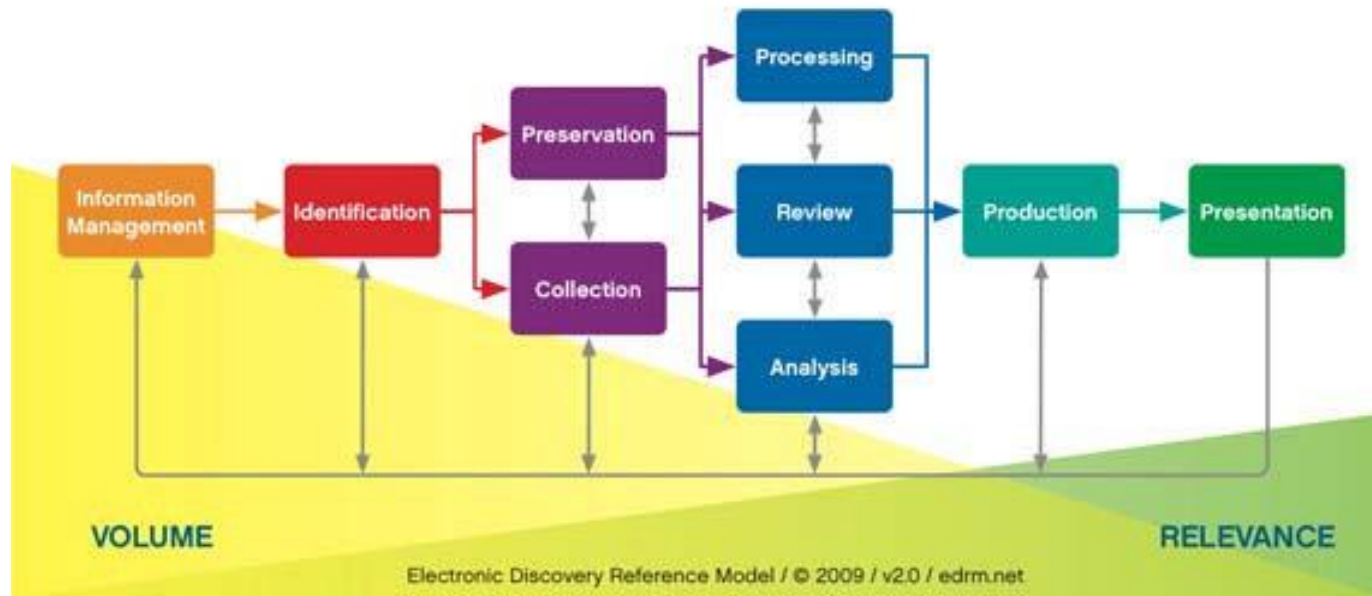


Xpiori/Case Study

Electronic Discovery Reference Model



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Requirements To Be Met

To appropriately cull and organize 209,853 files of “unstructured” data for complete but economical expert content review. Unstructured information includes documents, emails, spreadsheets, meeting minutes etc.... any document type used in the ordinary course of conducting and managing the project.

To organize data chronologically, first by month and then by date, to facilitate the review.

To use email and other dated information related information to identify key players and relevant date ranges to assist in the organizational process.

To organize data to facilitate finding factual support specific claims suggested during the course of content review.

Please note: Xpiori did not participate in the collection of the files.



Xpiori/Case Study

Deployment of Technology

Xpiori First Cull product to automate initial review of dataset to (1) identify and categorize number and types of files – in this case 209,853 and 232 different file types; (2) identify duplicates – in this case 59,089 unique files and 51,436 with duplicates; (3) identify source and custody of all documents; (4) to identify files requiring special treatment to be searchable by through “free text search” and (5) to find and use email header information to list senders, receivers, subjects and date ranges related to emails.

Xpiori XCM Discovery Appliance to (1) provide a repository for all information received; (2) to maintain all custody and other metadata information related to the information; (3) to enable organization by date range and other “Boolean” search techniques; (4) to facilitate initial organization of data by month; (5) to support organization of information to support various claims; and (6) through “research” folders and easy extraction to support distribution of the information to team members.



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From 209,853 files to manageable groupings by month....

The screenshot displays a Windows Explorer window with a file directory on the left and a list of files in a table on the right. The table columns are: Name, Ann., Type, BATES, Date, Size, State, and Subject. The file list shows various documents and reports organized by month and project.

