support cases as they arrive within CRM. Service queues can be set up easily to receive incoming emails and activities can be converted to a case against a queue. Customer Service staff can then browse the queue and accept cases working towards their resolution. The case can be put back in the queue or assigned to second or third line support if it cannot be resolved.

Service relates to the management and resolution of customer support cases. The principal entities involved are as follows:

- Cases defined for each customer service incident.
- **Contracts** which may be created against a customer if service contracts are relevant to the organisation and cases tracked against support contracts.
- Knowledgebase Articles which allow a rudimentary automated help desk facility where a bank of articles can easily be searched and emailed to resolve a case.
- A subject hierarchy for organising the knowledge base and cases.
- Service Activities which require the allocation of at least one resource to an activity (see the next section).
- Activities can be created for a case and must all be completed before the case is resolved.

13.1. Cases

A Case is defined to cope with a customer service enquiry. A case is defined against a **customer** and must have a **title**, an **owner** and a **subject** and must be linked to a **customer**.

	1000-E1Y959 rmation									
General	Notes and Ar	ticle								
Overviev	v									
Title *		Proble	n with Printer							
Customer	Customer * El Cat Francis									
Subject *	[De	efault Subject	Q	Case Type					
Case Orig	in [Satisfaction					
Assignm	ent Informat	ion								
Owner *	[<u>8</u> c	RM Admin	Q	Status Reason	In Progress				
Follow Up	Ву			••	Priority	Normal				
Contract	and Product	Infor	mation							
Contract	[Q	Product					
Contract	Line			Q	Serial Number					
Service Le	evel			•						

The **Notes and Article** tab is a convenient place to store progress notes against a case but also allows a full text search of the **knowledge base**. If an appropriate knowledge base article is found, it can be stored against the case and easily emailed to the customer.

Case: CAS-1000-RRH5ZP	
General Notes and Article	
Notes	
Click here to enter a new note.	<u>.</u>
Knowledge Base Article	
Article	Printer Driver Installation
Show article	
Show Comments 🖂 🛙	E-mail KB Article
Printer Drive	r Installation
	1 Installation
KBA-1000-JWL0XK	

Note: You can email the knowledge base article directly to the customer if you click the **show article** checkbox on the case form and press the **Email KB Article** button.

Cases can be created from the account or contact form and should be attached to a contract if you need to track work done against a customer to match the time spent against the contract limits.

A case can also be created by **converting an activity** to a case from an incoming **email** for example. Some installations have an incoming email address (for example <u>support@redware.com</u>) that brings emails into a queue for the customer service team to view and promote to cases as required.

Queues are an integral part of working with the service functionality of CRM and newly promoted activities or incoming emails from a customer support email or helpdesk activities are often assigned to a queue where the customer service person dealing with the request is not known when the case is created. Members of the customer service team can browse unresolved cases and take ownership to proceed to a resolution. The case can be reassigned back to the queue if the issue cannot be resolved and the case completed.

Incoming cases may be assigned to customer service personnel initially by the first line support team or automatically using workflow. Each customer service representative can view their personal queues in the **workplace-my work** area which shows all newly assigned cases. Newly assigned

cases appear in the **assigned** personal queue and move over to the **in progress** queue as each case is accepted (see the workplace section on queues).

Although anyone can view and add activities, only the case owner can **resolve** or **reactivate** a case from the action menu, and cases can only be resolved if all activities held against it have been completed.

13.2. Contract Template

Contract Templates must be set up to provide similar terms and conditions for different service contracts. They can be defined in the **settings-templates-contract templates** work area and determine whether **time** or **number of cases** apply as a constraint on the contract and also set out the available **working hours**.

Contract New	t Template																			
General																				
Name *	Telephony N	Maint	enar	nce]	Ab	brev	iatio	n *			TEL	MAI	лт		
Billing Frequency *	Default Val	ue						-	ĺ	Allo	otme	nt T	ype '	*		Tim	ne			
Contract Service Level	Default Val	ue						•	1		e Dis rcent		nt as			No				_
Language *	English							-	I		com	uge								
Description	Annal mante	enan	ce fo	orat	elep	hony	/ sys	tem.												
Calendar *		5	3																	
		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
	Мо										•	٠	٠	٠	•	٠	٠	٠	٠	
	Tu										•	•	•	٠	•	٠	•	•	•	
	We										•	•	•	•	•	٠	•	•	•	
	Th										•	•	•	•	•	•	•	•	•	
	Fr										•	•	•	•	•	•	•	•	•	
	Sa																			

13.3. Contract

Service Contracts are defined against a customer, showing the dates for which service activity is covered. The contract **name** and **customer** together with the **start** date and **end** date of the contract must be specified, along with the **billing address** and **currency**.

Contract: Annual Telep	phone System Maintenance N		
General Details	Notes		
Header			
Contract ID	CNR-1001-NT9P56		
Contract Name *	Annual Telephone System Maintenance		
Customer *	📔 Baldwin Museum of 🗧 🚍	Contract Address	4
Contract Start Date *	06/11/2007	Contract End Date *	05/11/2008
Duration In Days	366		
Billing Information			
Bill To Customer *	Baldwin Museum of Science	Bill To Address	Q
Billing Start Date	06/11/2007	Billing End Date	05/11/2008
Billing Frequency	Monthly	Cancellation Date	
Pricing			
Currency *	💐 <u>US Dollar</u>		
Total Price	\$ 0.00	Total Discount	\$ 0.00
Net Price	\$ 0.00		

At least one **contract line item** must be added to the Contract before it can be invoiced. The total number of cases or the time allowed for all related activities can be defined on the contact line item and monitored by viewing the **allotments used** and **allotments remaining** fields on the contract line item form.
The contract line item must have a **title** and a **start** and **end** dates and a constraint on the total **time** or number of **cases** allocated as well as a **price**. Contract line items usually refer to an item of equipment related to a **product** record.

Contract Line: Panasonic Telephone System Maintenance Information							
General	Administration	Notes					
Title *	Pan	asonic Tel	ephone S	ystem Maintenance			
Product			Q	Unit			
Quantity				Location			
Start Dat	e * 06/	11/2007	•	End Date *	05/11/2008		
Allotmer	nt Details						
Total Cas	es/Minutes * 50						
Allotment	s Used 0						
Allotment	s Remaining 50						
Pricing							
Total Price	e* \$	400.00		Rate	\$ 8.00		
Discount i	in (%) or 🛛 \$	0.00					
Net	\$	400.00					

A contract is not activated to be used until the **invoice Contract** action has been selected. This does not create an invoice record but makes the contract record **read-only** and allows the contract to be referenced with a case. The contract cannot be activated until at least one contract line item has been added.

Contracts can be put **on hold** (and **released**) and **renewed** if their expiry date is reached. Individual contract line items can be **cancelled**. Renewing a contract will create a new contract with the same details as the original.

Note: Making the contract read-only after it is invoiced makes it difficult to add further contract line items to the contract while it is in progress and can cause some usability issues.

The total time and resources available for each contract can be used to check service activity against each contract as shown in the **service management reports**.

13.4. Knowledge Base

The **knowledge base** allows resolutions to common customer service issues to be documented, and one method of resolving a case is to search the knowledge base area and link to the knowledge base article (which can also be emailed easily to the customer).

Users can add **comments** to articles to improve the knowledge base and articles can be associated with a case in the **Notes and Article** tab (or using the form assistant) and added to any email by pressing the **Insert KB Article** form button on the Email form.

Article New		
Details		
Title * Fix a Printer	Subject *	Default :
Keywords printer, power.		
从 🖻 🛍 Β Ι <u>U</u> ≣ ≣ ≡ Ξ Ε Ξ Ξ Α-		
Fix a Printer		
Problem		
Printer not working.		
Solution		
Check the power.		
Additional Comments		
Switch power back on.		

Each article is assigned to a **subject** which is part of a hierarchy to help organise articles (and cases and products) and can be set up in the **settings** area.

An **article template** is required for each article (**settings-templates-article templates**), and users can create articles if they have the appropriate security settings. Once an article has been completed, the **submit** action is required to submit the article for **approval**. Once approved (probably by a manager), the articles can be searched for easily by any user and inserted into emails in addition to being used to resolve a case.

Note: The knowledge base index is updated every 15 minutes and so changes are not made available immediately.

14. Scheduling

Scheduling makes it easy to find time slots where all the required resources are available for booking a service activity. Some examples might include:

- Telesales staff need to book a sales person for an appointment with a prospect.
- Dentists might define a service type for a check-up that takes 20 minutes and requires the customer to be allocated an appointment with their preferred dentist.
- An estate agent might have his day chopped into 45 minute slots for showing prospects around to view a property.
- A service engineer might need to visit a customer with some tools and equipment if a case cannot be resolved.

Service activities are similar to appointments in that **multiple resources** can be booked for a particular time and show up on the service **calendar**. Service activities can be used to book **equipment** and **resources**, in addition to **users** and **customers**, and have a **schedule** button available to help identify available times.

Microsoft Dynamics CRM - Win	dows Internet Explorer					_ 🗆 🗙
😋 💽 👻 🚂 http://localhost:55	555/loader.aspx			💌 🛃 🗙	Live Search	₽ -
🖕 🎄 🏠 • 🗟 • 🖶 • 📴	Page 🔹 🎯 T <u>o</u> ols 👻 🕢 🔹 🗱					
Microsoft Dynami	cs CRM					LitwareInc Administrator CRMVPC
New Activity - New Record - Go	To 👻 Tools 👻 🏹 Advanced Find					
Service	Service Calendar					
Service Calendar	Search for records	P Type:	Resource		/iew: All Resou	irces 💌
Accounts	New - Schedule Reschedule	Show Conflicts	Change St	atus 🥥 🏟		
🦳 Contacts		, 2008	g change of	Sunday, February 03, 2008		
Knowledge Base Contracts	Name 🔺 💋 😴	1 10:00 AM 1	1:00 AM	12:00 PM 1:00 PM	2:00 PM	💴 Calendar
i Products	8 LitwareInc Administrator				<u> </u>	< Feb 2008 >
Services						Su Mo Tu We Th Fr Sa 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 1 2 3 4 5 6 7 8
Workplace						Today: 2/3/2008
Sales						31 Month
Marketing						7 Week Day
Service		•				
Settings	1 of 1 selected. I d	From 2/3/2008	••	To 2/3/2008		
S Resource Center	AI #AB CDEFGHI JKLMNCPCRSTUVVXYZ	_	Zoom –	• • • • • •		
Done					🚽 Local intrane	t 🔍 100% 👻 //

Each service activity must have a **subject** and a **service type** and a **start** and **end** time. The service type indicates the default **duration** of the activity and the **resources** required (see below).

