ACTAtek Agent Manual

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Revision History

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		- Updated Configurator settings	
		- Added MSSQL Server configuration	
1.1	2006/01/03	- Added start ACTAtekAgent as Windows Service	Clement
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1.6	2007/05/10	- Additional instructions to run as Windows Service	Keith



ACTAtek Agent Manual

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Table of Contents

Chapter 1.ACTAtek Agent	1
1.1.Introduction	1
1.1.1.System Requirements:	1
1.2.Installing the ACTAtek Agent	2
1.3.ODBC Setup	5
1.4.ACTAtek Agent Configurator:	8
1.4.1.Agent Info	8
1.4.2.To connect ACTAtek Agent with a Database	
1.4.3.ACTAtek Agent (Attach Primary terminals only)	12
1.4.4.ACTAtekAgent Running Mode	13
1.5.Starting ACTAtekAgent	14
1.5.1.Start ACTAtekAgent as application	
1.5.2.Start ACTAtekAgent as Windows service	17
1.6.De-registering ACTAtek	21
1.7.Viewing the Database Logs	22
1.8.Connecting ACTAtek Agent with Oracle 10g Database	23
1.9.Connecting ACTAtek Agent with MySQL Server	26
1.10.Connecting ACTAtek Agent with MS SQL Server	
1.10.1.ODBC Setup	28
1.10.2.ACTAtekAgent Configurator	
1.11.Connecting ACTAtek Agent to output .txt / .csv format	35
1.11.1.ODBC Setup	35
1.11.2.ACTAtek Agent Configurator	
1.12.Connecting ACTAtek Agent Behind Routers	39
1.12.1.Example Scenario	39
1.12.2.Agent Configurator Setup	40
1.12.3.Router Setup	43
1.13.Trouble Shooting	45
1.13.1.Network Troubleshooting	45
1.13.1.1.Network basic command description:	45
1.13.1.1.1.Ping	45
1.13.1.1.2.Network reachable terminal	45

ACTAtek

	. –
1.13.1.1.3.Network unreachable terminal	. 45
1.13.1.1.4.lpconfig	. 45
1.13.1.1.5.Telnet	46
1.13.1.2.Network Troubleshooting cases	47
1.13.1.2.1.Always show "Disconnected" in the Server List of the Terminal Lis	st
using web browser	. 47
1.13.1.2.2. "FATAL: Server Thread died unexpectedly" in command prompt	. 47
1.13.1.2.3.Symptom Login Failed in command prompt	. 47
1.13.1.2.4. "Connection timeout" in command prompt	. 48
1.14.Messages and Actions:	. 49
1.14.1.General Messages	. 49
1.14.1.1.No Trusted Certificate found	. 49
1.14.1.2.Registering Primary terminal login only	. 49
1.14.1.3.login failed	49
1.14.1.4.parse time error, wrong magic	. 50
1.14.1.5.x.x.x specified agent not registered	50
1.14.1.6.connection time out	50
1.14.1.7.connection refused	51
1.14.1.8.read timed out	. 51
1.14.2.Database related messages:	. 52
1.14.2.1.Start Agent failed:	. 52
1.14.2.1.1.ERROR: Create Table IO exception:	. 52
1.14.2.1.2.Create Table: Invalid authorization specification	. 52
1.14.2.1.3.Error: LOG ERROR: Column not found	52
1.15.Reporting Problems to Support:	. 53
1.15.1.Basic information	53
1.15.2.Customer information:	53
1.15.3.Software information:	. 54
1.15.4.You should also prepare information on following:	. 54



Chapter 1. ACTAtek Agent

1.1. Introduction

The Agent is primarily used to download the event log from the ACTAtek database in real time and without any hassle. It saves time and administrative efforts in backing up the data from the ACTAtek to a local computer.

The following documentation will give you a step by step illustration on how to install and operate the Agent. For any comments, or tech support, please write to support@hectrix.com . All questions and comments are welcome.

1.1.1. System Requirements:

1. JAVA Run-time 1.4 or higher. To download the JAVA Run-Time, please visit:

http://java.sun.com/j2se/1.4.2/download.html OR

http://jdl.sun.com/webapps/download/AutoDL?BundleId=9992

- 2. ACTAtek Firmware 1.29.11 or higher.
- The computer you are running ACTAtekAgent should NOT be behind any firewall. If your firewall is enabled, please ensure ACTAtek Agent can listen to its service port default to 1668 or the port defined in ACTAtek Agent Configurator.
- Please make sure both the ACTAtek Agent and ACTAtek firmware versions are uptodate with latest version. For latest software release please visit http://support.hectrix.com
- 5. ACTAtek Agent supports both JDBC and ODBC databases.



1.2. Installing the ACTAtek Agent

1. Download the file from the appropriate location, or if it came on a CD, place the CD in the CD-ROM and open the 'Setup.exe' file.



- 2. Click "Next"
- 3. Click "I Agree" if you have read and accepted the terms of the agreement.





- 4. Please check the following:
 - Start Menu Shortcuts To add shortcuts in the Start Menu
 - · Create Desktop Shortcuts Add shortcuts icon on the Desktop
 - Create ODBC Database Create an ODBC database in the current installing path

of ACTAtekAgent 1.29.1 you want to tek the components you don't want to
ck the components you don't want to
(required)
rtcuts shortcuts ataBase ws service
e over a component to see its

· Install as Windows service – Register Agent as a Windows Service

ACTAtek

ACTAtekAgent	1.29.1 Setup
	Choose Install Location Choose the folder in which to install ACTAtekAgent 1.29.1.
Setup will install A click Browse and s	CTAtekAgent 1.29.1 in the following folder. To install in a different folder, elect another folder. Click Install to start the installation.
Destination Fold	er es\Hectrix\ACTAtekAgent-1.29.1 Browse
Space required: 1	1.0MB
Space available: 4	8.1GB
	< Back Install Cancel

- 5. This is the default location that the Agent will be installed at. So, click Install to begin the installation.
- 6. Once the installation is complete, click "Finish" to exit the setup and start the Configurator



and begin the "configuration"

If you decided to run the Configurator manually:
 Click Start --> Programs --> Hectrix --> ACTAtekAgent --> Configurator



1.3. ODBC Setup

From the installer above, an ODBC database is installed in the current path. The database is named "actatek". But if you want to create another, you can follow the following steps

Taking Windows XP as an example on how to do this, please follow the below steps.

- 1. Start > Control Panel
- 2. Select 'Administrative Tools'



3. Under Administrative Tools, select 'Data Sources (ODBC)'.



4. Select the second tab from the top left, "System DSN".



5. Select 'Add...' and "Driver do Microsoft Access (*.mdb)", and 'Finish'





6. To setup an ODBC Microsoft Access file, assign a 'Data Source Name' to be "actatek" and input a description of the database.

Data Source <u>N</u> ame:	actatek	OK
<u>D</u> escription: Database	actatek	Cancel
Database:		<u>H</u> elp
<u>S</u> elect	<u>Create</u> <u>R</u> epair <u>Compact</u>	<u>A</u> dvanced
System Database		
• Non <u>e</u>		
C Da <u>t</u> abase:		
	System Database	(Intions>>

7. Select 'Create...' and specify a valid file location, as shown below.

New Database		
Database N <u>a</u> me actatek.mdb	Directories: c:\\hectrix Cockies Cookies Desktop Favorites My Documents Start Menu UserData WINDDWS	OK Cancel <u>H</u> elp Eormat Version 4.x Version 3.x Version 2.x Options System Database Encryption
Locale	Dri <u>v</u> es:	
General		Network

8. Click "OK". Successful creation, will prompt this message:





Once successfully created, please continue to next section for Agent configuration. If there is an issue creating the ODBC file, please contact us at support@hectrix.com .

