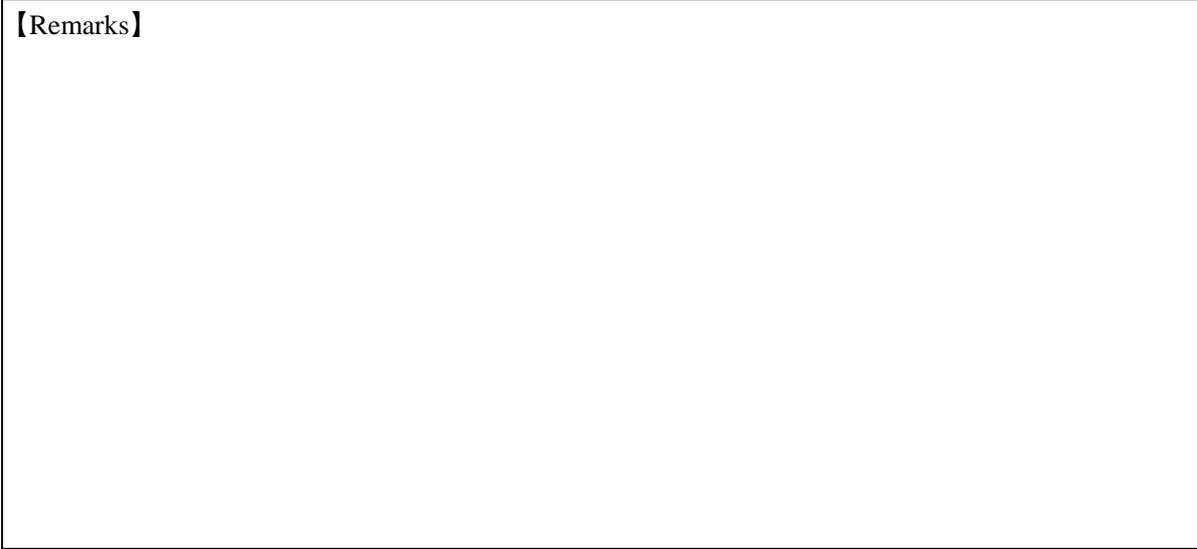


# CAP Specifications

Version 2.1.1

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【Remarks】





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# 1. ORiN2

## 1.1. Outline of CAP

CAP is an abbreviation for Controller Access Protocol, and is "communication protocol for the Internet" to access CAO provider over the Internet. CAO engine uses DCOM to access remote CAO providers, but DCOM access over the Internet is practically impossible because of security related restrictions. In addition, many companies do not allow remote access through their firewall. To cope with the problem, CAP was developed for ORiN.

CAP is a protocol to enable remote access between objects through the Internet with SOAP (Simple Object Access Protocol). ORiN2 prepares CAP provider, and the provider can generate and transfer CAP messages. As a result, only if an HTTP connection environment is available, CAO engine can easily connect to a remote provider through the Internet. This is an implementation of the "network transparency" concept in ORiN2.

The function of CAP is implemented on CAP provider as a provider for CAO.

## 2. CAP – Internet communication protocol

### 2.1. Composition of CAP

Figure1-[3] shows that CAP provider sends CAP message (SOAP packet) to Web server to connect to remote CAO provider. CAP listener called from web server analyzes the message, call destination CAO provider and intermediate necessary information exchange. In this way, client application can access to robot controller over Internet just like accessing to local robot controller.

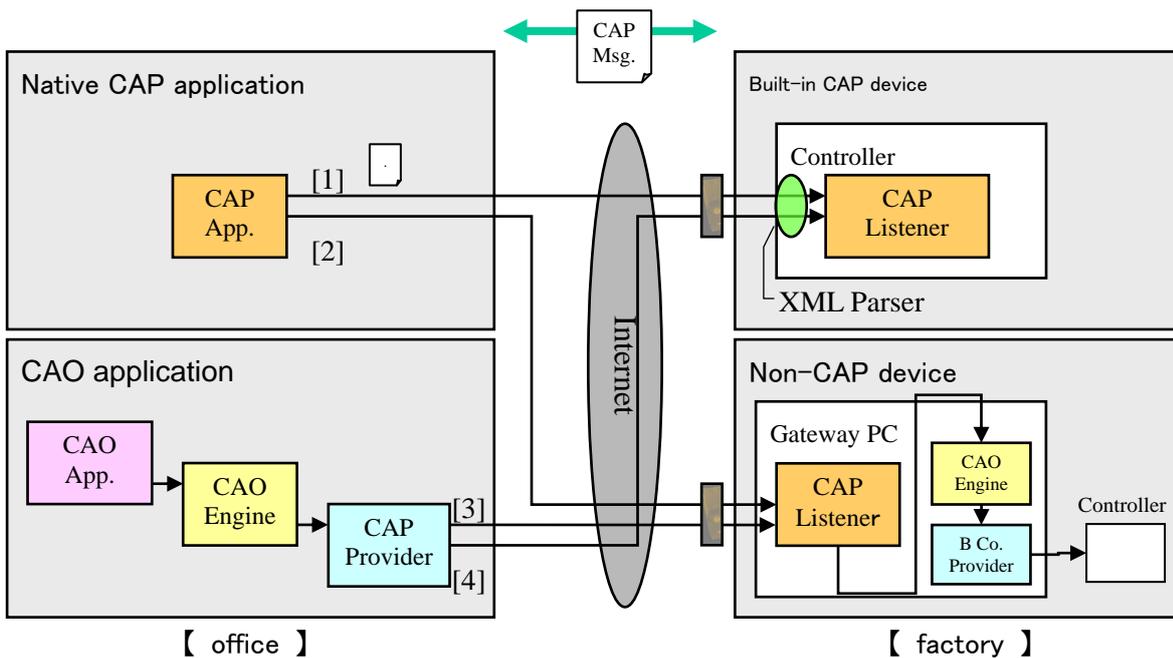


Figure1: Operation of CAP

There are four ways to connect CP client and server as shown in Figure1. For case [3], as described above, CAO provider without CAP function can be accessed through Internet and firewall with CAO remote engine function and CAP provider intermediation. [1] and [2] shows routes when client application has implemented native CAP function. [4] is the case that server (controller) has built-in XML parser and SOAP. Connecting configuration of [3] and [4] is determined by the option argument of CaoWorkspace::AddController method when CaoController object is created.

### 2.2. CAP specific method and property

#### 2.2.1. CaoWorkspace::AddController method

Following is CAP provider specific name.

Table2-1 CAP provider specific name

<b>Provider alias name</b>	CAP provider
<b>Provider specific name</b>	CaoProv.CAP

By specifying the provider name “CaoProv.CAP” for AddController method, CAO engine and CAP provider is started on server, CAO provider is started on remote, and they are connected.

Parameters necessary on remote provider are specified in option string of AddController method. Following is the specifications of option string.

**Table2-2 Option string of CaoWorkspace::AddController for CAP**

Option	Meaning
Provider[=<provider name>]	Provider name that starts remotely. (default value: Null string)
Server[=<Web server name>]	Specify the WEB server name. (default value: “localhost”)
Machine[=<Machine name>]	Specified when remote provider is started on a machine different from the WEB server. (default value: Null string)
Option[=<Option character string>]	Specify necessary option string for remote provider. (default value: Null string)
Message[=<True/False>]	Presence of message acquisition. True: There is message acquisition. (default) False: There is no message acquisition.

Following is an example of AddController method execution.

```

AddController
(
    "RC1",                // Controller name = RC1
    "CaoProv.CAP",      // Fixed
    "",                 // CAO engine process executes CAP provider
    "Server=TestServer,Provider=CaoProv.DataStore" // DataStore provider starts on Web server
                                                         // on Web server "TestServer"
);

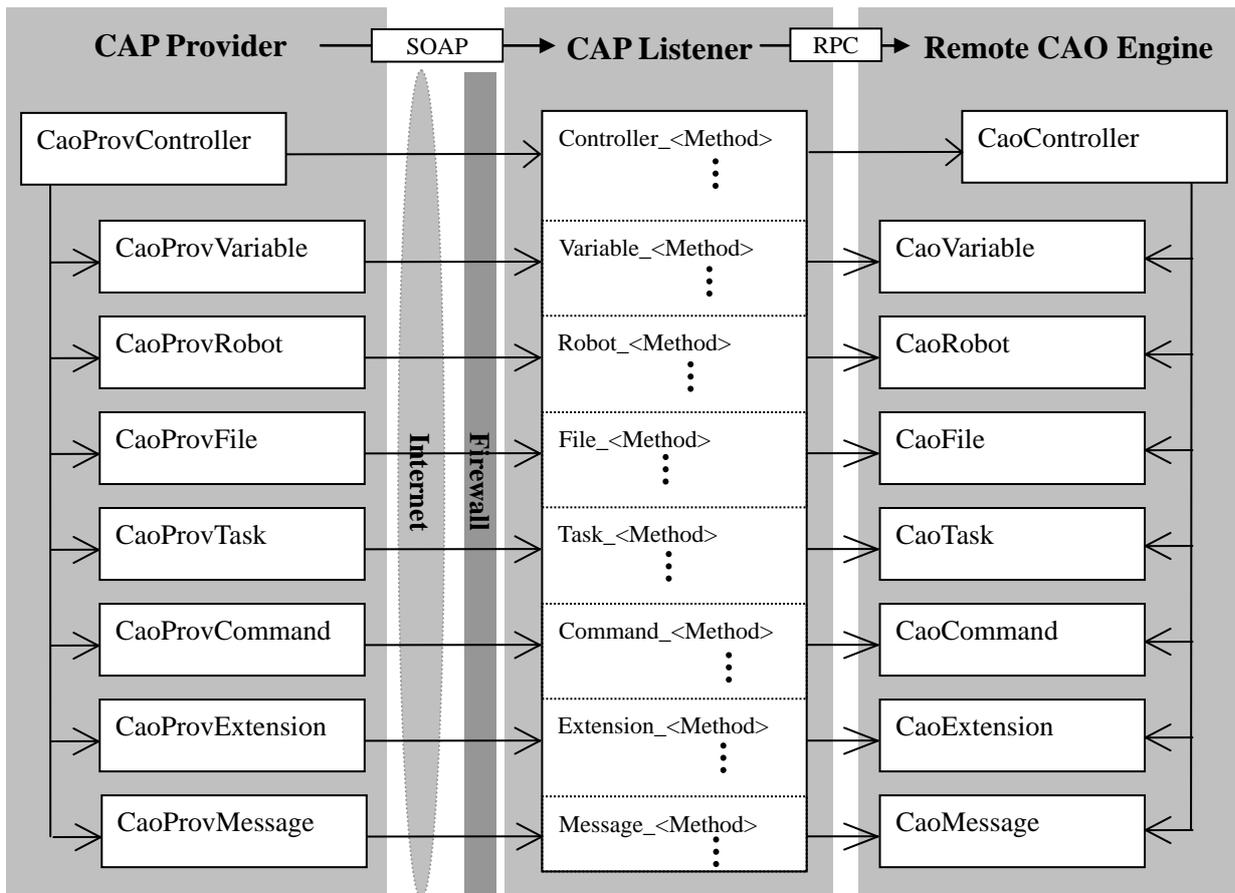
```

## 2.3. Communication specification of CAP

### 2.3.1. Message structure of CAP

The communication of CAP adopts the structure of the SOAP message as it is.

Correspondence of the interface of the CAP message tag name and the CAO provider is shown in **Figure2**.



**Figure2: Correspondence of CAP message tag and CAO interface**

CAP has request tags that corresponds one to one to CAO provider methods. CAP listener has interface that is mapped to these request tags, and calls corresponding methods to the SOAP message request from CAP provider. CAP listener then calls remote CAO engine object interface that corresponds to the methods called by SOAP message. Following process is normal CAO provider calling in remote CAO engine process.

CAP provider and CAP listener one to one correspondence is realized by defining WSDL file.

For strict specifications of CAP message in CAP, or SOAP packet, please refer CapListener.WSDL file in appendix.

**2.3.1.1. Service\_<Method>**

HRESULT ICapServices::Service\_Start ([in, defaultvalue("")] BSTR bstrOption)

Function Start CapListener

Parameter [in] bstrOption

Option

Option	Meaning
IStream[=<True / False>]	The use of the IStream provider is selected the

	maintenance of the CAO object. (Default: False)
--	--

Return HRESULT

value Return S\_OK when succeeded.

Explanation Begin CapListener startup process. This is necessary to be used at first when you use CapListener.

This method starts CAO process, and increment reference counter to the CAO engine by one.

Call ICapServices::Service\_Stop method to end CapListener.

#### HRESULT ICapServices::Service\_Stop ( )

Function Stop of CapListener

Parameter None.

Return HRESULT

value Return S\_OK when succeeded.

Explanation Terminate CapListener process. This is necessary to be used when you end CapListener.

This method decrements reference counter to CAO engine by one, and if reference counter becomes 0, CAO process is terminated.

#### 2.3.1.2. Controller\_<Method>

```

HRESULT ICapServices::Controller_Connect (
    [in] BSTR bstrController,
    [in] BSTR bstrProvider,
    [in, defaultvalue("")] BSTR bstrMachine,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] long * hController
)
  
```

Function Add of controller object

Parameter [in] bstrController

Controller name.

When NULL is specified, the workspace name is automatically assigned.

[in] bstrProvider

Provider name.

Specify program ID of the CAO provider to start. Following is how to start CAO engine in remote machine and specify CAO provider.

< provider name >:< remote machine name >

[in] bstrMachine  
 [in] bstrMachine  
 Machine name.  
 To start CAO provider in remote machine, specify the machine name or IP address.

[in] bstrOption  
 Option  
 Currently not used. All settings are neglected.

[out] ppICaoCtrl  
 Address of CaoWorkspace IF pointer

Return HRESULT  
 value Return S\_OK when succeeded.

Explanation Create ICaoController object, and acquire the controller object management handle in CapListener.  
 The created controller object is managed by CapListener. Execute the ICapServices::Controller\_Disconnect method when you delete the object.

```
HRESULT ICapServices::Controller_Disconnect (
    [in] long hController
)
```

Function Disconnect provider

Parameter [in] hController  
 Handle to controller object

Return HRESULT  
 value Return S\_OK when succeeded.