Service Activities can be created manually as for any activity but are often created with a scheduling process which indicates the next available timeslots where all required resources are available to fulfil the service activity.

14.1. Resources and Equipment

Equipment can be defined against a business unit and might represent a **facility** such as a meeting room or a physical item such as an LCD Projector.

Equipment is defined in the settings-business management-equipment/facilities area for each site and can have an email address and a time zone.

Save and Clos	e 🔓 🎒 🔥 Actions -	▼.).			
	Facility/Equipment: L				
Details:	General				
Information Work Hours	Name *	LCD Projector	Business Unit *	CRMVPC	Q
Service:	Primary E-mail				
🕵 Services 懿 Resource Groups	Time Zone *	(GMT) Greenwich Mean Time : Dublin,	Edinburgh, Lisbon, Lon	don	•
	Description	There is one LCD projector looked after	er in reception.		

Equipment and facilities can be made available for particular **working hours** and also be defined as located at a particular **site**. The scheduling facility makes use of this data to provide information on resource availability for each site when a new service activity is being created.

Collections of resources can be defined as **resource groups** and are scheduled together and defined in the **settings-business management-resource groups** area:

Resource Group: London Meeting Rooms				
🎇 Add Resources 🛛 🎒 📓 More Actions 🗸				
Name 🔺	Business Unit			
London Blue Meeting Room	CRMVPC			
London Red Meeting Room	CRMVPC			

Taking advantage of the various options for configuring **service types** (see below) can satisfy simple scheduling requirements, such as allocating appointments at a dentist, as well as complex servicing activities requiring the booking of various items of equipment and engineers at different sites and taking into account the working hours for different shifts and the preferences of each customer.

14.2. Service Type

A service type must be defined in the services-services area (or in settings-business management-services) before a service activity can be scheduled.

The service type is used to define how long a service activity might take and the required resources so that the available time slots can be determined by the scheduling process. The **default duration** and **start activities** values determine the time slots available during the day and the **required resources** indicate which resources are required to perform each service activity.

Service: Sales Demo w	•		
General Required Re	esources		
Name *	Sales Demo with Projector	Initial Status Reason *	Reserved
Description	Bookl sales meeting room and proje	ctor.	
Scheduling			
Default Duration *	2 hours		
Start Activities Every *	30 minutes 🗸		
Beginning At	09:30		

Each service type requires at least one resource which can be one of the following categories:

- Facility/Equipment.
- User.
- Team.
- Resource Group.

The **Required Resources** for a service can be quite sophisticated. This example is for a Sales Demonstration that requires all the following resources to be available at the **same site** for the Service Activity to be scheduled properly:

- A LCD Projector (equipment).
- A sales person chosen from the London Sales Team.
- A Meeting Room chosen from any of the rooms in the London Meeting Rooms Resource Group.



Resource Groups can be set up for interchangeable items in which case the **Choose 1 From** rule is selected. Alternatively a set of items can be combined and the **Choose All** rule specified so that all items in the group must be available to be scheduled for the service activity.

Double click on the wheel shaped icon of the selected resource to determine the **capacity** requirement (maybe you need two LCD projectors) and whether you want to choose the resource at **random** or select **the least or most busy** resource. The least busy option means that the least used meeting room is booked at any one time.

Edit a Selection Rule Edit a Selection Rule.			
Quantity *	1		~
Description			<
Scheduling Details			 4
Selection Criteria	Least Busy	1	•
Capacity Required *	1		
Help		ОК	Cancel

Note: The **more arrow** in the **scheduling details** section needs to be pressed to specify the selection criteria.

14.3. Scheduling an Activity

The creation of a Service Activity requires that a service type is selected to make the scheduling process available to help book a time when the required resources are available. Booked Service Activities appear in the **service calendar** and may be synchronised with Exchange and accessed from Outlook.

The **schedule** button shows the next free time at which all the resources required are available and allows them to be booked against the scheduled activity. The **service** and the **site** should be specified before the schedule button on the service activity form is pressed.

🥖 Schedule Service	Activity Webpage Dialog					X
Schedule Service	Activity					
Select the customers, times, and click Sched	service, and resources for this activity. Select the left of the select the s	ne date, time, and dura	ation, and click Find Availab	le Times. Select th	ne time you want from t	he list of available
Customers	Gail Erickson			Q	Form Assistant	(>)
Requested Service	Activity				Form Assistant Help	•
Service *	Sales Demo with Projector			Q		
Resources					Form Assistant Help	<u> </u>
					Select a lookup field.	
Site	Entosso London			4		
Requested Time						
Start Date	As Soon as Possible	•				
Start Time	Range of Times	• 09:30	✓ - 17:00	~		
Duration *	2 hours	🔛 🔽 Use De	fault Duration			
	Find Available	Times				
Available Times		- Thirds				
Service	Resources	Site	Scheduled Start	Scheduled End	1	
Sales Demo wi	Resources Bill Malone: LCD Projector: Meetin	~	14/11/2007 13:30	14/11/2007 15:	30	
Sales Demo wi	Charlie Keen: LCD Projector: Mee		14/11/2007 14:00	14/11/2007 16:		
Sales Demo w	8 Bill Malone; LCD Projector; Meetin	Contosso Lonc	14/11/2007 14:30	14/11/2007 16:		
Sales Demo w	S Charlie Keen; J LCD Projector; Mee	Contosso Lonc	14/11/2007 15:00	14/11/2007 17:	00	
Sales Demo wi	🔱 Bill Malone; 🔛 LCD Projector; 🔛 Meetin	Contosso Lonc	14/11/2007 15:30	14/11/2007 17:	30	
Sales Demo w	🔱 Charlie Keen; 🔛 LCD Projector; 🔛 Mee	Contosso Lonc	14/11/2007 16:00	14/11/2007 18:	00	
Sales Demo w	🔱 Bill Malone; 🔛 LCD Projector; 🔛 Meetin	Contosso Lonc	14/11/2007 16:30	14/11/2007 18:	30	
Sales Demo wi	<u> 8 Bill Malone;</u> 🔛 LCD Projector; 🔛 Meetin	Contosso Lonc	14/11/2007 17:00	14/11/2007 19:	00	T
1 of 38 selected.						I¶ ◀ Page 1 ▶
Help					Schedule	Cancel
http://ds-srv-01:5555/0	ontoso/sm/activityscheduling/schedulingdialog.a	spx?ActivityId=&Activ	vityTypeCode=4214		Nocal intranet	

Select the required combination of resources and press the **Schedule** button to create the Service Activity record as required:

Service Activity	Details	
Subject *	Sales demo wth Gail	
Service *	Site	Entosso London
Customers	Gail Erickson	
Resources	🔱 Charlie Keen 📓 LCD Projector 📓 Meeting Room B	
Location		
Show Time As	Reserved	
Scheduling Inform	mation	
Start Time *	14/11/2007 16:00 V Duration	2 hours
End Time *	14/11/2007 18:00 V All Day Event	

14.4. Preferred Resources

Preferred resources can be allocated to each customer so, for example, the regular service engineer that usually visits the customer can be the preferred engineer to book if available for a service call. This is available (by default) in the **administration** tab of the **customer form**.

Preferred Time	Morning	•	Preferred Day	-
Preferred Service				Q
Preferred Facility/Equipment	London Blue Meeting Room			Q
Preferred User	LitwareInc Administrator			Q

14.5. Service Calendar

The **service calendar** is more detailed than the **workplace calendar** which shows only information relating to the current user.

Serv	vice Calendar								
Seard	h for records	Type: Res	ource	View: All Re	esource	s			•
New -	🛛 📆 Schedule 🛛 Reschedule 🕴 🏥 Show Confli	icts 🍞 Chan	ge Status 🛛 🛃 😭						
			2007	14 November 2007		📴 Calen			
	Name 🔺	Site 💋	12:00	00:00	12:00	Calen	dar		
8	Lisa Miller	▲			-	< N	ov 200	,	>
8	Martin Berka					Sun Mon Tu	e WedT	hu Fri	i Sat
8	Mathew Pereira					28 29 30	31	1 2	3
	Meeting Room	Cor				4 5 6	7	89	10
8	Michael Berroth					11 12 13	3 14 :	_	_
8	Nancy Anderson					18 19 20		_	3 24
8	Patricia Doyle					25 26 27	7 28 3	29 30) 1
8	Patricia San Juan					2 3 4		0007	13
8	Roger van Houten					Today	: 14/11	2007	
8	Ryan Williams					31 Month			
8	Sara Davis					7 Week			
8	Shaun Beasley					1 Day			
8	Simon Rapier					L Day			
8	Stamati Crook								
8	Stefan Delmarco								
8	Terrence Philip								
8	Tim Litton								
8	Tony Allen				-				
Ĩ	,	×	•						
1 of 3	39 selected.	A Page 1	From 11/11/2007	⊙ ▼ To 17/11/2					
All #	A B C D E F G H I J K L M N O P Q R S T U	-		••••••					

Views can be selected (and defined) to show a smaller number of relevant resources, and the calendar expanded or collapsed to show the required level of detail. Several advanced scheduling functions are available from the toolbar:

- New Service Activities can be created with the **schedule** button.
- Clicking on a service activity allows the **reschedule** button to suggest alternative dates (when all resources are available).
- Show conflicts helps the administrator resolve any double bookings.
- **Change status** changes the status of the service activity (for example from reserved to completed).

14.6. Business Closures

Business Closures allow public holidays and company closures to be specified and interact with the scheduling of resources.

Business Closure		
Details		
Name *	Company Afternoon Outing	
Start Time	13/11/2007 13:00	🛛 🗖 All Day Event
End Time	13/11/2007 17:00	·
Duration	4 hours	·

15. Reports

This chapter covers the use of the **report wizard** for creating reports that are integrated with CRM and output reports based on the records in the currently selected view (or form) to a variety of outputs including pdf and Excel.

Note: The report wizard actually creates a report file within SQL Server 2005 Reporting Services which can be worked on and extended by a developer if more complexity is required.

There are a number of alternative methods for extracting data from CRM which could be considered before creating a report:

- Personal views can be defined easily to export (and re-import) data from CRM using a spreadsheet.
- Mail merge files can be saved as a means of exporting address information.
- Complex **SQL Server reports** can be created by a programmer and integrated with CRM.
- The CRM database can be accessed directly (using ODBC) from an external program or reporting software (for example Crystal reports).

You should note that the CRM database is a SQL Server database and can be accessed directly using a variety of standard software, including Microsoft Access and Office, Crystal reports and many other report writers and database access software programs.

Note: Remember to log in to the database using your windows identity so that the CRM security settings are preserved and to use only the views prefixed with the word **filtered**.