1.4. ACTAtek Agent Configurator:

Click Start --> Programs --> Hectrix --> ACTAtekAgent --> Configurator to begin the "configuration"

1.4.1. Agent Info

ACTAtek Ag	ent Configurator	
Agent Info Dat	abase ACTAteks Running Mode	
Agent IP	Auto Detected	
Agent Port	1668	
Logviewer port	1099	
Agent Magic	****	
Poll Interval	60	
Locale	English (United States)	-
Log level:	ERROR	•
Save Cance	Ĭ	

- If 'Auto Detected' is selected, the Agent will automatically try to detect the ACTAtek in your network.
- The default Agent Port is 1668.



- The default Logviewer Port is 1099.
- The Agent Magic is the encryption code of Agent. Please limit the number of characters of the code since it does not need to be too long.
- Poll Interval should be set to > 60 seconds.
- · Select the appropriate locale to match your ACTAtek device.
- \cdot Log Level decides which level of log statement is going to be logged.



1.4.2. To connect ACTAtek Agent with a Database

ACTAtek Agent Configura	tor 🔤 🗖
Agent Info Database ACTAtek	s Running Mode
Database Driver	Generic ODBC
Driver Class	sun.jdbc.odbc.JdbcOdbcDriver
JDBC URL	jdbc:odbc:actatek
Hostname	
Database Name	actatek
Database Username	
Database Password	
Connection Pool Size	5
Create Table SQL	CREATE TABLE actatek_logs(userid VARCHAR(20) NOT NULL, timeentry DATETIME NOT NULL, eventid VARCHAR(20), terminalsn VARCHAR(20) NOT NULL,
Target Table Name	actatek_logs
Map Timestamp to Field	timeentry
Map UserID to Field	userid
Map Event to Field	eventid
Map TerminalSN to Field	terminalsn
Map Photo (JPEG Binary) to Field	jpegPhoto

• Database Driver: default Generic ODBC

ODBC database:

- must be defined in Window ODBC data source's System DSN
- Driver Class : default empty, for JDBC database
- · JDBC URL: default empty, for JDBC database

JDBC database

- must enter database's Driver Class and JDBC URL
- · database jdbc jar files must be copied to ACTAtek's jdbc directory
 - For example
 - Directory path : C:\Program Files\Hectrix\ACTAtekAgent\jdbc
 - Oracle : classes12.jar
 - DB2: Common.jar, db2fs.jar, db2jcc.jar
- Hostname: default empty
 - · defined for non-ODBC database
 - \cdot $\,$ enter database server ip address and port



- **Database Name**: actatek (default ms-access database)
- · Database Username and Password: default empty (eg empty for ms-access db)
 - · enter database administrator id and password
- · Connection Pool Size: 5 (default)
- Create Table SQL: SQL command, default definition has 6 fields
 Optional: Photo: default long binary (for ms access)

IP and remark default Varchar(255)

- Target Table Name: Use table name same as Create Table SQL
- Map Event log field to Table column name or leave empty if not used: Map Timestamp to Field, Map UserID to Field, Map Event to Field, Map TerminalSN to Field, Map Photo (JPEG Binary) to Field, Map IP to Field, Map Remark to Field.
 Please use name same as column name as defined in SQL CREATE TABLE



1.4.3. ACTAtek Agent (Attach Primary terminals only)

ACTAtek Agent Configurator	
Agent Info Database ACTAteks Running Mode	
ACTAtek IP P Protocol Admin Password	
192.168.1.229 80 http A999 * INVIS	
Save Cancel	

- · Right click on the blank space, you will see "Add ACTAtek" or "Delete ACTAtek"
- · Please enter the corresponding "ACTAtek IP", "Port", "Protocol", "Admin" and "Password"
- Please be reminded that if you choose Port 80, you need to have http protocol. If you choose Port 443, you need to have https protocol
- · The default running mode is Real Time. Running mode is discussed in following section.
- · Save it after all setting completed. The following screen will appear:



· The configuration will be effective at Next ACTAtekAgent startup.

ACTAtek

1.4.4. ACTAtekAgent Running Mode

ACTAtek A	gent Configurator	
Agent Info D C Real time C Schedule	atabase ACTAteks Running Me node node	ode
Schedule	only	
Get mod	: All logs	
Period:		//
Time:	15 = 140 = 10 =	
Save Can	el	

Real Time Mode

· Real time mode is the default for real time event log transfer.

Schedule Mode

· Schedule mode is for schedule log transfer at specify time.

Get mode:	Previous day logs: transfer only previous day event log.
	All logs: Transfer all event log. If log already found in
	database, ACTAtekAgent will not insert duplicate
Period:	Default run Daily.

Time: The startup time of daily event log transfer.



1.5. Starting ACTAtekAgent

ACTAtekAgent can be started by one of the following ways:

· ACTAtekAgent can be started as an application.

Note: If the desktop is reboot, user has to manually statup ACTAtekAgent again.

OR

· ACTAtekAgent can be started as a Window Service.

ACTAtekAgent is automatically startup as a service after Window started.

1.5.1. Start ACTAtekAgent as application

1. Before you start the Agent, please go to the Server list of the ACTAtek Terminal using web browser. There should be nothing under the Server List.

🗿 ACTAtek - Hectrix Ltd N	icrosoft Internet Explorer			
Eile Edit View Favorites	Tools Help			1
🚱 Back 👻 🐑 - 💌	💰 🏠 🎽 Links 剷 110 👩 112 🧧] 181 👸 actatek 👸 Agent 👸 Bugzi	lla 👸 Dict <u>C</u> Google 👸 Mail	🛎 release
Address 🙋 http://192.168.1.184	/admin.html		✓ Go	ogle • 🛛 👻 »
ACTAtek The worldw	ide leader in Web based technologies.			HECTRIX [®] LTD.
Terminal • Log Off • Terminal Status User Administration	Terminal List			
Attendance Report Addinance Report Daily Report View Event Log Add Event Log View User List Add New User Departments User User	No. Description Type 1 ACTAtek Primar	Serial No. IP Address 00111DFFFFFF <u>192,168,1,19</u>	Camera Door Camera Unlock Door	Last Updated To Secondary I
Oser Messages Access Control	Server List			
Access Groups Triggers Holidays Setting Terminal Settings	No. IP Addres	s Status	Last Updated Time	Active Profile
Terminal Setup Primary/Secondary Setup Terminal List Connection Profile Terminal Clock External Devices Tools Remote Door Open Backup System Data Restore System Data Firmware Upgrade Download Report Capture Fingerprint Network Camera	Submit Delete Add		Copyright © 2001-2004 by Hec	bix Ltd.
Reboot	<			
ど Done				🔮 Internet



 Now, click Start --> Programs --> Hectrix --> ACTAtekAgent --> ACTAtekAgent 1.29.1 and begin the program. You will see the following screens. (note: The above startup is default to msdos running mode)



IP Address: IP address of desktop running ACTAtekAgent

Connection: Indicate network connection status between Terminal and ACTAtekAgent Send Log Status: Indicator for send event log to ACTAtekAgent

> Registered – First time connect and registered at ACTAtekAgent Sending – Terminal is current sending event log to ACTAtekAgent. Failed to send – Terminal not able to send log to ACTAtekAgent. Synchronized – Terminal send log completed

Last Updated Time – Last send log completion time

Profile: Optional for remote modem log transfer.

