

ACTatek SOAP API Manual

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Hectrix Limited

ACTAtek SOAP API Manual

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Chapter 1. Introduction

1.1. Prerequisite

This document is intended for software engineers who have basic knowledge in programming, XML and TCP/IP network.

1.2. Coverage

This document will cover ACTAtek SOAP API functions provided by ACTAtek, and a brief description on WebService Proxy generation in different languages.

1.3. SOAP

SOAP provides a XML based infrastructure for exchanging structured and typed information between peers in a decentralized, distributed environment.

1.4. Web Service Definition Language (WSDL)

WSDL, in general, is an XML file describing the details of how to call the Web Service it provides. In ACTAtek, the WSDL file can be accessed through the following URL:

`http://<deviceIP>/ACTAtek.wsdl`

Chapter 2. SOAP API Reference

Due to language independency of SOAP WebServices, the calling syntax would depend on the actual language for client implementation. Without loss of generosity, we would describe the API in terms of the function name, parameter name, parameter type, return parameter name, return type. In case of fault, the fault string will describe the what the actual problem is. For the exact definition, please refer the actual WSDL file.

General Flow of Operation

When you access any function, you need to give a session ID. The session ID can be obtained through the login function. You can execute multiple functions using the same session ID. The session ID would represent the login user during the execution process. When you finish using the service, you have to logout the session by giving the session ID for system cleanup, although, the system can expire the unused session ID for 30 minutes by default.

2.1. Datatype Definition

2.1.1. Status

<i>Element</i>	<i>Type</i>	<i>Description</i>
active	xsd:boolean	
autoMatch	xsd:boolean	
smartCard	xsd:boolean	
fingerprint	xsd:boolean	
password	xsd:boolean	

Table 1. Status Data Type Definition

2.1.2. Fingerprint

<i>Element</i>	<i>Type</i>	<i>Description</i>
image	xsd:base64Binary	Fingerprint template

Table 2. Fingerprint Data Type Definition

2.1.3. FingerprintArray

<i>Element</i>	<i>Type</i>	<i>Description</i>
fingerprint	ns:fingerprint	Array of fingerprint templates

Table 3.FingerprintArray Data Type Definition

2.1.4. Department

<i>Element</i>	<i>Type</i>	<i>Description</i>
departmentID	xsd:int	
departmentName	xsd:string	
departmentDescription	xsd:string	

Table 4.Department Data Type Definition

2.1.5. DepartmentArray

<i>Element</i>	<i>Type</i>	<i>Description</i>
department	ns:Department	

Table 5.DepartmentArray Data Type Definition

2.1.6. Weekday

<i>Element</i>	<i>Type</i>	<i>Description</i>
Weekday	enum { SUNDAY, MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY, HOLIDAY }	

Table 6.Weekday Data Type Definition

2.1.7. Timespec

<i>Element</i>	<i>Type</i>	<i>Description</i>
weekday	xsd:Weekday[]	
timePattern	xsd:string	

Table 7.Timespec Data Type Definition

Element: timePattern (string) (48-byte strings of '0'(off) and/or '1'(on))

Remark: First byte representing timeslot [00:00-00:29], 2nd byte [00:30-00:59] etc.

2.1.8. AccessRight

<i>Element</i>	<i>Type</i>	<i>Description</i>
accessID	xsd:int	
terminalSN	xsd:string	
quickAccess	xsd:boolean	
timeSpec	ns:Timespec	

Table 8.AccessRight Data Type Definition**2.1.9. Group**

<i>Element</i>	<i>Type</i>	<i>Description</i>
groupID	xsd:int	
groupName	xsd:string	
departmentID	xsd:int	
accessRight	ns:AccessRight	

Table 9.Group Data Type Definition**2.1.10. GroupArray**

<i>Element</i>	<i>Type</i>	<i>Description</i>
group	ns:Group	

Table 10.GroupArray Data Type Definition**2.1.11. AdminLevel**

<i>Element</i>	<i>Type</i>	<i>Description</i>
AdminLevel	xsd:enum { PERSONALUSER, NETWORKADMIN, USERADMIN, SUPERADMIN }	

Table 11.AdminLevel Data Type Definition

2.1.12. FingerprintSecurityLevel

<i>Element</i>	<i>Type</i>	<i>Description</i>
FingerprintSecurityLevel	xsd:enum { LOW, NORMAL, HIGH, HIGHEST }	

Table 12.FingerprintSecurityLevel Data Type Definition

2.1.13. User

<i>Element</i>	<i>Type</i>	<i>Description</i>
userID	xsd:string	User ID
lastName	xsd:string	Last name
firstName	xsd:string	First name
otherName	xsd:string	Other name
usePassword	xsd:boolean	Enable password verification
password	xsd:string	Password for login and verification
adminLevel	xsd:AdminLevel	Administration level
groupID	xsd:int[]	Access Group ID
departmentID	xsd:int[]	Department ID
fingerprintSecurityLevel	xsd:FingerprintSecurityLevel	Fingerprint security level
status	xsd:Status	
fingerprints	xsd:Fingerprint[]	Array of fingerprint template
cardsn	xsd:string	Smartcard serial number
fpgroupid	xsd:int	FP group id max value of 255

Table 13.User Data Type Definition

2.1.14. UserArray

<i>Element</i>	<i>Type</i>	<i>Description</i>
user	ns:User	

Table 14.UserArray Data Type Definition

2.1.15. userID

<i>Element</i>	<i>Type</i>	<i>Description</i>
userID	xsd:string	User ID

Table 15.userID Data Type Definition

2.1.16. UserIDArray

<i>Element</i>	<i>Type</i>	<i>Description</i>
uids	ns:userID	

Table 16.UserIDArray Data Type Definition

2.1.17. TriggerType

<i>Element</i>	<i>Type</i>	<i>Description</i>
triggerType	xsd:enum { _UNKNOWN, _IN, _OUT, _F1, _F2, _F3, _F4, _F5, _F6, _F7, _F8, _F9, _F10 }	

Table 17.TriggerType Data Type Definition

2.1.18. Trigger

<i>Element</i>	<i>Type</i>	<i>Description</i>
triggerType	xsd:triggerType	
triggerName	xsd:string	
timeSpec	xsd:Timespec	

Table 18.Trigger Data Type Definition

2.1.19. TriggerArray

<i>Element</i>	<i>Type</i>	<i>Description</i>
trigger	ns:Trigger	

Table 19.TriggerArray Data Type Definition

2.1.20. eventType

<i>Element</i>	<i>Type</i>	<i>Description</i>
eventType	enum: { UNKNOWN, IN, OUT, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, ID_UNKNOWN, REJECTED, ID_RESERVED, RESET_ALL, RESET_ACC, RESET_DEVICE, RESET_PASSWORD, RESET_DEFAULT, SYSTEM_LOGIN, ADMIN_LOGIN, USER_LOGIN, NETWORK_CHANGE, PATCHED, BACKUP_DB, RESTORE_DB, SYSTEM_RSVD, ENROLL_USER, UPDATE_USER, REMOVE_USER, SUSPEND_USER, EDIT_EVENT, RESET_ADMIN_PW, ADMIN_RSVD }	

Table 20.eventType Data Type Definitaion

2.1.21. Log

<i>Element</i>	<i>Type</i>	<i>Description</i>
logID	xsd:long	
userID	xsd:string	
timestamp	xsd:dateTime	
trigger	xsd:eventType	
terminalSN	xsd:string	

Table 21.Log Data Type Definition

2.1.22. LogArray

<i>Element</i>	<i>Type</i>	<i>Description</i>
log	ns:Log	

Table 22.LogArray Data Type Definition

2.1.23. LogDetail

<i>Element</i>	<i>Type</i>	<i>Description</i>
logID	xsd:long	
userID	xsd:string	
userName	xsd:string	[first name] [last name]
departmentName	xsd:string	
timestamp	xsd:dateTime	
trigger	xsd:eventType	
terminalSN	xsd:string	
terminalName	xsd:string	
jpegPhoto	xsd:base64binary	
remark	xsd:string	

Table 23.LogDetail Data Type Definition

2.1.24. LogDetailArray

<i>Element</i>	<i>Type</i>	<i>Description</i>
log	ns:LogDetail	

Table 24.LogDetailArray Data Type Definition

2.1.25. *getLogsCriteria*

<i>Element</i>	<i>Type</i>	<i>Description</i>
from	xsd:dateTime	
to	xsd:dateTime	
employeeName	xsd:string	
employeeID	xsd:string	
departmentID	xsd:int	
trigger	xsd:eventType	
terminalSN	xsd:string	

Table 25.getLogsCriteria Data Type Definition

2.1.26. *getUsersCriteria*

<i>Element</i>	<i>Type</i>	<i>Description</i>
userID	xsd:string	
partialUserID	xsd:string	
lastName	xsd:string	
firstName	xsd:string	
otherName	xsd:string	
departmentID	xsd:int	