15.1. Report Viewer

Reports can be integrated and run from several different places within the CRM interface:

- Reports can be called from the workplace-reports area with default or custom selection criteria.
- Reports can be run from the current view, which allows a single record or all records in the current view to be selected. The user can also control+click on a selection of required records to be included in the report.
- Reports can be called when looking at a form in which case just a single record is selected for the report.

Reports appear in a **report viewer** which may allow items to be **sorted** by clicking on the arrows to the right of the column heading (some reports also have drill down facilities and hyperlinks). The user can also print the report or choose a format for exporting to a file.

of 1 🕨 🕅	100%		Find N	lext Select a f	ormat	Export	é
0.1 / /1	4 12003		1110	Joace and	ormat.		
ct Director	v						
	,						
				Account 🚖			
	Last Name 👙	First Name 🍦	Job Title 👙	Name (Parent Customer)	Business Phone	≑ E-mail	ŧ
	Ahs	David		City Power and Light	(555) 555-1212		
	Akers	Kim		Fabrikam, Inc.	(555) 555-1212		
	Alvord	James		Coho Winery	(555) 555-1212		
	Ashton	Chris		Blue Yonder Airlines	(555) 555-1212		
	Berg	Matt		Graphic Design Institute	(555) 555-1212		
	Berry	Jo		Contoso	(555) 555-1212		
	Brown	Robert		Margie's Travel	(555) 555-1212		
	Crook	Stamati	Managing Director	redware research ltd	0845 3010 444	stamati.crook@re ware.com	ed
	Danner	Ryan		Proseware, Inc.	(555) 555-1212		
	Dixon	Andrew		Adventure Works	(555) 555-1212		
	Emory	John		Contoso Pharmaceuticals	(555) 555-1212		
	Erickson	Gail		Coho Vineyard			
	Evans	John		Fabrikam, Inc.	(555) 555-1212		
	Francis	Cat		Baldwin Museum of Science	(555) 555-1212		
	Hines	Patrick		Litware, Inc.	(555) 555-1212		
	Holliday	Nicole		Humongous Insurance	(555) 555-1212	_	

Reports can be exported into several different formats:

- XML. XML is a good format for exporting to other applications (and particularly good for programmatic access).
- **CSV**. CSV is a general format readable by the widest range of software programs.
- TIFF. This is an old graphic format and not recommended.
- Adobe PDF. PDF documents are the best format for distributing reports widely and can be printed from any machine (you need to download the free Adobe Reader).
- **Excel**. Reports is exported as a spreadsheet and formatting is preserved as much as possible. This is a good format for distributing to other users who need to cut and paste the data.
- Web Archive. A proprietary Microsoft format easily publishable as web pages accessible from a browser (not recommended).

Note: Selecting an output format requires the **export to excel** security permissions to be available to the current user.

15.2. Report Wizard

The **Report Wizard** allows the creation of simple reports (implemented in SQL Reporting Services) that are automatically integrated into CRM.

You can start the report wizard by creating a new report from the **workplace-reports** work area and you can modify an existing report or start from scratch. You need to specify a report **name** and

choose the base **entity** (or **record type**) for the report. You can also choose a **related entity** here to show related records for the base entity (usually a one-to-many relationship, for example activities against a contact).

The next page allows you to specify report **filtering criteria.** Perhaps you can **clear** these and specify them in the reports form at the end of the process. Press **next** and the **Lay Out Fields** form appears, allowing you to add fields to the report and specify the **sorting criteria**.

ect the colu	imns, groupings, and t	otals to display in the	report.			
Click her	e to add a grouping]				Common Tasks
	Last Name	First Name	Job Title	Click here to add a column		Configure Sorting
						Add Column or Grouping
						Change Properties Remove Column or Grouping
						Set Top or Bottom Number
	•				D	

To add fields click on the **Click here to add a column** button and select the required field. You can select from the base entity and all related entities also (just many-to-one relationships) and can use the **Change Properties** button to change the width of the column. Use the green arrows to move the selected column and change the order of the columns in the report.

🖉 Edit Column Properties	Webpage Dialog	×
Edit Column Properties You can change the width of	s the column and the type of summary information displayed.	
Record type: *	Quote Products	
Column: *	Extended Amount	
Data type:	money	
Name:	extendedamount	
Column width: *	100 pixels	•
Summary type:	Sum	•
http://localhost:5555/CRMVPC	OK Can	cel

You can **add a group** to the report selecting the **click here to add a group** option and picking the appropriate field to group on. This allows you to specify **totals** for each numeric field and will be used if you want to create a chart in the report. Click on **Configure Sorting** to specify the default sort selection.

You will be prompted to add a **chart** to the report before finalising it. You can run the report wizard against the report at any time again to modify your report design.

The report form appears once the report has been completed and allows you to fine tune the integration with CRM. You can change these report settings by selecting the **edit-report** options from the actions menu in the **workplace-reports** area after you have selected the report in the report list.

Report Contac	t Directory
General	
Source	
Report Type	Report Wizard Report
	Click Report Wizard to create or modify the report.
	Report Wizard
Details	
Name *	Contact Directory
Description	Simple listing of basic contact details.
Parent Report	
Parent Report	
Categorization	
Categories	Administrative Reports;Marketing Reports;Sales Reports;Service Reports
Related Record Types	Contacts
Display In	Forms for related record types;Lists for related record types;Reports area
Languages	English

The **categories** section simply specifies the views within the **workspace-reports** work area which present the report. A more important integration feature is the **Display In** option, which provides the three kinds of integration mentioned earlier:

- Forms. This allows a report to run when viewing a single record in a form.
- Lists. Allows a selection of records from the current view to be included in the report.
- **Reports**. Adds the report to the **workplace-reports** work area according to the **categories** specified and uses the **default filter** to select records.

You should set the **default report filter** for each report (available from the actions menu of the report view) to select an appropriate range of records if you are calling the report from the workplace. The default filter can be overwritten when running the report and is not required for reports only called from a view or a form.

You can **share** your report with other users or make it available to the whole organisation from the actions menu on this form. A programmer can **download** the report to do further modifications and you can also **schedule** the report to run automatically within SQL Reporting Services or make it available to **external users**.

15.3. Running Reports

Reports can be run by pressing the **report** button available, where a report has been specified, on a form or a view.

Note: Running a report from a View allows individual records to be selected with **control+click**.

You have much more control over reports when running from the **workspace-reports** area. You can run or edit the report or run the report wizard again to change the report specification.

The **report filter** allows you to specify the filter selection on your report to produce summaries according to, for example, a date range or include only items created within the last month.

Repo	rt Filtering Criteria		
Cont	tacts		
		10 come on	
-	Clear 🛛 💽 Group AND	Group OK	

Quite complex report selection criteria, including related entities, can be built, and the filter criteria can be overwritten by the end user when running the report.

15.4. Scheduling Reports

Reports can be scheduled to run at particular times to save on resources when many different people want to view the same report. Select the scheduling option from the actions menu of the report selected in the **workplace-reports** area:

Select Freque Select how often a	ency and when to create snapshots.
Account Summa	ry
Specify the freq Reporting Serve	uency, and then specify the required details for the selected r.
6	Daily Schedule
Once O Hourly	Run report:
Daily	Every 1 day(s)
OWeekly	
~ weeky	C Every weekday

15.5. SQL Server Reporting Services

Microsoft CRM reports are built on top of a software technology known as **SQL Server Reporting Services**. Previous versions of CRM required technical expertise in this technology in order to build even simple reports which can now be built using the Report Wizard.

There are limitations to the complexity and power of reports created with the Report Wizard and all reports can be **downloaded** and worked on by a programmer and still remain integrated with CRM. More complex reports may need to be created from scratch by the programmer.

Note: Existing reports can be **downloaded** from the CRM environment (select a report in the **workplace-reports** area and use the action menu) and modified by a programmer using the report designer in **Visual Studio 2005**.

16. Workflow

Workflow is one of the key features that differentiates Microsoft CRM from other solutions. Microsoft regards workflow as so important that it has built a complete framework into the operating system. This means that workflow can be integrated with almost any application running on windows.

The **windows workflow foundation** allows programmers to create programs that stop and start and wait for something to happen just as a business process might do. For example, checking the credit status of an applicant for a mortgage may require many sequential or simultaneous tasks to be performed. Windows workflow allows such complex processes to be modelled in software.

Microsoft CRM 4.0 uses the new workflow engine but allows you to create your own workflow using the CRM application. Workflows operate automatically when certain things change on a record and they can be specified in the **settings-workflow** work area of CRM.

Note: Workflow can be extended by a programmer using the Windows Workflow Foundation tools for Visual Studio 2005.

Workflow: Credit Check I	Required		
General Administration	Notes		
🔗 Hide Workflow Prop	perties		
Workflow Name *	Credit Check Required	Triggering Event	Available to Run
		Create	On demand
Entity	Account	C Status change	As a child workflow
Apply To	Organization	Assign	
Publish As	Workflow	Attribute change Select Delete	
Add Step → → In Type a step description	-	ertier	
Update: Account Type a step description			
Create: Note	▼ Set Prop	erties	
Type a step description			
Create: Task	 Set Property 	erties	
Type a step description	here.		
Send e-mail: Create 1	New Message 🔍 Set I	Properties	

Each workflow is given a **name** and an **entity** to which it applies and it can **apply to** just the current user, their business unit or the whole organisation. This allows you to create workflow for just the sales department, for example. In addition, a workflow can be saved as a **template** to form the basis of other workflows.

16.1. Workflow Triggers

Workflows are triggered by an event happening within CRM, usually by a someone creating or altering data. The available triggers are:

- Create. The trigger fires automatically when a record is created (as the new record is saved).
- **Status Change**. The status values against an entity are easily customised and should reflect the relevant stage in the **life history** of the entity. A change in the status is a good place to create workflow actions which will vary according to each stage in the business process.
- Assign. Change of ownership (perhaps from a queue to a user) can automatically fire a workflow trigger.
- Attribute Change. Changes to particular field values in the database can automatically fire a trigger to start a business process. This could, for example, trigger a workflow when a custom checkbox is ticked.
- Delete. Automatic trigger to carry out a process when an entity occurrence is deleted.

Workflows can also be triggered **on demand** and are made available against the **activate workflow** button that appears on the actions menu when viewing a form.

Finally, a reusable child workflow can be specified which can be called from other workflows.

16.2. Workflow Steps

The lower half of the workflow pane contains the workflow process, which is specified as a series of **steps**. You can combine several steps into **stages** if you have a complex set of activities to be performed together within a single workflow.

Each step constitutes an **action** which may send an email, create an activity or change some data within the entity or related entity occurrences. More complex actions can, of course, be implemented by programmers.

