

# What is new in ECN2PDF Rev 9.3 (Nov 12, 2006)

1. The user administration form allows document-control administrators or any user knowing the admin password to configure:
  - a. User-id signature rights in multiple teams. Managers are selectable by default in any signature-box while team members will be selected by originator on the approval list.
  - b. Team titles (20)
  - c. What ECN types (1 to 6) will enable team-signature boxes (20)
  - d. What ECN tasks checklist applies to each team

User ID	Admin	Full Name	Admin																											
User Password	*****	Email address	chrosu@emclabinfo.com																											
ECN Signing?	<input checked="" type="checkbox"/>	Use User Id as email address (true) or use the above email address (false) <input type="checkbox"/>																												
Is Originator	<input type="checkbox"/>	ECN	<input type="text"/>																											
Is Administrator	<input checked="" type="checkbox"/>	Department	<input type="text"/>																											
Is Manager	<input type="checkbox"/>	@EMCLABINFO.com	ecnchart.exe 20061101																											
Send Report Notice for type of ECN =: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																														
<table border="1"> <tr> <td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td><td>G</td><td>H</td><td>I</td><td>J</td><td>K</td><td>L</td><td>M</td><td>N</td><td>O</td><td>P</td><td>Q</td><td>R</td><td>S</td><td>T</td><td>U</td><td>V</td><td>W</td><td>X</td><td>Y</td><td>Z</td><td>*</td> </tr> </table>				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	*
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	*				
Team   Management   ECN Type   Configuration   ECN Team   Company Info																														
<b>Team signature-box</b>	<b>USR</b>	<b>ECN Type</b>	<b>Team Tasks</b>																											
		1 2 3 4 5 6	1 2 3 4 5 6 7 8 9 10 11																											
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Product Eng. Software	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																											
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ICT Test Engineering	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																											

1) Double-click team-boxes to change their titles.  
 2) Select in the first column the team-boxes where the current user signature will be selectable from approval tab-page.  
 3) Select for each team-box the type of ECN (1 to 6) that will be enabled on the approvals tab-page.  
 4) Select what tasks pertain to the team-box. To see task's title place the mouse above the desired check-box. Note that task's title is defined by administrator directly on the ECN tasks tab-page.

- e. What ECN types (1 to 6) will enable management-signature boxes (14)

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 *											
Team		Management		ECN Type		Configuration		ECN Team		Company Info	
Management signature-box	USR	ECN Type						<p>1) Select in the first column the management-boxes where the current user has signature rights.</p> <p>2) Select for each management-box the type of ECN (1 to 6) that will be enabled on the approvals tab-page. Not all the ECN types require team-signature (approval) but all ECN types require management approval (example quality internal documents).</p> <p>3) Team-boxes should default to signatures from the appropriate managers to allow the ECN fast signature process that overwrites team-members in case of emergency. The operations manager signature should exist in each team or management signature box.</p>			
		1	2	3	4	5	6				
Product Engineering	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Sales Administration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Purchasing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Program Engineering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Controller	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Production	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Quality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Manufacturing Engineering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Human Resources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Manufacturing Mgr	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Operating Systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
EMC Lab	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

f. What ECN tabs will be enabled/disabled for each ECN type

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 *											
Team		Management		ECN Type		Configuration		ECN Team		Company Info	
ECN tabs (pages)		ECN Type						<p>1) Double-click ECN tabs to change their titles.</p> <p>2) Select for what ECN types (1 to 6) the ECN tab will be enabled.</p> <p>3) Leave empty the entire ECN type column if it is not applicable in your scenario.</p>			
		1	2	3	4	5	6				
ECN		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Costs		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Customer		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Supporting Docs		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Areas Affected		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Item Change		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Doc Change		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
BDM		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Obsolescence		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Approvals		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Checklist		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<b>True</b>								Double-click to change caption			
<p>Set the above label title (caption) to True (double-click to edit) to indicate that the ECN ORIGINATOR should fill in</p> <p>1. The ECN Header (first tab) as mandatory information and</p> <p>2. The Team and Management signature boxes</p> <p>as minimum required for submission to document-control administrators.</p> <p>Set the above label title (caption) to True (double-click to edit) to indicate that the ECN ORIGINATOR should fill in only the ECN Header (first tab) as mandatory information as minimum required for submission to document-control administrators.</p> <p>All ECN's tabs except Header and Approval remain disabled for editing until the mandatory sections are completed by originator. The originator may decide to continue editing the rest of the ECN sections before submittal.</p>											