Once ACTAtekAgent started, the ACTAtekAgent console window will be displayed : 3. Login in the ACTAtek to add a few sample event logs, as shown below:

ACTAtek

CTAtekAgent 1.29	- 🗆 🕽	ĸ
13:00:02,540 DEBUG: Checking if table exists	com.	
13:00:02,540 DEBUG: Getting Connection	com.	4
13:00:02,540 DEBUG: Creating New Connection hectrix agent idbc JDBCPool newConnection	com.	-
13:00:02,587 DEBUG: Connection Obtained hectrix agent idbc JDBCPool newConnection() 0178	com.	
13:00:02,602 DEBUG: Obtained Connection from Pool hectrix agent idbc JDBCPool getConnection() 0212	com.	
13:00:02,602 DEBUG: SELECT terminalsn,timeentry,userid,eventid FROM ACTA1 GS WHERE 0=1 bectrix.agent.SQLHelmer.isTableExist() 0673	LEK_TO	
13:00:02,602 DEBUG: Leaving isTableExist hectrix agent SOLHelper isTableExist	com.	
13:00:02,602 INFO : Running in real time mode hectrix_agent_Agent_main() P196	com.	
13:00:02,602 DEBUG: Starting Agent Dectrix.agent.Agent.startWSServer() 095	com.	
13:00:02,618 INFO : Agent Started hectrix.agent.Agent.startWSServer() P104	com.	
13:00:02,618 DEBUG: Starting server on port 1668 hectrix.agent.Agent5ServerThread.run() @669	com.	
13:00:02,618 DEBUG: Waiting hectrix.agent.Agent.main() @200	com.	-



Once the field "Status" under the Server list (Terminal List) shows "Connected", event logs are being captured by the Agent in real time.

Stop ACTAtek Agent

· To terminate ACTAtekAgent, user can simply close the ACTAtek Agent console window.



1.5.2. Start ACTAtekAgent as Windows service

1. Go to the Control Panel -----> Administrative Tools -----> Services:



2. Right click on the ACTAtekAgent service name and select "Properties". Then click "Start" to start the ACTAtekAgent.

	Log On	Recovery	Dependenc	ies		
Service	e name:	ACTAtek A	lgent			
Display	name:	ACTAtek A	Agent			
Descrip	otion:					()
Path to) executabl	e:				
C:\Pro	gram Files\	Hectrix\ACT	AtekAgent-1	.29.1\SRV.	ANY.EXE	
Startup) type:	Automatic				~
Service	e status:	Stopped				
	Start	Stop		Pause) (R	esume
	an specify t	he start para	meters that a	pply when	you start th	ne service
You ca from he	ere.					

ACTAtekAgent running status messages can be found in Windows Event Viewer:

Go to Control Panel -----> Administrative Tools -----> Event Viewer -----> Application



Stop ACTAtek Agent

• To terminate ACTAtek Agent, right click on the ACTAtekAgent service name and select "Properties". Then click "Stop" to stop the ACTAtekAgent.

This will work when your database is located at a different computer or if you are using the Agent to write a database file such as Access. If you are running a database service such as MySql or Postgres and using the ACTAtek Agent on the same computer there is a different procedure to run the Agent in the background automatically. What happens is that the AC-TAtek Agent runs before the database service starts running, therefore it shuts down the AC-TAtek Agent service. Here is the work around just follow these steps below:

Step 1. Make sure the ACTAtek Agent is running manually

- · Go to the Control Panel -----> Administrative Tools -----> Services
- · Double click ACTAtek Agent
- Pull down the tab to Manual
- · Press Apply button

General Log (In Recovery Dependencies
Service name:	ACTAtek Agent
Display name:	ACTAtek Agent
Description:	
Path to execu	table:
C:\Program Ei	and the second se
Startup type:	Manual
Service status	Started
Start	Stop Pause Resume
You can speci from here.	fy the start parameters that apply when you start the service
Start paramete	15.

Step 2. Ensure the Agent is registered in the ACTAtek unit

- · Log into the ACTAtek unit and select Terminal List
- If there is no Agent listed (or if there is an Agent listed please check the settings are correct) under Server List click Add and enter the following:
 - · ACTAtek Agent IP (the picture below is just an example)



- Port number is usually 1668 (check the ACTAtek Agent Configuration for the port number)
- Magic (default magic code is: actatek123)
- · Send all logs when registered should be Enabled
- · Click Modify

Server List	
Modify Server	
IP Address	192.168.1.19
Port	1668
Agent Version	1.2 💌
Magic	*******
Send all logs when register	Enabled
Profile	No Profile availal
Modify	

Step 3. Run the ACTAtek Agent service on boot up

You will need to add the Agent to run in the Windows registry.

- · Goto command prompt and run the windows registry (Start->Run->regedit)
- Click HKEY_LOCAL_MACHINE--->SOFTWARE--->Microsoft-->Windows--->CurrentVersion--->Run
- · Right click the right hand pane and select New->String Value
- · Type ACTAtek Agent press enter
- Right-click ACTAtek Agent and select modify and type: net start "ACTAtek Agent" and press enter



Edit View Favorites Help			
🕀 🧰 Internet Settings 🛛 🔥	Name	Туре	Data
	ab](Dofault)	REG_52	
MS DOS Faulation	ACTAtek Agent	REG_SZ	net start "ACTAtek Agent"
	and ACO	DEC. 57	"CVD": grout Files (Atheros (ACU. exe" - nogui
	AGRSMMSG	REG_SZ	AGRSMMSG.exe
	ab) Apoint	REG_SZ	C:\Program Files\Apoint2K\Apoint.exe
	MATIPTA	REG_SZ	C:\Program Files\ATI Technologies\ATI Control Panel\a
	DispSwitchLauncher	REG_SZ	C:\Program Files\Fujitsu\DispSwitch\DispSwitchLaunch.
	abdla	REG_SZ	C:\WINDOWS\system32\dla\tfswctrl.exe
	FJUPDNV_Chitose	REG_SZ	C:\Program Files\Fujitsu\updnavi\updnavi.exe
OptionalComponents	MIMJPMIG8.1	REG_SZ	"C:\WINDOWS\IME\imjp8_1\IMJPMIG.EXE" /Spoil /Rem
	ab IndicatorUtility	REG SZ	C:\Program Files\Fujitsu\Fujitsu Hotkey Utility\Indicato
RunOnceEx	ab LoadBtnHnd	REG SZ	C:\Program Files\Fujitsu\BtnHnd\BtnHnd.exe
🗄 🦲 Setup	ab Load FUJ02E3	REG SZ	C:\Program Files\Fujitsu\FUJ02E3\FUJ02E3.exe
SharedDlls	LoadFujitsuOuick	REG SZ	C:\Program Files\Fujitsu\Application Panel\OuickTouch.
🕀 🧰 Shell Extensions	ablutMoh	REG SZ	C:\Program Files\ltmoh\Ltmoh.exe
🗄 🧰 ShellCompatibility	MSPY2002	REG SZ	C:\WINDOWS\system32\IME\PINTLGNT\ImScInst.exe
🕀 🧰 ShellScrap	DPHIME2002A	REG SZ	C:\WINDOWS\system32\IME\TINTLGNT\TINTSETP.EXE
- 📋 ShellServiceObjectDelayL	ab PHIME2002ASypc	REG SZ	C:\WINDOWS\system32\IME\TINTLGNT\TINTSETP.EXE
🕀 🧰 SideBySide	ab) Sup Javal IndateS	REG SZ	"C:\Program Files) lava\ire1 5 0 11\bin\iusched eve"
- 🥘 SMDEn		1120_02	chilogram instantali orraio_11 (anit)asciediase
🕀 🦲 Syncmgr 📃			
🕀 🦲 Telephony			
- 🦲 ThemeManager			
🕀 🦲 Themes			
🕀 🛄 Unimodem 🛛 💌			

- · reboot the machine
- In the Terminal List of the ACTAtek you should see Connection: Connected and Send Log Status:Synchronized. This means the ACTAtek Agent is running.