The available action types are:

- Create Record. Create a new record usually specifying a related entity and defining data from the current record to give meaning to the new data. Activities and Notes can be created and related to the base record as well as any other entity.
- Update Record. Update the current or related entity data.
- Assign Record. Change the ownership of the current or related entity records.
- Send Email. Send an email or email template (with attachments).
- Start Child Workflow.
- **Change Status**. Changing the status of the current record is especially useful if you make the status field read-only so that it can only be changed automatically by workflow once all the relevant data has been specified and checked.
- **Stop Workflow**. Workflow is designed to pause and restart as the various processes are completed. This action indicates that the business process is complete.

16.3. Dynamic Values

The following screenshot shows the creation of a task activity during workflow triggered on the account entity.

The **create record** action is used and the template form for the task entity to be created is used to specify the values required for the new task record. The **form assistant** on the right hand side allows you to place **dynamic values** into the form. These values allow you to relate the newly created record to the current workflow entity occurrence.

	ow: Credit Check Required ate Task ds	
Subject *	Credt Check required for {Account Name(Account)}	Form Assistant 📎
		Dynamic Values
		Dynamic Values 🛆
		Operator:
		Account
		Add
		X Move Up Move Down
		Default Value:
Regarding	{Account(Account)}	
Owner *		OK
Duration	30 minutes Priority Normal	
Due	{Execution Time(Workflow)}	
Category	Sub-Category	

You can see in the example that the **regarding** value is set to the **account** entity and the **account name** is referenced in the subject field value. This is done by positioning the cursor in the required field on the form template and then selecting the required field in the dynamic values, pressing the **add** button and specifying any **default text** (to be entered if there is no value in the required field). Pressing **OK** will insert the appropriate dynamic value into the form.

Note: You can add more than one dynamic field value into the list of fields, and the first one in the list with a value will be inserted or the default value used if none of the fields have a value.

16.4. Workflow Conditions

Workflow conditions allow a single workflow to have a number of outcomes according to the state of the underlying data at the time the workflow is executed. The following example stops a workflow if a value has already been entered into the **credit limit** field of the account.

Add Step → → Insert → X
✓ Type a step description here.
If NOT NULL(Account:Credit Limit), then:
Type a step description here.
Stop workflow with status of: Canceled
Type a step description here.
Update: Account Set Properties
Type a step description here

Conditions are very useful for the **change status** type of workflow to allow a single workflow to carry out different steps according to the current value of the entity status.

16.5. Wait Conditions

Wait conditions can be specified on workflow so that the workflow pauses and waits for a change to occur on the entity data before proceeding (this is a feature of the windows workflow framework).

Note: This may be preferable to the alternative of creating a second workflow rule on the attribute change event.

16.6. Sales Pipeline Phases

Workflow can be applied to most entities in CRM but workflow against **opportunities** can be used in conjunction with updating the **pipeline phase** and the **probability** values to help drive the **sales pipeline** reporting process.

The idea is to create a series of workflows against the opportunity entity to reflect the stages in the sales processes of the organisation. Each stage (or pipeline phase) may require a number of tasks to be carried out and successful completion leads on to the next stage in the pipeline. As each stage processes, the probability of a successful sale increases.

The workflow needs to be created against the **opportunity** entity and is available **on demand** in this case and can be activated once the opportunity has been created with the **run workflow** button on the opportunity form toolbar. This workflow is made available to everyone in the same **business unit** as the creator of the workflow.

/orkflow: CRM Customi				
General Administration	n Notes			
🔗 Hide Workflow Pr	operties			
Workflow Name *	CRM Customisation Enquiry	Options for A	utomatic Workflows	
Entity	Opportunity	Scope	Business Unit	
Publish As	Workflow	Start when:	Record is created	
			Record status changes	
Available to Run			Record is assigned	
On demand			Record attributes change Select	
🗌 As a child workf	ow		Record is deleted	
→ Add Step - → → Customisation	• *			
Chase provide the second se	ospect to book appointment			7
Create:	Task 🔹 Set Prop	perties		_
Type a st	ep description here.			٦
Update:	Opportunity Set Prop	perties		_
→ Appointment I	Booked			
✓ Type a st	ep description here.			
Wait until	Chase prospect to book appointment (Task):	Status Reason equals [Comple:	ted], then:	
	ppointment Booked			
Up	date: Opportunity 💌 🔄	Set Properties		

The **add step** button is used to add the first stage which refers to the Customisation Enquiry pipeline phase. The **insert action** is used to create a task that is due in three days time and prompts the owner to try and schedule an appointment.

🛺 🖬 Save and Close	
Workflow: Handbook Quotation Create Task Task Additional Fields	
Reductional reduct Subject * Book CRM Customisation Pre Sales Appointment This prospect has all the information on our CRM Customisation process. Go ahead and try to book an appointment.	Form Assistant
Regarding (Opportunity(Opportunity))	Created On(Opportunity)
Owner Image: Comparison of the second seco	Default value:

A second action is added to update the opportunity record and set the pipeline phase to have the value **Customisation Enquiry** and the probability to 5.

A second stage is added which has a wait condition that waits for the task created in the first phase to be completed and then changes the pipeline phase to **Appointment Booked** and the probability to 15%.

Once you have created the opportunity, the workflow can be run from the run workflow button and automatically sets the pipeline phase to Customisation Enquiry, the probability to 5% and creates the task against the opportunity. You may need to wait a little **or press f5 to refresh** the form for the workflow to appear in the **workflow area** of the navigation pane.

The workflow process shows which stages in the workflow process have been completed.

🖉 System Job: CRM Customisa	ation Enquiry - Window	is Internet Explorer				- 🗆 ×
🕢 🛛 🖓 🖓 🖓	ancel 🛞 Postpone 🍕	Pause 🔥 Actions -				
Details: *	System Job: CRM Cus Informatio					
Market Information	Name	CRM Customisation Enquiry	Туре	Workflow		
	Regarding	CRM Customisation	Started On	2/1/2008	2:14 AM	M
	Job Owner *	🔱 LitwareInc Administrator	Completed On			M
	Start Reason	User started the workflow				
	Workflow Progress					
Status: In Progress	Create	e prospect to book appointment : Task: Book CRM Customisation Pre Sales Appointmet Vi e: Opportunity: CRM Customisation View properties		, then:		
Done					ocal intranet	100% • //
vone					ocarintranet	◄ 100% ▼ //

Completing the task will move the pipeline phase on to the next stage setting the probability to 15%.

17. Security

CRM has sophisticated security configuration facilities that use a combination of **business units** and security **roles** to determine the information and functionality available to each user within CRM.

Each record in CRM (except for organisation-owned entities) is assigned an **owner** who belongs to a **business unit**. It is the business unit that determines the security and each user is given a number of roles that determine whether they can access just records they own or access all the records belonging to the same business unit or those lower down in the hierarchy.

The following concepts apply to CRM security:

- Root Organisation the root business unit for the installation.
- Business Unit a hierarchical structure reflecting the organisation of the business, perhaps according to business function (sales, marketing, customer service) for a smaller company. Each user belongs to one business unit.
- User a user is assigned to a single business unit and has one or more security roles. The least restrictive security setting against all of the roles assigned to a user determines the security level.
- **Roles** the security role determines the security permissions available against each entity or function. Roles are defined against the root organisation or for a particular business unit and are inherited by the child business units.
- **Teams** individual records may be shared with individual users or with teams of users. Although teams have a default business unit, any user can be assigned to a team.

Teams allow for exceptions to be made to the security depending on the business unit hierarchy and individual records can be shared with any individual user or team.

The Enterprise version of CRM offers **multi-tenancy** where multiple instances of the CRM database can run side by side on the same hardware with users being able to log in to each instance with a single user licence. This may be useful for larger companies where different divisions run entirely separate business processes which can be installed as independent databases.

17.1. Business Unit

An organogram of your organisation can be used to determine a hierarchy of business units (departments) within the organisation that is broken down so that all staff within each unit are likely to be sharing information with each other. Members of each unit can be assigned different security roles so that the manager role, for example, can view all information owned by a business unit but ordinary members can view only their own data.

Each business unit is part of a hierarchy (the parent business unit can be changed in the actions menu) and inherits the available security roles from its parent. It is recommended that security roles are maintained against the primary business unit so that each role has a similar definition throughout the organisation.

Image: Save and Close Image: Save and C							
Details: *	General Addresses	Contoso Sales Department	Main Phone				
Workflows Organization	Division		Other Phone				
 Users Business Units Teams Facilities/Equipment 	Parent Business * Web Site	Contoso	Fax				

Security settings can be set up for each entity to **cascade** down to related (one to many) entities so that all related records have their ownership changed or are shared with a team when the parent record is assigned to another owner or shared (see the customisation section).

Business units can refer to external organisations that require access to CRM, such as resellers, affiliates or suppliers. Security can be set up so that these users can view and update data only within their own business unit. They can be made part of a team to be given access to other records only if the record is shared with the appropriate team.

Note: Take care when setting up the business units as the names cannot be changed after they have been entered.

17.2. Users

All user settings can be configured within the **settings-business units** option, and new users can also be created and altered here. Note that new users must first be created in the Windows Active Directory and that deleting or changing the user details within Active Directory does not automatically update the entry in CRM.

Entering the Domain Logon Name for a new user will automatically extract the remaining details from the Active Directory.

Save and Clos	🕢 🗟 🗟 Save and Close 🔓 🎒 🤣 Reports - 😭 Send Direct E-mail 🖉 Actions - 🛞 Help						
8	User: Stamati Crook	n					
Details:	A The information	provided in this form is viewable by	the entire organization	n.			
S Information	General Addresses						
🕵 Teams 🎡 Roles	User Information						
IIII Work Hours	Domain Logon Name *	CONTOSO\stamati.crook	Main Phone	0845 3010 444			
Service:	First Name *	Stamati	Other Phone				
Services	Last Name *	Crook	Home Phone				
🎎 Resource Groups	Title		Mobile Phone				
	Primary E-mail	stamat.crook@redware.com	Preferred Phone	Main Phone			
	E-mail 2		Pager				
	Mobile Alert E-mail		Fax				
	Organization Inform	ation					
	Manager		Business Unit *	🚔 Contoso Sales 📄 🖸			
	Territory	Q	Site	Q			
	E-mail Access Config	guration					
	E-mail access type - Incoming: *	Microsoft Dynamics CRM Client for Outlo	ook	•			
	E-mail access type - Outgoing: *	Microsoft Dynamics CRM Client for Outlo	ook	•			
	Client Access Licens	e (CAL) Information					
	Access Mode *	Full					

The **Organisation Information** for a User is useful in different areas of the application:

- Manager can be used to create workflow and for reporting analysis.
- Business unit is the core organising principle behind the ownership of data and security.
- Territory is used for assigning leads and monitoring the sales cycle.
- Site is used to determine location for scheduling.

