



Microsoft®

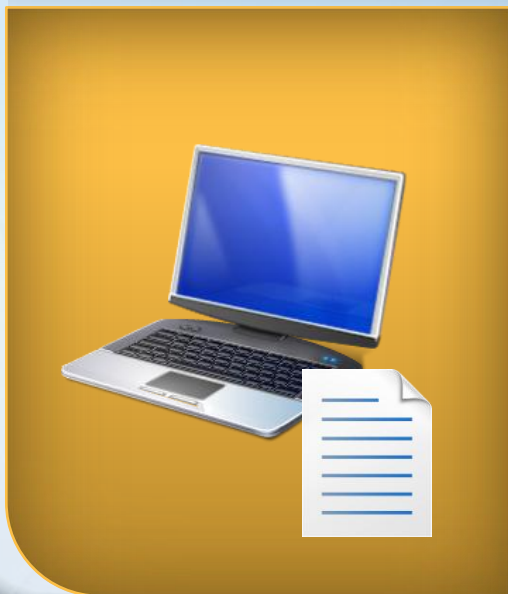
# Information Leak Prevention



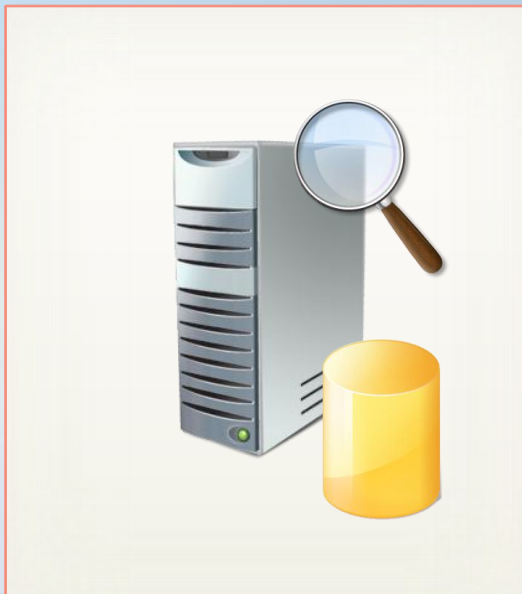
Government CIO  
Conference 09  
Turning Point in Crisis พลิกวิกฤติด้วยไอที

# เทคโนโลยีในการปกป้องข้อมูลและการรักษาความลับเอกสารอิเล็กทรอนิกส์ ชีวิตการทำงานประจำวัน

## จัดเตรียมเอกสาร



## จัดเก็บและควบคุม



## การแลกเปลี่ยน



- การรั่วไหลของข้อมูลความลับในหน่วยงาน ทำให้เกิดความเสียหายดังต่อไปนี้:
- การถูกปรับและจำคุกตามกฎหมาย, ความเสียหายต่อบุคคลหนึ่งบุคคลใด
  - ภาพลักษณ์และความน่าเชื่อถือของหน่วยงาน
  - ความรวดเร็วและผลสำเร็จในการดำเนินการ

# เทคโนโลยีในการปกป้องข้อมูลและการรักษาความลับเอกสารอิเล็กทรอนิกส์

## การควบคุมแบบครบวงจร

จัดเตรียมเอกสาร

BitLocker™



จัดเก็บและควบคุม

SharePoint



การแลกเปลี่ยน

Rights Management



เทคโนโลยีในการป้องกันการเปิดเผยข้อมูลลับขององค์กร:

- **BitLocker™** : การเข้ารหัสข้อมูลทั้งหมดในฮาร์ดดิสก์
- **SharePoint** : การจัดเก็บข้อมูลและกำหนดสิทธิในการเรียกดูข้อมูลเป็นรายบุคคล
- **Rights Management** : นโยบายและการควบคุมสิทธิในการใช้ข้อมูล และการแลกเปลี่ยน