Explanation Disconnect device from the provider.

```
HRESULT ICapServices::Controller_Execute (
    [in] long hController,
    [in] BSTR bstrCommand,
    [in] VARIANT vntParam,
    [out, retval] VARIANT * pVal
)
```

Function Execute extension command

Parameter [in] hController  
 Handle to controller object  
 [in] bstrCommand

Command  
 [in] vntParam  
 Parameter  
 [out] pVal  
 Execution result  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Execute extension command.

```

HRESULT ICapServices::Controller_GetAttribute (
    [in] long hController,
    [out, retval] long * pVal
)
  
```

Function Get attribute  
 Parameter [in] hController  
 Handle to controller object  
 [out] pVal  
 Attribute  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get attribute value of the controller.

```

HRESULT ICapServices::Controller_GetCommand (
    [in] long hController,
    [in] BSTR bstrName,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] long * hCommand
)
  
```

Function Add of command object  
 Parameter [in] hController  
 Handle to controller object  
 [in] bstrName  
 Command name.  
 [in] bstrOption  
 Option  
 [out] hCommand  
 Handle to command object

Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Create ICaoCommand object, and get command object management handler for CapListener.  
 The created command object is managed by CapListener. Execute the ICapServices::Command\_Release method to delete the object.

```
HRESULT ICapServices::Controller_GetCommandNames (
    [in] long hController,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] VARIANT * pVal
)
```

Function Get command name list  
 Parameter [in] hController  
 Handler to controller object  
 [in] bstrOption  
 Option  
 [out] pVal  
 Command name list  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get command name list.

```
HRESULT ICapServices::Controller_GetExtension (
    [in] long hController,
    [in] BSTR bstrName,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] long * hExtension
)
```

Function Add extension board object  
 Parameter [in] hController  
 Handler to controller object  
 [in] bstrName  
 Extension board name.  
 [in] bstrOption  
 Option  
 [out] hExtension

Handler to extension board handle

**Return** HRESULT

**value** Return S\_OK when succeeded.

**Explanation** Create ICaoExtension object, and get extension board object management handle in CapListener.

The created extension board object is managed by CapListener. Execute ICapServices::Extension\_Release method when you delete the object.

```
HRESULT ICapServices::Controller_GetExtensionNames (
    [in] long hController,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] VARIANT * pVal
)
```

**Function** Get extension board name list

**Parameter** [in] hController  
 Handler to controller object  
 [in] bstrOption  
 Option  
 [out] pVal  
 Extension board name list

**Return** HRESULT

**value** Return S\_OK when succeeded.

**Explanation** Get extension board name list.

```
HRESULT ICapServices::Controller_GetFile (
    [in] long hController,
    [in] BSTR bstrName,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] long * hFile
)
```

**Function** Add file object

**Parameter** [in] hController  
 Handler to controller object  
 [in] bstrName  
 File name.  
 [in] bstrOption  
 Option

[out] hFile  
 Handler to file object

Return HRESULT

value Return S\_OK when succeeded.

Explanation Cerate the ICaoFile object, and get the file object management handle in CapListener.  
 The created file object is managed in CapListener. Execute the ICapServices::File\_Release method when you delete the object.

```
HRESULT ICapServices::Controller_GetFileNames (
    [in] long hController,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] VARIANT * pVal
)
```

Function Get file name list

Parameter [in] hController  
 Handle to controller object

[in] bstrOption  
 Option

[out] pVal  
 File name list

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get file name list.

```
HRESULT ICapServices::Controller_GetHelp (
    [in] long hController,
    [out, retval] BSTR * pVal
)
```

Function Get help character string

Parameter [in] hController  
 Handle to controller object

[out] pVal  
 Help character string

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get help string of the controller.

```

HRESULT ICapServices::Controller_GetID (
    [in] long hController,
    [out, retval] VARIANT * pVal
)

```

Function      Get ID

Parameter     [in] hController  
                   Handle to controller object

                  [out] pVal  
                   ID

Return         HRESULT

value          Return S\_OK when succeeded.

Explanation   Get controller's ID.

```

HRESULT ICapServices::Controller_GetMessage (
    [in] long hController,
    [out, retval] long * hMessage
)

```

Function      Get message

Parameter     [in] hController  
                   Handle to controller object

                  [out] hMessage  
                   Handle to message object

Return         HRESULT

value          Return S\_OK when message is received, S\_FALSE if there is no message.

Explanation   Get a message form provider, and return message object management handle for CapListener.

                  The created message object is managed by CapListener. Execute the ICapServices::Message\_Release method to delete the object.

```

HRESULT ICapServices::Controller_GetName (
    [in] long hController,
    [out, retval] BSTR * pVal
)

```

Function      Get controller name

Parameter     [in] hController  
                   Handle to controller object

                  [out] pVal

Controller name

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get controller name of the object.

```
HRESULT ICapServices::Controller_GetRobot (
    [in] long hController,
    [in] BSTR bstrName,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] long * hRobot
)
```

Function Add robot object

Parameter [in] hController  
Handle to controller object

[in] bstrName  
Robot name.

[in] bstrOption  
Option

[out] hRobot  
Handle to robot object

Return HRESULT

value Return S\_OK when succeeded.

Explanation Cerate the ICaoRobot object, and get the robot object management handle in CapListener. The created robot object is managed in CapListener. Execute the ICapServices::Robot\_Release method when you delete the object.

```
HRESULT ICapServices::Controller_GetRobotNames (
    [in] long hController,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] VARIANT * pVal
)
```

Function Get robot name list

Parameter [in] hController  
Handle to controller object

[in] bstrOption  
Option

[out] pVal

Robot name list

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get robot name list.

```
HRESULT ICapServices::Controller_GetTag (
    [in] long hController,
    [out, retval] VARIANT * pVal
)
```

Function Get tag

Parameter [in] hController  
Handle to controller object

[out] pVal  
Tag

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get controller's tag.

```
HRESULT ICapServices::Controller_GetTask (
    [in] long hController,
    [in] BSTR bstrName,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] long * hTask
)
```

Function Add task object

Parameter [in] hController  
Handle to controller object

[in] bstrName  
Task name.

[in] bstrOption  
Option

[out] hTask  
Handle to task object

Return HRESULT

value Return S\_OK when succeeded.

Explanation Cerate the ICaoTask object, and get the task object management handle in CapListener.  
The created task object is managed in CapListener. Execute the

ICapServices::Task\_Release method when you delete the object.

```
HRESULT ICapServices::Controller_GetTaskNames (
    [in] long hController,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] VARIANT * pVal
)
```

**Function** Get task name list

**Parameter** [in] hController  
Handle to controller object

[in] bstrOption  
Option

[out] pVal  
Task name list

**Return value** HRESULT  
Return S\_OK when succeeded.

**Explanation** Get task name list.

```
HRESULT ICapServices::Controller_GetVariable (
    [in] long hController,
    [in] BSTR bstrName,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] long * hVariable
)
```

**Function** Add variable object

**Parameter** [in] hController  
Handle to controller object

[in] bstrName  
Variable name.

[in] bstrOption  
Option

[out] hTask  
Handle to variable object

**Return value** HRESULT  
Return S\_OK when succeeded.

**Explanation** Cerate the IcaoVariable object, and get the variable object management handle in CapListener.

The created variable object is managed in CapListener. Execute the ICapServices::Variable\_Release method when you delete the object.

```
HRESULT ICapServices::Controller_GetVariableNames (
    [in] long hController,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] VARIANT * pVal
)
```

**Function** Get variable name list

**Parameter** [in] hController  
Handle to controller object

[in] bstrOption  
Option

[out] pVal  
Variable name list

**Return value** HRESULT  
Return S\_OK when succeeded.

**Explanation** Get variable name list.

```
HRESULT ICapServices::Controller_PutID (
    [in] long hController,
    [in] VARIANT newVal
)
```

**Function** Set ID

**Parameter** [in] hController  
Handle to controller object

[in] newVal  
ID

**Return value** HRESULT  
Return S\_OK when succeeded.

**Explanation** Set controller's ID.

```
HRESULT ICapServices::Controller_PutTag (
    [in] long hController,
    [in] VARIANT newVal
)
```

**Function** Set tag

Parameter	[in] hController Handle to controller object
	[in] newVal Tag
Return	HRESULT
value	Return S_OK when succeeded.
Explanation	Set controller's tag.

### 2.3.1.3. Variable\_<Method>

```
HRESULT ICapServices::Variable_GetAttribute (
    [in] long hVariable,
    [out, retval] long * pVal
)
```

Function	Get attribute
Parameter	[in] hVariable Handle to variable object
	[out] pVal Attribute
Return	HRESULT
value	Return S_OK when succeeded.
Explanation	Get attribute value of the variable.

```
HRESULT ICapServices::Variable_GetDateTime (
    [in] long hVariable,
    [out, retval] VARIANT * pVal
)
```

Function	Get time and date stamp
Parameter	[in] hVariable Handle to variable object
	[out] pVal Time and date stamp
Return	HRESULT
value	Return S_OK when succeeded.
Explanation	Get time and date stamp of the variable

```
HRESULT ICapServices::Variable_GetHelp (
    [in] long hVariable,
```

```
[out, retval] BSTR * pVal
```

```
)
```

**Function** Get help character string

**Parameter** [in] hVariable  
Handle to variable object  
[out] pVal  
Help character string

**Return value** HRESULT  
Return S\_OK when succeeded.

**Explanation** Get help string of the variable.

```
HRESULT IcapServices::Variable_GetID (
```

```
[in] long hVariable,
```

```
[out, retval] VARIANT * pVal
```

```
)
```

**Function** Get ID

**Parameter** [in] hVariable  
Handle to variable object  
[out] pVal  
ID

**Return value** HRESULT  
Return S\_OK when succeeded.

**Explanation** Get ID of the variable.

```
HRESULT ICapServices::Variable_GetMicrosecond (
```

```
[in] long hVariable,
```

```
[out, retval] long * pVal
```

```
)
```

**Function** Get time stamp (micro second)

**Parameter** [in] hVariable  
Handle to variable object  
[out] pVal  
Time stamp(micro second)

**Return value** HRESULT  
Return S\_OK when succeeded.

**Explanation** Get time stamp of the variable (micro second).

```

HRESULT ICapServices::Variable_GetName (
    [in] long hVariable,
    [out, retval] BSTR * pVal
)

```

Function      Get variable name

Parameter     [in] hVariable  
                   Handle to variable object

                  [out] pVal  
                   Variable name

Return         HRESULT

value          Return S\_OK when succeeded.

Explanation   Get variable name of the object.

```

HRESULT ICapServices::Variable_GetTag (
    [in] long hVariable,
    [out, retval] VARIANT * pVal
)

```

Function      Get tag

Parameter     [in] hVariable  
                   Handle to variable object

                  [out] pVal  
                   Tag

Return         HRESULT

value          Return S\_OK when succeeded.

Explanation   Get tag of the variable.

```

HRESULT ICapServices::Variable_GetValue (
    [in] long hVariable,
    [out, retval] VARIANT * pVal
)

```

Function      Get variable value

Parameter     [in] hVariable  
                   Handle to variable object

                  [out] pVal  
                   Variable value

Return         HRESULT

value          Return S\_OK when succeeded.

Explanation Get variable value.

```
HRESULT ICapServices::Variable_PutID (
    [in] long hVariable,
    [in] VARIANT newVal
)
```

Function Set ID

Parameter [in] hVariable  
Handle to variable object  
[in] newVal  
ID

Return HRESULT

value Return S\_OK when succeeded.

Explanation Set ID of the variable.

```
HRESULT ICapServices::Variable_PutTag (
    [in] long hVariable,
    [in] VARIANT newVal
)
```

Function Set tag

Parameter [in] hVariable  
Handle to variable object  
[in] newVal  
Tag

Return HRESULT

value Return S\_OK when succeeded.

Explanation Set the tag of the variable.

```
HRESULT ICapServices::Variable_PutValue (
    [in] long hVariable,
    [in] VARIANT newVal
)
```

Function Set variable value

Parameter [in] hVariable  
Handle to variable object  
[in] newVal  
Variable value

Return        HRESULT  
value         Return S\_OK when succeeded.  
Explanation   Set the variable value.

```
HRESULT ICapServices::Variable_Release (
    [in] long hVariable
)
```

Function      Release variable object  
Parameter     [in] hVariable  
                Handle to variable object  
Return        HRESULT  
value         Return S\_OK when succeeded.  
Explanation   Release the CapListener managed variable object of specified handle.

#### 2.3.1.4. Robot\_<Method>

```
HRESULT ICapServices::Robot_Accelerate (
    [in] long hRobot,
    [in] long lAxis,
    [in] float fAccel,
    [in] float fDecel
)
```

Function      Execute ACCEL statement  
Parameter     [in] hRobot  
                Handle to robot object  
                [in] lAxis  
                Joint number  
                -1: Tool Center Point(TCP) acceleration/deceleration  
                0: All joint acceleration/deceleration  
                Other joint number: acceleration / deceleration of specified joint.  
                [in] fAccel  
                Acceleration  
                [in] fDecel  
                Deceleration  
Return        HRESULT  
value         Return S\_OK when succeeded.  
Explanation   Set acceleration and deceleration of robot motion.  
                Refer to the specification of the ACCEL statement of SLIM for details.

```

HRESULT ICapServices::Robot_Cancel (
    [in] long hRobot,
    [in] BSTR bstrOption
)

```

Function Cancel execution of robot control method

Parameter [in] hRobot  
Handle to robot object

[in] bstrOption  
Option

Return HRESULT

value Return S\_OK when succeeded.

Explanation Cancel execution of robot control method

```

HRESULT ICapServices::Robot_Change (
    [in] long hRobot,
    [in] BSTR bstrName
)

```

Function Execute CHANGE statement

Parameter [in] hRobot  
Handle to robot object

[in] bstrOption  
Option

Return HRESULT

value Return S\_OK when succeeded.

Explanation Refer to the specification of the CHANGE statement of SLIM for details.

```

HRESULT ICapServices::Robot_Chuck (
    [in] long hRobot,
    [in] BSTR bstrOption
)

```

Function Execute GRASP statement

Parameter [in] hRobot  
Handle to robot object

[in] bstrOption  
Option

Return HRESULT

value Return S\_OK when succeeded.

Explanation Refer to the specification of the GRASP statement of SLIM for details.

```
HRESULT ICapServices::Robot_Drive (
    [in] long hRobot,
    [in] long lNo,
    [in] float fMov,
    [in, defaultvalue("")] BSTR bstrOpt
)
```

Function Execution of DRIVE sentence

Parameter [in] hRobot  
Handle to robot object  
[in] lNo  
Axis number  
[in] fMov  
Amount of movement  
[in] bstrOpt  
[in] bstrOpt  
Option

Return HRESULT

value Return S\_OK when succeeded.