Name	Ann.	Type	BATES	Date	Size	State	Subject
\\xcm transfer\Combined Files\DO Minutes Combined\DO2 & DO3 QC M...		Microsoft Word ...		8/31/2010 6:28:17 PM	673 KB	Checked In	
\\xcm transfer\Combined Files\DO Minutes Combined\Questions For mt...		Microsoft Word ...		8/31/2010 6:18:21 PM	24 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\6-11-09.txt		Text Document		9/2/2010 2:47:53 PM	2.8 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_01_20...		Microsoft Word ...		8/31/2010 5:40:01 PM	235.5 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_02_20...		Microsoft Word ...		8/31/2010 5:40:01 PM	234 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_03_20...		Microsoft Word ...		8/31/2010 5:40:01 PM	233 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_04_20...		Microsoft Word ...		8/31/2010 6:49:02 PM	232.5 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_08_20...		Microsoft Word ...		8/31/2010 6:28:16 PM	235 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_09_20...		Microsoft Word ...		8/31/2010 6:28:16 PM	235 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_10_20...		Microsoft Word ...		8/31/2010 6:40:40 PM	247.5 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_11_20...		Microsoft Word ...		8/31/2010 6:40:40 PM	239 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_12_20...		Microsoft Word ...		8/31/2010 6:40:40 PM	241.5 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_15_20...		Microsoft Word ...		8/31/2010 6:40:40 PM	239 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_16_20...		Microsoft Word ...		8/31/2010 6:40:41 PM	239.5 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_17_20...		Microsoft Word ...		8/31/2010 6:40:41 PM	240.5 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_22_20...		Microsoft Word ...		8/31/2010 6:40:41 PM	239.5 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_23_20...		Microsoft Word ...		8/31/2010 6:28:16 PM	240 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_24_20...		Microsoft Word ...		8/31/2010 6:40:41 PM	240 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report June_25_20...		Microsoft Word ...		8/31/2010 6:40:41 PM	239 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report May_28_200...		Microsoft Word ...		8/31/2010 5:49:27 PM	232 KB	Checked In	
\\xcm transfer\Combined Files\DR Combined\Daily Report May_29_200...		Microsoft Word ...		8/31/2010 5:49:27 PM	232 KB	Checked In	
\\xcm transfer\Combined Files\Tracker Files\Tracker 77.doc		Microsoft Word ...		8/30/2010 3:51:24 PM	60 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-1st s...		Microsoft Word ...		8/31/2010 6:00:31 PM	90 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-1st s...		Microsoft Word ...		8/31/2010 6:00:31 PM	89 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-1st s...		Microsoft Word ...		8/31/2010 7:13:39 PM	70 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-1st s...		Microsoft Word ...		8/31/2010 7:13:39 PM	70 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-1st s...		Microsoft Word ...		8/31/2010 6:40:45 PM	89 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-1st s...		Microsoft Word ...		8/31/2010 6:49:07 PM	72.5 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-2nd ...		Microsoft Word ...		8/31/2010 6:00:31 PM	89 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-2nd ...		Microsoft Word ...		8/31/2010 6:40:45 PM	89 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-2nd ...		Microsoft Word ...		8/31/2010 7:27:17 PM	70 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-Final...		Microsoft Word ...		8/31/2010 7:00:20 PM	70 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-Final...		Microsoft Word ...		8/31/2010 7:00:20 PM	70.5 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-Final...		Microsoft Word ...		8/31/2010 7:00:20 PM	70.5 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-Final...		Microsoft Word ...		8/31/2010 7:27:17 PM	70.5 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-JeffP...		Microsoft Word ...		8/31/2010 6:28:18 PM	90 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-Nav...		Microsoft Word ...		8/31/2010 7:15:21 PM	70 KB	Checked In	
\\xcm transfer\Combined Files\Transmittals Combined\Transmittal-Nav...		Microsoft Word ...		8/31/2010 7:15:21 PM	70 KB	Checked In	
\\xcm transfer\Combined Files\Work Plans\Building 352 Pre-Survey Rep...		Microsoft Word ...		8/31/2010 5:49:31 PM	229 KB	Checked In	
\\xcm transfer\Combined Files\Work Plans\Building 93_449 Pre-Survey ...		Microsoft Word ...		8/31/2010 6:00:31 PM	230 KB	Checked In	
\\xcm transfer\Combined Files\Work Plans\Building Preliminary Survey ...		Microsoft Word ...		8/31/2010 5:49:30 PM	230 KB	Checked In	
\\xcm transfer\Combined Files\Work Plans\REVx or REV_x\B-3320_REV...		Adobe Acrobat ...		8/31/2010 7:24:50 PM	10.5 MB	Checked In	