Server List

	No.	IP Address	Connection	Send Log Status
Г	1	192.168.1.19	Connected	Synchronized
Submit	Delete	Add		



1.6. De-registering ACTAtek

To de-register terminal from sending log to ACTAtekAgent unit, click Start --> Programs --> Hectrix --> ACTAtekAgent --> Deregister. It will deregister terminals found in configurator file and display them in the ACTAtekAgent console window.

Deregister		- 🗆 י	K
INFO : Deregistering INFO : Deregistering	Agent 192.168.1.184		

There is an alternative method to de-register the ACTAtek from the Agent, which is via the web interface. If you go to the Server List of the terminal that is connected to the Agent, check the item under "Server List", and Click "Delete" as shown in the De-register process above. The terminal will stop sending log to ACTAtekAgent.

ACTAtek - Hectrix Ltd N	Aicrosoft In	ternet Ex	xplorer						
Eile Edit View Favorites	Tools Help								
🌀 Back 👻 🕥 - 💌	ی 🟠 🖻	* Links	e 110 e 112 e	181 👸 actatek 👸	Agent 👸 Bugzilla	🙆 Dict 🔀	Google 🍯 Mail 🕴	🛃 release 🛛 🙋	Server 🥑 YH Mail 🂙
Address 🛃 http://192.168.1.184	f/admin.html						V Goo	gle -	✓ >>
ACTAtek The worldw	vide leader in	Web bas	ed technologies.					HEG	CTRIX LTD.
Terminal • Log Off • Terminal Status	Term	inal L	ist						
User Administration Attendance Report Daily Report View Event Log Add Event Log View User List Add New User Departments User Messanes	Serve	. Des Al	c <mark>cription Type</mark> CTAtek Primary	Serial No. 00111DFFFFFF	IP Address 192.168.1.184	Camera <u>Camera</u>	Door Unlock Door	Last Updat	ed To Secondary I
Image: Source Image: Source Image: Source									
Access Groups									
 Iriggers Holidays Setting 		No.	IP Address	Status	Last Upd	lated Time	Activ	e	Profile
Terminal Settings		1	192.168.1.180	Connected	Wed Jun 22	12:36:12 200	5 •	No F	'rofile avaliable 💟
Terminal Setup Primary/Secondary Setup Terminal List Connection Profile Terminal Clock External Devices Tools Remote Door Open Backup System Data Firmware Upgrade Download Report Capture Fingerprint Network Camera Reboot	Submit	Delete	Add		.02	opyright © 20	01-2004 by Hect	יix Ltd.	
2 2									Internet
									rancomoc

User should delete the terminal from ACTAtekAgent configurator. The configuration will be effective at Next ACTAtekAgent startup.



1.7. Viewing the Database Logs

- 1. Using Log Viewer:
- Now, click Start --> Programs --> Hectrix --> ACTAtekAgent --> Viewer and begin the program. You will see the following screens.

Log Viewer			
Timestamp	TerminalSN	User ID	Event
2005-06-22 19:25:34 CST	00111DFFFFFF	1	OUT
2005-06-22 19:25:43 CST	00111DFFFFFF	1	OUT
2005-06-22 19:55:36 CST	00111DFFFFFF	1	OUT
2005-06-22 19:59:09 CST	00111DFFFFFF	1	OUT
2005-06-22 19:59:49 CST	00111DFFFFFF	1	OUT
2005-06-22 20:06:32 CST	00111DFFFFFF	1	OUT
2005-06-22 20:08:38 CST	00111DFFFFFF	1	OUT
2005-06-22 20:18:18 CST	00111DFFFFFF	1	OUT
2005-06-22 20:18:45 CST	00111DFFFFFF	1	OUT
2005-06-22 20:20:44 CST	00111DFFFFFF	1	OUT
2005-06-22 20:20:54 CST	00111DFFFFFF	1	OUT
2005-06-22 20:22:38 CST	00111DFFFFFF	1	OUT
2005-06-22 20:22:43 CST	00111DFFFFFF	1	OUT
2005-06-22 20:22:48 CST	00111DFFFFFF	1	OUT
2005-06-22 20:31:06 CST	00111DFFFFFF	1	OUT
2005-06-22 20:35:57 CST	00111DFFFFFF	1	OUT
2005-06-22 20:36:11 CST	00111DFFFFFF	1	F1
lax Rows to Display (-1 for ur	nlimited):		Updat

- 2. Using MS Access:
- Double click to open the file of your database. Open the table "ACTATEK_LOGS" to view it's content

Note: ACTAtekAgent's Database must be started before viewing events in Logviewer.



1.8. Connecting ACTAtek Agent with Oracle 10g Database

- 1. Since the database setting is different for each customer, it is highly recommended that you consult with your DBA for the database administration and setting.
- 2. You need to Copy Oracle's classes12.zip to the Agent's JDBC in Window's directory. Following are the steps:
- classes12.zip location: \${ORACLE_HOME}/jdbc/lib/classes12.zip
- · copy the file C:\Program Files\Hectrix\ACTAtekAgent-1.27\jdbc
- 3. Preparation :
- Database Server and Firewall must set rule to allow ACTAtek Agent to access the Oracle database Port (default 1521)
- · Database login userid must be granted necessary rights eg. Connection and Table access
- · Default table name is actatek_logs and will use default tablespace.
- Table will be created, if it doesn't already exist. If the table exists, ACTAtek Agent will use the existing table.
- 4. From the configurator, select Database tab and enter the following:
- · Database Driver: Oracle
- Hostname: x.x.x.x:port where x.x.x.x is Database Server IP address, port is Oracle Database port (e.g1521)

example: 192.168.1.51:1521

- Database Name: dddddddd where dddddddd is the location to enter database instance name
- · Username: database login id
- · Password: database login password
- · Connection Pool Size 5 (default)
- · Create Table SQL:

CREATE TABLE ACTATEK_LOGS (userID VARCHAR2(20) NOT NULL, timeentry DATE NOT NULL, eventID VARCHAR2(20), terminalSN VARCHAR2(20) NOT NULL, jpegphoto blob

Target Table Name: actatek_logs



- · Map Timestamp to Field: timeentry
- · Map UserID to Field: userid
- · Map Event to Field: eventID
- · Map TerminalSN to Field:terminalsn
- · Map Photo (JPEG Binary) to Field: jpegphoto

agent Info Database ACTAteks	5
Database Driver	Oracle 💌
Driver Class	oracle.jdbc.OracleDriver
JDBC URL	jdbc;oracle:thin:@192.168.1.51:1521;actat
Hostname	192.168.1.51:1521
Database Name	actatek
Database Username	dba
Database Password	***
Connection Pool Size	5
Create Table SQL	CREATE TABLE ACTATEK_LOGS (userID VARCHAR2(20) NOT NULL, timeentry DATE NOT NULL, eventID VARCHAR2(20), terminalSN VARCHAR2(20) NOT NULL, ipegPhoto BLOB)
Target Table Name	actatek_logs
Map Timestamp to Field	timeentry
Map UserID to Field	userid
Map Event to Field	eventid
Map TerminalSN to Field	terminalsn
Map Photo (JPEG Binary) to Field	jpegphoto



- 5. View the table in ISQLplus
- ISQLplus allows for web browser access to database table. To do so, enter the following in your browser's address bar:

http://x.x.x.x:port/isqlplus/workspace.uix where x.x.x.x is the server IP Address, the port is the iSQLplus port (default is 5560).