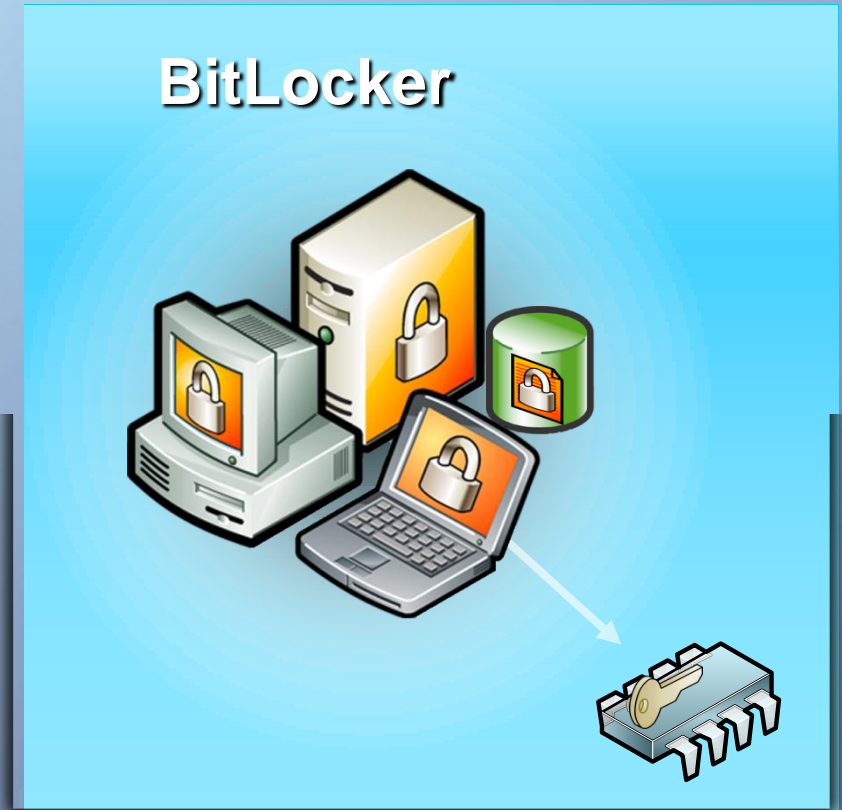
# BitLocker™ Drive Encryption

Microsoft

- เป็นเทคโนโลยีการเข้ารหัสข้อมูลทั้งหมดในฮาร์ดดิสก์ เพื่อป้องกันบุคคลอื่นเปิดดูข้อมูลในฮาร์ดดิสก์ จากการขโมยฮาร์ดดิสก์ หรือ Boot เครื่องโดยไม่ได้รับอนุญาต

 Windows Vista™

 Windows Server™ 2008







Microsoft®

# demo

## Bit Locker Drive Encryption



Please insert removable storage media containing the Startup Key or The Recovery Key.  
Then press ENTER to reboot.