Table 26.getUsersCriteria Data Type Definition

2.1.27. *getGroupsCriteria*

<u><i>Element</i></u>	<u><i>Type</i></u>	<u><i>Description</i></u>
<u>groupID</u>	<u>xsd:int</u>	
<u>departmentID</u>	<u>xsd:int</u>	

Table 27.getGroupsCriteria Data Type Definition

2.1.28. *getTriggersCriteria*

<i>Element</i>	<i>Type</i>	<i>Description</i>
triggerType	ns:triggerType	

Table 28.getTriggersCriteria Data Type Definition

2.1.29. Agent

<i>Element</i>	<i>Type</i>	<i>Description</i>
port	xsd:int	
ip	xsd:string	
registrationTime	xsd:dateTime	
lastUpdate	xsd:dateTime	
lastCheck	xsd:dateTime	
lastCheckStatus	xsd:boolean	
active	xsd:boolean	
link	xsd:string	

Table 29.Agent Data Type Definition

2.1.30. AgentArray

<i>Element</i>	<i>Type</i>	<i>Description</i>
agents	ns:Agent	

Table 30.AgentArray Data Type Definition

2.1.31. TerminalStatus

<i>Element</i>	<i>Type</i>	<i>Description</i>
modelName	xsd:string	
serialNumber	xsd:string	
firmwareVersion	xsd:string	
FAMVersion	xsd:string	
description	xsd:string	
registeredUsers	xsd:int	
maximumUsers	xsd:int	
automatchUsers	xsd:int	
maxiumAutomatchUsers	xsd:int	

Table 31.TerminalStatus Data Type Definition

2.1.32. Terminal

<i>Element</i>	<i>Type</i>	<i>Description</i>
terminalID	xsd:int	
terminalType	xsd:string	
terminalName	xsd:string	
terminalSN	xsd:string	
terminalIP	xsd:string	

Table 32.Terminal Data Type Definition

2.1.33. TerminalArray

<i>Element</i>	<i>Type</i>	<i>Description</i>
terminal	ns:Terminal	
size	int	

Table 33.TerminalArray Data Type Definition

2.1.34. AutoInOutOption

<i>Element</i>	<i>Type</i>	<i>Description</i>
AutoInOutOption	enum: { DISABLE, ENABLE, SPECIAL, REJECTREPEATEDLOGIN }	

Table 34.AutoInOutOption Data Type Definition

2.1.35. RelayID

<i>Element</i>	<i>Type</i>	<i>Description</i>
RelayID	enum: { ONE, TWO, ALL }	

Table 35.RelayID Data Type Definition

2.1.36. RelayOption

<i>Element</i>	<i>Type</i>	<i>Description</i>
RelayOption	enum: { RELAY-DISABLE, ACCESS-GRANTED, ACCESS-DENIED, DOORBELL, BELLSCHEDULE }	Relay One only able to set RELAY-DISABLE or ACCESS-GRANTED

Table 36. RelayOption Data Type Definition

2.1.37. JobCodeSettings

<i>Element</i>	<i>Type</i>	<i>Description</i>
jobcode	xsd : int	
jobcodeName	xsd : string	Name or Description
enable	xsd : int	

Table 37. JobCodeSettings Data Type Definition

2.1.38. JobCodeSettingsArray

<i>Element</i>	<i>Type</i>	<i>Description</i>
ptrjobcodesettings	ns : JobCodeSettings	Array of JobCodeSettings
size	xsd : int	Size of Array

Table 38. JobCodeSettingsArray Data Type Definition

2.1.39. JobCode

<i>Element</i>	<i>Type</i>	<i>Description</i>
JobCodeID	xsd : int	Int value minimum value of 1 maximum of 999999
JobCodeDescription	xsd : string	Description
enable	xsd : int	Bit 0: <ul style="list-style-type: none"> ● 0 : IN ● 1 : OUT Bit 1: <ul style="list-style-type: none"> ● 0 : Normal ● 1 : Default Bit 2: <ul style="list-style-type: none"> ● 0 : Enabled ● 1 : Disabled
jobcode	xsd : int	Jobcode value from jobcodesettings

Table 39.JobCode Data Type Definition

2.1.40. JobCodeArray

<i>Element</i>	<i>Type</i>	<i>Description</i>
ptrjobcodes	ns : JobCode	Array of JobCode
size	xsd : string	Size of Array

Table 40.JobCodeArray Data Type Definition

2.2. SOAP API

2.2.1. Session Establishment

2.2.1.1. login

2.2.1.1.1. Arguments

- **username**, xsd:string
- **password**, xsd:string

2.2.1.1.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:login>
      <username></username>
      <password></password>
    </ns:login>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.1.1.3. Return

- **sessionID**, xsd: long

2.2.1.2. logout

2.2.1.2.1. Arguments

- **sessionID**, xsd:long

2.2.1.2.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```

xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:logout>
    <sessionID>0</sessionID>
  </ns:logout>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.1.2.3. Return

- **status**, xsd: string

2.2.2. Log Management

2.2.2.1. getLogs

2.2.2.1.1. Arguments

- **sessionID**, xsd:long
- **getLogsCriteria**, xsd:getLogsCriteria

2.2.2.1.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getLogs>
      <sessionID>0</sessionID>
      <getLogsCriteria>
        <from>2005-08-22T10:25:59Z</from>
        <to>2005-08-22T10:25:59Z</to>
        <employeeName></employeeName>
        <employeeID></employeeID>
        <departmentID>0</departmentID>
        <trigger>UNKNOWN</trigger>
        <terminalSN></terminalSN>
      </getLogsCriteria>
    </ns:getLogs>

```

```
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.2.1.3. Return

- **logs**, xsd:LogArray[]

2.2.2.2. getFullLogs

2.2.2.2.1. Arguments

- **sessionID**, xsd:long
- **getLogsCriteria**, xsd:getLogsCriteria

2.2.2.2.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getFullLogs>
      <sessionID>0</sessionID>
      <getLogsCriteria>
        <from>2006-09-22T09:30:08Z</from>
        <to>2006-09-22T09:30:08Z</to>
        <employeeName></employeeName>
        <employeeID></employeeID>
        <departmentID>0</departmentID>
        <trigger>UNKNOWN</trigger>
        <terminalSN></terminalSN>
      </getLogsCriteria>
      <limit>0</limit>
    </ns:getFullLogs>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.2.2.3. Return

- **logs**, xsd:LogDetailArray[]

2.2.2.3. *getLogPhoto*

2.2.2.3.1. *Arguments*

- **sessionID**, xsd:long
- **terminalSN**, xsd:string
- **timestamp**, xsd:dateTime

2.2.2.3.2. *WSDL*

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getLogPhoto>
      <sessionID>0</sessionID>
      <terminalSN></terminalSN>
      <timestamp></timestamp>
    </ns:getLogPhoto>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.2.3.3. *Return*

- **jpegPhoto**, xsd:base64Binary

2.2.2.4. *addLog*

2.2.2.4.1. *Arguments*

- **sessionID**, xsd:long
- **timestamp**, xsd:dateTime
- **employeeID**, xsd:string
- **event**, xsd:eventType
- **terminalSN**, xsd:string

2.2.2.4.2. *WSDL*

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
```

```

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:addLog>
    <sessionID>0</sessionID>
    <timestamp></timestamp>
    <employeeID></employeeID>
    <event>UNKNOWN</event>
    <terminalSN></terminalSN>
  </ns:addLog>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.2.4.3. Return

- **status**, xsd:string

2.2.2.5. deleteLogs

(since 29.11)

Delete all logs, keeping only those added since *daysToKeep* days from today (00:00:00, local time today).