g. Configure additional areas affected user notifications and other application related features

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	*
Team		Management		ECN Type		Configuration		ECN Team		Company Info																
<p>Check those additional areas affected the current user is supposed to be informed about.</p>												<p>Double-click below to set the network domain name.</p>														
<p><b>Current ECN# = E06000</b></p>												<p><b>workgroup</b></p>														
<p>IMDS - Int'l Material Data Sys <input type="checkbox"/></p>												<p>LUNCH TIME MAINTENANCE SHUTDOWN <b>False</b></p>														
<p>N/A <input type="checkbox"/></p>												<p>True = pause between 12:15 P.M. and 12:30 P.M. False = no lunch time shutdown</p>														
<p>N/A <input type="checkbox"/></p>												<p>The access to the back-end file is paused to allow manual backups and file compact. In practice this is not required more than weekly.</p>														
<p>N/A <input type="checkbox"/></p>																										
<p>N/A <input type="checkbox"/></p>																										
<p>N/A <input type="checkbox"/></p>																										
<p>Double-click below to enter the text to be displayed in the welcome screen</p>																										
<p><b>Please call Document Control for assistance</b></p>																										
<p>Select the length of the ECN index (3, 4, or 5 digits). This action modifies the ECN field in all tables. It is possible to downgrade the index (from 4 to 3) if the counter in the lower index (3) is not maximum (999).</p>																								<p><b>3</b></p>		
<p>Ideally is to select a 4-digit ECN index for a medium size company.</p>																								<p><b>Change</b></p>		

- h. Company details and logo to be displayed in ECN reports. Always monitor the status-bar at the bottom and the yellow tool-tips for supplemental information. Sometimes this information is changing dynamically depending on configuration settings (see team tasks). The helper information in blue can also be configured (double-click on labels) in any language if necessary. Changes in this form will affect titles and application behavior in the main ECN form and report.

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 \*

Team Management ECN Type Configuration ECN Team Company Info

Outlook create contact from current user-id and set appointment

My Corporation  My Division My Company XXX SomeName Ave. My City My Province My Country XXX XXX Company Profile (xxx) xxx-xxxx (xxx) xxx-xxxx

This section is used to configure another app

Company Logo (copy and paste BMP from mspaint)

2. The ECN signature-box in the approval tab is conditioned as follows:

- The ECN phase  $\geq 2$  (Submitted by originator and Issued by Document Control)
- The Costs estimation is reviewed (no empty fields) by certain teams configured by administrator.

Engineering Change Notice E.C.N.

Costs - Edit Mode Enabled for type 2 of ECN Phase: In-Process since 11/11/20

Engineering Change Notice **ED6000** 2 2

ECN Costs Customer Supporting Docs Areas Affected Item Change Doc Change BOM Obsolescence Approvals Checklist