- For example, http://192.168.1.51:5560/isqlplus/workspace.uix
- Login:
- · Username: enter database user login id
- Password : enter database user login password
- · Connect Identifier: enter database instance name
- Sample SQL command:
- From workspace, enter sql command: select userid, TO_char(timeentry,'DD-Mm-YYYY HH24:MI:SS'), eventid, terminalsn from actatek_logs order by 2 desc click button <execute>
- 6. Viewing the table in SQL*Plus Windows GUI
- · From Windows, select SQL*Plus
- · Login:
- · Username: enter database user login id
- · Password : enter database user login password
- · Connect Identifier: enter database instance name
- · Sample SQL command:
- From command prompt SQL>, enter:

select userid, TO_char(timeentry,'DD-Mm-YYYY HH24:MI:SS'), eventid, terminalsn

from actatek_logs

order by 2 desc;

press <enter>



1.9. Connecting ACTAtek Agent with MySQL Server

- 1. Since the database setting is different for each customer, it is highly recommended that you consult with your DBA for the database administration and setting.
- 2. In the ACTAtekAgent's JDBC directory, default will include a mysql jdbc driver.
- Please download the MySQL JDBC driver from:
 - http://www.mysql.com/products/connector/j/
 - and put the corresponding JAR file into:
 - C:\Program Files\Hectrix\ACTAtekAgent-1.27\jdbc
 - You should find mysql jdbc driver e.g.mysql-connector-java-3.0.14-productionbin
- 3. Preparation :
- Database login userid must be granted necessary rights eg. Connection and table access rights.
- · Default table name is actatek_logs
- 4. From the configurator, select Database tab and enter the following:
- · Database Driver: MySQL
- Hostname: x.x.x.x

where x.x.x.x is MySQL Database Server IP address

example: 192.168.1.51

- · Database Name: dddddddd where dddddddd is the location for database name
- · Username: database login id
- · Password: database login password
- · Connection Pool Size 5 (default)
- Create Table SQL:

```
CREATE TABLE ACTATEK_LOGS (
userID VARCHAR2(20) NOT NULL,
timeentry DATE NOT NULL,
eventID VARCHAR2(20),
terminalSN VARCHAR2(20) NOT NULL,
jpegphoto blob
```

- Target Table Name: actatek_logs
- · Map Timestamp to Field timeentry



- · Map UserID to Field userID
- · Map Event to Field eventID
- · Map TerminalSN to Field terminalSN
- · Map Photo (JPEG Binary) to Field: jpegphoto

Agent Info Database ACTAtek	5				
Database Driver	MySQL	-			
Driver Class	com.mysql.jdbc.Driver				
JDBC URL	jdbc:mysql://192.168.1.51/actatek				
Hostname	192.168.1.51				
Database Name	actatek				
Database Username	root				
Database Password	*****				
Connection Pool Size	5				
Create Table SQL	CREATE TABLE actatek_logs (userID VARCHAR(20) NOT NULL, timeentry DATETIME NOT NULL, eventID VARCHAR(20), terminalSN VARCHAR(20) NOT NULL, ipegPhoto BLOB)	< >			
Target Table Name	actatek_logs				
Map Timestamp to Field	timeentry				
Map UserID to Field	userid				
Map Event to Field	eventid				
Map TerminalSN to Field	terminalsn				
Map Photo (JPEG Binary) to Field	jpegphoto				

5. View table in Linux

example:

- · login mysql administrator e.g. Root
- · enter command: mysql -u root -p
- enter mysql administrator password.
- show databases;
- · use actatek
- · show tables;
- · select userid, timeentry, eventid, terminalsn from actatek_logs



1.10. Connecting ACTAtek Agent with MS SQL Server

Currently, ACTAtekAgent may require an ODBC system data source to act as a bridge to connect to the MS SQL Server. The following will illustrate how to setup an example of such ODBC connection to the data provider and the corresponding ACTAtekAgent configuration.

1.10.1. ODBC Setup

From Windows XP,

- 1. Start > Control Panel
- 2. Select Administrative Tools;
- 3. Under Administrative Tools, select Data Sources (ODBC)

Name	Driver		A <u>d</u> d
			<u>H</u> emove
			Configure
	An ODBC System data sourc	e stores information abo	ut how to connect to



4. Select the System DSN tab from top and click 'add'. From 'Create New Data Source', SQLServer and click 'Finish'



5. Enter data source, description, sqlserver information and click 'next'. For example: Datasource name : actatek

Description : actatek_mssql

SQL Server: localhost

Create a New Data So	urce to SQL Serve	11		
Select a dirver to: me out Access out Asset out Ass	This wizard will help ; connect to SQL Serv What name do you w Na <u>m</u> e: How do you want to <u>D</u> escription:	you create an ODB ver. want to use to refer actatek describe the data s actatek_mssql	C data source that to the data source ource?	you can use to ?
	Which SQL Server d	lo you want to conn localhost	ect to?	•
	Finish	<u>N</u> ext >	Cancel	Help



6. Select the SQL Server authentication as defined by your Administrator. For example we select 'With SQL Server Authentication using a login ID and password entered by the user'. Click the check box 'Connect to SQL Server to obtain default settings for the additional configuration options' and enter Login ID and Password.

Create a New Data So	urce to SQL Server 🛛 🔀
Select a driver to me of soft Access i of das as f of	How should SQL Server verify the authenticity of the login ID? With Windows NT authentication using the network login ID. With SQL Server authentication using a login ID and password entered by the user. To change the network library used to communicate with SQL Server, click Client Configuration. Client Configuration. Client Configuration Client Configuration
	Login ID: sal Password: ****** < Back Next > Cancel Help

If the authentication is incorrect, you will receive a dialog box similar to this. Please verify the login id and password is correct.

Microso	ft SQL Server Login 🛛 🛛 🔀
i	Connection failed: SQLState: '28000' SQL Server Error: 18456 [Microsoft][ODBC SQL Server Driver][SQL Server]Login failed for user 'sa'.



7. Select the check box 'Change the default database to:' and select your default database for example Master and click 'Next'.

Please set the following option according to your database setting:

Suggest to uncheck both box :

'use ANSI quoted identifiers' and 'use ANSI nulls, paddings and warnings'.

The quoted identifier setting determines what meaning Microsoft SQL Server gives to double quotation marks (").

The ANSI nulls option controls both database default nullability and comparisons against null values.

The ANSI padding controls the way the column stores values shorter than the defined size of the column, and the way the column stores values that have trailing blanks in **char**, **varchar**, **binary**, and **varbinary** data.

Selact a driver	Change the default database to:
The Accessi	master
off Abase I	🗖 Attac <u>h</u> database filename:
soft Forder Provent Forder Post Pare Number 1 Pare	Greate temporary stored procedures for prepared SQL statements and drop the stored procedures G Duly when you disconnect C When you disconnect and as appropriate while you are connected Use ANSI quoted identifiers.
	Use ANSI nulls, paddings and warnings.
	Use the railover SUL Server if the primary SUL Server is not available.