Explanation Refer to the specification of the DRIVE statement of SLIM for details.

Unlike SLIM, multi-joint motion is not supported. In the case, use ICapService::Robot\_Move method.

```
HRESULT ICapServices::Robot_Execute (
    [in] long hRobot,
    [in] BSTR bstrCommand,
    [in] VARIANT vntParam,
    [out, retval] VARIANT * pVal
)
```

Function Execute extension command

Parameter [in] hRobot  
Handle to robot object  
[in] bstrCommand  
Command  
[in] vntParam

Parameter  
 [out] pVal  
 Execution result  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Execute extension command.

```
HRESULT ICapServices::Robot_GetAttribute (
    [in] long hRobot,
    [out, retval] long * pVal
)
```

Function Get attribute  
 Parameter [in] hRobot  
 Handle to robot object  
 [out] pVal  
 Attribute  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get attribute value of the robot.

```
HRESULT ICapServices::Robot_GetHelp (
    [in] long hRobot,
    [out, retval] BSTR * pVal
)
```

Function Get help character string  
 Parameter [in] hRobot  
 Handle to robot object  
 [out] pVal  
 Help character string  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get help character string of the robot.

```
HRESULT ICapServices::Robot_GetID (
    [in] long hRobot,
    [out, retval] VARIANT * pVal
)
```

Function      Get ID  
 Parameter    [in] hRobot  
               Handle to robot object  
               [out] pVal  
               ID  
 Return        HRESULT  
 value        Return S\_OK when succeeded.  
 Explanation   Get ID of the robot.

```
HRESULT ICapServices::Robot_GetName (
    [in] long hRobot,
    [out, retval] BSTR * pVal
)
```

Function      Get robot name  
 Parameter    [in] hRobot  
               Handle to robot object  
               [out] pVal  
               Robot name  
 Return        HRESULT  
 value        Return S\_OK when succeeded.  
 Explanation   Get robot name of the object.

```
HRESULT ICapServices::Robot_GetTag (
    [in] long hRobot,
    [out, retval] VARIANT * pVal
)
```

Function      Get tag  
 Parameter    [in] hRobot  
               Handle to robot object  
               [out] pVal  
               Tag  
 Return        HRESULT  
 value        Return S\_OK when succeeded.  
 Explanation   Get tag of the robot.

```
HRESULT ICapServices::Robot_GetVariable (
    [in] long hRobot,
```

```
[in] BSTR bstrName,
[in, defaultvalue("")] BSTR bstrOption,
[out, retval] long * hVariable
)
```

**Function** Add variable object

**Parameter** [in] hRobot  
Handle to robot object

[in] bstrName  
Variable identifier.

[in] bstrOption  
Option

[out] hVariable  
Handle to variable object

**Return** HRESULT

**value** Return S\_OK when succeeded.

**Explanation** Create the IcaoVariable object, and get the variable object management handle in CapListener.

The created variable object is managed in CapListener. Execute the ICapServices::Variable\_Release method when you delete the object.

```
HRESULT ICapServices::Robot_GetVariableNames (
[in] long hRobot,
[in, defaultvalue("")] BSTR bstrOption,
[out, retval] VARIANT * pVal
)
```

**Function** Get variable name list

**Parameter** [in] hRobot  
Handle to robot object

[in] bstrOption  
Option

[out] pVal  
Variable identifier list

**Return** HRESULT

**value** Return S\_OK when succeeded.

**Explanation** Get variable name list.

```
HRESULT ICapServices::Robot_GoHome (
```

```
[in] long hRobot
)
```

Function Execute GOHOME statement

Parameter [in] hRobot  
Handle to robot object

Return HRESULT

value Return S\_OK when succeeded.

Explanation Refer to the specification of the GOHOME statement of SLIM for details.

```
HRESULT ICapServices::Robot_Halt (
    [in] long hRobot,
    [in] BSTR bstrOption
)
```

Function Execute HALT statement

Parameter [in] hRobot  
Handle to robot object

[in] bstrOption

Option

Return HRESULT

value Return S\_OK when succeeded.

Explanation Refer to the specification of the HALT statement of SLIM for details.

```
HRESULT ICapServices::Robot_Hold (
    [in] long hRobot,
    [in] BSTR bstrOption
)
```

Function Execute HOLD statement

Parameter [in] hRobot  
Handle to robot object

[in] bstrOption

Option

Return HRESULT

value Return S\_OK when succeeded.

Explanation Refer to the specification of the HOLD statement of SLIM for details.

```
HRESULT ICapServices::Robot_Move (
    [in] long hRobot,
```

```

[in] long lComp,
[in] VARIANT vntPose,
[in, defaultvalue("")] BSTR bstrOpt
)

```

Function Execute MOVE statement

Parameter [in] hRobot

Handle to robot object

[in] lComp

Interpolation specification.

1:PTP(point to point), 2: CP(continuous path), 3: Circular arc.

[in] vntPose

Posed array

Pose specification is manufacturer dependent.

[in] bstrOpt

Option

Return HRESULT

value Return S\_OK when succeeded.

Explanation Refer to the specification of the MOVE statement of SLIM for details.

```

HRESULT ICapServices::Robot_PutID (
[in] long hRobot,
[in] VARIANT newVal
)

```

Function Set ID

Parameter [in] hRobot

Handle to robot object

[in] newVal

ID

Return HRESULT

value Return S\_OK when succeeded.

Explanation Set ID of the robot.

```

HRESULT ICapServices::Robot_PutTag (
[in] long hRobot,
[in] VARIANT newVal
)

```

Function Set tag

Parameter [in] hRobot  
 Handle to robot object  
 [in] newVal  
 Tag

Return HRESULT

value Return S\_OK when succeeded.

Explanation Set tag of the robot.

```
HRESULT ICapServices::Robot_Release (
    [in] long hRobot
)
```

Function Release robot object

Parameter [in] hRobot  
 Handle to robot object

Return HRESULT

value Return S\_OK when succeeded.

Explanation Release the CapListener managed robot object of specified handle.

```
HRESULT ICapServices::Robot_Rotate (
    [in] long hRobot,
    [in] VARIANT vntRotSuf,
    [in] float fDeg,
    [in] VARIANT vntPivot,
    [in, defaultvalue("")] BSTR bstrOpt
)
```

Function Execute ROTATE statement

Parameter [in] hRobot  
 Handle to robot object  
 [in] vntRotSuf  
 Rotation plane  
 The specification method is manufacturer dependent.  
 [in] fDeg  
 Angle  
 [in] vntPivot  
 Rotation center  
 [in] bstrOpt  
 Option

Return           HRESULT  
 value            Return S\_OK when succeeded.  
 Explanation    Refer to the specification of the ROTATE statement of SLIM for details.

```
HRESULT ICapServices::Robot_Speed (
    [in] long hRobot,
    [in] long lAxis,
    [in] float fSpeed
)
```

Function       Execute SPEED/JSPEED statement  
 Parameter     [in] hRobot  
               Handle to robot object  
               [in] lAxis  
               Joint number  
               - 1: TCP speed, 0: All joint speed, other: speed for specified joint  
               [in] fSpeed  
               Speed  
 Return        HRESULT  
 value         Return S\_OK when succeeded.  
 Explanation   Refer to the specification of the SPEED/JSPEED statement of SLIM for details.

```
HRESULT ICapServices::Robot_Unchuck (
    [in] long hRobot,
    [in] BSTR bstrOption
)
```

Function       Execute UNCHUCK statement  
 Parameter     [in] hRobot  
               Handle to robot object  
               [in] bstrOption  
               Option  
 Return        HRESULT  
 value         Return S\_OK when succeeded.  
 Explanation   Refer to the specification of the UNCHUCK statement of SLIM for details.

### 2.3.1.5. File\_<Method>

```
HRESULT ICapServices::File_Copy (
    [in] long hFile,
```

```
[in] BSTR bstrName,
[in, defaultvalue("")] BSTR bstrOption
)
```

**Function** Copy file

**Parameter** [in] hFile  
Handle to file object

[in] bstrName  
Copy destination file name

[in] bstrOption  
Option

**Return value** HRESULT  
Return S\_OK when succeeded.

**Explanation** Copy file.

```
HRESULT ICapServices::File_Delete (
[in] long hFile,
[in, defaultvalue("")] BSTR bstrOption
)
```

**Function** Delete file

**Parameter** [in] hFile  
Handle to file object

[in] bstrOption  
Option

**Return value** HRESULT  
Return S\_OK when succeeded.

**Explanation** Delete file.

```
HRESULT ICapServices::File_Execute (
[in] long hFile,
[in] BSTR bstrCommand,
[in] VARIANT vntParam,
[out, retval] VARIANT * pVal
)
```

**Function** Execute extension command

**Parameter** [in] hFile  
Handle to file object

[in] bstrCommand

Command  
 [in] vntParam  
 Parameter  
 [out] pVal  
 Execution result  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Execute extension command.

```

HRESULT ICapServices::File_GetAttribute (
    [in] long hFile,
    [out, retval] long * pVal
)
  
```

Function Get attribute  
 Parameter [in] hFile  
 Handle to file object  
 [out] pVal  
 Attribute  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get attribute value of the file.

```

HRESULT ICapServices::File_GetDateCreated (
    [in] long hFile,
    [out, retval] VARIANT * pVal
)
  
```

Function Get file creation date  
 Parameter [in] hFile  
 Handle to file object  
 [out] pVal  
 File creation date  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get file creation date

```

HRESULT ICapServices::File_GetDateLastAccessed (
    [in] long hFile,
  
```

```
[out, retval] VARIANT * pVal
)
```

**Function** Get last file access date

**Parameter** [in] hFile  
Handle to file object

[out] pVal  
The last file access date

**Return** HRESULT

**value** Return S\_OK when succeeded.

**Explanation** Get last file access date.

```
HRESULT ICapServices::File_GetDateLastModified (
    [in] long hFile,
    [out, retval] VARIANT * pVal
)
```

**Function** Get last file modified date

**Parameter** [in] hFile  
Handle to file object

[out] pVal  
Last file modified date

**Return** HRESULT

**value** Return S\_OK when succeeded.

**Explanation** Get last file modified date

```
HRESULT ICapServices::File_GetFile (
    [in] long hParentFile,
    [in] BSTR bstrName,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] long * hFile
)
```

**Function** Add file object

**Parameter** [in] hFile  
Handle to file object

[in] bstrName  
File name.

[in] bstrOption  
Option

[out] hFile  
 Handle to file object

Return HRESULT

value Return S\_OK when succeeded.

Explanation Cerate the IcaoFile object, and get the file object management handle in CapListener.  
 The created file object is managed in CapListener. Execute the ICapServices::File\_Release method when you delete the object

```
HRESULT ICapServices::File_GetFileNames (
    [in] long hFile,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] VARIANT * pVal
)
```

Function Get file name list

Parameter [in] hFile  
 Handle to file object

[in] bstrOption  
 Option

[out] pVal  
 File name list

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get file name list.

```
HRESULT ICapServices::File_GetHelp (
    [in] long hFile,
    [out, retval] BSTR * pVal
)
```

Function Get help character string

Parameter [in] hFile  
 Handle to file object

[out] pVal  
 Help character string

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get help character string of the file.

```

HRESULT ICapServices::File_GetID (
    [in] long hFile,
    [out, retval] VARIANT * pVal
)

```

Function      Get ID

Parameter    [in] hFile  
                Handle to file object

                [out] pVal  
                ID

Return        HRESULT

value         Return S\_OK when succeeded.

Explanation   Get ID of the file.

```

HRESULT ICapServices::File_GetName (
    [in] long hFile,
    [out, retval] BSTR * pVal
)

```

Function      Get file name

Parameter    [in] hFile  
                Handle to file object

                [out] pVal  
                File name

Return        HRESULT

value         Return S\_OK when succeeded.

Explanation   Get file name of the object.

```

HRESULT ICapServices::File_GetPath (
    [in] long hFile,
    [out, retval] BSTR * pVal
)

```

Function      Get file path

Parameter    [in] hFile  
                Handle to file object

                [out] pVal  
                File path

Return        HRESULT

value         Return S\_OK when succeeded.

Explanation Get file path

```
HRESULT ICapServices::File_GetSize (
    [in] long hFile,
    [out, retval] long * pVal
)
```

Function Get file size

Parameter [in] hFile  
Handle to file object  
[out] pVal  
file size

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get file size

```
HRESULT ICapServices::File_GetTag (
    [in] long hFile,
    [out, retval] VARIANT * pVal
)
```

Function Set tag

Parameter [in] hFile  
Handle to file object  
[in] newVal  
Tag

Return HRESULT

value Return S\_OK when succeeded.

Explanation Set tag of the file.

```
HRESULT ICapServices::File_GetType (
    [in] long hFile,
    [out, retval] BSTR * pVal
)
```

Function Get file type

Parameter [in] hFile  
Handle to file object  
[out] pVal  
File type

Return        HRESULT  
value         Return S\_OK when succeeded.  
Explanation   Get type of the file.

```
HRESULT ICapServices::File_GetValue (
    [in] long hFile,
    [out, retval] VARIANT * pVal
)
```

Function     Get file data  
Parameter    [in] hFile  
              Handle to file object  
              [out] pVal  
              File data  
Return        HRESULT  
value         Return S\_OK when succeeded.  
Explanation   Get file data.

```
HRESULT ICapServices::File_GetVariable (
    [in] long hFile,
    [in] BSTR bstrName,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] long * hVariable
)
```

Function     Add variable object  
Parameter    [in] hFile  
              Handle to file object  
              [in] bstrName  
              Variable identifier.  
              [in] bstrOption  
              Option  
              [out] hVariable  
              Handle to variable object  
Return        HRESULT  
value         Return S\_OK when succeeded.  
Explanation   Cerate the IcaoVariable object, and get the variable object management handle in CapListener.  
              The created variable object is managed in CapListener. Execute the

ICapServices::Variable\_Release method when you delete the object

```
HRESULT ICapServices::File_GetVariableNames (
    [in] long hFile,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] VARIANT * pVal
)
```

**Function** Get variable name list

**Parameter** [in] hFile  
Handle to file object

[in] bstrOption  
Option

[out] pVal  
Variable identifier list

**Return value** HRESULT  
Return S\_OK when succeeded.

**Explanation** Get variable name list.

```
HRESULT ICapServices::File_Move (
    [in] long hFile,
    [in] BSTR bstrName,
    [in, defaultvalue("")] BSTR bstrOption
)
```

**Function** Move file

**Parameter** [in] hFile  
Handle to file object

[in] bstrName  
Destination file name

[in] bstrOption  
Option

**Return value** HRESULT  
Return S\_OK when succeeded.

**Explanation** Move file

```
HRESULT ICapServices::File_PutID (
    [in] long hFile,
    [in] VARIANT newVal
)
```

)

Function Set ID

Parameter [in] hFile  
Handle to file object

[in] newVal  
ID

Return HRESULT

value Return S\_OK when succeeded.