To start this computer, type its 48-digit BitLocker Drive

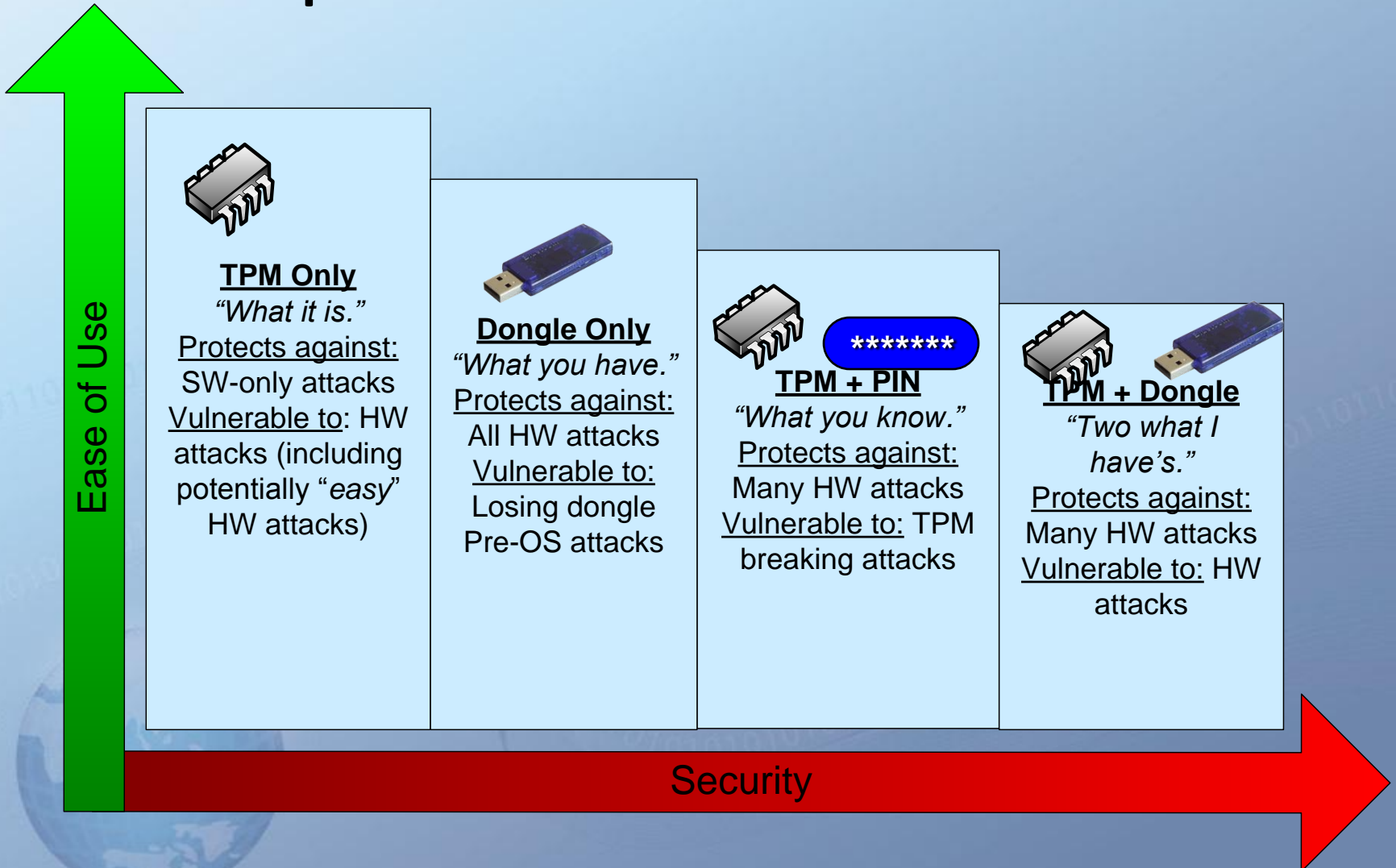
█ -----

This computer system disk volume has been locked by BitLocker Drive Encryption. The files in this volume are encrypted and cannot be recovered without the BitLocker Drive Encryption recovery key or recovery password.

If you have the correct BitLocker Drive Encryption recovery key or recovery password, click Escape to reboot.  
To permanently erase the unrecoverable files and reinstall Windows: insert your Windows product CD and then restart the computer. \_



# Spectrum Of Protection





# SharePoint Server 2007 Document Library



- Protected document libraries
  - Policy applied at document library level
- Protects document on download
  - Document protected to user
  - Information searchable on server
- Sticky permissions
  - Set fine-grained usage policy on usage information (**Rights Management**)
- File format specific
  - Out-of-the-box support for Word, Excel, PowerPoint, InfoPath, and XPS files

Contoso > Shared Documents  
Shared Documents

Share a document with the team by adding it to this document library.

New | Upload | Actions | Settings

Type	Name	Modified
Word Document	Booking process for events	11/23/2009 11:10 AM
Excel Spreadsheet	Jeff's Sales Figures	11/1/2009 1:05 AM
Word Document	Marketing Campaign 2009	11/15/2009 8:53 PM
Word Document	Marketing strategy	11/9/2009 4:10 PM
Excel Spreadsheet	Pia's Sales Figures	11/27/2009 3:22 PM

Contoso Financial > Shared Documents > Settings > Information Rights Management Settings  
Information Rights Management Settings

**Information Rights Management (IRM)**  
IRM helps protect sensitive files from being misused or distributed without permission once they have been downloaded from this server. Learn more about IRM.