2.2.2.5.1. Arguments

- **sessionID**, xsd:long
- **daysToKeep**, the number of days from today, the logs will not be deleted. It cannot be > 366. Value of 0 will not delete those logs added today. To delete all logs use resetLog

2.2.2.5.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:deleteLogs>
      <sessionID>0</sessionID>
      <daysToKeep>0</daysToKeep>
    </ns:deleteLogs>
  </SOAP-ENV:Body>

```



```
</SOAP-ENV:Envelope>
```

2.2.2.5.3. Return

- **status**, xsd:string

2.2.2.6. resetLog

2.2.2.6.1. Arguments

- **sessionID**, xsd:long

2.2.2.6.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:resetLog>
      <sessionID>0</sessionID>
    </ns:resetLog>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.2.6.3. Return

- **status**, xsd:string

2.2.3. User Management

2.2.3.1. addUser

2.2.3.1.1. Arguments

- **sessionID**, xsd:long
- **user**, xsd:User

2.2.3.1.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
```

```

xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:addUser>
    <sessionID>0</sessionID>
    <user>
      <userID></userID>
      <lastName></lastName>
      <firstName></firstName>
      <otherName></otherName>
      <adminLevel>PERSONALUSER</adminLevel>
      <usePassword>>false</usePassword>
      <password></password>
      <groupID>0</groupID>
      <departmentID>0</departmentID>
      <fingerprintSecurityLevel>LOW</fingerprintSecurityLevel>
      <status>
        <active>>false</active>
        <autoMatch>>false</autoMatch>
        <smartCard>>false</smartCard>
        <fingerprint>>false</fingerprint>
        <password>>false</password>
      </status>
      <fingerprints>
        <fingerprint>
          <image></image>
        </fingerprint>
      </fingerprints>
      <cardsn></cardsn>
    </user>
  </ns:addUser>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.3.1.3. Return

- **userID**, xsd:string

2.2.3.2. addUsers

2.2.3.2.1. Arguments

- **sessionID**, xsd:long
- **users**, xsd:UserArray

2.2.3.2.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:addUsers>
      <sessionID>0</sessionID>
      <users>
        <user>
          <userID></userID>
          <lastName></lastName>
          <firstName></firstName>
          <otherName></otherName>
          <adminLevel>PERSONALUSER</adminLevel>
          <usePassword>>false</usePassword>
          <password></password>
          <groupID>0</groupID>
          <departmentID>0</departmentID>
          <fingerprintSecurityLevel>LOWEST</fingerprintSecurityLevel>
          <status>
            <active>>false</active>
            <autoMatch>>false</autoMatch>
            <smartCard>>false</smartCard>
            <fingerprint>>false</fingerprint>
            <password>>false</password>
          </status>
          <fingerprints
            <fingerprint>
              <image></image>
```

```

    </fingerprint>
  </fingerprints>
  <cardsn></cardsn>
</user>
</users>
</ns:addUsers>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.3.2.3. Return

- **uids**, xsd:UserIDArray

2.2.3.3. getUsers

2.2.3.3.1. Arguments

- **sessionID**, xsd:long
- **getUsersCriteria**, xsd:getUsersCriteria

2.2.3.3.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getUsers>
      <sessionID>0</sessionID>
      <getUsersCriteria>
        <userID></userID>
        <partialUserID></partialUserID>
        <lastName></lastName>
        <firstName></firstName>
        <otherName></otherName>
        <departmentID>0</departmentID>
      </getUsersCriteria>
    </ns:getUsers>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.3.3.3. Return

- **users**, xsd:UserArray

2.2.3.4. updateUser**2.2.3.4.1. Arguments**

- **sessionID**, xsd:long
- **userID**, xsd:string
- **user**, xsd:User

2.2.3.4.2. WSDL

```
<<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:updateUser>
      <sessionID>0</sessionID>
      <userID></userID>
      <user>
        <userID></userID>
        <lastName></lastName>
        <firstName></firstName>
        <otherName></otherName>
        <adminLevel>PERSONALUSER</adminLevel>
        <usePassword>>false</usePassword>
        <password></password>
        <groupID>0</groupID>
        <departmentID>0</departmentID>
        <fingerprintSecurityLevel>LOW</fingerprintSecurityLevel>
        <status>
          <active>>false</active>
          <autoMatch>>false</autoMatch>
          <smartCard>>false</smartCard>
          <fingerprint>>false</fingerprint>
          <password>>false</password>
        </status>
        <fingerprints
```

```

<fingerprint>
  <image></image>
</fingerprint>
</fingerprints>
<cardsn></cardsn>
</user>
</ns:updateUser>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.3.4.3. Return

- **status**, xsd:string

2.2.3.5. updateUsers

2.2.3.5.1. Arguments

- **sessionID**, xsd:long
- **uids**, xsd:UserIDArray
- **users**, xsd:UserArray

2.2.3.5.2. WSDL

```

<<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:updateUsers>
    <sessionID>0</sessionID>
    <uids>
      <userID>
        <userID></userID>
      </userID>
    </uids>
    <users>
      <user>
        <userID></userID>
        <lastName></lastName>
        <firstName></firstName>

```

```

<otherName></otherName>
<adminLevel>PERSONALUSER</adminLevel>
<usePassword>>false</usePassword>
<password></password>
<groupID>0</groupID>
<departmentID>0</departmentID>
<fingerprintSecurityLevel>LOWEST</fingerprintSecurityLevel>
<status>
  <active>>false</active>
  <autoMatch>>false</autoMatch>
  <smartCard>>false</smartCard>
  <fingerprint>>false</fingerprint>
  <password>>false</password>
</status>
<fingerprints
  <fingerprint>
    <image></image>
  </fingerprint>
</fingerprints>
<cardsn></cardsn>
</user>
</users>
</ns:updateUsers>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.3.5.3. Return

- **status**, xsd:string

2.2.3.6. deleteUser

2.2.3.6.1. Arguments

- **sessionID**, xsd:long
- **userID**, xsd:string

2.2.3.6.2. WSDL

```

?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

```

```

xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:deleteUser>
    <sessionID>0</sessionID>
    <userID></userID>
  </ns:deleteUser>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.3.6.3. Return

- **status**, xsd:string

2.2.3.7. activateUser

2.2.3.7.1. Arguments

- **sessionID**, xsd:long
- **userID**, xsd:string

2.2.3.7.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:activateUser>
      <sessionID>0</sessionID>
      <userID></userID>
    </ns:activateUser>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.3.7.3. Return

- **status**, xsd:string

2.2.3.8. deactivateUser

2.2.3.8.1. Arguments

- **sessionID**, xsd:long

- **userID**, xsd:string

2.2.3.8.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:deactivateUser>
      <sessionID>0</sessionID>
      <userID></userID>
    </ns:deactivateUser>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.3.8.3. Return

- **status**, xsd:string

2.2.3.9. getUserMessage

2.2.3.9.1. Arguments

- **sessionID**, xsd:long
- **userID**, xsd:string

2.2.3.9.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getUserMessage>
      <sessionID>0</sessionID>
      <userID></userID>
    </ns:getUserMessage>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.3.9.3. Return

- **message**, xsd:string

2.2.3.10. updateUserMessage**2.2.3.10.1. Arguments**

- **sessionID**, xsd:long
- **userID**, xsd:string
- **message**, xsd:string

2.2.3.10.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:updateUserMessage>
      <sessionID>0</sessionID>
      <userID></userID>
      <message></message>
    </ns:updateUserMessage>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.3.10.3. Return

- **status**, xsd:string

2.2.3.11. deleteUserMessage**2.2.3.11.1. Arguments**

- **sessionID**, xsd:long
- **userID**, xsd:string

2.2.3.11.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```

xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:deleteUserMessage>
    <sessionID>0</sessionID>
    <userID></userID>
  </ns:deleteUserMessage>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.3.11.3. Return

- **status**, xsd:string

2.2.4. Department Management

2.2.4.1. addDepartment

2.2.4.1.1. Arguments

- **sessionID**, xsd:long
- **department**, xsd:Department

2.2.4.1.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:addDepartment>
      <sessionID>0</sessionID>
      <department>
        <departmentID>0</departmentID>
        <departmentName></departmentName>
        <departmentDescription></departmentDescription>
      </department>
    </ns:addDepartment>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.4.1.3. Return

- **departmentID**, xsd:int

2.2.4.2. updateDepartment**2.2.4.2.1. Arguments**

- **sessionID**, xsd:long
- **departmentID**, xsd:int
- **department**, xsd:Department

2.2.4.2.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:updateDepartment>
      <sessionID>0</sessionID>
      <departmentID>0</departmentID>
      <department>
        <departmentID>0</departmentID>
        <departmentName></departmentName>
        <departmentDescription></departmentDescription>
      </department>
    </ns:updateDepartment>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.4.2.3. Return

- **status**, xsd:string

2.2.4.3. getDepartments**2.2.4.3.1. Arguments**

- **sessionID**, xsd:long
- **departmentID**, xsd:int

2.2.4.3.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getDepartments>
      <sessionID>0</sessionID>
      <departmentID>0</departmentID>
    </ns:getDepartments>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.4.3.3. Return

- **departments**, xsd:Department[]

2.2.4.4. deleteDepartment

2.2.4.4.1. Arguments

- **sessionID**, xsd:long
- **departmentID**, xsd:int

2.2.4.4.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:deleteDepartment>
      <sessionID>0</sessionID>
      <departmentID>0</departmentID>
    </ns:deleteDepartment>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.4.4.3. Return

- **status**, xsd:string

2.2.5. Access Group Management**2.2.5.1. addGroup****2.2.5.1.1. Arguments**

- **sessionID**, xsd:long
- **group**, xsd:Group

2.2.5.1.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:addGroup>
      <sessionID>0</sessionID>
      <group>
        <groupID>0</groupID>
        <groupName></groupName>
        <departmentID>0</departmentID>
        <accessRight>
          <accessID>0</accessID>
          <terminalSN></terminalSN>
          <quickAccess>>false</quickAccess>
          <timeSpec>
            <weekday>SUNDAY</weekday>
            <timePattern></timePattern>
          </timeSpec>
        </accessRight>
      </group>
    </ns:addGroup>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.5.1.3. Return