Click 'Finish'

Selacion me		ge the language of SQL Server system messages	to
off dBase I	Eng	ish 🗾	
soft Excert	F Use :	strong encryption for data	
M Store 00B	I Perto — Use r	rm translation for character data egional settings when outputting currency, numbe	ers, dates and
Poson Tex	times	· · · · · · · · · · · · · · · · · · ·	
SQL Serv	□ <u>S</u> ave	long running queries to the log file:	
11	C:\Q	UERYLOG	Browse
		Long query time (milliseconds):	30000
	∏ Log [DBC driver statistics to the log file:	
	C:\S	TATSLOG	Browse

8. Verify the connection is correct by clicking the 'Test Data Source'. A successful message is returned if the settings are correct. Click 'OK' to continue.

ODBC Microsoft SQL Server Setup	×
A new ODBC data source will be created with the following configuration:	
Microsoft SQL Server ODBC Driver Version 03.81.9031 Data Source Name: actatek Data Source Description: actatek_mssql Server: localhost Database: master Language: (Default) Translate Character Data: Yes Log Long Running Queries: No Log Driver Statistics: No Use Integrated Security: No Use Regional Settings: No Prepared Statements Option: Drop temporary procedures on disconnect Use Failover Server: No Use ANSI Quoted Identifiers: Yes Use ANSI Quoted Identifiers: Yes Use ANSI Null, Paddings and Warnings: Yes Data Encryption: No	
]	8
Test Data Source OK Cance	el



 In ODBC Microsoft Server Setup dialog box, click 'OK' to complete the setup. The ODBC Data Source Administrator will display a new entry 'actatek' in System Data Sources.

Click 'OK' to complete the ODBC Data Source setup.

er DSN	System DSN File DSN Drivers Trac	sing Connection Pooling About
Name	Driver	Add
actatek	SQL Server	Bemove
		<u>C</u> onfigure
	An ODBC System data source stores inl the indicated data provider. A System	formation about how to connect to data source is visible to all users
1 M E	on this machine, including NT services.	
9		



1.10.2. ACTAtekAgent Configurator

Since the database setting is different for each customer, it is highly recommended that you consult with your DBA for the database setting, table maintenance and archive historical data.

Agent Info Database ACTAteks	Running Mode		
Database Driver	Generic ODBC		
Driver Class	sun.jdbc.odbc.JdbcOdbcDriver		
JDBC URL	jdbc:odbc:actatek		
Hostname			
Database Name	actatek		
Database Username			
Database Password			
Connection Pool Size	5		
Create Table SQL	CREATE TABLE ACTATEK_LOGS (userID VARCHAR(20) NOT NULL, timeentry DATETIME NOT NULL, eventID VARCHAR(20), terminalSN VARCHAR(20) NOT NULL, jpegPhoto LONGBINARY, remark VARCHAR(255), PRIMARY KEY(userID, timeentry, terminalSN))		
Target Table Name	actatek_logs		
Map Timestamp to Field	timeentry		
Map UserID to Field	userid		
Map Event to Field	triggerid		
Map TerminalSN to Field	terminalsn		
Map Photo (JPEG Binary) to Field	jpegPhoto		
Map IP to Field			
Map Remark to Field	remark		

- · Database Driver: Generic ODBC
- · Database Name: actatek (default, and set it in the above steps)
- · Database Username and Password: We haven't set it. So, leave it blank
- · Connection Pool Size: 5 (default)
- · Create Table SQL: SQL command
- Target Table Name, Map Timestamp to Field, Map UserID to Field, Map Event to Field, Map TerminalSN to Field, Map Photo (JPEG Binary) to Field: Please use the same names in the SQL command above



1.11. Connecting ACTAtek Agent to output .txt / .csv format

1.11.1. ODBC Setup

- 1. From Windows XP,
- 2. Start > Control Panel
- 3. Select Administrative Tools;
- 4. Under Administrative Tools, select Data Sources (ODBC)
- 5. Select the System DSN tab. Click "Add ... "

ystem D Name actatek	ata Sources: Driver Microsoft Access Driver (*.mdb)	Add
		<u>C</u> onfigure
3	An ODBC System data source stores inform the indicated data provider. A System data on this machine including NT services	ation about how to connect to source is visible to all users

6. From "Create New Data Source", choose "Microsoft Text Driver (*.txt, *.csv), and "Finish".

Data Source <u>N</u> ame:	ACTAtek2	ОК
<u>D</u> escription:	ACTAtek2	Cancel
Directory: C:\D	Pocuments and Settings\hectrix Select Directory ectory	<u>H</u> elp <u>Options>></u>



10.Select "Select Directory...". Choose directory (C:\Program Files\Hectrix\ACTAtekAgent-1.29.1) and click OK.

File <u>n</u> ame:	<u>F</u> olders:	OK
.asc;.csv;*.tab;*.txt	c:\\actatekagent-1.29.1	
2	(Arch	Cancel
10	Program Files	
	🕞 Hectrix	
	ACTAtekAgent-1.2	
3		
ave file as <u>t</u> ype:	Drives:	
T + F3 (8 - 8 - 8		Motwork

11.Click "OK" to confirm.

ODBC Text Setur)	?
Data Source <u>N</u> ame:	ACTAtek2	ок
Description:	ACTAtek2	Cancel
Database Directory: C:\	.VHECTRIXVACTATEKAGENT-1.29.1	Help
Use Current Dir	ectory	<u>O</u> ptions>>

12.Data source should now appear in the list. Click "OK" to finish.

ACTAtek

Name ictatek	Driver Microsoft Access Driver (*.mdb)	<u>Add</u>
ACTA(eKZ	MICHOSOIC FEXT DIIVER (UXXC, UCXV)	<u>C</u> onfigure

1.11.2. ACTAtek Agent Configurator

Agent Info Database ACTAteks	Running Mode
Database Driver	Generic ODBC
Driver Class	sun, jdbc.odbc.JdbcOdbcDriver
JDBC URL	jdbc:odbc:ACTAtek2
Hostname	
Database Name	ACTAtek2
Database Username	
Database Password	
Connection Pool Size	5
Create Table SQL	CREATE TABLE ACTAtek2.txt (userID Char, timeentry Char, eventID Char, terminalSN Char)
Target Table Name	ACTAtek2.txt
Map Timestamp to Field	timeentry
Map UserID to Field	userid
Map Event to Field	eventid
Map TerminalSN to Field	terminalsn
Map Photo (JPEG Binary) to Field	

Database Driver: Generic ODBC Database Name: ACTAtek2 Database Username and Database password: We haven't set it. So, leave it blank. Connection Pool Size: 5 Create Table SQL: CREATE TABLE ACTAtek2.txt (userID Char, timeentry Char,



eventID Char, terminalSN Char)

Target Table Name, Map Timestamp to Field, Map UserID to Field, Map Event to Field, Map TerminalSN to Field, Map Photo (JPEG Binary) to Field: Please use the same names in the SQL command above.



1.12. Connecting ACTAtek Agent Behind Routers

1.12.1. Example Scenario

Two standalone ACTAteks running on different sites with traffic filtered by routers. Assuming the default port 80 is used for the ACTAtek's webserver, each router is configured such that the web traffic (port 80/443) is map to the ACTAtek's IP accordingly. The Agent, by default, use port 1688 for incoming connection, this port will need to be opened as you will see on the router setup. The setup is also assuming Access database via ODBC and "Real time Mode" is being used.