Explanation Set file ID

```
HRESULT ICapServices::File_PutTag (
    [in] long hFile,
    [in] VARIANT newVal
)
```

Function Set tag

Parameter [in] hFile  
Handle to file object

[in] newVal  
Tag

Return HRESULT

value Return S\_OK when succeeded.

Explanation Set file tag.

```
HRESULT ICapServices::File_PutValue (
    [in] long hFile,
    [in] VARIANT newVal
)
```

Function Set file data

Parameter [in] hFile  
Handle to file object

[in] newVal  
File data

Return HRESULT

value Return S\_OK when succeeded.

Explanation Set file data.

```
HRESULT ICapServices::File_Release (
```

```
[in] long hFile
```

```
)
```

Function Release file object

Parameter [in] hFile  
Handle to file object

Return HRESULT

value Return S\_OK when succeeded.

Explanation Release CapListener managed file object of specified handle.

```
HRESULT ICapServices::File_Run (
    [in] long hFile,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] BSTR * bstrName
)
```

Function Task creation

Parameter [in] hFile  
Handle to file object  
[in] bstrOption  
Option  
[out] bstrName  
Task name

Return HRESULT

value Return S\_OK when succeeded.

Explanation Generate a task from the file, and return the generated task name.

### 2.3.1.6. Task\_<Method>

```
HRESULT ICapServices::Task_Delete (
    [in] long hTask,
    [in, defaultvalue("")] BSTR bstrOption
)
```

Function Delete task

Parameter [in] hTask  
Handle to task object  
[in] bstrOption  
Option

Return HRESULT

value Return S\_OK when succeeded.

Explanation Delete task.

```
HRESULT ICapServices::Task_Execute (
    [in] long hTask,
    [in] BSTR bstrCommand,
    [in] VARIANT vntParam,
    [out, retval] VARIANT * pVal
)
```

Function Execute extension command

Parameter [in] hTask  
Handle to task object

[in] bstrCommand  
Command

[in] vntParam  
Parameter

[out] pVal  
Execution result

Return HRESULT

value Return S\_OK when succeeded.

Explanation Execute extension command.

```
HRESULT ICapServices::Task_GetAttribute (
    [in] long hTask,
    [out, retval] long * pVal
)
```

Function Get attribute

Parameter [in] hTask  
Handle to task object

[out] pVal  
Attribute

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get attribute value of the task.

```
HRESULT ICapServices::Task_GetFileName (
    [in] long hTask,
    [out, retval] BSTR * pVal
)
```

)

Function      Get corresponding file name

Parameter    [in] hTask  
                   Handle to task object

                  [out] pVal  
                   Corresponding file name

Return        HRESULT

value         Return S\_OK when succeeded.

Explanation   Get the file name that corresponds to the task.

```
HRESULT ICapServices::Task_GetHelp (
    [in] long hTask,
    [out, retval] BSTR * pVal
)
```

Function      Get help character string

Parameter    [in] hTask  
                   Handle to task object

                  [out] pVal  
                   Help character string

Return        HRESULT

value         Return S\_OK when succeeded.

Explanation   Get help character string of the task.

```
HRESULT ICapServices::Task_GetID (
    [in] long hTask,
    [out, retval] VARIANT * pVal
)
```

Function      Get ID

Parameter    [in] hTask  
                   Handle to task object

                  [out] pVal  
                   ID

Return        HRESULT

value         Return S\_OK when succeeded.

Explanation   Get ID of the task.

```
HRESULT ICapServices::Task_GetName (
```

```

[in] long hTask,
[out, retval] BSTR * pVal
)

```

Function     Get task name

Parameter    [in] hTask  
              Handle to task object

              [out] pVal  
              Task name

Return       HRESULT

value        Return S\_OK when succeeded.

Explanation  Get task name of the object.

```

HRESULT ICapServices::Task_GetTag (
[in] long hTask,
[out, retval] VARIANT * pVal
)

```

Function     Get tag

Parameter    [in] hTask  
              Handle to task object

              [out] pVal  
              Tag

Return       HRESULT

value        Return S\_OK when succeeded.

Explanation  Get tag of the task.

```

HRESULT ICapServices::Task_GetVariable (
[in] long hTask,
[in] BSTR bstrName,
[in, defaultvalue("")] BSTR bstrOption,
[out, retval] long * hVariable
)

```

Function     Add variable object

Parameter    [in] hTask  
              Handle to task object

              [in] bstrName  
              Variable identifier.

              [in] bstrOption

Option  
 [out] hVariable  
 Steering wheel of variable object

Return HRESULT  
 value Return S\_OK when succeeded.

Explanation Create the IcaoVariable object, and get the variable object management handle in CapListener.  
 The created variable object is managed in CapListener. Execute the ICapServices::Variable\_Release method when you delete the object.

```
HRESULT ICapServices::Task_GetVariableNames (
    [in] long hTask,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] VARIANT * pVal
)
```

Function Get variable name list

Parameter [in] hTask  
 Handle to task object  
 [in] bstrOption  
 Option  
 [out] pVal  
 Variable identifier list

Return HRESULT  
 value Return S\_OK when succeeded.

Explanation Get variable name list.

```
HRESULT ICapServices::Task_PutID (
    [in] long hTask,
    [in] VARIANT newVal
)
```

Function Set ID

Parameter [in] hTask  
 Handle to task object  
 [in] newVal  
 ID

Return HRESULT  
 value Return S\_OK when succeeded.

Explanation Set ID of the task.

```
HRESULT ICapServices::Task_PutTag (
    [in] long hTask,
    [in] VARIANT newVal
)
```

Function Set tag

Parameter [in] hTask  
Handle to task object  
[in] newVal  
Tag

Return HRESULT

value Return S\_OK when succeeded.

Explanation Set the tag of the task.

```
HRESULT ICapServices::Task_Release (
    [in] long hTask
)
```

Function Release task object

Parameter [in] hTask  
Handle to task object

Return HRESULT

value Return S\_OK when succeeded.

Explanation Release the CapListener managed file object of specified handle.

```
HRESULT ICapServices::Task_Start (
    [in] long hTask,
    [in] long lMode,
    [in, defaultvalue("")] BSTR bstrOption
)
```

Function Start task

Parameter [in] hTask  
Handle to task object  
[in] lMode  
Mode  
1: one cycle execution,  
2: continuous cycle execution,

3: one step forward execution,  
 4: one step backward execution.  
 [in] bstrOption  
 Option  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Start the execution of the task.

```
HRESULT ICapServices::Task_Stop (
    [in] long hTask,
    [in] long lMode,
    [in, defaultvalue("")] BSTR bstrOption
)
```

Function Stop task  
 Parameter [in] hTask  
 Handle to task object  
 [in] lMode  
 Mode  
 0: default stop  
 1: immediate stop  
 2: step stop  
 3: cycle stop  
 4: initialization stop  
 (The default stop is one of above mentioned stop type.)  
 [in] bstrOption  
 Option  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Stop the executing task.

#### 2.3.1.7. Command\_<Method>

```
HRESULT ICapServices::Command_Cancel (
    [in] long hCommand
)
```

Function Cancellation of command  
 Parameter [in] hCommand  
 Handle to command object

Return            HRESULT  
value             Return S\_OK when succeeded.  
Explanation     Cancel the command execution.

```
HRESULT ICapServices::Command_Execute (
    [in] long hCommand,
    [in] long lMode
)
```

Function        Execution of extension command

Parameter      [in] hCommand  
                  Handle to command object

                  [in] lMode  
                  Mode  
                  Bit1=0: synchronous execution, =1: asynchronous execution  
                  Other bits are provider dependent.

Return         HRESULT  
value             Return S\_OK when succeeded.  
                  Return S\_FALSE for asynchronously execution.

Explanation    Execute extension command.  
                  Execute ICapService::Command\_GetResult method to get the execution result of the  
                  command.

```
HRESULT ICapServices::Command_GetAttribute (
    [in] long hCommand,
    [out, retval] long * pVal
)
```

Function        Get attribute

Parameter      [in] hCommand  
                  Handle to command object

                  [out] pVal  
                  Attribute

Return         HRESULT  
value             Return S\_OK when succeeded.

Explanation    Get attribute value of the command.

```
HRESULT ICapServices::Command_GetHelp (
    [in] long hCommand,
```

```
[out, retval] BSTR * pVal
```

```
)
```

Function      Get help character string

Parameter    [in] hCommand

                Handle to command object

[out] pVal

                Help character string

Return        HRESULT

value         Return S\_OK when succeeded.

Explanation    Get help character string of the command.

```
HRESULT ICapServices::Command_GetID (
```

```
    [in] long hCommand,
```

```
    [out, retval] VARIANT * pVal
```

```
)
```

Function      Get ID

Parameter    [in] hCommand

                Handle to command object

[out] pVal

                ID

Return        HRESULT

value         Return S\_OK when succeeded.

Explanation    Get ID of the command.

```
HRESULT ICapServices::Command_GetName (
```

```
    [in] long hCommand,
```

```
    [out, retval] BSTR * pVal
```

```
)
```

Function      Get command name

Parameter    [in] hCommand

                Handle to command object

[out] pVal

                Command name

Return        HRESULT

value         Return S\_OK when succeeded.

Explanation    Get command name of the object.

```

HRESULT ICapServices::Command_GetParameters (
    [in] long hCommand,
    [out, retval] VARIANT * pVal
)

```

Function      Get parameter

Parameter     [in] hCommand  
                   Handle to command object

                  [out] pVal  
                   Parameter

Return         HRESULT

value          Return S\_OK when succeeded.

Explanation    Get parameter of the command execution.

```

HRESULT ICapServices::Command_GetResult (
    [in] long hCommand,
    [in] VARIANT * pVal
)

```

Function      Get execution result

Parameter     [in] hCommand  
                   Handle to command object

                  [out] pVal  
                   Execution result

Return         HRESULT

value          Return S\_OK when succeeded. Return the error code here when there is an error on command execution.

Explanation    Get the execution result of latest executed ICapServices::Command\_Execute method.

```

HRESULT ICapServices::Command_GetState (
    [in] long hCommand,
    [out, retval] long * pVal
)

```

Function      Get execution state

Parameter     [in] hCommand  
                   Handle to command object

                  [out] pVal  
                   State

                  Bit1=0: standby, =1:executing

Other bits are provider dependent.

Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get the execution state of the command.

```
HRESULT ICapServices::Command_GetTag (
    [in] long hCommand,
    [out, retval] VARIANT * pVal
)
```

Function Get tag  
 Parameter [in] hCommand  
 Handle to command object  
 [out] pVal  
 Tag  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get tag of the task.

```
HRESULT ICapServices::Command_GetTimeout (
    [in] long hCommand,
    [out, retval] long * pVal
)
```

Function Get time-out time  
 Parameter [in] hCommand  
 Handle to command object  
 [out] pVal  
 Time-out time  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get command execution time-out time.

```
HRESULT ICapServices::Command_PutID (
    [in] long hCommand,
    [in] VARIANT newVal
)
```

Function Set ID  
 Parameter [in] hCommand

Handle to command object  
[in] newVal  
ID  
Return HRESULT  
value Return S\_OK when succeeded.  
Explanation Set ID of the command.

```
HRESULT ICapServices::Command_PutParameters (
    [in] long hCommand,
    [in] VARIANT newVal
)
```

Function Set parameter  
Parameter [in] hCommand  
Handle to command object  
[in] newVal  
Parameter  
Return HRESULT  
value Return S\_OK when succeeded.  
Explanation Set parameter for command execution.

```
HRESULT ICapServices::Command_PutTag (
    [in] long hCommand,
    [in] VARIANT newVal
)
```

Function Set tag  
Parameter [in] hCommand  
Handle to command object  
[in] newVal  
Tag  
Return HRESULT  
value Return S\_OK when succeeded.  
Explanation Set tag of the task.

```
HRESULT ICapServices::Command_PutTimeout (
    [in] long hCommand,
    [in] long newVal
)
```

Function	Set time-out time
Parameter	[in] hCommand Handle to command object
	[in] newVal Time-out time
Return value	HRESULT Return S_OK when succeeded.
Explanation	Set the command execution time-out time.

```
HRESULT ICapServices::Command_Release (
    [in] long hCommand
)
```

Function	Release command object
Parameter	[in] hCommand Handle to command object
Return value	HRESULT Return S_OK when succeeded.
Explanation	Release the CapListener managed command object of specified handle.

### 2.3.1.8. Extension\_<Method>

```
HRESULT ICapServices::Extension_Execute (
    [in] long hExtension,
    [in] BSTR bstrCommand,
    [in] VARIANT vntParam,
    [out, retval] VARIANT * pVal
)
```

Function	Execute extension command
Parameter	[in] hExtension Handle to extension board object
	[in] bstrCommand Command
	[in] vntParam Parameter
	[out] pVal Execution result
Return value	HRESULT Return S_OK when succeeded.