Note: Multiple users can be entered from the **new-add users** option.

Changing the business unit for a user will affect the security settings on all of the records owned by the user and needs some care. All of the owned records can be reassigned before changing the business unit with the **reassign records** option on the actions menu of the user form (you can also use the **assign** button available on the view toolbar).

The **manager** and **business unit** can be changed from the actions menu. Changing a business unit against a user deletes all of the roles, and the user will have no security rights to access the system until a new set of roles has been specified.

Users can be **enabled** and **disabled** and the number of full and read-only users should match the purchased licences. There are three different **access modes** for a user:

- **Full** provides access to the database according to the least restrictive of the assigned security roles.
- Administrative users have no access to data but can log on to the system and change settings (no licence required).
- **Read-only** users pay a reduced licence fee but cannot write to the database.

Note: Read-only and administrative users can be owners of tasks even though they cannot alter data, and workflow could be defined to carry out email notifications as necessary.

Email Access Configuration allows you to define the way in which email is synchronised with CRM with regular Outlook users using the Outlook client for integration and other users perhaps using automatic routing via Exchange.

Note: You can test different users without having to logon multiple times by selecting the **Internet Options** and changing the **Security** settings for your browser to **prompt for user logon** (usually for trusted sites). You will be prompted for a username and password each time you access the system.

17.3. Security Roles

Security settings for each role are defined for each entity or against specific functions. A number of default roles are set up during CRM installation and can be used or **copied** to help with initial configuration. Take care to create roles at the highest applicable business unit in the hierarchy so that changes are passed down throughout the system.

Note: **System Administrator** and **System Customiser** are special roles for administering and customising the system.

Remember also that users belong to a single business unit and can have multiple roles with the least restrictive security permission applied where appropriate.

Role Salesp	erson								
Details Core Records	Marketing	Sales Service	Busine	ss Management	Service M	lanagement	Data Manage	ment Cus	tomizati
Entity	Create	Read	Write	Delete	Append	Append To	Assign	Share	
Account		•	٠		•	•	\bigcirc	•	
Contact		•	•	<u> </u>	•	•	\bigcirc	•	
Lead	\sim	•	•	<u> </u>	•	•	\bigcirc	•	
Opportunity		•	•	<u> </u>	•	•	\bigcirc	•	
Activity	\sim	•	$\overline{}$	\sim	$\overline{}$	-	\bigcirc	•	
Note		•	\bigcirc		$\overline{}$	-	\bigcirc	•	
E-mail Template	\sim	•	\bigcirc	•	$\overline{}$	0	-	-	
Announcement	0	•	0	0		0			
Subject	0	•	0	0	0	0			
Queue	0	•	0	0		•			
Saved View	$\overline{\mathbf{Q}}$	$\overline{\mathbf{Q}}$	\bigcirc	$\overline{\mathbf{O}}$			\bigcirc	\bigcirc	

Security settings can be established at the following levels:

- None no access permitted.
- **User** the user can access entity occurrences that he or she owns, along with entities that have been shared explicitly with that user or a team to which the user belongs.
- Business Unit the user can access any entity owned by members of their business unit.
- Child Business Unit the user can access any entity owner by their business unit or any business unit lower down in the hierarchy.
- **Organisation** access to everything.

Most entities have **user-based ownership**, and the owning business unit is determined by the owner of the record. Changing the owner, using the **assign** button, may in some cases also change the business unit affecting the access rights on that entity occurrence. Changing the business unit for a user will also change the Business Unit of all of the entity occurrences owned by that User.

17.4. Teams

Teams are used to allow exceptions to the security levels. Perhaps some contacts need to be **shared** with users in separate business units, but the current security access level denies access. In this case, the entity occurrence can be shared with individual users or teams who then have the permitted access to that entity.

Note: Teams are assigned to a default business unit, but this is just to limit the teams visible to other users. Any user can be specified as a member of any team.

One problem with security is that the business unit is automatically assigned to each record according to the current owner and it does not seem possible to change this without reassigning the owner. This can cause problems when a department is sub-divided into several business units and the manager and administrative staff are in the parent business unit. In this case, any records created by the manager cannot be viewed by the users in the child business units and will have to be shared with a team.

18. Customisation

Microsoft CRM has a very robust software framework which enables end users to create and alter the database definition from the user interface. Technical skills are not required but permissions to perform customisation are usually reserved for the systems analyst or a **system customiser** who is in charge of making changes to the system.

This chapter discusses mainly entity customisation where existing and new entities can be defined in several ways:

- Views can be created for all users (personal views can also be shared by the user).
- Custom entities can be created.
- Existing entities can be modified and attributes (fields) changed or new fields added.
- Forms can be altered (only one form per entity).
- **Relationships** and **mappings** can be defined between entities (mappings automatically copy field values over from the parent when creating a child record).
- Relationship roles can be defined between the account, contact and opportunity entities.

Any changes made in this area are not reflected in CRM until the appropriate entity has been selected and the changes published by pressing the **Publish** button at the top of the page.

Before you add any new entities or attributes you should alter the **prefix** in the **customization** tab available from **settings-administration-system settings** to a unique prefix for your organisation. This ensures that your customisations cannot conflict with customisations that you may add later copied from another organisation or created by a software supplier.

18.1. Views

Views are very easy to change, and the users themselves can create their own views. A fully customised version of CRM may need many views changed, and this can take some time when you take into account the time spent liaising with the users.

There are several kinds of view:

- The **default** view (specified with the Actions menu) which is the view first seen when selecting on the entity.
- The **associated** view is seen when clicking on the navigation pane for a related (one-to-many) entity in a form.
- The lookup view is seen when looking up a related entity.
- Quick find views are used when searching in a View. Fields can be added to find columns in this view and used in the search.
- **Public** views are defined for all users.

Note: Personal Views can also be shared with other users by the owner.

Views can be edited (only if you have security rights), and you can add fields from any related (many to one) entity. The position of the fields can be changed by selecting the field and clicking the **green arrows**, and the field widths can be set with **change properties**.

View New		
Account Number Account	Name Account Rating Aging 30 Aging 60	Aging Common Tasks
		A State of the
		I View Properties
	View results are displayed here.	🔑 Edit Filter Criteria
		Configure Sorting
		Add Columns
•		Change Properties
		Remove
() Note: When there are to	o many columns to fit on a page, the view will be shortened and scrollbars will be added.	I.

Each View can be **sorted** on any (single) field which also powers the alphabet bar along the bottom of the view to help selection. You might want to provide a view sorted by postcode or account number if users are constantly searching with these criteria.

The **filter criteria** can be specified so that only selected records are shown. The relationship type on the account entity might be used, for example, to select only customers in a View.

Note: Quick find views allow one or more **find columns** to be specified and are used to search through the table when using the search option for a view.

18.2. Preview Form

The preview form is defined together with the views when customising an entity and allows for a collection of fields to be seen by toggling the **see more** triangle on the view without needing to launch the entity form.

18.3. Entities

Existing entities can be extended or new entities defined.

Entity Account	
Details:	General Primary Attribute
Information End The second	Entity Definition
Attributes	Display Name * Account Plural Name * Accounts
🕞 1:N Relationships	Ownership * User Name * account
PI N:1 Relationships N:N Relationships B Messages	Description A business that represents a customer or potential customer. The company that is billed in business transactions.
	Offline Availability Show in Microsoft Dynamics CRM dient for Outlook when offline
	Duplicate Detection
	Enable duplicate detection
	Relationships
	These relationships may only be defined when a Custom Entity is created.
	Note (includes attachments)
	Areas that display this entity
	Workplace Sales Marketing Service
	Settings Resource Center

A new entity requires the following definitions, and take care, because some of these options cannot be changed once the entity has been created:

- Name.
- Plural Name.
- The **Primary Attribute** is used to describe the entity occurrence and is displayed as a hyperlink on a form where a relationship is made to the entity (take care as it cannot be changed later).
- **Organisation** or **User Ownership**. This affects security, as only user-owned entities can have business units and allow security to be defined.
- Synchronisation with the Outlook Client.
- Allow Notes or Activities to be added against the entity.
- The Work areas which display the entity can be specified.

Note: All new entities and attributes are automatically created with a **new_** prefix. It is a good idea to change this prefix in the Settings menu to a different value so that your customisations will not clash with other customisations that use the same prefix.

18.4. Attributes

Once an entity has been created, the **attributes** (fields) can be defined. Each field has a type and a **display name** and a **schema name**. The schema name and type are set into the database structure and cannot be changed once the attribute has been created.

General			
Schema		Туре	
Display Name *	IP Address	Type *	nvarchar 💌
Name *	redware_IPAddress	Format *	Text 💌
Requirement Level *	No Constraint	Maximum Length *	15
		IME Mode *	auto 💌
Description			
P Address of account network	k. 💽		

The **requirement level** is used to **recommend** or **require** that the value is entered by the user on a form. See the next section on how to edit the form to include the new field.

The following field types are available:

- nvarchar Unicode text value formatted as text, an email address or URL, text area or ticker.
- **picklist** integer representing a value defined in a list of options.
- bit yes/no value
- int an integer whole number formatted as an integer, a duration, or a time zone.
- float a decimal number.
- **money** a decimal number representing a currency value (which automatically stores both the currency and base currency values).
- **ntext** a large piece of text such as a note (or email body).
- datetime a datetime value which can be formatted to show just the date if required.

Selecting a type will change the available **format** options available.

Note: Try to ensure that you always add and delete values together on all similar picklists, as CRM does not recognise the text value of the picklist when performing any mappings and always takes the integer value for comparison.

You can view the entities and their definitions with a CRM utility page as follows (substitute your own server name into the URL):

http://crmserver:5555/sdk/list.aspx

http://crmserver:5555/sdk/mdbrowser/entity.aspx?entity=entityname

There are some system fields that are automatically defined for all entities:

- Primary Key (a GUID).
- Status.
- State.
- Owner.
- Relationships (many-to-one) have the primary attribute values as well as the foreign key identifier stored.
- Created and Modification dates.

The **status** and **statuscode** fields are important and are often used to define the workflow and the status of an entity on completion. Note that most related fields and picklist values store both the key value and a name value corresponding to a text value for the entity to make reporting easier.

18.5. Forms

Forms can easily be customised in a web-based editor available in the **settings-customizationscustomize entities** work area. Each form is composed of several elements:

- **Tabs** across the top of the form.
- Each tab is divided into sections which may optionally display header information.
- Fields are positioned within each section.
- An **iframe** allows a URL to be specified to pull in information from an external website.