- **groupID**, xsd:int

2.2.5.2. getGroups**2.2.5.2.1. Arguments**

- **sessionID**, xsd:long
- **getGroupsCriteria**, xsd:getGroups

2.2.5.2.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getGroups>
      <sessionID>0</sessionID>
      <getGroupsCriteria>
        <groupID>0</groupID>
        <departmentID>0</departmentID>
      </getGroupsCriteria>
    </ns:getGroups>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.5.2.3. Return

- **groups**, xsd:Group[]

2.2.5.3. updateGroup**2.2.5.3.1. Arguments**

- **sessionID**, xsd:long
- **groupID**, xsd:int
- **group**, xsd:Group

2.2.5.3.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
```

```

xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:updateGroup>
    <sessionID>0</sessionID>
    <groupID>0</groupID>
    <group>
      <groupID>0</groupID>
      <groupName></groupName>
      <departmentID>0</departmentID>
      <accessRight>
        <accessID>0</accessID>
        <terminalSN></terminalSN>
        <quickAccess>false</quickAccess>
        <timeSpec>
          <weekday>SUNDAY</weekday>
          <timePattern></timePattern>
        </timeSpec>
      </accessRight>
    </group>
  </ns:updateGroup>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.5.3.3. Return

- **status**, xsd:string

2.2.5.4. deleteGroup

2.2.5.4.1. Arguments

- **sessionID**, xsd:long
- **groupID**, xsd:int

2.2.5.4.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

```



```

xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:deleteGroup>
    <sessionID>0</sessionID>
    <groupID>0</groupID>
  </ns:deleteGroup>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.5.4.3. Return

- **status**, xsd:string

2.2.6. Trigger Maintenance Functions

2.2.6.1. getTriggers

2.2.6.1.1. Arguments

- sessionID, xsd:long
- getTriggersCriteria, xsd:getTriggersCriteria

2.2.6.1.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getTriggers>
      <sessionID>0</sessionID>
      <getTriggersCriteria>
        <triggerType>UNKNOWN</triggerType>
      </getTriggersCriteria>
    </ns:getTriggers>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.6.1.3. Return

- triggers, xsd:Trigger[]


```

    <timePattern></timePattern>
  </timeSpec>
</trigger>
</ns:updateTrigger>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.6.2.3. Return

- **status**, xsd:string

2.2.6.3. clearTrigger

2.2.6.3.1. Arguments

- sessionID, xsd:long
- trigger, xsd:Trigger

2.2.6.3.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:clearTrigger>
      <sessionID>0</sessionID>
      <triggerType>UNKNOWN</triggerType>
    </ns:clearTrigger>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.6.3.3. Return

- **status**, xsd:string

2.2.7. Personal Functions

2.2.7.1. getMyself

2.2.7.1.1. Arguments

- **sessionID**, xsd:long

2.2.7.1.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getMyself>
      <sessionID>0</sessionID>
    </ns:getMyself>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.7.1.3. Return

- **user**, xsd:user

2.2.7.2. updateMyself**2.2.7.2.1. Arguments**

- **sessionID**, xsd:long
- **user**, xsd:User

2.2.7.2.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:updateMyself>
      <sessionID>0</sessionID>
      <user>
        <userID></userID>
        <lastName></lastName>
        <firstName></firstName>
        <otherName></otherName>
        <adminLevel>PERSONALUSER</adminLevel>
      </user>
    </ns:updateMyself>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

```

<usePassword>>false</usePassword>
<password></password>
<groupID>0</groupID>
<departmentID>0</departmentID>
<fingerprintSecurityLevel>LOW</fingerprintSecurityLevel>
<status>
  <active>>false</active>
  <autoMatch>>false</autoMatch>
  <smartCard>>false</smartCard>
  <fingerprint>>false</fingerprint>
  <password>>false</password>
</status>
<fingerprints
  <fingerprint>
    <image></image>
  </fingerprint>
</fingerprints>
<cardsn></cardsn>
</user>
</ns:updateMyself>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.7.2.3. Return

- **status**, xsd:string

2.2.8. Agent

2.2.8.1. registerAgent

2.2.8.1.1. Arguments

- **sessionID**, xsd:long
- **ip**, xsd:string
- **port**, xsd:int
- **agentVersion**, xsd:string
- **magic**, xsd:string
- **registrationID**, xsd:int
- **initSync**, xsd:boolean

2.2.8.1.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:registerAgent>
      <sessionID>0</sessionID>
      <ip></ip>
      <port>0</port>
      <agentVersion></agentVersion>
      <magic></magic>
      <registrationID></registrationID>
      <initSync>false</initSync>
    </ns:registerAgent>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.8.1.3. Return

- **status**, xsd:string

2.2.8.2. unregisterAgent

2.2.8.2.1. Arguments

- **sessionID**, xsd:long
- **ip**, xsd:string
- **port**, xsd:int

2.2.8.2.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:unregisterAgent>
      <sessionID>0</sessionID>
      <ip></ip>

```

```
<port>0</port>
</ns:unregisterAgent>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.8.2.3. Return

- **status**, xsd:string

2.2.8.3. getRegisteredAgents

2.2.8.3.1. Arguments

- **sessionID**, xsd:long

2.2.8.3.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getRegisteredAgents>
      <sessionID>0</sessionID>
    </ns:getRegisteredAgents>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.8.3.3. Return

- **agents**, xsd:Agent[]

2.2.9. Time Settings

2.2.9.1. getSNTP

Check if SNTP server is enabled or disabled

2.2.9.1.1. Arguments

- **sessionID**, xsd:long

2.2.9.1.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
```

```

xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:getSNTP>
    <ns:sessionID>0</ns:sessionID>
  </ns:getSNTP>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.9.1.3. Return

- **enable**, xsd:boolean
true if SNTP enabled, false if disabled

2.2.9.2. setSNTP

To enable or disable SNTP server

2.2.9.2.1. Arguments

- **sessionID**, xsd:long
- **enable**, xsd:boolean
true if SNTP enabled, false if disabled

2.2.9.2.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:setSNTP>
      <ns:sessionID>0</ns:sessionID>
      <ns:enable>>false</ns:enable>
    </ns:setSNTP>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.9.2.3. Return

- **status**, xsd:string

2.2.9.3. **getSNTPServer**

To get SNTP server IP address

2.2.9.3.1. **Arguments**

- **sessionID**, xsd:long

2.2.9.3.2. **WSDL**

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getSNTPServer>
      <ns:sessionID>0</ns:sessionID>
    </ns:getSNTPServer>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.9.3.3. **Return**

- **serveraddr**, xsd:string
SNTP server IP address

2.2.9.4. **setSNTPServer**

To set SNTP server IP address

2.2.9.4.1. **Arguments**

- **sessionID**, xsd:long
- **serveraddr**, xsd:string
SNTP server IP address

2.2.9.4.2. **WSDL**

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```

xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:setSNTPServer>
    <ns:sessionID>0</ns:sessionID>
    <ns:serveraddr></ns:serveraddr>
  </ns:setSNTPServer>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.9.4.3. Return

- **status**, xsd:string
- errorSNTP server unreachable, if the address cannot be resolved.

2.2.9.5. *getTerminalDateTime*

To get date time in the terminal

2.2.9.5.1. Arguments

- **sessionID**, xsd:long

2.2.9.5.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getTerminalDateTime>
      <ns:sessionID>0</ns:sessionID>
    </ns:getTerminalDateTime>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.9.5.3. Return

- **seconds**, xsd:datetime
timestamp of terminal in UTC

2.2.9.6. *setTerminalDateTime*

To set date time in the terminal

2.2.9.6.1. *Arguments*

- **sessionID**, xsd:long
- **seconds**, xsd:datetime
timestamp of terminal in UTC

2.2.9.6.2. *WSDL*

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:setTerminalDateTime>
      <ns:sessionID>0</ns:sessionID>
      <ns:terminalDate></ns:terminalDate>
    </ns:setTerminalDateTime>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.9.6.3. *Return*

- **status**, xsd:string

2.2.9.7. *getTimeZone*

To get time zone in the terminal

2.2.9.7.1. *Arguments*

- **sessionID**, xsd:long

2.2.9.7.2. *WSDL*

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
```

```

xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:getTimeZone>
    <ns:sessionID>0</ns:sessionID>
  </ns:getTimeZone>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.9.7.3. Return

- **timezone ID**, xsd:string
Olson timezone ID (see the table in Chapter 7)

2.2.9.8. setTimeZone

To get time zone in the terminal

2.2.9.8.1. Arguments

- **sessionID**, xsd:long
- **timezone ID**, xsd:string
Olson timezone ID (see the table in Chapter 7)

2.2.9.8.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:setTimeZone>
      <ns:sessionID>0</ns:sessionID>
      <ns:timezone></ns:timezone>
    </ns:setTimeZone>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.9.8.3. Return