Explanation Execute extension command.

```
HRESULT ICapServices::Extension_GetAttribute (
    [in] long hExtension,
    [out, retval] long * pVal
)
```

Function Get attribute

Parameter [in] hExtension

[in] hExtension

Handle to extension board object

[out] pVal

Attribute

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get attribute value of the enhancing board.

```
HRESULT ICapServices::Extension_GetHelp (
    [in] long hExtension,
    [out, retval] BSTR * pVal
)
```

Function Get help character string

Parameter [in] hExtension

Handle to extension board object

[out] pVal

Help character string

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get help character string of the enhancing board.

```
HRESULT ICapServices::Extension_GetID (
    [in] long hExtension,
    [out, retval] VARIANT * pVal
)
```

Function Get ID

Parameter [in] hExtension

Handle to extension board object

[out] pVal

## ID

Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get ID of the enhancing board.

```
HRESULT ICapServices::Extension_GetName (
    [in] long hExtension,
    [out, retval] BSTR * pVal
)
```

Function Get extension board name  
 Parameter [in] hExtension  
     Handle to extension board object  
     [out] pVal  
     Exetnsion board name  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get extension board name of the object.

```
HRESULT ICapServices::Extension_GetTag (
    [in] long hExtension,
    [out, retval] VARIANT * pVal
)
```

Function Get tag  
 Parameter [in] hExtension  
     Handle to extension board object  
     [out] pVal  
     Tag  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get tag of the extension board.

```
HRESULT ICapServices::Extension_GetVariable (
    [in] long hExtension,
    [in] BSTR bstrName,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] long * hVariable
)
```

Function	Add variable object
Parameter	[in] hExtension Handle to extension board object
	[in] bstrName Variable identifier.
	[in] bstrOption Option
	[out] hVariable Handle to variable object
Return value	HRESULT Return S_OK when succeeded.
Explanation	<p>Crete the IcaoVariable object, and get the variable object management handle in CapListener.</p> <p>The created variable object is managed in CapListener. Execute the ICapServices::Variable_Release method when you delete the object.</p>

```

HRESULT ICapServices::Extension_GetVariableNames (
    [in] long hExtension,
    [in, defaultvalue("")] BSTR bstrOption,
    [out, retval] VARIANT * pVal
)

```

Function	Get variable name list
Parameter	[in] hExtension Handle to extension board object
	[in] bstrOption Option
	[out] pVal Variable identifier list
Return value	HRESULT Return S_OK when succeeded.
Explanation	Get variable name list.

```

HRESULT ICapServices::Extension_PutID (
    [in] long hExtension,
    [in] VARIANT newVal
)

```

Function	Set ID
----------	--------

Parameter [in] hExtension  
 Handle to extension board object  
 [in] newVal  
 ID  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Set ID of the extension board.

```
HRESULT ICapServices::Extension_PutTag (
    [in] long hExtension,
    [in] VARIANT newVal
)
```

Function Set tag  
 Parameter [in] hExtension  
 Handle to extension board object  
 [in] newVal  
 Tag  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Set the tag of the extension board.

```
HRESULT ICapServices::Extension_Release (
    [in] long hExtension
)
```

Function Release extension board object  
 Parameter [in] hExtension  
 Handle to extension board object  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Release the CapListener managed extension board object of specified handle.

### 2.3.1.9. Message\_<Method>

```
HRESULT ICapServices::Message_Clear (
    [in] long hMessage
)
```

Function Clear message  
 Parameter [in] hMessage

Handle to message object

Return HRESULT

value Return S\_OK when succeeded.

Explanation Clear message.

```
HRESULT ICapServices::Message_GetDateTime (
    [in] long hMessage,
    [out, retval] VARIANT * pVal
)
```

Function Get creation date

Parameter [in] hMessage

Handle to message object

[out] pVal

Creation date

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get creation date of the message.

```
HRESULT ICapServices::Message_GetDescription (
    [in] long hMessage,
    [out, retval] BSTR * pVal
)
```

Function Get description

Parameter [in] hMessage

Handle to message object

[out] pVal

description

Return HRESULT

value Return S\_OK when succeeded.

Explanation Get description of message

```
HRESULT ICapServices:: Message_GetDestination (
    [in] long hMessage,
    [out, retval] BSTR * pVal
)
```

Function Get destination

Parameter [in] hMessage

Handle to message object  
 [out] pVal  
 destination  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get message destination

```

HRESULT ICapServices::Message_GetNumber (
    [in] long hMessage,
    [out, retval] long * pVal
)
  
```

Function Get message number  
 Parameter [in] hMessage  
 Handle to message object  
 [out] pVal  
 Message number  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get message number of the enhancing board.

```

HRESULT ICapServices::Message_GetSerialNumber (
    [in] long hMessage,
    [out, retval] long * pVal
)
  
```

Function Get message serial number  
 Parameter [in] hMessage  
 Handle to message object  
 [out] pVal  
 Message serial number  
 Return HRESULT  
 value Return S\_OK when succeeded.  
 Explanation Get serial number for the message.

```

HRESULT ICapServices::Message_GetSource (
    [in] long hMessage,
    [out, retval] BSTR * pVal
)
  
```

Function      Get source of the message  
 Parameter    [in] hMessage  
               Handle to message object  
               [out] pVal  
               source of the message  
 Return        HRESULT  
 value         Return S\_OK when succeeded.  
 Explanation   Get source of the message

```
HRESULT ICapServices::Message_GetValue (
    [in] long hMessage,
    [out, retval] VARIANT * pVal
)
```

Function      Get message text  
 Parameter    [in] hMessage  
               Handle to message object  
               [out] pVal  
               Text  
 Return        HRESULT  
 value         Return S\_OK when succeeded.  
 Explanation   Get text of the message.

```
HRESULT ICapServices::Message_Release (
    [in] long hMessage
)
```

Function      Release message object  
 Parameter    [in] hMessage  
               Handle to message object  
 Return        HRESULT  
 value         Return S\_OK when succeeded.  
 Explanation   Release the CapListener managed message object of specified handle.

```
HRESULT ICapServices:: Message_Reply (
    [in] long hMessage,
    [in] VARIANT vntData
)
```

Function      Reply message

Parameter	[in] hMessage Handle to message object
	[out] pVal Reply data
Return value	HRESULT Return S_OK when succeeded.
Explanation	Reply message.

## Appendix A.

### Appendix A.1. CAP-WSDL

#### List 2-1

#### CapListener.WSDL

```

<?xml version='1.0' encoding='UTF-8' ?>
<!-- Generated 04/08/14 by Microsoft SOAP Toolkit WSDL File Generator, Version 3.00.1325.0 -->
<definitions
  name='CapListener'
  targetNamespace='http://tempuri.org/CapListener/wsd1/'
  xmlns:wsd1ns='http://tempuri.org/CapListener/wsd1/'
  xmlns:typens='http://tempuri.org/CapListener/type/'
  xmlns:soap='http://schemas.xmlsoap.org/wsdl/soap/'
  xmlns:xsd='http://www.w3.org/2001/XMLSchema'
  xmlns:stk='http://schemas.microsoft.com/soap-toolkit/wsd1-extension'
  xmlns:dime='http://schemas.xmlsoap.org/ws/2002/04/dime/wsd1/'
  xmlns:ref='http://schemas.xmlsoap.org/ws/2002/04/reference/'
  xmlns:content='http://schemas.xmlsoap.org/ws/2002/04/content-type/'
  xmlns:wsd1='http://schemas.xmlsoap.org/wsdl/'
  xmlns='http://schemas.xmlsoap.org/wsdl/' >

  <types>
    <schema
      targetNamespace='http://tempuri.org/CapListener/type/'
      xmlns='http://www.w3.org/2001/XMLSchema'
      xmlns:SOAP-ENC='http://schemas.xmlsoap.org/soap/encoding/'
      xmlns:wsd1='http://schemas.xmlsoap.org/wsdl/'
      elementFormDefault='qualified' >

      <import namespace='http://schemas.xmlsoap.org/soap/encoding/' />
      <import namespace='http://schemas.xmlsoap.org/wsdl/' />
      <import
namespace='http://schemas.xmlsoap.org/ws/2002/04/reference/' />
      <import
namespace='http://schemas.xmlsoap.org/ws/2002/04/content-type/' />

    </schema>
  </types>

  <message name='CapServices.Service_Start' >
    <part name='bstrOption' type='xsd:string' />
  </message>

  <message name='CapServices.Service_StartResponse' >
  </message>

  <message name='CapServices.Service_Stop' >
  </message>

  <message name='CapServices.Service_StopResponse' >
  </message>

  <message name='CapServices.Controller_Connect' >
    <part name='bstrController' type='xsd:string' />
    <part name='bstrProvider' type='xsd:string' />
    <part name='bstrMachine' type='xsd:string' />
    <part name='bstrOption' type='xsd:string' />
  </message>

  <message name='CapServices.Controller_ConnectResponse' >
    <part name='Result' type='xsd:int' />
  </message>