The goal is to install ACTAtek Agent on one of the site and retrieve the data logs from both ACTatek devices into one database.

NOTE: The IP addresses shown below are arbitrarily picked for the example only.



The above depicted two standalone ACTAteks with Agent setup to extract both devices data.



1.12.2. Agent Configurator Setup

1. Under "Agent Info" tab, uncheck the "Auto Detected" box. Type the IP address of the router's WAN IP. From the example figure, for instance, it would be "24.69.121.33".

ACTAtek Ag	ent Configurator	
Agent Info Dat	abase ACTAteks Running Mode	
Agent IP	Auto Detected	
Agent Port	1668	
Logviewer port	1099	
Agent Magic	****	1
Poll Interval	60	
Locale	English (United States)	•
Log level:	ERROR	•
Save Cance	4	

Agent Configurator. Router A's WAN IP address is used, allowing ACTAtek B to talk back to the Agent.

NOTE: The "Agent Port" under "Agent Info" is default at 1668 and this document assume this port number is used for the Router A setting.



2. Under "ACTAteks" tab, there will be two ACTAtek entries in the configurator using the above example scenario.

Enter the ACTAtek information behind Router A, ie. "192.168.1.10". Fill out the rest of the information for the entry (ie. Port, Admin and Password).

Enter the ACTAtek on the remote site using Router B's IP, ie. "202.125.28.55". Fill out the rest of the information for the entry (ie. Port, Admin and Password)

Agent Info Data	abase (ACTAteks	Running	Mode	
ACTAtek IP	P	Protocol	Admin	Password	
192.168.1.10	443	https	A999	* INVIS	
202.125.28.55	443	https	A999	* INVIS	

 Agent Configurator. The first ACTAtek IP indicates the ACTAtek A, which is within the same private network where Agent is installed. The second IP refers to the WAN IP address of Router B, which the ACTAtek B is connected to.



3. Finish the Agent Configurator by filling out necessary entry under the "Database" tab. Click "Save" to complete the Agent setup.

Agent Info Database ACTAteks	s Running Mode
Database Driver	Generic ODBC
Driver Class	sun.jdbc.odbc.JdbcOdbcDriver
JDBC URL	jdbc:odbc:actatek
Hostname	
Database Name	actatek
Database Username	
Database Password	
Connection Pool Size	5
Create Table SQL	CREATE TABLE ACTATEK_LOGS (userID VARCHAR(20) NOT NULL, timeentry DATETIME NOT NULL, eventID VARCHAR(20), terminalSN VARCHAR(20) NOT
Target Table Name	ACTATEK_LOGS
Map Timestamp to Field	timeentry
Map UserID to Field	userid
Map Event to Field	eventid
Map TerminalSN to Field	terminalsn
Map Photo (JPEG Binary) to Field	

• Agent Configurator. Database setting is default. Configuration may vary if different database setting applies.

ACTAtek

1.12.3. Router Setup



· Buffalo AirStation Broadband Router.

Router A

Please refer to your router's documentation for appropriate settings as information presented below is only for reference.

1. Forward the traffic on port 1668 to the workstation/server running ACTAtek Agent. From the example figure, the setting would be:

24.69.121.33:1668	<>	192.169	1.101:1668
-------------------	----	---------	------------

Group ?		New Group	Name: Agent	
WAN Side IP Address 🏆		AirStation's W	'AN IP Address 💌 e ss: 24.69.121.33	
	🌒 All			
	ICMP			
Protocol (WAN) 💡	Manual	Protocol Number		
	TCP/UDP	Port ?	TCP Port Manual Setup Port Number: 1668	
		Manual IP Ad	dress 🛃	
LANIP Address		Manual IP Addre	ess: 192.168.1.101	
Protocol (LAN)		TCP/UDP Port Forwarding	Port Number: 1668	
Add to NAT Table				<u>Clos</u>



Router B

1. Forward the web traffic (port 80/443) from the WAN to ACTAtek behind this router.

202.125.28.55:80 <----> 192.168.0.3:80 202.125.28.55:443 <----> 192.168.0.3:443

Group ?		New Group 💌 Name: ACTAtekB		
WAN Side IP Address ?		AirStation's W	VAN IP Address	
	• All	Manual IP Addr	ess: 202.125.20.55	
	• ICMP			
Protocol (WAN) ?	Manual	Protocol Number		
	• TCP/UDP	Port ?	HTTP (TCP Port: 80)	
AN ID Address	<u>.</u>	Manual IP Ad	dress	
LAN IP Address ?		Manual IP Addr	ess: 192.168.0.3	
Protocol (LAN) 🤶		TCP/UDP Port Forwarding	Port Number: 80	
Add to NAT Table		- C.		Close



1.13. Trouble Shooting

1.13.1. Network Troubleshooting

1.13.1.1. Network basic command description:

1.13.1.1.1. Ping

Use the MS-DOS command prompt of the PC on which the ACTAtek Agent is installed to ping the target ACTAtek. For example, successful ping (command "ping x.x.x.x") will display the following messages:

1.13.1.1.2. Network reachable terminal

example:

Pinging x.x.x.x with 32 bytes of data:

- Reply from x.x.x.x: bytes=32 time=1ms TTL=225
- · Ping statistics for x.x.x.x:
- Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),
- · Approximate round trip times in milli-seconds:
- Minimum = 0ms, Maximum = 1ms, Average = 0ms

1.13.1.1.3. Network unreachable terminal

example: Pinging x.x.x.x with 32 bytes of data: Request timed out Ping statistics for x.x.x.x: Packets: Sent = 1, Received = 0, Lost = 1 (100% loss)

1.13.1.1.4. Ipconfig

From MS-DOS command prompt of the PC on which the ACTAtek Agent is installed to run a ipconfig command to obtain the PC's network information.

Ethernet adapter Local Area Connection: Connection-specific DNS suffix : IP Address: x.x.x.x Subnet Mask: x.x.x.x Default Gateway: x.x.x.x



1.13.1.1.5. Telnet

Use the MS-DOS prompt of the PC on which the ACTAtek Agent is installed to telnet to the ACTAtek Terminal. The command would be : "telnet x.x.x.x 80".

- The following messages will be displayed for successful or rejected attempts

Network reachable terminal:

- · Showing blank screen
- · press CtI-C and "Enter", following screen will show

HTTP/1.1 400 Page not found Server: GoAhead-Webs Date: xxx mmm dd hh:mm:ss yyyy Pragma: no-cache Cache-Control: no-cache Content-Type: text/html

<html><head><title>Document Error: Page not found</title></head> <body><h2>Access Error: Page not found</h2> Bad request type</body></html>

Connection to host lost.

Network unreachable terminal:

Connecting to x.x.x.x ... Could not open connection to the host, on port 80: Connect failed

A connection attempt failed because the connected party did not properly repsond after a period of time, or established connection failed because connected host has failed to respond.



1.13.1.2. Network Troubleshooting cases

1.13.1.2.1. Always show "Disconnected" in the Server List of the Terminal List using web browser

To check:

Start the ACTAtek Agent and use another computer in the SAME network to connect to the computer with the PC with the ACTAtek Agent installed. To do so, open MS-DOS command prompt, and type "telnet x.x.x.x 1668", where x.x.x.x is the IP Address of the PC with the AC-TAtek Agent installed and 1668 is the port of the ACTAtek Agent. If the connection is not successful, the firewall is enabled and must be disabled for the Agent to work.

Cause: Firewall enabled, blocking port access

Action:

• Set firewall to allow port 1668 access.