- **status**, xsd:string

2.2.10. Misc Functions

2.2.10.1. openDoor

2.2.10.1.1. Arguments

- **sessionID**, xsd:long
- **doorID**, xsd:int

2.2.10.1.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:openDoor>
      <sessionID>0</sessionID>
      <doorID>0</doorID>
    </ns:openDoor>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.10.1.3. Return

- **status**, xsd:string

2.2.10.2. getAPIVersion

2.2.10.2.1. Arguments

- NA

2.2.10.2.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getAPIVersion>
```

```

</ns:getAPIVersion>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.10.2.3. Return

- **version**, xsd:string

2.2.10.3. getTerminalList

2.2.10.3.1. Arguments

- **sessionID**, xsd:long

2.2.10.3.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getTerminalList>
      <sessionID>0</sessionID>
    </ns:getTerminalList>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.10.3.3. Return

- **terminalList**, xsd:Terminal[]

2.2.10.4. getTerminalStatus

2.2.10.4.1. Arguments

- **sessionID**, xsd:long

2.2.10.4.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">

```

```
<SOAP-ENV:Body>
  <ns:getTerminalStatus>
    <sessionID>0</sessionID>
  </ns:getTerminalStatus>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.10.4.3. Return

- **terminalStatus**, xsd:terminalStatus[]

2.2.10.5. openRelay

2.2.10.5.1. Arguments

- **sessionID**, xsd:long
- **relayID**, ns:RelayID

2.2.10.5.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:openRelay>
      <sessionID>0</sessionID>
      <relayID>ONE</relayID>
    </ns:openRelay>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.10.5.3. Return

- **status**, xsd:string

2.2.10.6. closeRelay

2.2.10.6.1. Arguments

- **sessionID**, xsd:long
- **relayID**, ns:RelayID

2.2.10.6.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:closeRelay>
      <sessionID>0</sessionID>
      <relayID>ONE</relayID>
    </ns:closeRelay>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.10.6.3. Return

- **status**, xsd:string

2.2.10.7. systemBackup

2.2.10.7.1. Arguments

- **sessionID**, xsd:long

2.2.10.7.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:systemBackup>
      <sessionID>0</sessionID>
    </ns:systemBackup>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.10.7.3. Return

- **data**, xsd:base64binary

2.2.10.8. systemRestore

2.2.10.8.1. Arguments

- **sessionID**, xsd:long
- **data**, xsd:base64binary

2.2.10.8.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:systemRestore>
      <sessionID>0</sessionID>
      <ns:systemData></ns:systemData>
    </ns:systemRestore>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.10.8.3. Return

- **status**, xsd:string

2.2.11. Terminal Settings

2.2.11.1. setFPSecurityLevel

2.2.11.1.1. Arguments

- **sessionID**, xsd:long
- **fpSecurityLevel**, xsi:ns1:FingerprintSecurityLevel

2.2.11.1.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
```

```

<SOAP-ENV:Body>
  <ns:setFpSecurityLevel>
    <sessionID>0</sessionID>
    <ns:fpSecurityLevel>LOW</ns:fpSecurityLevel>
  </ns:setFpSecurityLevel>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.11.1.3. Return

- **status**, xsd:string

2.2.11.2. getFPSecurityLevel

2.2.11.2.1. Arguments

- **sessionID**, xsd:long

2.2.11.2.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getFpSecurityLevel>
      <sessionID>0</sessionID>
    </ns:getFpSecurityLevel>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.11.2.3. Return

- **fpSecurityLevel**, xsi:ns1:FingerprintSecurityLevel

2.2.11.3. setRelayOption

2.2.11.3.1. Arguments

- **sessionID**, xsd:long
- **relayID**, ns:RelayID
- **relayOpt**, ns:RelayOption

2.2.11.3.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:setRelayOption>
      <sessionID>0</sessionID>
      <relayID>ONE</relayID>
      <relayOpt>RELAY-DISABLE</relayOpt>
    </ns:setRelayOption>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.11.3.3. Return

- **status**, xsd:string

2.2.11.4. getRelayOption**2.2.11.4.1. Arguments**

- **sessionID**, xsd:long
- **relayID**, ns:RelayID

2.2.11.4.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getRelayOption>
      <sessionID>0</sessionID>
      <relayID>ONE</relayID>
    </ns:getRelayOption>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.11.4.3. Return

- **relayOpt**, ns:RelayOption

2.2.11.5. setRelayDelay**2.2.11.5.1. Arguments**

- **sessionID**, xsd:long
- **relayID**, ns:RelayID
- **sec**, xsd:int

2.2.11.5.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:setRelayDelay>
      <sessionID>0</sessionID>
      <relayID>ONE</relayID>
      <sec>0</sec>
    </ns:setRelayDelay>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.11.5.3. Return

- **status**, xsd:string

2.2.11.6. getRelayDelay**2.2.11.6.1. Arguments**

- **sessionID**, xsd:long
- **relayID**, ns:RelayID

2.2.11.6.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
```

```

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:getRelayDelay>
    <sessionID>0</sessionID>
    <relayID>ONE</relayID>
  </ns:getRelayDelay>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.11.6.3. Return

- **sec**, xsd:int

2.2.11.7. setAutoInOut

2.2.11.7.1. Arguments

- **sessionID**, xsd:long
- **auto_in_out_option**, xsi:ns1:AutoInOutOption

2.2.11.7.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:setAutoInOut>
      <sessionID>0</sessionID>
      <ns:auto-in-out-option>DISABLE</ns:auto-in-out-option>
    </ns:setAutoInOut>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.11.7.3. Return

- **status**, xsd:string

2.2.11.8. getAutoInOut**2.2.11.8.1. Arguments**

- **sessionID**, xsd:long

2.2.11.8.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getAutoInOut>
      <sessionID>0</sessionID>
    </ns:getAutoInOut>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.11.8.3. Return

- **auto-in-out-option**, xsi:ns1:AutoInOutOption

2.2.11.9. setLogUnauthorizedEvent**2.2.11.9.1. Arguments**

- **sessionID**, xsd:long
- **enable**, xsd:boolean

2.2.11.9.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:setLogUnauthorizedEvent>
      <sessionID>0</sessionID>
      <ns:enable>>false</ns:enable>
    </ns:setLogUnauthorizedEvent>
```

```
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.11.9.3. Return

- **status**, xsd:string

2.2.11.10. **getLogUnauthorizedEvent**

2.2.11.10.1. Arguments

- **sessionID**, xsd:long

2.2.11.10.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getLogUnauthorizedEvent>
      <sessionID>0</sessionID>
    </ns:getLogUnauthorizedEvent>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.11.10.3. Return

- **enable**, xsd: boolean

2.2.11.11. **getCaptureFingerprint**

2.2.11.11.1. Arguments

- **sessionID**, xsd:long

2.2.11.11.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
```

```
<ns:getCaptureFingerprint>  
  <sessionID>0</sessionID>  
</ns:getCaptureFingerprint>  
</SOAP-ENV:Body>  
</SOAP-ENV:Envelope>
```

2.2.11.11.3. *Return*

- **jpegPhoto**, xsd: base64Binary

2.2.11.12. *initCaptureFP*

2.2.11.12.1. *Arguments*

- **sessionID**, xsd:long

2.2.11.12.2. *WSDL*

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:initCaptureFP>
      <sessionID>0</sessionID>
    </ns:initCaptureFP>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.11.12.3. *Return*

- **jpegPhoto**, xsd: base64Binary
- **status**, xsd:string

2.2.12. *Job Code*

2.2.12.1. *getJobCodeSettings*

2.2.12.1.1. *Arguments*

- **sessionID**, xsd:long

2.2.12.1.2. *WSDL*

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
```

```

<SOAP-ENV:Body>
  <ns:getJobCodeSettings>
    <sessionID>0</sessionID>
  </ns:getJobCodeSettings>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.12.1.3. Return

- **Jobcodesettings** : ns:JobCodeSettingsArray

2.2.12.2. updateJobCodeSettings

2.2.12.2.1. Arguments

- **sessionID**, xsd:long

2.2.12.2.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:updateJobCodeSettings>
      <sessionID>0</sessionID>
      <jobcodesettings>
        <jobcodesettings>
          <jobcode>0</jobcode>
          <jobcodeName></jobcodeName>
          <enable>0</enable>
        </jobcodesettings>
      </jobcodesettings>
    </ns:updateJobCodeSettings>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.12.2.3. Return

- **status**: xsd:string

2.2.12.3. addJobCodes**2.2.12.3.1. Arguments**

- **sessionID** xsd:long
- **jobcodes** ns:JobCodeArray

2.2.12.3.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:addJobCodes>
      <sessionID>0</sessionID>
      <jobcodes>
        <jobcodes>
          <JobCodeID>0</JobCodeID>
          <JobCodeDescription></JobCodeDescription>
          <enable>0</enable>
          <jobCode>0</jobCode>
        </jobcodes>
      </jobcodes>
    </ns:addJobCodes>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2.12.3.3. Return

- **status:** xsd:string

2.2.12.4. updateJobCodes**2.2.12.4.1. Arguments**

- **sessionID** xsd:long
- **jobcodes** ns:JobCodeArray

2.2.12.4.2. WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
```

```

xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
<SOAP-ENV:Body>
  <ns:updateJobCodes>
    <sessionID>0</sessionID>
    <jobcodes>
      <jobcodes>
        <JobCodeID>0</JobCodeID>
        <JobCodeDescription></JobCodeDescription>
        <enable>0</enable>
        <jobCode>0</jobCode>
      </jobcodes>
    </jobcodes>
  </ns:updateJobCodes>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.12.4.3. Return

- **status:** xsd:string

2.2.12.5. deleteJobCodes

2.2.12.5.1. Arguments

- **sessionID** xsd:long
- **jobcodes** ns:JobCodeArray

2.2.12.5.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:deleteJobCodes>
      <sessionID>0</sessionID>