General Details	Administration Notes			Common Tasks
Account Informa				ດັຄ
Account Name *	Account Name	Main Phone	Main Phone	
Account Number	Account Number	Other Phone	Other Phone	
Parent Account	Parent Account	Fax	Fax	Add a Tab
Primary Contact	Primary Contact	Web Site	Web Site	Add a Section Add Fields
Relationship Type	Relationship Type	E-mail	E-mail	Add Fields
Currency	Currency			
Custom				Change Properties
Address				
				Form Properties
Address Name	Address 1: Name	ZIP/Postal Code	Address 1: ZIP/Postal Code	
Address Name Street 1	Address 1: Name Address 1: Street 1	ZIP/Postal Code Country/Region	Address 1: ZIP/Postal Code Address 1: Country/Region	
Street 1	Address 1: Street 1	Country/Region	Address 1: Country/Region	
Street 1 Street 2	Address 1: Street 1 Address 1: Street 2	Country/Region	Address 1: Country/Region Address Phone	

Fields can be moved around within a section with the green arrow buttons. Selecting the **change properties** option allows fields to be moved between sections and the **label** changed or the field **disabled** (made read-only). Removing a field removes it from the form only and not the database.

Note: Security is applied to the whole record according to the business unit of the owner. Security on individual fields or tabs on the form must be implemented programmatically with JavaScript if different security is required for different users.

18.6. JavaScript

The behaviour of a form can be modified with JavaScript to enable and disable fields and perform many other tasks.

CRM forms have a standard layout and functionality and programming with JavaScript allows you to customise the validations on fields and general behaviour to suit your exact requirements. Security is defined at record level and consequently JavaScript is used to disable fields according to user level security.

There are various JavaScript functions available within a CRM form to set field values, check the status of the form (is it being run from a laptop, for example), save the form and so on. Examples can be found online, and we recommend that programmers read the **Working with CRM** book for more information (see the resources section).

Note: The use of Ajax programming techniques can make JavaScript programming a very powerful feature.

The form designer allows JavaScript code to be pasted into **form level** and **field-level events** and the **preview** button allows some limited testing to take place before publishing the modified form.

There are two form-level events which can be customised with JavaScript code:

- OnLoad this allows the form to be initialised as it is loaded.
- **OnSave** form level validation occurs here with a false value returned to prevent the form from updating.

Field level events comprise just the **OnChange** event which fires each time the field is updated. The example below shows how a programmer can add an onchange event to the quantity field on a quotation and automatically calculate the tax.

🥖 Event Detail Properties Webpage Dialog	×
Event Detail Properties Modify this event's detail properties.	
Details Dependencies Event is enabled. Enter the body of your script here. It will be called when this event is triggered. function OnChange() { // Calculate Tax (ignore volume discount). // This is required on quantity and manualdiscountamount events var lineitemvalue = (document.crmForm.all.quantity.DataValue * document.crmForm.all.priceperunit.DataValue) - document.crmForm.all.manualdiscountamount.DataValue; document.crmForm.all.tax.DataValue = lineitemvalue * 0.175;	

Note: Programmers can also access the internal functionality of CRM with plug-ins and you might want to disable the tax field and calculate it automatically as the data is saved.

18.7. Iframes

IFRAMES allow integration with external websites and help programmers to integrate with CRM by displaying related web pages such as a map related to the address. Most of these integrations will require some JavaScript or the passing of the object level identifiers to the page.

18.8. Relationships

Custom entities usually require that one or more **relationships** are defined to relate the entity to existing entities already in CRM. Relationships can be of several types:

• **1:N** or one-to-many. For example, each order may have many order items.

- N:1 or many-to-one. For example, each order item belongs to just one order.
- N:N or many-to-many relationship. For example, an account can have many contacts and each contact can be associated with several accounts.

Many-to-one relationships are important as they determine the entities which can be joined together easily to make fields available in a view. Each contact has a primary account so the two entities can be joined and fields from the primary account record displayed alongside the contact record. Fields from other related accounts (one-to-many or many-to-many) cannot be displayed in a view because the system cannot determine which of the many account records to display.

Note: Relationships can be self-referential so that a manager, for example, can be defined for contact records that refer to the manager also stored in the contact table.

The following screenshot illustrates the creation of a many-to-one relationship from a custom entity called **holiday** to the contact **entity**. The primary entity (contact) is the **one** side of the relationship, and the related entity (holiday) the **many** side so that each Contact can have many Holiday records but each Holiday just one Contact.

Relationship New						
Details:	General Relationship Definition					
🖬 🐮 Mappings	Primary Entity *	Contact 💌	Related Entity *	Holiday		
	Name *	redware_contact_redware_holiday				
	Relationship Attribute					
	Display Name *	Holiday	Type *	lookup 💌		
	Name *	redware_HolidayContactId	Requirement Level *	No Constraint		
	Description			 ▲ ▼ 		
	Navigation Pane Item for	Primary Entity				
	Display Option *	Use Plural Name	Custom Label *			
	Display Area *	Sales 💌	Display Order *	10,000		
	Relationship Behavior					
	Type of Behavior *	Parental		•		
	Assign *	Cascade All	Reparent *	Cascade All		
	Share *	Cascade All	Delete *	Cascade All		
	Unshare *	Cascade All	Merge *	Cascade All		

Publishing the customisations (for both contact and holiday) adds a new option into the **navigation pane** of the contact entity form showing Holidays. Selecting this pane allows new holidays to be added and related to the contact.

The Holiday entity is also made available from the sales work area, and adding a new Holiday record allows the user to look the Contact up to join the two records together. In this case, a Holiday record cannot exist without a related contact record in this example because of the **parental** relationship. Complex behaviour can be defined so that all holiday records are deleted, for example, if the parent contact record is deleted.

The available modes are:

• Referential. The many records can exist independently of the one record.

- Parental. The many records cannot exist independently of the one record.
- **Referential, Restrict Delete**. The one record cannot be deleted until all of the many records have been deleted.
- **Configurable Cascade**. Configure each feature manually so that changes in ownership and so forth cascade down from the one entity to the many records.

The cascading option extends past that of the behaviour of the Delete operation. The cascading options control the way in which the related records in a many-to-one relationship change if the parent record also changes. Changes to the Owner assigned to the master record, or to the Teams shared, can be passed on down to the related records.

Note: You may need to change some of the system relationship cascade behaviour to stop changes in the ownership of a Lead, for example, from reassigning all related activities to the new Owner.

The **Mappings** for a relationship allow fields to be copied automatically (from the one to the many entity) when a new entity is created. For example, the email address of the Contact is copied over automatically when the Holiday record is created from the contact form.

18.9. Renaming an Entity Description

An entity description can be changed, and CRM customisers often rename the Accounts entity as Company. You can easily rename the entity, but doing the job properly requires more than just changes to the entity name:

- Change the entity name and plural name.
- Rename any views.
- Rename any labels on the forms.
- Change system messages.
- Change labels in reports.
- Change the online help.

18.10. Relationship Roles

Relationship Roles can be defined between the core account, contact, and opportunity entities to capture relationships between entities. For example, you may sell services to doctors and their patients and need to keep track of their relationships.

In this case you might create a relationship called **doctor** to make relationships between the Doctor's Surgery (account) and their patients (contacts). This is an **account role for contacts** and you would also create the opposite **patient** relationship as a **contact role for accounts**.

The example below shows the creation by the system customiser of a relationship that operates between accounts and contacts:

L				
Role Name *	Doctor			
Role Availability				
				d be available, and to wh
		specify in which record n which records this role Account		d be available, and to who opportunity
		Account	will appear.	

You can create the relationship from the contact (or the account) form by adding a new relationship from the **relationships** pane. Select the current contact record as **party 1** and then select the appropriate account record for the Doctor's surgery in **party 2**. Now you can specify the appropriate roles and use them later for marketing or informational purposes when communicating with the Doctor or their Patient.

🕢 🖬 🔜 Save a	and Close 🔓		Ø Help +
Custon New General	ner Relationship I		
Current record:		Create relationship to:	
Party 1*	🕵 Stamati Crook	Party 2 *	Hove Doctors Surgery
Role 1	Patient 💌	Role 2	Doctor
Description 1	 ▼	Description 2	
Status: New			

Note: Relationship Roles are flexible but are difficult to report on and difficult for new users to understand. A similar (but less flexible) relationship can be created between entities by creating relationships between entities.

19. Data Management

19.1. Export and Import from Excel

The simplest way to manage data is to create a view and export a spreadsheet from CRM with the additional fields required to allow data to be re-imported into CRM. The import process will update existing CRM records and also allow the creation of new ones.

See the section in the Using CRM chapter.

19.2. Bulk Import

An important feature of CRM is the ability to create new leads (assigned to a marketing list) quickly from a file of contact details received perhaps from a list vendor or a trade show.

The **bulk import** facility available from the **tools-import data** menu of the lead view (and for other entities) allows field mappings to be applied against the columns in the import file and for the data to be imported (specifying a marketing list allows easy tracking and deletion of the list in the future).

A **data map** needs to be made first to map the fields from the CSV file to the entity. The **settingsdata management-data maps** area allows a data map to be imported from an XML file or created using a sample CSV file as a template (put the field names as the first line of the file).

Note: Dates must be in YYYY-MM-DD format.

🕮 Info	ta Map: Tradeshow Default Information Load a sample file and then map each column heading to a target Microsoft Dynamics CRM attribute.						
	Source	eading to a target Microsoft Dynamics CRM	Target				
	Column Headings 🔺	Mapped Target Attributes					
	city	Street 2	Unmapped Attributes All				
	company	Company Name *	Lead A				
	county	Street 3	Sales Stage				
	email	E-mail	Salutation				
	first name	First Name	Send Marketing Materials				
	job title	Job Title	SIC Code				
	last name	Last Name *	Source Campaign				
	postcode	ZIP/Postal Code	State/Province				
	street	Street 1	Status Reason				
	telephone	Business Phone	Topic *				
			Web Site				
			Yomi Company Name				
			Yomi First Name				
			Yomi Last Name				
			Yomi Middle Name				
	Mapped source column headings: 10 of 10	Mapped required target attributes: 2 of 3					
	Load Sample Data	Ignore Unmap	* Business required Map				

Required fields are highlighted with an asterisk and must all be specified before the data map can be used to import data from the **tools-import data** menu option of the entity. If you have selected any picklist fields for importing, you are asked to select corresponding mappings so that all imported records have the appropriate picklist values set automatically.

You are asked which entity and data map you want to use and whether duplicate records should be uploaded. A **system job** then begins and the file is processed in the background with all records allocated to the current user as the owner. System jobs can be viewed from the **workplace-system jobs** area.