Xpiori/Case Study

Use report on emails to identify location and amounts of email

Summary - Mailbox Message Counts.csv

	A	B	C	D
1	Mailbox	Messages	Attachments	Size (MB)
7	E:\Navy Project\AWEMS (old)\Mike's Laptop\LOTUS Notes archive\092704.nsf	3	0	0.8
8	E:\Navy Project\AWEMS (old)\Mike's Laptop\LOTUS Notes archive\101205.nsf	3	0	0.9
9	E:\Navy Project\AWEMS (old)\Mike's Laptop\LOTUS Notes archive\120604.nsf	18	0	1.7
10	E:\Navy Project\AWEMS (old)\Mike's Laptop\LOTUS Notes archive\a_MMCDOW.nsf	272	0	27.5
14	E:\Navy Project\Navy Project\AWEMS (old)\Mike's Laptop\LOTUS Notes archive\010906.nsf	1090	0	48
15	E:\Navy Project\Navy Project\AWEMS (old)\Mike's Laptop\LOTUS Notes archive\051805.nsf	2810	68	73.5
17	E:\Navy Project\Navy Project\AWEMS (old)\Mike's Laptop\LOTUS Notes archive\063004.nsf	5048	8	302.3
18	E:\Navy Project\Navy Project\AWEMS (old)\Mike's Laptop\LOTUS Notes archive\090504.nsf	3	0	0.8
22	E:\Navy Project\Navy Project\AWEMS (old)\Mike's Laptop\LOTUS Notes archive\a_MMCDOW.nsf	272	67	27.5
23	E:\Navy Project\Navy Project\AWEMS (old)\Mike's Laptop\LOTUS Notes archive\I_MMCDOW.nsf	0	0	0.7
24	E:\Navy Project\Navy Project\AWEMS (old)\Mike's Laptop\LOTUS Notes archive\MM041306.nsf	6	0	1
25	E:\Navy Project\Navy Project\AWEMS (old)\Mike's Laptop\LOTUS Notes archive\old_NAMES.NSF	0	0	4.5
26	Total	28602	235	1528.5

Xpiori/Case Study

Identify, number and list 51,436 duplicate files and 59,089 unique files...

	A	B	C	D	E	F
1	File Name (First Copy Identified)	File Title (First Copy Identified)	Count			
2	C:\Documents and Settings\Administrator\Local S Mail1089.txt		163			
3	C:\Documents and Settings\Administrator\Local S Mail1020-1.vcf		32			
5709	C:\Documents and Settings\Administrator\Local S 01RH3F16.txt		12			
5710	C:\Documents and Settings\Administrator\Local S 01RH3F17.txt		12			
11756	C:\Documents and Settings\Administrator\Local S DO2 QC Mtg (3-14-06).doc		2			
11757	C:\Documents and Settings\Administrator\Local S DO2 QC Mtg (3-16-04).doc		2			
34683	E:\Navy Project\2001\11110043 Navy DO3\NAVST\MISC_SEQ.LST		2			
34684	E:\Navy Project\2001\11110043 Navy DO3\NAVST\MISC_SEQ.ODB		2			
49627	E:\Navy Project\AWEMS (old)\Maps\NAB\AREA3- AREA3-5.DWG		2			
49628	E:\Navy Project\AWEMS (old)\Maps\NAB\AREA3- AREA3-6.DWG		2			
50069	E:\Navy Project\AWEMS (old)\Mike's Laptop\AWE Ejq-7 (3953-0008) Status Report (10-15-03).doc		2			
50070	E:\Navy Project\AWEMS (old)\Mike's Laptop\AWE Ejq-7 (3953-0008) Status Report (11-15-03).doc		2			
50071	E:\Navy Project\AWEMS (old)\Mike's Laptop\AWE Ejq-7 (3953-0008) Status Report (8-14-03).doc		2			
50072	E:\Navy Project\AWEMS (old)\Mike's Laptop\AWE Ejq-7 (3953-0008) Status Report (9-15-03).doc		2			
51434	E:\Navy Project\Navy Project\SDGE Transmittals\ Transmittal-Jeff's second revision.doc		2			
51435	E:\Navy Project\Navy Project\SDGE Transmittals\ Transmittal-Navy Hardrive JB.doc		2			
51436	E:\Navy Project\Navy Project\SDGE Transmittals\ Transmittal-Navy Hardrive RGM.doc		2			
51437						
51438						
51439						
51440						
51441						
51442						

Xpiori/Case Study

Identify 167 senders, 353 senders, and date ranges of 28000 + emails ...