```

```

<jobcodes>
  <jobcodes>
    <JobCodeID>0</JobCodeID>
    <JobCodeDescription></JobCodeDescription>
    <enable>0</enable>
    <jobCode>0</jobCode>
  </jobcodes>
</jobcodes>
</ns:deleteJobCodes>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

2.2.12.5.3. Return

- **status:** xsd:string

2.2.12.6. getJobCodes

2.2.12.6.1. Arguments

- **sessionID** xsd:long
- **getJobCodeCriteria** ns:getJobCodeCriteria

2.2.12.6.2. WSDL

```

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="http://www.hectrix.com/ACTAtek.xsd">
  <SOAP-ENV:Body>
    <ns:getJobCodes>
      <sessionID>0</sessionID>
      <getJobCodeCriteria>
        <jobcodeID>0</jobcodeID>
        <jobcodeDescription></jobcodeDescription>
        <enable>0</enable>
        <jobcode>0</jobcode>
      </getJobCodeCriteria>
    </ns:getJobCodes>
  </SOAP-ENV:Body>

```

</SOAP-ENV:Envelope>

2.2.12.6.3. Return

- **jobcodes:** ns:JobCodeArray

Chapter 3. Creating C Application

3.1. Requirements

- Supported OS: Windows(win32/WinCE), Linux, Sun Solaris and Mac OS X
- gSOAP 2.7

3.2. Example

Assume IP address of ACTAtek is 192.168.1.112,

Makefile

```
CC=gcc
OBJS=soapC.o soapClient.o main.o
LIBS=-lgsoap
LDFLAGS=-O2 -s
CFLAGS=-O2 -I. -I/usr/local/include
#CFLAGS+=-DDEBUG

all: $(OBJS) main

ACTAtek.wsdl:
    wget http://192.168.1.112/ACTAtek.wsdl

ACTAtek.h: ACTAtek.wsdl
    wsdl2h -c ACTAtek.wsdl

main: $(OBJS)
    $(CC) -o $@ $(OBJS) $(LIBS) $(LDFLAGS)

soapClient.c: ACTAtek.h
    soapcpp2 -c ACTAtek.h

soapC.c: ACTAtek.h
    soapcpp2 -c ACTAtek.h

%.o: %.c
    $(CC) $(CFLAGS) -c $<

%.o: %.cpp
    $(CPP) $(CFLAGS) -c $<
```

```

clean:
    $(RM) -rf soapServerLib.* soapClientLib.* soapC.*
    $(RM) -rf soapServer.* soapClient.* soapH.* soapStub.*
    $(RM) -rf soap.* soapClient.* soapH.* soapStub.*
    $(RM) -rf soapObject.h soapProxy.h
    $(RM) -rf soapServiceObject.h soapServiceProxy.h
    $(RM) -rf ws *ACTAtek*
    $(RM) -rf *.xml *.xsd *.wsdl *.nsmmap
    $(RM) -rf $(OBSJ) main
    $(RM) -rf ns.h
    $(RM) -rf *~

```

main.c

```

#include "soapH.h"           // obtain the generated stub
#include "ACTAtek.nsmmap"    // obtain the namespace mapping table

#define SOAP_CMD "http://192.168.1.142/cgi-bin/rpcrouter"

int main(int argc, char **argv)
{
    struct soap soap;      // gSOAP runtime environment
    soap_init(&soap);       // initialize runtime environment (only once)
    char *employeeID = NULL;
    if (argc == 2) {
        employeeID = argv[1];
    }

    // Try Login
    struct ns1__loginResponse response;
    printf("Calling...\n");
    if (soap_call_ns1__login(&soap, SOAP_CMD, NULL, "A999", \
        "1", &response) == SOAP_OK) {
        printf("Session ID: %d\n", response.ns1__sessionID);
    } else {                 // an error occurred
        soap_print_fault(&soap, stderr);
    }

    // Log search
    struct ns1__getLogsResponse getLogsResponse;
    struct ns1__getLogsCriteria lcriteria;

```



```

memset(&criteria, 0, sizeof(criteria));
lcriteria.employeeID = employeeID;
if (soap_call_ns1__getLogs(&soap, SOAP_CMD, NULL, \
    response.ns1__sessionID, &lcriteria, \
    &getLogsResponse) == SOAP_OK) {
    if (getLogsResponse.ns1__logs) {
        int size = getLogsResponse.ns1__logs->__sizelog;
        printf("No of Logs: %d\n", size);
        int i = 0;
        for (i = 0; i < size; i++) {
            printf(" LogID: %d", getLogsResponse.ns1__logs->log[i]->logID);
            printf(", User: %s", getLogsResponse.ns1__logs->log[i]->userID);
            printf(", Trigger: %d", getLogsResponse.ns1__logs->log[i]->trigger);
            printf(", Timestamp: %s", ctime(&(getLogsResponse.ns1__logs-
>log[i]->timestamp)));
        }
    }
} else { // an error occurred
    soap_print_fault(&soap, stderr);
}

// Try Logout
struct ns1__logoutResponse oresponse;

if (soap_call_ns1__logout(&soap, SOAP_CMD, NULL, \
    response.ns1__sessionID, \
    &oreponse) == SOAP_OK) {
    printf("LOGOUT Session ID: %d\n", response.ns1__sessionID);
} else{ // an error occurred
    soap_print_fault(&soap, stderr);
}

soap_destroy(&soap); // delete deserialized class instances (for C++ only)
soap_end(&soap); // remove deserialized data and clean up
soap_done(&soap); // detach the gSOAP environment
return 0;
}

```

Chapter 4. Creating Visual Basic Application

4.1. Requirements

- Supported OS: Windows 98, ME, 2000, XP
- SOAP Toolkit 3.0 for Windows
- Visual Basic 6.0

4.2. Example

```
Private Sub login()  
    Dim Serializer As SoapSerializer30  
    Dim Connector As SoapConnector30  
    Dim Reader As SoapReader30  
    Dim str As String  
    Dim newline As String  
    Dim name As String  
    Dim password As String  
  
    On Error GoTo End_this_process      ' Prevent the mistype of IP address  
  
    Set Connector = New HttpConnector30  
    Connector.Property("EndPointURL") = "http://" & Text3.Text & "/cgi-bin/rpcrouter"  
    Connector.Connect  
  
    Connector.BeginMessage  
  
    Set Serializer = New SoapSerializer30  
    Serializer.Init Connector.InputStream  
  
    Serializer.StartEnvelope "", "STANDARD"  
    Serializer.SoapNamespace "xsi", "http://www.w3.org/2001/XMLSchema-instance"  
    Serializer.SoapNamespace "xsd", "http://www.w3.org/2001/XMLSchema"  
    Serializer.SoapNamespace "ns1", "http://www.hectrix.com/ACTAtek.xsd"  
  
    Serializer.StartBody  
    Serializer.StartElement "ns1:login"  
  
    name = Text1.Text
```

```
password = Text2.Text

Serializer.StartElement "username"
Serializer.WriteString name
Serializer.EndElement
Serializer.StartElement "password"
Serializer.WriteString password
Serializer.EndElement

Serializer.EndElement
Serializer.EndBody
Serializer.EndEnvelope

Connector.EndMessage

' The following lines show how you would retrieve a result if the method returned one
Set Reader = New SoapReader30
Reader.Load Connector.OutputStream

str = Reader.RpcResult.Text

sessionID = Val(str)

If sessionID = 0 Then    'sessionID received, login success
    status.Caption = "Login Failed"
End If

End_this_process:
End Sub
```

Chapter 5. Creating .NET Application

5.1. Requirements

- Supported OS: 2000, XP
- Visual Studio .NET 2003

5.2. Example

Create the Web Reference using the ACTAt^{te}k.WSDL located on the terminal at

http://<deviceIP>/soap/document/ACTAt^{te}k.wsdl

This will automatically generate all the methods to access the ACTAt^{te}k API.