```

```
<message name=' CapServices. Controller_Disconnect' >
  <part name=' hController' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_DisconnectResponse' >
</message>

<message name=' CapServices. Controller_GetExtension' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrName' type=' xsd:string' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices. Controller_GetExtensionResponse' >
  <part name=' Result' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetFile' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrName' type=' xsd:string' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices. Controller_GetFileResponse' >
  <part name=' Result' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetRobot' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrName' type=' xsd:string' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices. Controller_GetRobotResponse' >
  <part name=' Result' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetTask' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrName' type=' xsd:string' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices. Controller_GetTaskResponse' >
  <part name=' Result' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetVariable' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrName' type=' xsd:string' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices. Controller_GetVariableResponse' >
  <part name=' Result' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetCommand' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrName' type=' xsd:string' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices. Controller_GetCommandResponse' >
  <part name=' Result' type=' xsd:int' />
```

```
</message>

<message name=' CapServices.Controller_GetExtensionNames' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Controller_GetExtensionNamesResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.Controller_GetFileNames' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Controller_GetFileNamesResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.Controller_GetRobotNames' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Controller_GetRobotNamesResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.Controller_GetTaskNames' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Controller_GetTaskNamesResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.Controller_GetVariableNames' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Controller_GetVariableNamesResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.Controller_GetCommandNames' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Controller_GetCommandNamesResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.Controller_Execute' >
  <part name=' hController' type=' xsd:int' />
  <part name=' bstrCommand' type=' xsd:string' />
  <part name=' vntParam' type=' xsd:anyType' />
</message>

<message name=' CapServices.Controller_ExecuteResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>
```

```
<message name=' CapServices. Controller_GetMessage' >
  <part name=' hController' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetMessageResponse' >
  <part name=' Result' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetAttribute' >
  <part name=' hController' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetAttributeResponse' >
  <part name=' Result' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetHelp' >
  <part name=' hController' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetHelpResponse' >
  <part name=' Result' type=' xsd:string' />
</message>

<message name=' CapServices. Controller_GetName' >
  <part name=' hController' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetNameResponse' >
  <part name=' Result' type=' xsd:string' />
</message>

<message name=' CapServices. Controller_GetTag' >
  <part name=' hController' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetTagResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices. Controller_PutTag' >
  <part name=' hController' type=' xsd:int' />
  <part name=' newVal' type=' xsd:anyType' />
</message>

<message name=' CapServices. Controller_PutTagResponse' >
</message>

<message name=' CapServices. Controller_GetID' >
  <part name=' hController' type=' xsd:int' />
</message>

<message name=' CapServices. Controller_GetIDResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices. Controller_PutID' >
  <part name=' hController' type=' xsd:int' />
  <part name=' newVal' type=' xsd:anyType' />
</message>

<message name=' CapServices. Controller_PutIDResponse' >
</message>

<message name=' CapServices. Extension_GetVariable' >
  <part name=' hExtension' type=' xsd:int' />
```

```
        <part name=' bstrName' type=' xsd:string' />
        <part name=' bstrOption' type=' xsd:string' />
    </message>

    <message name=' CapServices.Extension_GetVariableResponse' >
        <part name=' Result' type=' xsd:int' />
    </message>

    <message name=' CapServices.Extension_GetVariableNames' >
        <part name=' hExtension' type=' xsd:int' />
        <part name=' bstrOption' type=' xsd:string' />
    </message>

    <message name=' CapServices.Extension_GetVariableNamesResponse' >
        <part name=' Result' type=' xsd:anyType' />
    </message>

    <message name=' CapServices.Extension_Execute' >
        <part name=' hExtension' type=' xsd:int' />
        <part name=' bstrCommand' type=' xsd:string' />
        <part name=' vntParam' type=' xsd:anyType' />
    </message>

    <message name=' CapServices.Extension_ExecuteResponse' >
        <part name=' Result' type=' xsd:anyType' />
    </message>

    <message name=' CapServices.Extension_GetAttribute' >
        <part name=' hExtension' type=' xsd:int' />
    </message>

    <message name=' CapServices.Extension_GetAttributeResponse' >
        <part name=' Result' type=' xsd:int' />
    </message>

    <message name=' CapServices.Extension_GetHelp' >
        <part name=' hExtension' type=' xsd:int' />
    </message>

    <message name=' CapServices.Extension_GetHelpResponse' >
        <part name=' Result' type=' xsd:string' />
    </message>

    <message name=' CapServices.Extension_GetName' >
        <part name=' hExtension' type=' xsd:int' />
    </message>

    <message name=' CapServices.Extension_GetNameResponse' >
        <part name=' Result' type=' xsd:string' />
    </message>

    <message name=' CapServices.Extension_GetTag' >
        <part name=' hExtension' type=' xsd:int' />
    </message>

    <message name=' CapServices.Extension_GetTagResponse' >
        <part name=' Result' type=' xsd:anyType' />
    </message>

    <message name=' CapServices.Extension_PutTag' >
        <part name=' hExtension' type=' xsd:int' />
        <part name=' newVal' type=' xsd:anyType' />
    </message>

    <message name=' CapServices.Extension_PutTagResponse' >
    </message>
```

```
<message name=' CapServices.Extension_GetID' >
  <part name=' hExtension' type=' xsd:int' />
</message>

<message name=' CapServices.Extension_GetIDResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.Extension_PutID' >
  <part name=' hExtension' type=' xsd:int' />
  <part name=' newVal' type=' xsd:anyType' />
</message>

<message name=' CapServices.Extension_PutIDResponse' >
</message>

<message name=' CapServices.Extension_Release' >
  <part name=' hExtension' type=' xsd:int' />
</message>

<message name=' CapServices.Extension_ReleaseResponse' >
</message>

<message name=' CapServices.File_GetFile' >
  <part name=' hParentFile' type=' xsd:int' />
  <part name=' bstrName' type=' xsd:string' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.File_GetFileResponse' >
  <part name=' Result' type=' xsd:int' />
</message>

<message name=' CapServices.File_GetVariable' >
  <part name=' hFile' type=' xsd:int' />
  <part name=' bstrName' type=' xsd:string' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.File_GetVariableResponse' >
  <part name=' Result' type=' xsd:int' />
</message>

<message name=' CapServices.File_GetFileNames' >
  <part name=' hFile' type=' xsd:int' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.File_GetFileNamesResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.File_GetVariableNames' >
  <part name=' hFile' type=' xsd:int' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.File_GetVariableNamesResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.File_Execute' >
  <part name=' hFile' type=' xsd:int' />
  <part name=' bstrCommand' type=' xsd:string' />
  <part name=' vntParam' type=' xsd:anyType' />
```

```
</message>

<message name=' CapServices.File_ExecuteResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.File_Copy' >
  <part name=' hFile' type=' xsd:int' />
  <part name=' bstrName' type=' xsd:string' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.File_CopyResponse' >
</message>

<message name=' CapServices.File_Delete' >
  <part name=' hFile' type=' xsd:int' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.File_DeleteResponse' >
</message>

<message name=' CapServices.File_Move' >
  <part name=' hFile' type=' xsd:int' />
  <part name=' bstrName' type=' xsd:string' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.File_MoveResponse' >
</message>

<message name=' CapServices.File_Run' >
  <part name=' hFile' type=' xsd:int' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.File_RunResponse' >
  <part name=' Result' type=' xsd:string' />
</message>

<message name=' CapServices.File_GetDateCreated' >
  <part name=' hFile' type=' xsd:int' />
</message>

<message name=' CapServices.File_GetDateCreatedResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.File_GetDateLastAccessed' >
  <part name=' hFile' type=' xsd:int' />
</message>

<message name=' CapServices.File_GetDateLastAccessedResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.File_GetDateLastModified' >
  <part name=' hFile' type=' xsd:int' />
</message>

<message name=' CapServices.File_GetDateLastModifiedResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.File_GetPath' >
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</message>

<message name=' CapServices.File_GetPathResponse' >
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<message name=' CapServices.File_GetSize' >
  <part name=' hFile' type='xsd:int' />
</message>

<message name=' CapServices.File_GetSizeResponse' >
  <part name=' Result' type='xsd:int' />
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<message name=' CapServices.File_GetType' >
  <part name=' hFile' type='xsd:int' />
</message>

<message name=' CapServices.File_GetTypeResponse' >
  <part name=' Result' type='xsd:string' />
</message>

<message name=' CapServices.File_GetValue' >
  <part name=' hFile' type='xsd:int' />
</message>

<message name=' CapServices.File_GetValueResponse' >
  <part name=' Result' type='xsd:anyType' />
</message>

<message name=' CapServices.File_PutValue' >
  <part name=' hFile' type='xsd:int' />
  <part name=' newVal' type='xsd:anyType' />
</message>

<message name=' CapServices.File_PutValueResponse' >
</message>

<message name=' CapServices.File_GetAttribute' >
  <part name=' hFile' type='xsd:int' />
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<message name=' CapServices.File_GetAttributeResponse' >
  <part name=' Result' type='xsd:int' />
</message>

<message name=' CapServices.File_GetHelp' >
  <part name=' hFile' type='xsd:int' />
</message>

<message name=' CapServices.File_GetHelpResponse' >
  <part name=' Result' type='xsd:string' />
</message>

<message name=' CapServices.File_GetName' >
  <part name=' hFile' type='xsd:int' />
</message>

<message name=' CapServices.File_GetNameResponse' >
  <part name=' Result' type='xsd:string' />
</message>

<message name=' CapServices.File_GetTag' >
  <part name=' hFile' type='xsd:int' />
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<message name=' CapServices.File_GetTagResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.File_PutTag' >
  <part name=' hFile' type=' xsd:int' />
  <part name=' newVal' type=' xsd:anyType' />
</message>

<message name=' CapServices.File_PutTagResponse' >
</message>

<message name=' CapServices.File_GetID' >
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<message name=' CapServices.File_GetIDResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.File_PutID' >
  <part name=' hFile' type=' xsd:int' />
  <part name=' newVal' type=' xsd:anyType' />
</message>

<message name=' CapServices.File_PutIDResponse' >
</message>

<message name=' CapServices.File_Release' >
  <part name=' hFile' type=' xsd:int' />
</message>

<message name=' CapServices.File_ReleaseResponse' >
</message>

<message name=' CapServices.Robot_GetVariable' >
  <part name=' hRobot' type=' xsd:int' />
  <part name=' bstrName' type=' xsd:string' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Robot_GetVariableResponse' >
  <part name=' Result' type=' xsd:int' />
</message>

<message name=' CapServices.Robot_GetVariableNames' >
  <part name=' hRobot' type=' xsd:int' />
  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Robot_GetVariableNamesResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.Robot_Execute' >
  <part name=' hRobot' type=' xsd:int' />
  <part name=' bstrCommand' type=' xsd:string' />
  <part name=' vntParam' type=' xsd:anyType' />
</message>

<message name=' CapServices.Robot_ExecuteResponse' >
  <part name=' Result' type=' xsd:anyType' />
</message>

<message name=' CapServices.Robot_Accelerate' >
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```
        <part name=' hRobot' type=' xsd:int' />
        <part name=' lAxis' type=' xsd:int' />
        <part name=' fAccel' type=' xsd:float' />
        <part name=' fDecel' type=' xsd:float' />
    </message>

<message name=' CapServices.Robot_AccelerateResponse' >
</message>

<message name=' CapServices.Robot_Change' >
    <part name=' hRobot' type=' xsd:int' />
    <part name=' bstrName' type=' xsd:string' />
</message>

<message name=' CapServices.Robot_ChangeResponse' >
</message>

<message name=' CapServices.Robot_Chuck' >
    <part name=' hRobot' type=' xsd:int' />
    <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Robot_ChuckResponse' >
</message>

<message name=' CapServices.Robot_Drive' >
    <part name=' hRobot' type=' xsd:int' />
    <part name=' lNo' type=' xsd:int' />
    <part name=' fMov' type=' xsd:float' />
    <part name=' bstrOpt' type=' xsd:string' />
</message>

<message name=' CapServices.Robot_DriveResponse' >
</message>

<message name=' CapServices.Robot_GoHome' >
    <part name=' hRobot' type=' xsd:int' />
</message>

<message name=' CapServices.Robot_GoHomeResponse' >
</message>

<message name=' CapServices.Robot_Halt' >
    <part name=' hRobot' type=' xsd:int' />
    <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Robot_HaltResponse' >
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<message name=' CapServices.Robot_Hold' >
    <part name=' hRobot' type=' xsd:int' />
    <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Robot_HoldResponse' >
</message>

<message name=' CapServices.Robot_Move' >
    <part name=' hRobot' type=' xsd:int' />
    <part name=' lComp' type=' xsd:int' />
    <part name=' vntPose' type=' xsd:anyType' />
    <part name=' bstrOpt' type=' xsd:string' />
</message>

<message name=' CapServices.Robot_MoveResponse' >
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</message>

<message name=' CapServices.Robot_Rotate' >
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  <part name=' vntRotSuf' type=' xsd:anyType' />
  <part name=' fDeg' type=' xsd:float' />
  <part name=' vntPivot' type=' xsd:anyType' />
  <part name=' bstrOpt' type=' xsd:string' />
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<message name=' CapServices.Robot_RotateResponse' >
</message>

<message name=' CapServices.Robot_Speed' >
  <part name=' hRobot' type=' xsd:int' />
  <part name=' lAxis' type=' xsd:int' />
  <part name=' fSpeed' type=' xsd:float' />
</message>

<message name=' CapServices.Robot_SpeedResponse' >
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<message name=' CapServices.Robot_Unchuck' >
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  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Robot_UnchuckResponse' >
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<message name=' CapServices.Robot_Unhold' >
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  <part name=' bstrOption' type=' xsd:string' />
</message>

<message name=' CapServices.Robot_UnholdResponse' >
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<message name=' CapServices.Robot_GetAttribute' >
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<message name=' CapServices.Robot_GetAttributeResponse' >
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<message name=' CapServices.Robot_GetHelp' >
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<message name=' CapServices.Robot_GetHelpResponse' >
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<message name=' CapServices.Robot_GetName' >
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</message>

<message name=' CapServices.Robot_GetNameResponse' >
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<message name=' CapServices.Robot_GetTag' >
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<message name=' CapServices. Robot_PutTag' >
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  <part name=' newVal' type=' xsd:anyType' />
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<message name=' CapServices. Robot_PutTagResponse' >
</message>

<message name=' CapServices. Robot_GetID' >
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<message name=' CapServices. Robot_GetIDResponse' >
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<message name=' CapServices. Robot_PutID' >
  <part name=' hRobot' type=' xsd:int' />
  <part name=' newVal' type=' xsd:anyType' />
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<message name=' CapServices. Robot_PutIDResponse' >
</message>

<message name=' CapServices. Robot_Release' >
  <part name=' hRobot' type=' xsd:int' />
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<message name=' CapServices. Robot_ReleaseResponse' >
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<message name=' CapServices. Task_GetVariable' >
  <part name=' hTask' type=' xsd:int' />