RFQ	Supplier	Estimated	Confirmed	Currency	User Id	
Paid by	Supplier					
Piece part impact	\$0.0000	<input type="checkbox"/>	<input type="checkbox"/>			7
Tooling	\$0.0000	<input type="checkbox"/>	<input type="checkbox"/>			7
Fixtures	\$0.0000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		tuser1	1
Gauges	\$0.0000	<input checked="" type="checkbox"/>	<input type="checkbox"/>		tuser1	2
Design	\$0.0000	<input type="checkbox"/>	<input type="checkbox"/>			16
Machinery layout	\$0.0000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		tuser1	1
Obsolescence	\$0.0000	<input type="checkbox"/>	<input type="checkbox"/>			9
Tester	\$0.0000	<input type="checkbox"/>	<input type="checkbox"/>			20
	\$0.0000	<input type="checkbox"/>	<input type="checkbox"/>			
	\$0.0000	<input type="checkbox"/>	<input type="checkbox"/>			
	\$0.0000	<input type="checkbox"/>	<input type="checkbox"/>			

Cost update note User ID Full Name Date

- The checklist Note field is not empty. The standard tasks listed for each team will have to be reviewed even if they are not applicable prior to approval sign-off. These tasks will be later-on marked as completed in the check-box. Select from the drop-box the proper team-checklist (1 to 20). Each team-check list can have up to 11 ECN follow-up tasks.



## Features:

### A. Admin User Level Configuration:

- a. Field Titles
- b. Built-in user rights matrix based on:
  - i. user's role
  - ii. ECN type
  - iii. signature-box
  - iv. check-list
  - v. email report notify-list
- c. Enable/Disable ECN editable sections (tabs) per ECN type
- d. ECN# specific areas affected

Note: *all modifications are company's network wide visible after maximum 15 minutes synchronization time-interval for all file-server replicas.*

### B. ECN User Level Configuration:

- a. Type selection
- b. Approval Team selection
- c. Target Approval Date
- d. Outlook Email Notifications

### C. ECN Phase's Transition:

- a. The user is banned in certain actions and informed about missing information through:
  - i. timed pop-up messages
  - ii. tool-tips
  - iii. status-bar information
  - iv. info section available at the bottom of each tab
  - v. the ECN help file available from toolbar
- b. In certain limits the order of filing missing information is decided by user but the ECN# will not be triggered into the next phase unless all conditions are met.
- c. The logic of the ECN phase stepping can be enforced via ECN admin password.

### D. Application Security:

- a. front-end built-in encrypted user password
- b. back-end dedicated security file

### E. Application Upgrade, Maintenance, and Backup

- a. Setup package for major upgrades that automatically installs the ECN version based on Operating System type.
- b. Silent background updates at application closing time.
- c. Emergency updates at application startup time.
- d. Option of configurable lunch-time shutdown to allow back-end maintenance.
- e. Average yearly debug/maintenance time is *less than one week*.
- f. No total shutdown ever required (Scarborough North/South & Southfield).
- g. Backup via replication in 2 file servers and multiple workstations that are synchronized every 15 minutes. Daily IT file-server backup.

### F. Document-Control role:

- a. Create new ECN# record in response to user's request. This is to avoid unnecessary ECN additions. Only Document Control can delete ECN records.
- b. Define the user as Originator of the newly created ECN
- c. Create new ECN users and configure their role
- d. Configure ECN application
- e. Issue ECN
- f. Verifies ECN prior to release and between phases

- g. Close ECN
- h. Cancel ECN
- i. User Email Notifications
- j. Update the on-line help information available at the bottom of each ECN tab.

**G. Database Structure:**

- a. Tables: 1583 columns (fields) in 58 tables
- b. Queries: 61 SQL statements in standalone queries
- c. Controls: 2888 controls in 32 Reports/SubReports and 30 Forms/SubForms.
- d. *Record locking goes down to column level (multiple users can edit simultaneously the same row). The ECN# record (row) is stored in multiple linked tables.*