Sender	Count	Earliest	Latest
'benefield, calvin \ (ben \)' <cbenefield@semprautilities.com>	8	3/30/2005 0:00	4/7/2005 0:00
benjamin.fieck@navy.mil	44	4/8/2005 0:00	12/7/2005 0:00
cbenefield@semprautilities.com	240	3/30/2005 0:00	4/15/2020 0:00
cn=aaron m burkett/ou=na/o=johnson_controls	149	2/13/2004 0:00	12/7/2005 0:00
cn=bill meathe/ou=na/o=johnson_controls	106	3/23/2005 0:00	12/8/2005 0:00
cn=bryon s ivers/ou=na/o=johnson_controls	116	3/28/2005 0:00	12/8/2005 0:00
cn=jeff couture/ou=na/o=johnson_controls	156	3/24/2005 0:00	12/8/2005 0:00
cn=john robinson/ou=na/o=johnson_controls	24	9/15/2005 0:00	12/6/2005 0:00
cn=julie a bard/ou=na/o=johnson_controls	96	3/23/2005 0:00	11/17/2005 0:00
cn=michael s mcdowell/ou=na/o=johnson_controls	2741	1/1/0001 12:00:0	12/2/2020 0:00
cn=raymond a gonzales/ou=na/o=johnson_controls	106	1/1/0001 12:00:0	11/8/2020 0:00
cn=steve polinsky/ou=na/o=johnson_controls	116	3/21/2005 0:00	11/11/2020 0:00
cn=vincenzo a vespertino/ou=na/o=johnson_controls	100	8/12/2003 0:00	8/23/2005 0:00
dhcostello@cox.net	60	3/22/2005 0:00	10/6/2005 0:00
dshepard@southlandind.com	46	7/22/2005 0:00	11/23/2005 0:00
ereynoso@semprautilities.com	165	8/19/2003 0:00	12/9/2005 0:00
tbelmont@semprautilities.com	258	8/19/2003 0:00	8/26/2020 0:00
terry@certifiedair.net	54	3/31/2005 0:00	12/1/2005 0:00
tomskibinski@laserelectric.com	136	3/22/2005 0:00	12/12/2020 0:00
william.moreno1@navy.mil	6	11/9/2005 0:00	11/9/2005 0:00



Xpiori/Case Study

Identify corrupt and other problem files

	A	B	C	D	E	F	G	H	I	J
1	Location	Error Description								
2	E:\Navy Project\2001\11110043 Navy DO3\RFI's\signe	The file appears to be corrupt.								
3	E:\Navy Project\2001\1953-0001 NAVY DO2\Drawings	The file appears to be corrupt.								
4	E:\Navy Project\AWEMS\Common to DO2 and DO3\P	The file appears to be corrupt.								
5	E:\Navy Project\AWEMS\DO2\NAVSTA\B-77\CD DEVE	The file appears to be corrupt.								
6	E:\Navy Project\Navy Project\2001\11110043 Navy DC	The file appears to be corrupt.								
7	E:\Navy Project\Navy Project\2001\1953-0001 NAVY [The file appears to be corrupt.								
8	E:\Navy Project\Navy Project\AWEMS\Common to D	The file appears to be corrupt.								
9	E:\Navy Project\Navy Project\AWEMS\DO2\NAVSTA\	The file appears to be corrupt.								
10	C:\Documents and Settings\Administrator\Local Sett	The file appears to be corrupt.								
11	C:\Documents and Settings\Administrator\Local Sett	The file appears to be corrupt.								
12	C:\Documents and Settings\Administrator\Local Sett	The file appears to be corrupt.								
13	C:\Documents and Settings\Administrator\Local Sett	The file appears to be corrupt.								
14	E:\Navy Project\Navy Project\2001\11110043 Navy DC	Unable to extract and scan archive (E:\Navy Project\Navy Project\2001\11110043 Navy DO3\								
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										