```
Private Sub Login()  
    ' Login SOAP request  
    Dim sessionID As Long  
    Dim IP_Addr As String  
    Dim UserID As String  
    Dim Password As String  
    IP_Addr="192.168.1.100"  
    UserID ="A999"  
    Password="1"  
  
    Try  
        ' ACTAttekWSDL is the name of the web reference  
        Dim ActaService As ACTAttekWSDL.ACTAttek =New ACTAttekWSDL.ACTAttek  
        ActaService.Url = "http://" & IP_Addr & "/cgi-bin/rpcrouter"  
        sessionID = ActaService.login(UserID, Password)  
  
        Catch ex As Exception  
            MsgBox(ex.Message)  
        End Try  
  
End Sub
```

Sample Code to get detail event log, Session ID is obtained from the login API request

```

Private Sub GetFullLog()
' GetFullLog SOAP Request
Dim dateFrom As Date
Dim dateTo As Date
Dim EventTrigger As ACTAttekWSDL.triggerType
Dim Trigger As String
Dim IP_Addr As String

IP_Addr="192.168.1.100"

' Get the Event Trigger
Trigger = "IN"
' Retrieve Enum from its member name (Event Trigger name)
EventTrigger=CType(System.Enum.Parse(GetType(ACTAttekWSDL.
triggerType), Trigger), ACTAttekWSDL.triggerType)
'parse string date into date format
dateFrom = DateTime.Parse( "01/01/00 00:00:01")
dateTo = Now

Dim ActaService As ACTAttekWSDL.ACTAttek = New ACTAttekWSDL.ACTAttek
ActaService.Url = "http:///" & IP_Addr & "/cgi-bin/rpcrouter"

Dim LogCriteria As ACTAttekWSDL.getLogCriteria
' Set the getLogsCriteria
LogCriteria = New ACTAttekWSDL.getLogCriteria
LogCriteria.from = dateFrom 'Date
LogCriteria.to = dateTo 'Date
LogCriteria.departmentID = 0 ' Integer
LogCriteria.departmentIDSpecified = False ' Boolean
LogCriteria.employeeID = "" ' String
LogCriteria.employeeName = "" 'String
LogCriteria.fromSpecified = True ' Boolean
LogCriteria.toSpecified = True ' Boolean
LogCriteria.trigger = EventTrigger ' Eventtype
LogCriteria.triggerSpecified = False ' Boolean
LogCriteria.terminaSN="" ' String

```

```
' get the output from getlog
Dim Logs() As ACTAtekWSDL.LogDetail
Dim log As ACTAtekWSDL.LogDetail
Dim count As Integer
Dim textLog As String

Logs = ActaService.getFullLogs(SessionID, LogCriteria, 1, False)
' Check if anything is retrieved
If Logs Is Nothing Then
    ' No log retrieved so exit sub
    Exit Sub
End If

txtOutput.Text = ""
count = 0
'Go through each log
For Each log In Logs
    count = count + 1
    'retrieve an Enum member (Event Trigger name),
    'cast the integer value from log.trigger to your Enum type
    EventTrigger = CType(log.trigger, ACTAtekWSDL.triggerType)
    textLog = textLog & count & ": " & log.userName & " " & log.userID &
        " " & log.timestamp & " " & log.departmentName &
        " " & EventTrigger.ToString & " " & log.terminalName &
        " " & log.terminalSN & " " & log.remark & vbCrLf
Next

txtOutput.Text = textLog

End Sub
```

Chapter 6. Creating JAVA Application

6.1. Requirements

- Apache AXIS (Java) 1.1 or later

6.2. Example

Creating Java Proxy class,

```
$ java org.apache.axis.wsdl.WSDL2Java http://<deviceIP>/ACTAtek.wsdl
```

It will generate the Java Proxy class and related data structures/classes that used to access the service. The generated Proxy should be used to call the remote service. You can find the proxy in the package:

```
com.hectrix.www.ACTAtek_service
```

There is a ACTAtekLocator.java generated, which can be used locate the service provided by a particular location (URL, or Service Endpoint). Sample Calling Sequence of the Login function:

```
ACTAtekLocator locator = new ACTAtekLocator();
ACTAtekPortType api = locator.getACTAtek(new
java.net.URL("http://192.168.1.100/cgi-bin/rpcrouter"));
long sessionID = api.login("A123", "123");
```

You should change the IP address appropriately to reflect the actual deployment setting of your ACTAtek. As you can see, "api" object is used to access the remote methods exposed by WSDL. Please refer to the [API] section for details of the methods provided.

For issues related the generation of Java Proxy, please refer to the Apache website. (<http://ws.apache.org>)

Makefile

```
JAVA_HOME=/usr/java
JAVA=$(JAVA_HOME)/bin/java
JAVAC=$(JAVA_HOME)/bin/javac

WSDL_URL=http://192.168.1.112/ACTAtek.wsdl

CLASSPATH=lib/axis.jar:lib/jaxrpc.jar:lib/saaj.jar:lib/commons-logging.jar:lib/commons-discovery.jar:lib/wsdl4j.jar
WSDL2JAVA=$(JAVA) -classpath $(CLASSPATH) org.apache.axis.wsdl.WSDL2Java

all: generate_java_classes Main.class
```

```

Main.class: Main.java .PROXY_GENERATED
    $(JAVAC) -classpath .:$(CLASSPATH) Main.java

runtest: Main.class .PROXY_GENERATED
    $(JAVA) -classpath .:$(CLASSPATH) Main

generate_java_classes: .PROXY_GENERATED

.PROXY_GENERATED:
    $(WSDL2JAVA) $(WSDL_URL)
    touch .PROXY_GENERATED

clean:
    rm -rf *.class com *~ .PROXY_GENERATED

```

Main.java

```

import com.hectrix.www.ACTAtek_service.*;

/*
 * Sample Calling Sequence of the Login function:
 */
public class Main {

    public static void main(String args[]) throws Exception {
        ACTAtekLocator locator = new ACTAtekLocator();
        ACTAtekPortType api = locator.getACTAtek(
            new java.net.URL("http://192.168.1.112/cgi-bin/rpcrouter"));
        long sessionID = api.login("A999", "1");
        System.out.println("SessionID="+sessionID);
        api.logout(sessionID);
    }
}

```


Chapter 7. Using SOAP API with SSL

7.1. Requirements

- Supported OS: Windows(win32/WinCE), Linux, Sun Solaris and Mac OS X
- gSOAP 2.7
- stdsoap2.c stdsoap2.h from gSOAP package

7.2. Example

Assume IP address of ACTAtek is 192.168.1.112,

Makefile

```
CC=gcc
OBJS=soapC.o soapClient.o main.o stdsoap2.o
LIBS=-lgsoap -lssl -lcrypto
LDFLAGS=-O2 -s
CFLAGS=-O2 -I. -I/usr/local/include
#CFLAGS+=-DDEBUG
CFLAGS+=-DDEBUG -DWITH_OPENSSL

all: $(OBJS) main

ACTAtek.wsdl:
    wget http://192.168.1.112/ACTAtek.wsdl

ACTAtek.h: ACTAtek.wsdl
    wsdl2h -c ACTAtek.wsdl

main: $(OBJS)
    $(CC) -o $@ $(OBJS) $(LIBS) $(LDFLAGS)

soapClient.c: ACTAtek.h
    soapcpp2 -c ACTAtek.h
soapC.c: ACTAtek.h
    soapcpp2 -c ACTAtek.h

%.o: %.c
    $(CC) $(CFLAGS) -c $<
```

```

%.o: %.cpp
    $(CPP) $(CFLAGS) -c $<

clean:
    $(RM) -rf soapServerLib.* soapClientLib.* soapC.*
    $(RM) -rf soapServer.* soapClient.* soapH.* soapStub.*
    $(RM) -rf soap.* soapClient.* soapH.* soapStub.*
    $(RM) -rf soapObject.h soapProxy.h
    $(RM) -rf soapServiceObject.h soapServiceProxy.h
    $(RM) -rf ws *ACTAtek*
    $(RM) -rf *.xml *.xsd *.wsdl *.nsmmap
    $(RM) -rf $(OBJS) main
    $(RM) -rf ns.h
    $(RM) -rf *~

```

main.c

```

#include "soapH.h"           // obtain the generated stub
#include "ACTAtek.nsmmap"    // obtain the namespace mapping table

#ifdef WITH_OPENSSL
    #define SOAP_CMD "https://192.168.1.142/cgi-bin/rpcrouter"
#else
    #define SOAP_CMD "http://192.168.1.142/cgi-bin/rpcrouter"
#endif

int main(int argc, char **argv)
{
    struct soap soap;      // gSOAP runtime environment
    soap_init(&soap);       // initialize runtime environment (only once)