Restrict permission to documents in this library on download:  
Permission policy title:  
Contoso Confidential  
Example: Company Confidential  
Permission policy description:  
This document contains confidential information  
Example: Only discuss the contents of this document with other employees

Allow users to print documents

Users must verify their credentials every:  
30 days

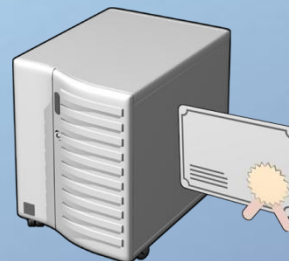
Do not allow users to upload documents that do not support IRM

Stop restricting permission to documents in this library on:  
12/31/2006

OK Cancel

# Rights Management Services

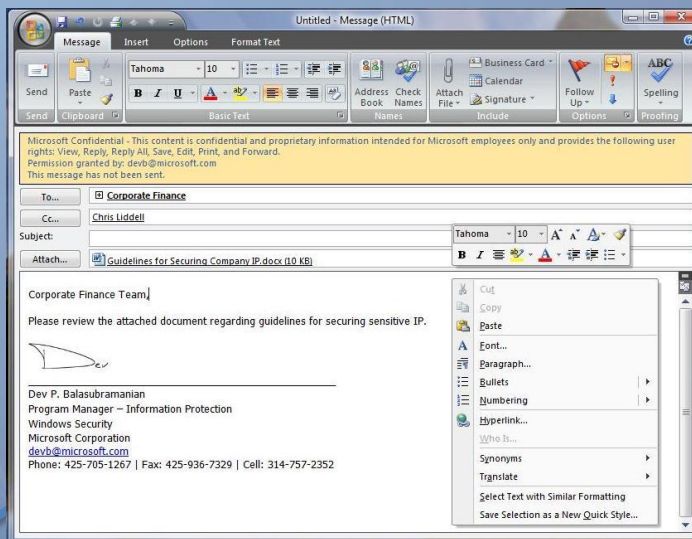
Information protection technology that helps enterprises prevent information leakage by applying persistent access rights to their digital assets.



```

EUL-{66a394bd;k0e37;k46be;ka4ca;ka9af652cf72}{05CF3DD3;k57CD;k4CFD;k8220;k51C511E3206A}....
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type="MS-GUID">{66a394bd-0e37-46be-a4ca-a9af652cf72}</ID><NAME>exchange.microsoft.com</NAME
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name="X509-Subject" value="CN=exchange.microsoft.com, OU=Terms of use at
www.verisign.com/rpa (C)00, OU=Exchange dogfood Lab, O=Microsoft, L=Redmond, S=Washington,
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k0n/msbos7-osADPU1CTKAaf1BzD4rnfHoFYQp81umX5g12hgezc4Hhe4Refz1Y64kH9j1xwM37axdFV0DZP5/VhQ8A=
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```

Data Encryption



UI Enforcement

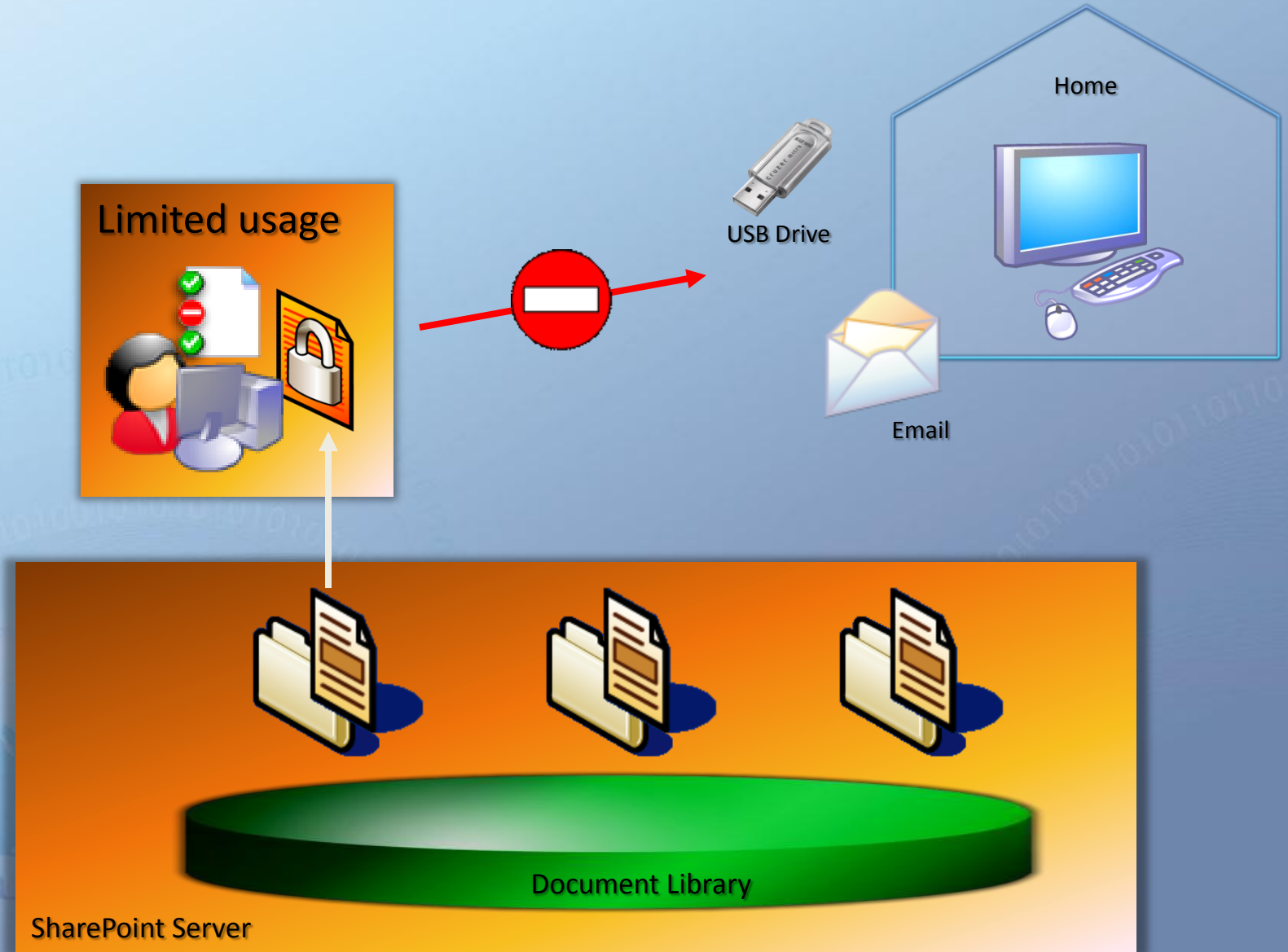
Protection Policy





# Rights Management Usage Scenario

## Prevent unauthorized distributed confidential document in Document Library





Microsoft®

# demo

## Protected doc library





# Shared Documents

- View All Site Content
- Documents**
  - Shared Documents
- Pictures**
- Lists**
  - Calendar
  - Tasks
- Discussions**
  - Team Discussion
- Surveys**
- Sites**
- People and Groups**
- Recycle Bin**

Share a document with the team by adding it to this document library.

New | Upload | Actions | **Settings** | View: All Documents

Type	Name	Modified	Modified By
	Contoso Financial - ROI Analysis <b>NEW</b>	5/19/2006 5:24 PM	Dev Balasubramanian





Contoso Financial > Shared Documents

# Shared Documents

Share a document with the team by adding it to this document library.

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New Upload Actions **Settings**

View: **All Documents**

Type	Name