Sys	tem Jobs				
Seard	h for records	Q	Type: All		
ntity	r: All		View: My Sy	stem Jobs	
3	🛛 🗙 More /	Actions +			
	System Job Type	System Job Name		Regarding	Status Reason
	Import	sjc01.csv {Lead}		🗃 <u>sjc01.csv {Lead}</u>	Succeeded
	Transform Pars	sjc01.csv {Lead}		🗃 <u>sjc01.csv {Lead}</u>	Succeeded
	Import File Parse	sjc01.csv {Lead}		🗃 <u>sjc01.csv {Lead}</u>	Succeeded
	Workflow	Contoso-specific Sales Process		💣 <u>Courtesy Call Requ</u>	i Paused
	Workflow	Send Brochure		💣 Courtesy Call Requ	i Succeeded
	Workflow	Send Brochure		💣 Courtesy Call Requ	i Succeeded
	Workflow	Contoso-specific Sales Process		🝟 Courtesy Call Requ	i Paused
	Workflow	Contoso-specific Sales Process		💣 <u>Courtesy Call Requ</u>	İ Paused
1	Workflow	Send Brochure		🚔 Courtesy Call Requ	i Succeeded

19.3. Duplicate Detection

Duplicate Detection allows rules to be defined to match duplicate records on various entities. Duplicate records can be **merged** (see the Using CRM section) to create a single record whilst reassigning any related records or activities from the deleted record.

The **settings-data management-duplication detection** area can be used to determine when the system checks for duplicates.

		: Detection Settings It duplicate detection settings for your organization.
Sett	ngs	
Ena	ble D	uplicate Detection
	Ena	ble duplicate detection:
	Dete	ect duplicates:
	•	When a record is created or updated
	✓	When Microsoft Dynamics CRM for Outlook goes from offline to online
	V	During data import

Alternatively, **duplication detection jobs** can be specified to regularly run the detection process (perhaps overnight) with the results displayed in the workplace-duplicates area.

Duplicate Detection Rule	e: Accounts with same compar	ny name and postco	ode		
General Administration	n Notes				
Name *	Accounts with same company nam	ne and postcode	Status Reason *	Published	~
Description					
					4
Duplicate Detection Ru	ule Criteria				
Base Record Type *	Account	v	Matching Record Type *	Account	v
Case-sensitive					
1 Clear					
Attribute		Criteria		No. of Characters	
Account Na	me	Exact Match			
Address 1:	ZIP/Postal Code	Exact Match			
Select					

Duplicate Detection Rules can also be set up on various entities from the **settings-data management** area to help spot records that need to be merged.

19.4. Data Migration Manager

The data migration tool is designed to help with large migrations of data from one system to another. The main advantage is that related entities can be imported so, for example, each imported contact can create and be related to the corresponding account record. Greater control is possible over the data so that owners can be specified and note and attached files related to the main entity data.

A number of records can be deleted in the background using the Data Migration Tool and the **settings-data management-bulk deletion** area shows the progress of these jobs.

See the Microsoft documentation.

19.5. Third Party Software

Third party software is available to migrate data from other systems into CRM (see the Resources chapter) either when first installing the system or as a regular activity to synchronise accounting information for example.

20. Resources

Some resources are listed below. Please use the search engines to help you find more information and remember that the **resource center** provides access to many CRM resources.

20.1. Redware Research Limited

Redware Research Limited are the authors of this book, which is currently available online together with details of our software add-ons and other resources at http://www.redware.com/mscrm. Please take a look for updates and related information and please send us some feedback by email to sync@redware.com.

20.2. Recommended Books

Snyder, M. and Styger, J. (2006). **Working with Microsoft Dynamics CRM 3.0** Microsoft Press. This book is essential for all programmers beginning to work with CRM (a version for CRM 4.0 is due soon).

Your Working Day with Microsoft is a 60-page document available online from Microsoft. There is also a surestep methodology for partners to help project manage an implementation.

The **CRM Implementation Guide** is also available from Microsoft to help with planning an implementation.

20.3. Internet and Blogs

A small selection of bloggers are listed below. Search the internet for more Microsoft CRM Blogs:

- Simon Hutson http://blogs.msdn.com/ukcrm/.
- Ronald Lemmen <u>http://www.ronaldlemmen.com/</u>.
- Philip Richarsdson http://philiprichardson.org/blog/.
- Jim Glass <u>http://blogs.msdn.com/jim_glass/default.aspx</u>.
- Michael Hoehne <u>http://www.stunnware.com/crm2/</u>.

20.4. Microsoft Training

Microsoft Training Partners offers various training courses. The Applications in Microsoft Dynamics 4.0 course probably covers much of what is in this handbook.

CRM 4.0 courses currently comprise:

- 8910 What is new in Microsoft Dynamics CRM 4.0 (1 day).
- 8913 Applications in Microsoft Dynamics CRM 4.0 (3 days).
- 8911 Installation and Deployment in Microsoft Dynamics CRM 4.0 (3 days).
- 8912 Customisation and Configuration in Microsoft Dynamics 4.0 (3 days).

These courses can lead up to Microsoft certification to become a **Microsoft CRM Certified Professional** (pass one exam only) or **Microsoft CRM Certified Master**.

We recommend F1 Computing Systems Limited (<u>www.f1comp.co.uk</u>) for training in the UK. Be careful when selecting several courses as some of the course material is repeated on different courses.

20.5. Third Party Software

A collection of CRM third party software is listed on this site - http://www.pimpmycrm.com.

http://www.c360.com

US company with several add-ons also reselling the mscrm-addons products.

http://www.redware.com

Developers of accounting integration, text messaging, credit checking and telephony applications (and publisher of this book).

http://www.mscrm-addons.com

Austrian developer of several utilities in Word mail merge, group calendar and telephony integration.

http://www.scribesoftware.com

Scribe offer upload and data migration solutions to load data (from Goldmine for example) into CRM and integrate with your own applications.

Telephony applications are also available for CRM from some vendors including Avaya, Cisco and LG.