#ifdef WITH_OPENSSL
    printf("Before SSL init\n");
    if (soap_ssl_client_context(&soap,
        SOAP_SSL_NO_AUTHENTICATION, // SOAP_SSL_DEFAULT,
        NULL, /* keyfile: required only when client must authenticate to server (see
SSL docs on how to obtain this file) */
        NULL, /* password to read the key file */
        NULL, /* optional cacert file to store trusted certificates */
        NULL, /* optional capath to directory with trusted certificates */
        NULL /* if randfile!=NULL: use a file with random data to seed random */
    )) {

```

```

        soap_print_fault(&soap, stderr);
        exit(1);
    }
    printf("After SSL init\n");
#endif

char *employeeID = NULL;
if (argc == 2) {
    employeeID = argv[1];
}

// Try Login
struct ns1__loginResponse response;
printf("Calling...\n");
if (soap_call_ns1__login(&soap, SOAP_CMD, NULL, "A999", \
    "1", &response) == SOAP_OK) {
    printf("Session ID: %d\n", response.ns1__sessionID);
} else {
    // an error occurred
    soap_print_fault(&soap, stderr);
}

// Log search
struct ns1__getLogsResponse getLogsResponse;
struct ns1__getLogsCriteria lcriteria;
memset(&criteria, 0, sizeof(criteria));
lcriteria.employeeID = employeeID;
if (soap_call_ns1__getLogs(&soap, SOAP_CMD, NULL, \
    response.ns1__sessionID, &lcriteria, \
    &getLogsResponse) == SOAP_OK) {
    if (getLogsResponse.ns1__logs) {
        int size = getLogsResponse.ns1__logs->__sizelog;
        printf("No of Logs: %d\n", size);
        int i = 0;
        for (i = 0; i < size; i++) {
            printf(" LogID: %d", getLogsResponse.ns1__logs->log[i]->logID);
            printf(", User: %s", getLogsResponse.ns1__logs->log[i]->userID);
            printf(", Trigger: %d", getLogsResponse.ns1__logs->log[i]->trigger);
            printf(", Timestamp: %s", ctime(&(getLogsResponse.ns1__logs-
>log[i]->timestamp)));
        }
    }
}

```

```
} else {           // an error occurred
    soap_print_fault(&soap, stderr);
}

// Try Logout
struct ns1__logoutResponse oresponse;

if (soap_call_ns1__logout(&soap, SOAP_CMD, NULL, \
    response.ns1__sessionID, \
    &oresponse) == SOAP_OK) {
    printf("LOGOUT Session ID: %d\n", response.ns1__sessionID);
} else{           // an error occurred
    soap_print_fault(&soap, stderr);
}

soap_destroy(&soap); // delete deserialized class instances (for C++ only)
soap_end(&soap);    // remove deserialized data and clean up
soap_done(&soap);  // detach the gSOAP environment
return 0;
}
```

Chapter 8. Correspondence between Time Zone Names and Time Zone IDs

Timezone Name (as seen on web interface)	Timezone ID
No Timezone	(Empty string)
(GMT -12:00:00) Eniwetok, Kwajalein	Pacific/Kwajalein
(GMT -11:00:00) Midway Island, Samoa	Pacific/Midway
(GMT -10:00:00) Hawaii	Pacific/Honolulu
(GMT -10:00:00) Alaska	America/Anchorage
(GMT -08:00:00) Pacific Time (US & Canada); Tijuana	America/Tijuana
(GMT -07:00:00) Mexican Standard Time; Chihuahua, La Paz, Mazatlan	America/Chihuahua
(GMT -07:00:00) Mountain Standard Time (US & Canada)	America/Dawson_Creek
(GMT -07:00:00) Arizona	America/Phoenix
(GMT -06:00:00) Central Standard Time (US & Canada)	America/Swift_Current
(GMT -06:00:00) Mexico City, Tegucigalpa	America/Tegucigalpa
(GMT -06:00:00) Saskatchewan	America/Regina
(GMT -06:00:00) Central America	America/Costa_Rica
(GMT -05:00:00) Eastern Standard Time (US & Canada)	America/Toronto
(GMT -05:00:00) Eastern Standard Time, Indiana (East)	America/Indiana/Indianapolis
(GMT -05:00:00) Bogota, Lima, Quito	America/Lima
(GMT -04:00:00) Atlantic Standard Time(Canada)	America/Halifax
(GMT -04:00:00) Caracas, La Pa	America/Caracas
(GMT -04:00:00) Santiago	America/Santiago
(GMT -03:30:00) Newfoundland	America/St_Johns
(GMT -03:00:00) Buenos Aires, Georgetown	America/Argentina/Buenos_Aires
(GMT -03:00:00) Brasilia	America/Sao_Paulo
(GMT -03:00:00) Greenland	America/Godthab
(GMT -02:00:00) Mid-Atlantic	America/Glace_Bay
(GMT -01:00:00) Azores	Atlantic/Azores
(GMT -01:00:00) Cape Verde Island	Atlantic/Cape_Verde
(GMT 00:00:00) Casablanca, Monrovia	Africa/Casablanca

Timezone Name (as seen on web interface)	Timezone ID
(GMT 00:00:00) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London	Europe/Lisbon
(GMT +01:00:00) Amsterdam, CopenHagen, Madrid, Paris, Vilnius	Europe/Amsterdam
(GMT +01:00:00) West Central Africa	Africa/Bangui
(GMT +01:00:00) Belgraded, Sarajevo, Skopje, Sofija, Zagreb	Europe/Skopje
(GMT +01:00:00) Bratislava, Budapest, Ljubljana, Prague, Warsaw	Europe/Bratislava
(GMT +01:00:00) Brussels, Berlin, Bern, Rome, Stockholm, Vienna	Europe/Stockholm
(GMT +02:00:00) Cairo	Africa/Cairo
(GMT +02:00:00) Harae, Pretoria	Africa/Maseru
(GMT +02:00:00) Israel	Asia/Gaza
(GMT +02:00:00) Bucharest	Europe/Bucharest
(GMT +02:00:00) Helsinki, Riga, Tallinn	Europe/Riga
(GMT +02:00:00) Athens, Istanbul, Munsck	Europe/Istanbul
(GMT +03:00:00) Kuwait, Riyadh	Asia/Riyadh
(GMT +03:00:00) Nairobi	Africa/Nairobi
(GMT +03:00:00) Baghdad	Asia/Baghdad
(GMT +03:00:00) Moscow, St. Petersburg, Volgograd	Europe/Moscow
(GMT +03:00:00) Tehran	Asia/Tehran
(GMT +04:00:00) Abu Dhabi, Muscat	Asia/Muscat
(GMT +04:00:00) Baku, Tbilisi	Asia/Tbilisi
(GMT +04:00:00) Kabul	Asia/Kabul
(GMT +05:00:00) Islamabad, Karachi, Tashkent	Asia/Tashkent
(GMT +05:00:00) Ekaterinburg	Asia/Yekaterinburg
(GMT +05:30:00) Bombay, Calcutta, Madras, New Delhi	Asia/Calcutta
(GMT +05:45:00) Kathmandu	Asia/Katmandu
(GMT +06:00:00) Dhaka	Asia/Dhaka
(GMT +06:00:00) Colombo	Asia/Colombo
(GMT +06:00:00) Almaty, Novosibirsk	Asia/Novosibirsk
(GMT +06:30:00) Rangoon	Asia/Rangoon
(GMT +07:00:00) Bangkok, Hanoi, Jakarta	Asia/Bangkok
(GMT +07:00:00) Krasnoyarsk	Asia/Krasnoyarsk
(GMT +08:00:00) Beijing, Chongqing, Hong Kong, Urumqi	Asia/Hong_Kong
(GMT +08:00:00) Perth	Australia/Perth
(GMT +08:00:00) Singapore	Asia/Singapore
(GMT +08:00:00) Taipei	Asia/Taipei

Timezone Name (as seen on web interface)	Timezone ID
(GMT +08:00:00) Irkutsk, Ulaan Battar	Asia/Irkutsk
(GMT +09:00:00) Osako, Sapporo, Tokyo	Asia/Tokyo
(GMT +09:00:00) Seoul	Asia/Seoul
(GMT +09:00:00) Yakutsk	Asia/Yakutsk
(GMT +09:30:00) Darwin	Australia/Darwin
(GMT +09:30:00) Adelaide	Australia/Adelaide
(GMT +10:00:00) Canberra, Melbourne, Sydney	Australia/Sydney
(GMT +10:00:00) Brisbane	Australia/Brisbane
(GMT +10:00:00) Guam, Port Moresby	Pacific/Port_Moresby
(GMT +10:00:00) Hobart	Australia/Hobart
(GMT +10:00:00) Vladivostok	Asia/Vladivostok
(GMT +11:00:00) Magadan, Soloman Island, New Caledonia	Asia/Magadan
(GMT +12:00:00) Fiji, Kamchatka, Marshall Island	Asia/Kamchatka
(GMT +12:00:00) Auckland, Wellington	Pacific/Auckland
(GMT +13:00:00) Nuku'alofa	Pacific/Tongatapu