1.13.1.2.2. "FATAL: Server Thread died unexpectedly" in command prompt

Cause: A java process javaw was not cleanly started

Action:

- · From ACTAtekAgent's PC press buttons "Alt + Ctrl + Delete" to enter Task Manager.
- · Select Processes Tab
- Select javaws process and press <end process> button.
- · Start ACTAtekAgent in debug mode to check for any error:

In dos prompt type: agent -d 3

1.13.1.2.3. Symptom Login Failed in command prompt.

Cause: Wrong login information

Action:

- Go under Server List from Terminal List option of the web interface of the ACTAtek in use. Delete ALL items under the server list.
- Go to the Configurator of the Agent --> Tab ACTAteks
- Right click your mouse to re-add the ACTAtek (... Make Sure ALL information is accurate!) then, click Save.
- Right click your mouse and add ACTAtek (x.x.x., 80, http, administrator id and password, MAKE SURE THE CONTENTS ARE CORRECT, then SAVE it
- $\cdot~$ In the tab "Database", change the "Create Table SQL" content to:

CREATE TABLE ACTATEK_LOGS (userID VARCHAR(20) NOT NULL, timeentry DATETIME NOT NULL,



eventID VARCHAR(20), terminalSN VARCHAR(20) NOT NULL)

- · Also, delete the content in the "Map Photo (JPEG Binary) to Field" field.
- Go to the command prompt (Start --> Run --> cmd), change the current path to the Agent's path (example C:\ProgramFiles\Hectrix\ACTAtekAgent-1.29.1>)
- · Type "agent.exe -d 3" to restart the agent in "Debug mode"
- At the Terminal login, enter a valid userid, check the event log from the web interface to see if there are any logs for import. (with UserID, timestamp, trigger and terminalSN show in the command prompt)

1.13.1.2.4. "Connection timeout" in command prompt

Can you ping the Terminal from ACTAtekAgent's PC? If NOT.

- Verify the Terminal's and the Agent's Configurator's IP Address, protocol, port number are the same.
 - For example http default to port 80 and https default to port 443.
- · Ensure that the Terminal is powered on
- Ensure that the IP Address is UNIQUE.
- · Check Network cable is connected and the network adapter green light is flashing.



1.14. Messages and Actions:

The following are some of the common messages you might receive from the ACTAtek Agent, possible causes and recommended actions are provided for your reference. For messages not listed, please contact us at support@hectrix.com for assistance.

1.14.1. General Messages

1.14.1.1. No Trusted Certificate found

Cause:

· Configurator setting of https was set with incorrect ID/Password

Action:

· Set correct terminal id/password

1.14.1.2. Registering Primary terminal login only

Cause:

• Trying to register a secondary terminal in the Agent Configurator.

Action:

- · Set Target terminal as a standalone primary unit.
- From the configurator, remove the secondary terminal and re-add the primary terminal, if any.

1.14.1.3. login failed

Cause (1):

· ACTAtek terminal not exist

Action:

• Ensure the terminal is powered on and the ACTAtek Agent is reachable through the network to the ACTAtek Terminal. Use the PING command to confirm.

Cause (2):

· Wrong id/password

Action:

· Ensure correct terminal administrator id/password



1.14.1.4. parse time error, wrong magic

Cause:

· Wrong Magic number in the server list

Action:

• Ensure server list's magic number setting is the same as Agent's magic number.

1.14.1.5. x.x.x.x specified agent not registered

Cause:

· The terminal's server list does not have the correct Agent setting.

Action:

- Verify the terminal server list and the agent settings are the same. (2 bullet points should be just one).
- · Agent eg. Port, IP, magic number.
- · Verify the terminal server list status is "connected".
- · Verify the Agent Configurator has the appropriate terminal entry.
- · Restart the Agent to register the terminals from the Agent's Configurator list.

1.14.1.6. connection time out

Cause:

- · Terminal not accessible. For example
- · Terminal is in rebooting state
- · Terminal network is unreachable
- More than one terminal with same IP address.

Action:

- Reboot the terminal and ensure the reboot is complete and the terminal is able to authenticate users.
- · Ensure all terminals have unique IP address.
- · Ensure all terminals have correct network setting:
- · verify terminal setting eg IP, id, password, port
- reset Agent's PC mac table. Use ms dos command to clear the IP to Mac table: tarp -d



1.14.1.7. connection refused

Cause:

· Configurator terminal port entry is different from terminal port

Action:

- · Ensure configuration's terminal port entry and terminal port are the same
- · Ensure port is accessible for example: ensure port 443 is used by https:// only

1.14.1.8. read timed out

Cause:

· Terminal IP address was modified without updating configurator

Action:

· Ensure configurator's terminal IP entry is the same as terminal IP



1.14.2. Database related messages:

1.14.2.1. Start Agent failed:

1.14.2.1.1. ERROR: Create Table IO exception:

the network adapter could not establish the connection

Cause:

· Database server or Database not available

Action:

· Ensure database is running and accessible to ACTAtekAgent

1.14.2.1.2. Create Table: Invalid authorization specification

Symptom:

 \cdot message from server: "Access denied for user: 'root@hectrix' (Using password: YES)"

Cause:

· Message from Mysql database. Wrong Database Username/Password

Action:

· Re-enter Database Username/Password (case sensitive)

1.14.2.1.3. Error: LOG ERROR: Column not found

Symptom:

message from server: "Unknown column ' JpegPhoto' in field list"

Cause:

· Map field does not have corresponding map to table column

Action:

• Ensure the table's and map field columns are the same.



1.15. Reporting Problems to Support:

Before reporting any problems, please have the following information handy.

1.15.1. Basic information

- 1. Brief description of symptoms and steps done and any error messages
- Captured the message screen. To do so, press the <Alt> and <PrintScreen> buttons on your keyboard while at the command prompt or agent where the problem is and message is displayed.
 - · From Windows menu select All Programs -> Accessories -> Wordpad.
 - · Go to Start -> All Programs -> Accessories --> Wordpad
 - · Once in wordpad, hit <Ctrl><v>
 - · Save the file and email the attachment to support@hectrix.com
- 3. From the web interface, save THE ACTAtek Terminal status and setup pages OR from the ACTAtek Terminal copy down the terminal information, such as, model number, serial number, firmware version, etc.
- 4. Prepare the following files about the ACTAtekAgent
 - ActatekAgent configuration file: agent.properties
 - Iocation: C:\Documents and Settings\user1\
 - ActatekAgent log file: agent.txt and agent.log.1
 - Iocation: C:\Program Files\Hectrix\ACTAtekAgent
- 5. ACTAtek Server List status:
- 6. From the web interface, Terminal List/Server List, copy the Agent entry ie. agent IP, status, date, time

1.15.2. Customer information:

- 1. Your HECTRIX Customer Support Warranty number
- 2. Your company name and address
- 3. Name, telephone number and email of contact person

ACTAtek

1.15.3. Software information:

- 1. Operating system version
- 2. ACTAtekAgent Version
- 3. Java Runtime version (From ms-dos enter command: java -version)
- 4. ACTAtek Terminal information
 - Model Number
 - · Serial Number
 - · Firmware version
 - · FAM version

1.15.4. You should also prepare information on following:

- 1. Is this a recurring problem or one time problem?
- 2. Please provide the steps that lead to the failure or error?
- 3. Is there any non-ACTAtek equipment in use with ACTAtek Terminal?
- 4. Did you perform a Terminal reboot, ACTAtekAgent restart?
- 5. Have you made any recent changes to the ACTAtek Terminal and ACTAtekAgent setting?