21. Index

Account29ACT!10Activity7, 31complete an activity32convert to case70converting to lead, opportunity, case47create an activity31fields32address29advanced find20alphabet bar16Announcements47application toolbar16Appointment33assign27Attachment20attributes20customising101auto response18B2B9, 29B2C9, 29bulk deletion110bulk import108Business Closures81Business Unit94Calendar45Campaign Activity64GapacitySee Service TypeCase60Converting from lead68Campaign Template66CapacitySee Campaign Activitycontract9, 72renewing73Contract9, 72renewing73Contract9, 72renewing73Contract Template71CRMEnterprise11Professional11Workgroup11CRM Live12	access mode		
ACT! 10 Activity 7, 31 complete an activity 32 convert to case 70 converting to lead, opportunity, case 47 create an activity 31 fields 32 address 29 advanced find 20 alphabet bar 16 Announcements 47 application toolbar 16 Appointment 33 assign 27 Attachment 20 attributes 20 customising 101 auto response 18 B2B 9, 29 B2C 9, 29 Bulk deletion 110 bulk import 108 Business Closures 81 Business Unit 94 Calendar 45 Campaign Response 35, 66 converting from lead 68 Campaign Response 69 contract 29 primary 29 Contract 29 <td>Account</td> <td></td> <td>29</td>	Account		29
complete an activity32convert to case70converting to lead, opportunity, case47create an activity31fields32address29advanced find20alphabet bar16Announcements47application toolbar16Appointment33assign27Attachment20attributes101auto response18B2B9, 29B2C9, 29bulk deletion110bulk import108Business Unit94Calendar45Campaign Activity64converting from lead68Campaign Response35, 66converting from lead68Campaign Template66Campaign Template66Contract29primary29Contract Line Item72Contract Line Item72Contract Template71Professional11Workgroup11	ACT!		10
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convert to case70converting to lead, opportunity, case47create an activity31fields32address29advanced find20alphabet bar16Announcements47application toolbar16Appointment33assign27Attachment20attributes101auto response18B2B9, 29B2C9, 29bulk deletion110bulk import108Business Closures81Business Unit94Calendar63Campaign Activity64distribute66Campaign Response35, 66converting from lead68Campaign Template66CapacitySee Service TypeCase69channel29Contract29Contract29Contract29Contract9, 72renewing73Contract9, 72renewing73Contract9, 72renewing73Contract Template71CRMEnterpriseEnterprise11Professional11Workgroup11	complete an activity	· · · · · · · · · · · · · · · · · · ·	32
converting to lead, opportunity, case			
create an activity31fields32address29advanced find20alphabet bar16Announcements47application toolbar16Appointment33assign27Attachment20attributes101auto response18B2B9, 29B2C9, 29bulk deletion110bulk import108Business Unit94Calendar45Campaign Activity64distribute66Campaign Response35, 66converting from lead68Campaign Template66Campaign Template66Contract29channelSee Service TypeCase69channel9, 72renewing73Contract29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Enterprise11Professional11Workgroup11	converting to lead, o	pportunity, case	47
fields32address29advanced find20alphabet bar16Announcements47application toolbar16Appointment33assign27Attachment20attributes101auto response18B2B9, 29B2C9, 29bulk deletion110bulk import108Business Unit94Calendar45Campaign Activity64distribute66Campaign Response35, 66converting from lead68Campaign Template66CapacitySee Service TypeCase9Contract29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM71Enterprise11Professional11Workgroup11			
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advanced find20alphabet bar16Announcements47application toolbar16Appointment33assign27Attachment20attributes101auto response18B2B9, 29B2C9, 29bulk deletion110bulk import108Business Closures81Business Unit94Calendar45Campaign Activity64distribute66Campaign Response35, 66converting from lead68Campaign Template66CapacitySee Service TypeCase69channel29Contract29primary29Contract9, 72renewing73Contract9, 72renewing73Contract Line Item72Contract Template71CRM71Enterprise11Workgroup11			
alphabet bar 16 Announcements 47 application toolbar 16 Appointment 33 assign 27 Attachment 20 attributes 101 customising 101 auto response 18 B2B 9, 29 B2C 9, 29 bulk deletion 110 bulk import 108 Business Closures 81 Business Unit 94 Calendar 45 Campaign Activity 64 distribute 66 Campaign Response 35, 66 converting from lead 68 Campaign Template 66 Capacity See Service Type Case 69 channel See Campaign Activity company name field 9 Qontract 29 primary 29 Contract 9, 72 renewing 73 Contract Line Item 72 Contract Template 71<			
Announcements47application toolbar16Appointment33assign27Attachment20attributes101auto response18B2B9, 29B2C9, 29bulk deletion110bulk import108Business Closures81Business Unit94Calendar45Campaign Activity64distribute66Campaign Response35, 66converting from lead68Campaign Template66CapacitySee Service TypeCase69channel29Contract29primary29Contract71Contract Line Item72Contract Template71CRM71Enterprise11Workgroup11			
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attributes customising			
customising101auto response18B2B9, 29B2C9, 29bulk deletion110bulk import108Business Closures81Business Unit94Calendar45Campaign63Campaign Activity64distribute66Campaign Response35, 66converting from lead68Campaign Template66CapacitySee Service TypeCase69channelSee Campaign Activitycompany name field9Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11			20
auto response18B2B9, 29B2C9, 29bulk deletion110bulk import108Business Closures81Business Unit94Calendar45Campaign63Campaign Activity64distribute66Campaign Response35, 66converting from lead68Campaign Template66CapacitySee Service TypeCase69channelSee Campaign Activitycompetitor60Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11			
B2B9, 29B2C9, 29bulk deletion110bulk import108Business Closures81Business Unit94Calendar45Campaign63Campaign Activity64distribute66Campaign Response35, 66converting from lead68Campaign Template66CapacitySee Service TypeCase69channelSee Campaign Activitycompetitor60Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11	customising		01
B2C 9, 29 bulk deletion 110 bulk import 108 Business Closures 81 Business Unit 94 Calendar 45 Campaign 63 Campaign Activity 64 distribute 66 Campaign Response 35, 66 converting from lead 68 Campaign Template 66 Case 69 channel See Service Type Case 69 contact 29 primary 29 Contract 9, 72 renewing 73 Contract Line Item 72 Contract Template 71 CRM 71 Enterprise 11 Workgroup 11			
bulk deletion110bulk import108Business Closures81Business Unit94Calendar45Campaign63Campaign Activity64distribute66Campaign Response35, 66converting from lead68Campaign Template66CapacitySee Service TypeCase69channelSee Campaign Activitycompetitor60Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11			
bulk import.108Business Closures81Business Unit94Calendar.45Campaign63Campaign Activity64distribute.66Campaign Response.35, 66converting from lead.68Campaign Template66CapacitySee Service TypeCase69channel.See Campaign Activitycompetitor.60Contact29primary29Contract9, 72renewing.73Contract Line Item72Contract Template.71CRM11Professional11Workgroup.11	B2C		29
Business Closures 81 Business Unit 94 Calendar 45 Campaign 63 Campaign Activity 64 distribute 66 Campaign Response 35, 66 converting from lead 68 Campaign Template 66 Capacity See Service Type Case 69 channel See Campaign Activity competitor 60 Contact 29 primary 29 Contract 9, 72 renewing 73 Contract Line Item 72 Contract Template 71 CRM 11 Professional 11	bulk deletion		10
Business Unit 94 Calendar. 45 Campaign 63 Campaign Activity 64 distribute 66 Campaign Response 35, 66 converting from lead 68 Campaign Template 66 Capacity See Service Type Case 69 channel See Campaign Activity company name field 9 Contact 29 primary 29 Contract 9, 72 renewing 73 Contract Line Item 72 Contract Template 71 CRM Enterprise 11 Professional 11	bulk import		80
Calendar.45Campaign63Campaign Activity64distribute66Campaign Response35, 66converting from lead68Campaign Template66CapacitySee Service TypeCase69channelSee Campaign Activitycompetitor60Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11	Business Closures		81
Campaign63Campaign Activity64distribute66Campaign Response35, 66converting from lead68Campaign Template66CapacitySee Service TypeCase69channelSee Campaign Activitycompetitor60Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11			
Campaign Activity 64 distribute 66 Campaign Response 35, 66 converting from lead 68 Campaign Template 66 Capacity See Service Type Case 69 channel See Campaign Activity company name field 9 Contact 29 primary 29 Contract 9, 72 renewing 73 Contract Line Item 72 Contract Template 71 CRM Enterprise 11 Professional 11 Workgroup 11	Calendar		45
distribute			
distribute	Campaign Activity		64
Campaign Response 35, 66 converting from lead 68 Campaign Template 66 Capacity See Service Type Case 69 channel See Campaign Activity company name field 9 Contact 29 primary 29 Contract 9, 72 renewing 73 Contract Line Item 72 Contract Template 71 CRM 11 Professional 11	distribute		66
Campaign Template66CapacitySee Service TypeCase69channelSee Campaign Activitycompany name field9Competitor60Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11	Campaign Response		66
Campaign Template66CapacitySee Service TypeCase69channelSee Campaign Activitycompany name field9Competitor60Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11	converting from lead	· · · · ,	68
Case69channelSee Campaign Activitycompany name field9Competitor60Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11	Campaign Template		66
Case69channelSee Campaign Activitycompany name field9Competitor60Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11	Capacity	See Service Tv	ne
channel	Case		69
company name field9Competitor60Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11	channel	See Campaign Activ	/itv
Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11	company name field	eee eampaign room	9
Contact29primary29Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11	Competitor		60
primary	Contact		20
Contract9, 72renewing73Contract Line Item72Contract Template71CRM11Professional11Workgroup11			
renewing			
Contract Line Item	ropowing		72
Contract Template			
CRM Enterprise	Contract Line item		74
Enterprise			11
Professional11 Workgroup11			44
Workgroup 11			
UKIVI LIVE			
			12

currency	
Customer	
parent	
customisation	8, 99
Data Migration Manager	
Discount List	50
Duplicate Detection	109
dynamic values	
email	24
workflow	89
email	9, 33
adding HTML	25
attachments	9
dynamic values	24
Email Router	
knowledge base	
Knowledge Base article	
send direct email	25
send email	
template	
templates	
email router	
Entity	12
attributes	101
customising	
mapping	
relationships	
renaming	
Equipment	
Excel	0.1
export	
exporting and re-importing	108
Exchange Server	11
external connector	
Facilities	
fax	
fiscal year	
Form	17
customising	103
events	104
IFRAME	104
JavaScript	104
toolbar	18
form assistant	. 19, 31
freight charges	
Goldmine	
history	
Hosted CRM	
iframe	

Invoice		
status		59
JavaScript	1	03
Knowledge Base		
attaching into a Case		
Leads		
convert lead		
qualify		
Letter		
lookup window	,	18
mail merge		
Marketing	15	62
planning task		
Marketing List		
manage members		
Microsoft Training		
multi-tenancy		
My Work		
navigation pane		
Notes		
Opportunity9,		
fields		
products		
Order		
pricing		
Outlook		
Calendar		7
Task List		7
Outlook Client		36
CRM Options		
CRM Toolbar		
Deleting Records		
Desktop Version		
Diagnostic Tool		
Laptop Version7, 11,		
mail merge		
Tasks		
tracking contacts		
outsource vendor		
paperclip Phone Call		
		33
pipeline phase workflow		01
Preview Form		
Price List Item		
pricing method		
Product		
price list maintenance		
write-in products		
programming		8
Programming CRM		8
Promote		
to response		66
Queue		

	46
in progress	47
quick campaign	
Quick Campaign	
quotas	
Quotation	
activate	
printing	
revise	
Redware Research Limited	111, 116
Relationship	,
Mapping	106
relationship roles	106
relationship type	
Report	
running a report	96
SQL Server Reporting Services	
Boport Viewor	، 0 دە
Report Viewer	
report wizard	82, 83
Report Wizard	05
grouping	
Reports	
_ scheduling	
Resource	
preferred resources	
selection rules for service type	
Resource Group	78
resources	
preferred by customer	
Resources	
Sales	15
pipeline	
pipeline phases	
Sales Cycle	52
sales cycle	
pipeline	52
	52 60
pipeline	52 60 60
pipeline quotas	52 60 60
pipeline quotas workflow Sales Cycle	
pipeline quotas workflow Sales Cycle pipeline	
pipeline quotas workflow Sales Cycle pipeline Sales Literature	52 60 60 91 56 60
pipeline quotas workflow Sales Cycle pipeline Sales Literature Salesforce.com Saleslogix.	52 60 60 91 56 60 10
pipeline quotas workflow Sales Cycle pipeline Sales Literature Salesforce.com Saleslogix.	52 60 60 91 56 60 10
pipeline quotas workflow Sales Cycle pipeline Sales Literature Salesforce.com Salesforce.com Saleslogix scheduling	52 60 91 56 60 10 10 56 60 50 50 50 50 50 50 50 50 50 50 50 50 50
pipeline quotas workflow Sales Cycle pipeline Sales Literature Salesforce.com Saleslogix scheduling <i>See</i> Servio Scheduling	52 60 60 91 56 60 10 10 ce Activity 75
pipeline quotas workflow Sales Cycle pipeline Sales Literature Salesforce.com Saleslogix scheduling <i>See</i> Servio Scheduling security	52 60 60 91 56 60 10 10 ce Activity 75 8, 27
pipeline quotas workflow Sales Cycle pipeline Sales Literature Salesforce.com Saleslogix scheduling Scheduling security SMTP Server	52 60 60 91 56 60 10 10 ce Activity 75 8, 27 13
pipeline quotas workflow Sales Cycle pipeline Sales Literature Salesforce.com Saleslogix scheduling Scheduling security SMTP Server Security	52 60 60 91 56 60 10 10 ce Activity 75 8, 27 13 94
pipeline quotas workflow Sales Cycle pipeline Sales Literature Salesforce.com Saleslogix scheduling Scheduling security SMTP Server Security Security Security	52 60 60 91 56 60 10 10 ce Activity 75 8, 27 13 94 94, 97
pipeline quotas	52 60 60 91 56 60 10 56 60 10 56 60 10 56 80 75 8, 27 13 94 94, 97 15
pipeline quotas	52 60 60 91 56 60 10 10 ce Activity 75 8, 27 13 94 94, 97 15 34
pipeline quotas	52 60 60 91 56 60 10 10 ce Activity 75 8, 27 13 94 94, 97 15 34 35, 75
pipeline quotas	52 60 60 91 56 60 10 10 ce Activity 75 8, 27 13 94 94, 97 15 34 35, 75 81

Set Parent 3 Set Regarding 36, 37 Settings 1 sharing 2 Siebel 1 SQL Server 2005 1 Subject 6 synchronisation 3 Emails 4 Synchronisation 4 Address Book 4 Deleting Records 4 Laptop Client 4 Tasks 3 Task 3 Team 94, 9	9 5 7 0 1 0 7 1 2 3 3 3 9 8 2
Templates	
Word	-
Track in CRM	
Unit Group4	
Unit Item	9
User	5
user adoption issues	8

View	
actons	17
customising	99
export to Excel	21
mail merge	22
save	
toolbar	
Virtual PC	13
web client	9
web services	12
Windows Workflow Foundation	88
Word	9
mail merge	22, 63
Templates	
Workflow	
pipeline phase	
steps	
triggers	
wait condition	
wait conditions	90
Workplace	15, 45
calendar	
personalise	

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