  <part name=' bstrName' type=' xsd:string' />
  <part name=' bstrOption' type=' xsd:string' />
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<message name=' CapServices. Task_GetVariableResponse' >
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<message name=' CapServices. Task_GetVariableNames' >
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  <part name=' bstrOption' type=' xsd:string' />
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<message name=' CapServices. Task_GetVariableNamesResponse' >
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<message name=' CapServices. Task_Execute' >
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<message name=' CapServices. Task_Start' >
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    <message name=' CapServices.Task_Stop' >
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    <message name=' CapServices.Task_Delete' >
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        <part name=' bstrOption' type=' xsd:string' />
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    <message name=' CapServices.Task_DeleteResponse' >
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    <message name=' CapServices.Task_GetFileName' >
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    <message name=' CapServices.Task_GetFileNameResponse' >
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    <message name=' CapServices.Task_GetAttribute' >
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    <message name=' CapServices.Task_GetHelpResponse' >
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    <message name=' CapServices.Task_GetName' >
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    <message name=' CapServices.Task_GetTagResponse' >
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<message name=' CapServices.Task_GetIDResponse' >
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  <part name=' newVal' type=' xsd:anyType' />
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<message name=' CapServices.Task_Release' >
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<message name=' CapServices.Task_ReleaseResponse' >
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<message name=' CapServices.Variable_GetDateTime' >
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<message name=' CapServices.Variable_GetDateTimeResponse' >
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<message name=' CapServices.Variable_GetValue' >
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<message name=' CapServices.Variable_GetValueResponse' >
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<message name=' CapServices.Variable_GetAttributeResponse' >
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<message name=' CapServices.Variable_GetHelpResponse' >
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<message name='CapServices.Variable_PutTag'>
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<message name='CapServices.Variable_PutTagResponse'>
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<message name='CapServices.Variable_GetID'>
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<message name='CapServices.Variable_GetIDResponse'>
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<message name='CapServices.Variable_PutID'>
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<message name='CapServices.Variable_PutIDResponse'>
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<message name='CapServices.Variable_Release'>
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<message name='CapServices.Variable_ReleaseResponse'>
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<message name=' CapServices.Command_GetTimeoutResponse' >
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<message name=' CapServices.Command_PutTimeout' >
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  <part name=' newVal' type=' xsd:int' />
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<message name=' CapServices.Command_PutTimeoutResponse' >
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<message name=' CapServices.Command_GetState' >
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<message name=' CapServices.Command_GetStateResponse' >
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<message name=' CapServices.Command_PutParametersResponse' >
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<message name=' CapServices.Command_GetResult' >
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<message name=' CapServices.Command_GetResultResponse' >
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<message name=' CapServices.Command_GetAttributeResponse' >
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<message name=' CapServices.Command_GetHelp' >
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<message name=' CapServices. Command_GetNameResponse' >
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<message name=' CapServices. Command_GetTagResponse' >
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<message name=' CapServices. Command_PutTagResponse' >
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<message name=' CapServices. Command_GetID' >
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<message name=' CapServices. Command_GetIDResponse' >
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<message name=' CapServices. Command_PutID' >
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<message name=' CapServices. Command_PutIDResponse' >
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<message name=' CapServices. Command_Release' >
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<message name=' CapServices. Command_ReleaseResponse' >
</message>

<message name=' CapServices. Message_Reply' >
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  <part name=' vntData' type=' xsd:anyType' />
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<message name=' CapServices. Message_ReplyResponse' >
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<message name=' CapServices. Message_Clear' >
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<message name=' CapServices. Message_ClearResponse' >
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<message name=' CapServices. Message_GetDescriptionResponse' >
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<message name=' CapServices. Message_GetDestinationResponse' >
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<message name=' CapServices. Message_GetNumber' >
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<message name=' CapServices. Message_GetNumberResponse' >
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<message name=' CapServices. Message_GetSerialNumber' >
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<message name=' CapServices. Message_GetSerialNumberResponse' >
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<message name=' CapServices. Message_GetSource' >
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<message name=' CapServices. Message_GetSourceResponse' >
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<message name=' CapServices. Message_GetValue' >
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<message name=' CapServices. Message_GetValueResponse' >
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<message name=' CapServices. Message_Release' >
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<message name=' CapServices. Message_ReleaseResponse' >
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<message name=' CapServices. GetLastResult' >
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<message name=' CapServices. GetLastResultResponse' >
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<portType name=' CapServicesSoapPort' >

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        <output message=' wsdlNs:CapServices. Service_StartResponse' />
    </operation>

    <operation name=' Service_Stop' >
        <input message=' wsdlNs:CapServices. Service_Stop' />
        <output message=' wsdlNs:CapServices. Service_StopResponse' />
    </operation>

    <operation name=' Controller_Connect' parameterOrder=' bstrController
bstrProvider bstrMachine bstrOption' >
        <input message=' wsdlNs:CapServices. Controller_Connect' />
        <output message=' wsdlNs:CapServices. Controller_ConnectResponse' />
    </operation>

    <operation name=' Controller_Disconnect' parameterOrder=' hController' >
        <input message=' wsdlNs:CapServices. Controller_Disconnect' />
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message=' wsdlNs:CapServices. Controller_DisconnectResponse' />
    </operation>

    <operation name=' Controller_GetExtension' parameterOrder=' hController
bstrName bstrOption' >
        <input message=' wsdlNs:CapServices. Controller_GetExtension' />
        <output
message=' wsdlNs:CapServices. Controller_GetExtensionResponse' />
    </operation>

    <operation name=' Controller_GetFile' parameterOrder=' hController bstrName
bstrOption' >
        <input message=' wsdlNs:CapServices. Controller_GetFile' />
        <output message=' wsdlNs:CapServices. Controller_GetFileResponse' />
    </operation>

    <operation name=' Controller_GetRobot' parameterOrder=' hController bstrName
bstrOption' >
        <input message=' wsdlNs:CapServices. Controller_GetRobot' />
        <output message=' wsdlNs:CapServices. Controller_GetRobotResponse' />
    </operation>

    <operation name=' Controller_GetTask' parameterOrder=' hController bstrName
bstrOption' >
        <input message=' wsdlNs:CapServices. Controller_GetTask' />
        <output message=' wsdlNs:CapServices. Controller_GetTaskResponse' />
    </operation>

    <operation name=' Controller_GetVariable' parameterOrder=' hController bstrName
bstrOption' >
        <input message=' wsdlNs:CapServices. Controller_GetVariable' />
        <output
message=' wsdlNs:CapServices. Controller_GetVariableResponse' />
    </operation>

    <operation name=' Controller_GetCommand' parameterOrder=' hController bstrName
bstrOption' >
        <input message=' wsdlNs:CapServices. Controller_GetCommand' />
        <output
message=' wsdlNs:CapServices. Controller_GetCommandResponse' />
    </operation>

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    bstrOption' >
        <operation name=' Controller_GetExtensionNames' parameterOrder=' hController
            <input message=' wsdlIns:CapServices. Controller_GetExtensionNames' />
            <output
message=' wsdlIns:CapServices. Controller_GetExtensionNamesResponse' />
        </operation>

    bstrOption' >
        <operation name=' Controller_GetFileNames' parameterOrder=' hController
            <input message=' wsdlIns:CapServices. Controller_GetFileNames' />
            <output
message=' wsdlIns:CapServices. Controller_GetFileNamesResponse' />
        </operation>

    bstrOption' >
        <operation name=' Controller_GetRobotNames' parameterOrder=' hController
            <input message=' wsdlIns:CapServices. Controller_GetRobotNames' />
            <output
message=' wsdlIns:CapServices. Controller_GetRobotNamesResponse' />
        </operation>

    bstrOption' >
        <operation name=' Controller_GetTaskNames' parameterOrder=' hController
            <input message=' wsdlIns:CapServices. Controller_GetTaskNames' />
            <output
message=' wsdlIns:CapServices. Controller_GetTaskNamesResponse' />
        </operation>

    bstrOption' >
        <operation name=' Controller_GetVariableNames' parameterOrder=' hController
            <input message=' wsdlIns:CapServices. Controller_GetVariableNames' />
            <output
message=' wsdlIns:CapServices. Controller_GetVariableNamesResponse' />
        </operation>

    bstrOption' >
        <operation name=' Controller_GetCommandNames' parameterOrder=' hController
            <input message=' wsdlIns:CapServices. Controller_GetCommandNames' />
            <output
message=' wsdlIns:CapServices. Controller_GetCommandNamesResponse' />
        </operation>

    vntParam' >
        <operation name=' Controller_Execute' parameterOrder=' hController bstrCommand
            <input message=' wsdlIns:CapServices. Controller_Execute' />
            <output message=' wsdlIns:CapServices. Controller_ExecuteResponse' />
        </operation>

        <operation name=' Controller_GetMessage' parameterOrder=' hController' >
            <input message=' wsdlIns:CapServices. Controller_GetMessage' />
            <output
message=' wsdlIns:CapServices. Controller_GetMessageResponse' />
        </operation>

        <operation name=' Controller_GetAttribute' parameterOrder=' hController' >
            <input message=' wsdlIns:CapServices. Controller_GetAttribute' />
            <output
message=' wsdlIns:CapServices. Controller_GetAttributeResponse' />
        </operation>

        <operation name=' Controller_GetHelp' parameterOrder=' hController' >
            <input message=' wsdlIns:CapServices. Controller_GetHelp' />
            <output message=' wsdlIns:CapServices. Controller_GetHelpResponse' />
        </operation>

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    <operation name=' Controller_GetName' parameterOrder=' hController' >
      <input message=' wsdlIns:CapServices.Controller_GetName' />
      <output message=' wsdlIns:CapServices.Controller_GetNameResponse' />
    </operation>

    <operation name=' Controller_GetTag' parameterOrder=' hController' >
      <input message=' wsdlIns:CapServices.Controller_GetTag' />
      <output message=' wsdlIns:CapServices.Controller_GetTagResponse' />
    </operation>

    <operation name=' Controller_PutTag' parameterOrder=' hController newVal' >
      <input message=' wsdlIns:CapServices.Controller_PutTag' />
      <output message=' wsdlIns:CapServices.Controller_PutTagResponse' />
    </operation>

    <operation name=' Controller_GetID' parameterOrder=' hController' >
      <input message=' wsdlIns:CapServices.Controller_GetID' />
      <output message=' wsdlIns:CapServices.Controller_GetIDResponse' />
    </operation>

    <operation name=' Controller_PutID' parameterOrder=' hController newVal' >
      <input message=' wsdlIns:CapServices.Controller_PutID' />
      <output message=' wsdlIns:CapServices.Controller_PutIDResponse' />
    </operation>

    <operation name=' Extension_GetVariable' parameterOrder=' hExtension bstrName
bstrOption' >
      <input message=' wsdlIns:CapServices.Extension_GetVariable' />
      <output
message=' wsdlIns:CapServices.Extension_GetVariableResponse' />
    </operation>

    <operation name=' Extension_GetVariableNames' parameterOrder=' hExtension
bstrOption' >
      <input message=' wsdlIns:CapServices.Extension_GetVariableNames' />
      <output
message=' wsdlIns:CapServices.Extension_GetVariableNamesResponse' />
    </operation>

    <operation name=' Extension_Execute' parameterOrder=' hExtension bstrCommand
vntParam' >
      <input message=' wsdlIns:CapServices.Extension_Execute' />
      <output message=' wsdlIns:CapServices.Extension_ExecuteResponse' />
    </operation>

    <operation name=' Extension_GetAttribute' parameterOrder=' hExtension' >
      <input message=' wsdlIns:CapServices.Extension_GetAttribute' />
      <output
message=' wsdlIns:CapServices.Extension_GetAttributeResponse' />
    </operation>

    <operation name=' Extension_GetHelp' parameterOrder=' hExtension' >
      <input message=' wsdlIns:CapServices.Extension_GetHelp' />
      <output message=' wsdlIns:CapServices.Extension_GetHelpResponse' />
    </operation>

    <operation name=' Extension_GetName' parameterOrder=' hExtension' >
      <input message=' wsdlIns:CapServices.Extension_GetName' />
      <output message=' wsdlIns:CapServices.Extension_GetNameResponse' />
    </operation>

    <operation name=' Extension_GetTag' parameterOrder=' hExtension' >
      <input message=' wsdlIns:CapServices.Extension_GetTag' />
      <output message=' wsdlIns:CapServices.Extension_GetTagResponse' />
    </operation>

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    <operation name=' Extension_PutTag' parameterOrder=' hExtension newVal' >
      <input message=' wsdlIns:CapServices.Extension_PutTag' />
      <output message=' wsdlIns:CapServices.Extension_PutTagResponse' />
    </operation>

    <operation name=' Extension_GetID' parameterOrder=' hExtension' >
      <input message=' wsdlIns:CapServices.Extension_GetID' />
      <output message=' wsdlIns:CapServices.Extension_GetIDResponse' />
    </operation>

    <operation name=' Extension_PutID' parameterOrder=' hExtension newVal' >
      <input message=' wsdlIns:CapServices.Extension_PutID' />
      <output message=' wsdlIns:CapServices.Extension_PutIDResponse' />
    </operation>

    <operation name=' Extension_Release' parameterOrder=' hExtension' >
      <input message=' wsdlIns:CapServices.Extension_Release' />
      <output message=' wsdlIns:CapServices.Extension_ReleaseResponse' />
    </operation>

    bstrOption' >
    <operation name=' File_GetFile' parameterOrder=' hParentntFile bstrName
      <input message=' wsdlIns:CapServices.File_GetFile' />
      <output message=' wsdlIns:CapServices.File_GetFileResponse' />
    </operation>

    bstrOption' >
    <operation name=' File_GetVariable' parameterOrder=' hFile bstrName
      <input message=' wsdlIns:CapServices.File_GetVariable' />
      <output message=' wsdlIns:CapServices.File_GetVariableResponse' />
    </operation>

    <operation name=' File_GetFileNames' parameterOrder=' hFile bstrOption' >
      <input message=' wsdlIns:CapServices.File_GetFileNames' />
      <output message=' wsdlIns:CapServices.File_GetFileNamesResponse' />
    </operation>

    <operation name=' File_GetVariableNames' parameterOrder=' hFile bstrOption' >
      <input message=' wsdlIns:CapServices.File_GetVariableNames' />
      <output
message=' wsdlIns:CapServices.File_GetVariableNamesResponse' />
    </operation>

    <operation name=' File_Execute' parameterOrder=' hFile bstrCommand vntParam' >
      <input message=' wsdlIns:CapServices.File_Execute' />
      <output message=' wsdlIns:CapServices.File_ExecuteResponse' />
    </operation>

    <operation name=' File_Copy' parameterOrder=' hFile bstrName bstrOption' >
      <input message=' wsdlIns:CapServices.File_Copy' />
      <output message=' wsdlIns:CapServices.File_CopyResponse' />