**H. ECN programming support:**

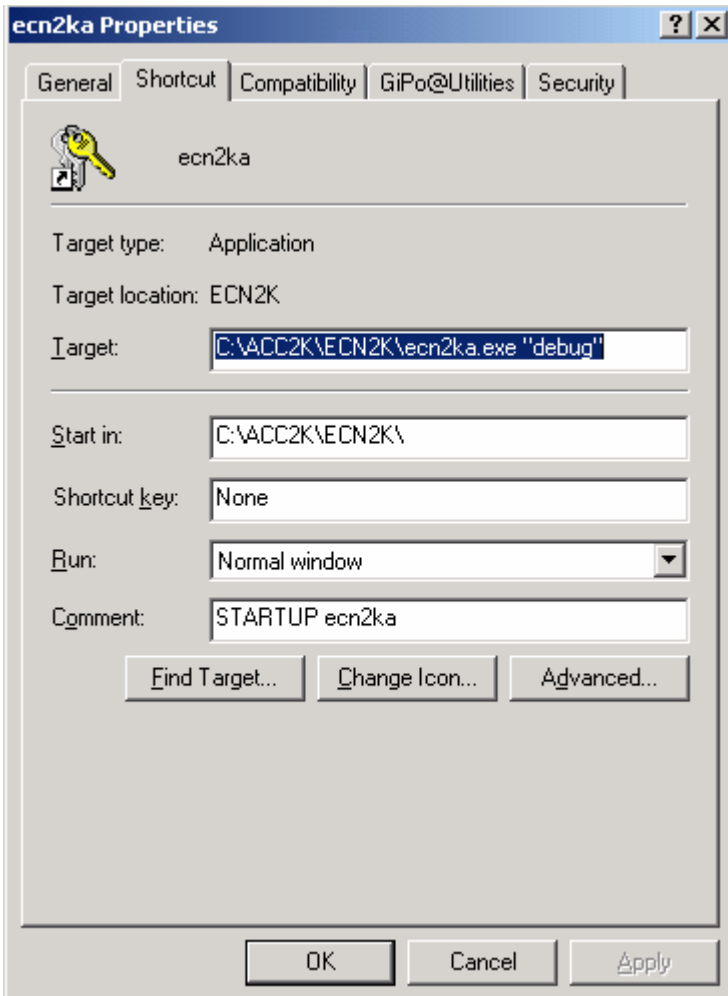
- a. Office VBA, VB6, VC++, C, ASP, SQL (ODBC/PTQ), DAO, JET 4.0
- b. Built-in PDF report maker
- c. Additional PDF printer and report maker for ECN2PDF setup variant.
- d. The front-end VBA code alone is documented in 718 pages. The entire front-end documenter reaches 3683 pages (utilities not included).

## ECN2KA.EXE V.6.52 APPLICATION STARTUP FILE (NOV 2006)

Ecn2ka.exe is used to startup the E.C.N. application. This file will verify all necessary steps for a successful startup pointing the user to missing conditions whenever is necessary.

To force ecn2ka.exe to log all steps in application's startup please add "**debug**" in the shortcut's command line.

Ecn2ka.exe will restore deleted shortcuts and application's essential registry keys. It is a useful tool in debugging startup issues.



The text shown below is the **log file** for ECN trial successful startup:

- front-end is always `C:\acc2k\ecn2k\ecn2ka.mde`
- local back-end `C:\acc2k\dat\ecn2ka_be.mdb` and `ecn2ka_ux.mdb`

Note that the startup log file **ecn2ka\_log.rtf** will be saved in the same folder as **ecn2ka\_be.mdb** and the back-end should be always placed on a shared network drive folder with full rights for all users.