	Contoso Financial - ROI Analysis

- Create Column**  
Add a column to store additional information about each item.
- Add Columns from Site Columns**  
Pick from a list of existing columns on this site and parent sites.
- Create View**  
Create a view to select columns, filters, and other display settings.
- Document Library Settings**  
Manage settings such as permissions, columns, views, and policy.

Modified By
06 5:24 PM Dev Balasubramanian



Contoso Financial > Shared Documents

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- View All Site Content
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# Customize Shared Documents

## List Information

Name: Shared Documents  
Web Address: http://aharmetz11/contosofinancial/Shared Documents/Forms/AllItems.aspx  
Description: Share a document with the team by adding it to this document library.

### General Settings

- General settings
- Versioning settings
- Advanced settings
- Save document library as template
- Manage checked out files
- Delete this document library
- Audience targeting settings

### Permissions and Policies

- Permissions for this document library
- Information Rights Management
- Workflow settings
- Information management policy settings

### Communications

- RSS settings

## Columns

A column stores information about each document in the document library. The following columns are currently available in this document library: A column stores information about each item in the list. The following columns are currently available in this list:

Column (click to edit)	Type	Required
Title	Single line of text	
Created By	Person or Group	
Modified By	Person or Group	
Checked Out To	Person or Group	

- Create column

# Information Rights Management Settings

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Permission policy description:

Example: Only discuss the contents of this document with other employees

Allow users to print documents

Users must verify their credentials every:

 days

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Stop restricting permission to documents in this library on:

OK Cancel



# Information Rights Management Settings

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Type	Name	Modified	Modified By
	Contoso Financial - ROI Analysis <b>NEW</b>	5/19/2006 5:24 PM	Dev Balasubramanian



Contoso Financial > Shared Documents

# Shared Documents

- View All Site Content