2006-11-05 19:38:11 :  
(204)OK, no previous instance of window [eli\_ecn2ka.exe] detected.  
(204)OK, no previous instance of window [ecn2ka] detected.  
(001)DEFAULT, Front-end title: [ecn2ka]  
(002)DEFAULT, Back-end file: [ecn2ka\_be.mdb]  
(003)DEFAULT, Back-end Local Path: [C:\ACC2K\DAT\  
(004)DEFAULT, Update File: [ecn2ka\_eupd.exe]  
(005)DEFAULT, Update Local Path: [C:\ACC2K\LIB2K\  
(006)DEFAULT, MDW Local Path: [C:\ACC2K\SYS\  
(007)DEFAULT, MDW Trial Path: [C:\ACC2K\SYS\TRIAL\  
(008)DEFAULT, MDW File: [ecn2ka.mdw]  
(009)DEFAULT, Maintenance File: [ecn2ka\_maint.txt]  
(010)OK, [HKEY\_CURRENT\_USER\Software\VB and VBA Program Settings\ecn2ka]  
(102)OK, Missing previous process: [ecn2ka\_pb.exe]  
(103)OK, Started process: [ecn2ka\_pb.exe]  
(012)OK, RegRead BackEndFile: [C:\ACC2K\DAT\ecn2ka\_be.mdb]  
(012)OK, RegRead BackEndPath: [C:\ACC2K\DAT\  
(014)OK, RegRead UpdatePath: [C:\ACC2K\LIB2K\  
(016)OK, RegRead updateon: [no]  
(017)OK, Maintenance file path: [C:\ACC2K\DAT\ecn2ka\_maint.txt]  
(018)OK, Missing Maintenance: [C:\ACC2K\DAT\ecn2ka\_maint.txt]  
(021)OK, Missing FE: [C:\ACC2K\ECN2K\ecn2ka.mde]  
(022)OK, Found FE: [C:\ACC2K\ECN2K\ecn2ka.mdb] Backup as: 20061105193759.mdb  
(031)OK, Found: [Access2003] version  
(033)OK, Missing Security: [C:\ACC2K\DAT\ecn2ka.mdw]  
(036)OK, Found Security: [C:\ACC2K\SYS\ecn2ka.mdw]  
(038)OK, Missing: [C:\ACC2K\SYS\debug.txt] security local path not enforced  
(042)OK, Found BE path: [C:\ACC2K\DAT\  
(043)OK, Missing stored BE file: [C:\ACC2K\DAT\C:\ACC2K\DAT\ecn2ka\_be.mdb]  
(043)OK, or Network Connection Failure  
(043)OK, or User Access to Shared Folder is Denied  
(047)OK, Missing LDB file: [C:\ACC2K\ECN2K\ecn2ka.ldb]  
(110)OK, Found window [Do you want to block unsafe]  
(112)OK, Found window [Security Warning]  
(409)OK, EXTERNAL TERMINATION REQUEST  
(106)OK, Missing current process: [ecn2ka\_pb.exe]  
(119)OK, EXIT STARTUP [C:\ACC2K\ECN2K\ecn2ka.exe]  
(402)OK, STARTUP SHORTCUT EXISTS  
(404)OK, QUICK LAUNCH SHORTCUT EXISTS  
(406)OK, SHORTCUT FE DECOMPILE EXISTS  
(408)OK, SHORTCUT BE DECOMPILE EXISTS  
(301)Windows User: [Administrator]  
(302)Is Administrator Admin: [1]  
(303)Workstation: [ROTINSOFT1]  
(304)OS build#: [3790]  
(305)OS type: [WIN32\_NT]  
(306)SP: [Service Pack 1]  
(307)Is ecn2ka in update session: [no]  
(308)MSAccess Path: [C:\Program Files\Microsoft Office\OFFICE11\  
(309)MSAccess Extension Type: [Access.Application.11]  
(309)[\"C:\Program Files\Microsoft Office\OFFICE11\MSACCESS.EXE\" /NOSTARTUP \"%1\"]  
(310)MSOutlook Extension Type: [msgfile]  
(310)[\"C:\Program Files\Microsoft Office\OFFICE11\OUTLOOK.EXE\" /f \"%1\"]  
(311)MSWord Extension Type: [Word.Document.8]  
(311)[\"C:\Program Files\Microsoft Office\OFFICE11\WINWORD.EXE\" /n /dde]  
(312)Adobe Extension Type: [AcroExch.Document]  
(312)[\"C:\Program Files\Adobe\Acrobat 7.0\Acrobat\Acrobat.exe\" \"%1\"]