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  - Shared Documents
- Pictures**
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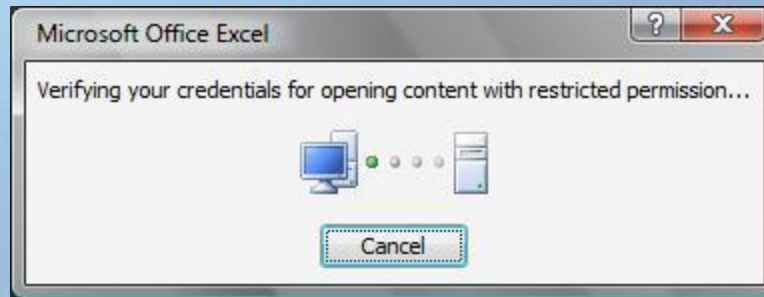
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New Upload Actions Settings View: All Documents

Type	Name	Modified	Modified By
	Contoso Financial - ROI Analysis <b>NEW</b>	5/19/2006 5:24 PM	Dev Balasubramanian

- View Properties
- Edit Properties
- Manage Permissions
- Edit in Microsoft Office Excel**
- Delete
- Send To
- Check Out
- Workflows
- Alert Me





Home Insert Page Layout Formulas Data Review View

Clipboard Font Alignment Number Styles Cells Editing

Font: Arial, 10, Bold, Italic, Underline, Text Color, Background Color

Alignment: Left, Center, Right, Top, Middle, Bottom, Wrap Text, Merge Cells

Number: General, Currency (\$), Percentage (%), Decimals (0.00, 0.0)

Styles: Conditional Formatting, Format as Table, Cell Styles

Cells: Insert, Delete, Format

Editing: Sort & Filter, Find & Select

**Contoso Confidential** This document contains confidential information [Change Permission...](#)

**Expiration** Permission will expire within 60 days.

C29

	A	B	C	D	E	F
1	<b>Contoso Financial</b>					
2	<b>Capital budgeting—return-on-investment (ROI) analysis</b>					
3	1/1/2006					
4						
5	<b>Data cell key</b>					
6	User data entry or item description					
7	Formula cells: Totals are calculated and filled in automatically.					
8						
9	<b>Investment overview</b>					
10	Project name: 2006 Financial Planning					
11	Project sponsor: Steve Masters					
12	Date of request: 1/1/06					
13	General description of benefits: Calculate Contoso Financial's expected ROI as part of overall financial planning for fiscal year 2006.					
14						
15						
16						
17						
18						
19	<b>Cash flow and ROI statement</b>					
20	BENEFIT DRIVERS		YEAR			
21			0	1	2	3

Return-on-investment analysis

Ready Scroll Lock 100%

# เทคโนโลยีในการปกป้องข้อมูลและการรักษาความลับเอกสารอิเล็กทรอนิกส์

รูปแบบการใช้งาน	BitLocker	SharePoint DocLib	RMS
การถูกขโมยหรือการทำแล็ปท็อป สูญหาย	✓		
การถูกโจรกรรมฮาร์ดดิสก์ของเครื่องเซิร์ฟเวอร์	✓		
การโจรกรรมหรือเจาะข้อมูลรหัสผ่านของผู้ใช้งาน	✓		
ป้องกันการโจรกรรมข้อมูลแบบ <b>Offline</b>		✓	
สามารถแลกเปลี่ยนและสืบค้นจากคลีย์เวิร์ด		✓	
เข้ารหัสและควบคุมสิทธิทุกครั้งที่มีการดาวน์โหลด		✓	
สิทธิในการใช้งานจะถูกกำหนดเป็นรายบุคคล			✓
เข้ารหัสข้อมูลเป็นรายเอกสาร และบันทึกลงสื่อได้ทุกประเภท			✓
กำหนดสิทธิในการเผยแพร่ส่งต่อเอกสารและระยะเวลาการใช้งาน			✓