    </operation>

    <operation name=' File_Delete' parameterOrder=' hFile bstrOption' >
      <input message=' wsdlIns:CapServices.File_Delete' />
      <output message=' wsdlIns:CapServices.File_DeleteResponse' />
    </operation>

    <operation name=' File_Move' parameterOrder=' hFile bstrName bstrOption' >
      <input message=' wsdlIns:CapServices.File_Move' />
      <output message=' wsdlIns:CapServices.File_MoveResponse' />
    </operation>

    <operation name=' File_Run' parameterOrder=' hFile bstrOption' >
      <input message=' wsdlIns:CapServices.File_Run' />
      <output message=' wsdlIns:CapServices.File_RunResponse' />

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</operation>

<operation name=' File_GetDateCreated' parameterOrder=' hFile' >
  <input message=' wsdlNs:CapServices.File_GetDateCreated' />
  <output message=' wsdlNs:CapServices.File_GetDateCreatedResponse' />
</operation>

<operation name=' File_GetDateLastAccessed' parameterOrder=' hFile' >
  <input message=' wsdlNs:CapServices.File_GetDateLastAccessed' />
  <output
message=' wsdlNs:CapServices.File_GetDateLastAccessedResponse' />
</operation>

<operation name=' File_GetDateLastModified' parameterOrder=' hFile' >
  <input message=' wsdlNs:CapServices.File_GetDateLastModified' />
  <output
message=' wsdlNs:CapServices.File_GetDateLastModifiedResponse' />
</operation>

<operation name=' File_GetPath' parameterOrder=' hFile' >
  <input message=' wsdlNs:CapServices.File_GetPath' />
  <output message=' wsdlNs:CapServices.File_GetPathResponse' />
</operation>

<operation name=' File_GetSize' parameterOrder=' hFile' >
  <input message=' wsdlNs:CapServices.File_GetSize' />
  <output message=' wsdlNs:CapServices.File_GetSizeResponse' />
</operation>

<operation name=' File_GetType' parameterOrder=' hFile' >
  <input message=' wsdlNs:CapServices.File_GetType' />
  <output message=' wsdlNs:CapServices.File_GetTypeResponse' />
</operation>

<operation name=' File_GetValue' parameterOrder=' hFile' >
  <input message=' wsdlNs:CapServices.File_GetValue' />
  <output message=' wsdlNs:CapServices.File_GetValueResponse' />
</operation>

<operation name=' File_PutValue' parameterOrder=' hFile newVal' >
  <input message=' wsdlNs:CapServices.File_PutValue' />
  <output message=' wsdlNs:CapServices.File_PutValueResponse' />
</operation>

<operation name=' File_GetAttribute' parameterOrder=' hFile' >
  <input message=' wsdlNs:CapServices.File_GetAttribute' />
  <output message=' wsdlNs:CapServices.File_GetAttributeResponse' />
</operation>

<operation name=' File_GetHelp' parameterOrder=' hFile' >
  <input message=' wsdlNs:CapServices.File_GetHelp' />
  <output message=' wsdlNs:CapServices.File_GetHelpResponse' />
</operation>

<operation name=' File_GetName' parameterOrder=' hFile' >
  <input message=' wsdlNs:CapServices.File_GetName' />
  <output message=' wsdlNs:CapServices.File_GetNameResponse' />
</operation>

<operation name=' File_GetTag' parameterOrder=' hFile' >
  <input message=' wsdlNs:CapServices.File_GetTag' />
  <output message=' wsdlNs:CapServices.File_GetTagResponse' />
</operation>

<operation name=' File_PutTag' parameterOrder=' hFile newVal' >
  <input message=' wsdlNs:CapServices.File_PutTag' />
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        <output message=' wsdlIns:CapServices. File_PutTagResponse' />
    </operation>

    <operation name=' File_GetID' parameterOrder=' hFile' >
        <input message=' wsdlIns:CapServices. File_GetID' />
        <output message=' wsdlIns:CapServices. File_GetIDResponse' />
    </operation>

    <operation name=' File_PutID' parameterOrder=' hFile newVal' >
        <input message=' wsdlIns:CapServices. File_PutID' />
        <output message=' wsdlIns:CapServices. File_PutIDResponse' />
    </operation>

    <operation name=' File_Release' parameterOrder=' hFile' >
        <input message=' wsdlIns:CapServices. File_Release' />
        <output message=' wsdlIns:CapServices. File_ReleaseResponse' />
    </operation>

    <operation name=' Robot_GetVariable' parameterOrder=' hRobot bstrName
bstrOption' >
        <input message=' wsdlIns:CapServices. Robot_GetVariable' />
        <output message=' wsdlIns:CapServices. Robot_GetVariableResponse' />
    </operation>

    <operation name=' Robot_GetVariableNames' parameterOrder=' hRobot bstrOption' >
        <input message=' wsdlIns:CapServices. Robot_GetVariableNames' />
        <output
message=' wsdlIns:CapServices. Robot_GetVariableNamesResponse' />
    </operation>

    <operation name=' Robot_Execute' parameterOrder=' hRobot bstrCommand vntParam' >
        <input message=' wsdlIns:CapServices. Robot_Execute' />
        <output message=' wsdlIns:CapServices. Robot_ExecuteResponse' />
    </operation>

    <operation name=' Robot_Accelerate' parameterOrder=' hRobot lAxis fAccel
fDecel' >
        <input message=' wsdlIns:CapServices. Robot_Accelerate' />
        <output message=' wsdlIns:CapServices. Robot_AccelerateResponse' />
    </operation>

    <operation name=' Robot_Change' parameterOrder=' hRobot bstrName' >
        <input message=' wsdlIns:CapServices. Robot_Change' />
        <output message=' wsdlIns:CapServices. Robot_ChangeResponse' />
    </operation>

    <operation name=' Robot_Chuck' parameterOrder=' hRobot bstrOption' >
        <input message=' wsdlIns:CapServices. Robot_Chuck' />
        <output message=' wsdlIns:CapServices. Robot_ChuckResponse' />
    </operation>

    <operation name=' Robot_Drive' parameterOrder=' hRobot lNo fMov bstrOpt' >
        <input message=' wsdlIns:CapServices. Robot_Drive' />
        <output message=' wsdlIns:CapServices. Robot_DriveResponse' />
    </operation>

    <operation name=' Robot_GoHome' parameterOrder=' hRobot' >
        <input message=' wsdlIns:CapServices. Robot_GoHome' />
        <output message=' wsdlIns:CapServices. Robot_GoHomeResponse' />
    </operation>

    <operation name=' Robot_Halt' parameterOrder=' hRobot bstrOption' >
        <input message=' wsdlIns:CapServices. Robot_Halt' />
        <output message=' wsdlIns:CapServices. Robot_HaltResponse' />
    </operation>

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    <operation name=' Robot_Hold' parameterOrder=' hRobot bstrOption' >
      <input message=' wsdlNs:CapServices.Robot_Hold' />
      <output message=' wsdlNs:CapServices.Robot_HoldResponse' />
    </operation>

    <operation name=' Robot_Move' parameterOrder=' hRobot lComp vntPose bstrOpt' >
      <input message=' wsdlNs:CapServices.Robot_Move' />
      <output message=' wsdlNs:CapServices.Robot_MoveResponse' />
    </operation>

    <operation name=' Robot_Rotate' parameterOrder=' hRobot vntRotSuf fDeg vntPivot
bstrOpt' >
      <input message=' wsdlNs:CapServices.Robot_Rotate' />
      <output message=' wsdlNs:CapServices.Robot_RotateResponse' />
    </operation>

    <operation name=' Robot_Speed' parameterOrder=' hRobot lAxis fSpeed' >
      <input message=' wsdlNs:CapServices.Robot_Speed' />
      <output message=' wsdlNs:CapServices.Robot_SpeedResponse' />
    </operation>

    <operation name=' Robot_Unchuck' parameterOrder=' hRobot bstrOption' >
      <input message=' wsdlNs:CapServices.Robot_Unchuck' />
      <output message=' wsdlNs:CapServices.Robot_UnchuckResponse' />
    </operation>

    <operation name=' Robot_Unhold' parameterOrder=' hRobot bstrOption' >
      <input message=' wsdlNs:CapServices.Robot_Unhold' />
      <output message=' wsdlNs:CapServices.Robot_UnholdResponse' />
    </operation>

    <operation name=' Robot_GetAttribute' parameterOrder=' hRobot' >
      <input message=' wsdlNs:CapServices.Robot_GetAttribute' />
      <output message=' wsdlNs:CapServices.Robot_GetAttributeResponse' />
    </operation>

    <operation name=' Robot_GetHelp' parameterOrder=' hRobot' >
      <input message=' wsdlNs:CapServices.Robot_GetHelp' />
      <output message=' wsdlNs:CapServices.Robot_GetHelpResponse' />
    </operation>

    <operation name=' Robot_GetName' parameterOrder=' hRobot' >
      <input message=' wsdlNs:CapServices.Robot_GetName' />
      <output message=' wsdlNs:CapServices.Robot_GetNameResponse' />
    </operation>

    <operation name=' Robot_GetTag' parameterOrder=' hRobot' >
      <input message=' wsdlNs:CapServices.Robot_GetTag' />
      <output message=' wsdlNs:CapServices.Robot_GetTagResponse' />
    </operation>

    <operation name=' Robot_PutTag' parameterOrder=' hRobot newVal' >
      <input message=' wsdlNs:CapServices.Robot_PutTag' />
      <output message=' wsdlNs:CapServices.Robot_PutTagResponse' />
    </operation>

    <operation name=' Robot_GetID' parameterOrder=' hRobot' >
      <input message=' wsdlNs:CapServices.Robot_GetID' />
      <output message=' wsdlNs:CapServices.Robot_GetIDResponse' />
    </operation>

    <operation name=' Robot_PutID' parameterOrder=' hRobot newVal' >
      <input message=' wsdlNs:CapServices.Robot_PutID' />
      <output message=' wsdlNs:CapServices.Robot_PutIDResponse' />
    </operation>

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    <operation name=' Robot_Release' parameterOrder=' hRobot' >
      <input message=' wsdlIns:CapServices.Robot_Release' />
      <output message=' wsdlIns:CapServices.Robot_ReleaseResponse' />
    </operation>

    bstrOption' >
      <operation name=' Task_GetVariable' parameterOrder=' hTask bstrName
        <input message=' wsdlIns:CapServices.Task_GetVariable' />
        <output message=' wsdlIns:CapServices.Task_GetVariableResponse' />
      </operation>

      <operation name=' Task_GetVariableNames' parameterOrder=' hTask bstrOption' >
        <input message=' wsdlIns:CapServices.Task_GetVariableNames' />
        <output
message=' wsdlIns:CapServices.Task_GetVariableNamesResponse' />
      </operation>

      <operation name=' Task_Execute' parameterOrder=' hTask bstrCommand vntParam' >
        <input message=' wsdlIns:CapServices.Task_Execute' />
        <output message=' wsdlIns:CapServices.Task_ExecuteResponse' />
      </operation>

      <operation name=' Task_Start' parameterOrder=' hTask IMode bstrOption' >
        <input message=' wsdlIns:CapServices.Task_Start' />
        <output message=' wsdlIns:CapServices.Task_StartResponse' />
      </operation>

      <operation name=' Task_Stop' parameterOrder=' hTask IMode bstrOption' >
        <input message=' wsdlIns:CapServices.Task_Stop' />
        <output message=' wsdlIns:CapServices.Task_StopResponse' />
      </operation>

      <operation name=' Task_Delete' parameterOrder=' hTask bstrOption' >
        <input message=' wsdlIns:CapServices.Task_Delete' />
        <output message=' wsdlIns:CapServices.Task_DeleteResponse' />
      </operation>

      <operation name=' Task_GetFileName' parameterOrder=' hTask' >
        <input message=' wsdlIns:CapServices.Task_GetFileName' />
        <output message=' wsdlIns:CapServices.Task_GetFileNameResponse' />
      </operation>

      <operation name=' Task_GetAttribute' parameterOrder=' hTask' >
        <input message=' wsdlIns:CapServices.Task_GetAttribute' />
        <output message=' wsdlIns:CapServices.Task_GetAttributeResponse' />
      </operation>

      <operation name=' Task_GetHelp' parameterOrder=' hTask' >
        <input message=' wsdlIns:CapServices.Task_GetHelp' />
        <output message=' wsdlIns:CapServices.Task_GetHelpResponse' />
      </operation>

      <operation name=' Task_GetName' parameterOrder=' hTask' >
        <input message=' wsdlIns:CapServices.Task_GetName' />
        <output message=' wsdlIns:CapServices.Task_GetNameResponse' />
      </operation>

      <operation name=' Task_GetTag' parameterOrder=' hTask' >
        <input message=' wsdlIns:CapServices.Task_GetTag' />
        <output message=' wsdlIns:CapServices.Task_GetTagResponse' />
      </operation>

      <operation name=' Task_PutTag' parameterOrder=' hTask newVal' >
        <input message=' wsdlIns:CapServices.Task_PutTag' />
        <output message=' wsdlIns:CapServices.Task_PutTagResponse' />
      </operation>

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<operation name=' Task_GetID' parameterOrder=' hTask' >
  <input message=' wsdlIns:CapServices.Task_GetID' />
  <output message=' wsdlIns:CapServices.Task_GetIDResponse' />
</operation>

<operation name=' Task_PutID' parameterOrder=' hTask newVal' >
  <input message=' wsdlIns:CapServices.Task_PutID' />
  <output message=' wsdlIns:CapServices.Task_PutIDResponse' />
</operation>

<operation name=' Task_Release' parameterOrder=' hTask' >
  <input message=' wsdlIns:CapServices.Task_Release' />
  <output message=' wsdlIns:CapServices.Task_ReleaseResponse' />
</operation>

<operation name=' Variable_GetDateTime' parameterOrder=' hVariable' >
  <input message=' wsdlIns:CapServices.Variable_GetDateTime' />
  <output message=' wsdlIns:CapServices.Variable_GetDateTimeResponse' />
</operation>

<operation name=' Variable_GetValue' parameterOrder=' hVariable' >
  <input message=' wsdlIns:CapServices.Variable_GetValue' />
  <output message=' wsdlIns:CapServices.Variable_GetValueResponse' />
</operation>

<operation name=' Variable_PutValue' parameterOrder=' hVariable newVal' >
  <input message=' wsdlIns:CapServices.Variable_PutValue' />
  <output message=' wsdlIns:CapServices.Variable_PutValueResponse' />
</operation>

<operation name=' Variable_GetAttribute' parameterOrder=' hVariable' >
  <input message=' wsdlIns:CapServices.Variable_GetAttribute' />
  <output
message=' wsdlIns:CapServices.Variable_GetAttributeResponse' />
</operation>

<operation name=' Variable_GetHelp' parameterOrder=' hVariable' >
  <input message=' wsdlIns:CapServices.Variable_GetHelp' />
  <output message=' wsdlIns:CapServices.Variable_GetHelpResponse' />
</operation>

<operation name=' Variable_GetName' parameterOrder=' hVariable' >
  <input message=' wsdlIns:CapServices.Variable_GetName' />
  <output message=' wsdlIns:CapServices.Variable_GetNameResponse' />
</operation>

<operation name=' Variable_GetTag' parameterOrder=' hVariable' >
  <input message=' wsdlIns:CapServices.Variable_GetTag' />
  <output message=' wsdlIns:CapServices.Variable_GetTagResponse' />
</operation>

<operation name=' Variable_PutTag' parameterOrder=' hVariable newVal' >
  <input message=' wsdlIns:CapServices.Variable_PutTag' />
  <output message=' wsdlIns:CapServices.Variable_PutTagResponse' />
</operation>

<operation name=' Variable_GetID' parameterOrder=' hVariable' >
  <input message=' wsdlIns:CapServices.Variable_GetID' />
  <output message=' wsdlIns:CapServices.Variable_GetIDResponse' />
</operation>

<operation name=' Variable_PutID' parameterOrder=' hVariable newVal' >
  <input message=' wsdlIns:CapServices.Variable_PutID' />
  <output message=' wsdlIns:CapServices.Variable_PutIDResponse' />
</operation>
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<operation name=' Variable_GetMicrosecond' parameterOrder=' hVariable' >
  <input message=' wsdlIns:CapServices. Variable_GetMicrosecond' />
  <output
message=' wsdlIns:CapServices. Variable_GetMicrosecondResponse' />
</operation>

<operation name=' Variable_Release' parameterOrder=' hVariable' >
  <input message=' wsdlIns:CapServices. Variable_Release' />
  <output message=' wsdlIns:CapServices. Variable_ReleaseResponse' />
</operation>

<operation name=' Command_Execute' parameterOrder=' hCommand IMode' >
  <input message=' wsdlIns:CapServices. Command_Execute' />
  <output message=' wsdlIns:CapServices. Command_ExecuteResponse' />
</operation>

<operation name=' Command_Cancel' parameterOrder=' hCommand' >
  <input message=' wsdlIns:CapServices. Command_Cancel' />
  <output message=' wsdlIns:CapServices. Command_CancelResponse' />
</operation>

<operation name=' Command_GetTimeout' parameterOrder=' hCommand' >
  <input message=' wsdlIns:CapServices. Command_GetTimeout' />
  <output message=' wsdlIns:CapServices. Command_GetTimeoutResponse' />
</operation>

<operation name=' Command_PutTimeout' parameterOrder=' hCommand newVal' >
  <input message=' wsdlIns:CapServices. Command_PutTimeout' />
  <output message=' wsdlIns:CapServices. Command_PutTimeoutResponse' />
</operation>

<operation name=' Command_GetState' parameterOrder=' hCommand' >
  <input message=' wsdlIns:CapServices. Command_GetState' />
  <output message=' wsdlIns:CapServices. Command_GetStateResponse' />
</operation>

<operation name=' Command_GetParameters' parameterOrder=' hCommand' >
  <input message=' wsdlIns:CapServices. Command_GetParameters' />
  <output
message=' wsdlIns:CapServices. Command_GetParametersResponse' />
</operation>

<operation name=' Command_PutParameters' parameterOrder=' hCommand newVal' >
  <input message=' wsdlIns:CapServices. Command_PutParameters' />
  <output
message=' wsdlIns:CapServices. Command_PutParametersResponse' />
</operation>

<operation name=' Command_GetResult' parameterOrder=' hCommand' >
  <input message=' wsdlIns:CapServices. Command_GetResult' />
  <output message=' wsdlIns:CapServices. Command_GetResultResponse' />
</operation>

<operation name=' Command_GetAttribute' parameterOrder=' hCommand' >
  <input message=' wsdlIns:CapServices. Command_GetAttribute' />
  <output message=' wsdlIns:CapServices. Command_GetAttributeResponse' />
</operation>

<operation name=' Command_GetHelp' parameterOrder=' hCommand' >
  <input message=' wsdlIns:CapServices. Command_GetHelp' />
  <output message=' wsdlIns:CapServices. Command_GetHelpResponse' />
</operation>

<operation name=' Command_GetName' parameterOrder=' hCommand' >
  <input message=' wsdlIns:CapServices. Command_GetName' />
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        <output message=' wsdlNs:CapServices.Command_GetNameResponse' />
    </operation>

    <operation name=' Command_GetTag' parameterOrder=' hCommand' >
        <input message=' wsdlNs:CapServices.Command_GetTag' />
        <output message=' wsdlNs:CapServices.Command_GetTagResponse' />
    </operation>

    <operation name=' Command_PutTag' parameterOrder=' hCommand newVal' >
        <input message=' wsdlNs:CapServices.Command_PutTag' />
        <output message=' wsdlNs:CapServices.Command_PutTagResponse' />
    </operation>

    <operation name=' Command_GetID' parameterOrder=' hCommand' >
        <input message=' wsdlNs:CapServices.Command_GetID' />
        <output message=' wsdlNs:CapServices.Command_GetIDResponse' />
    </operation>

    <operation name=' Command_PutID' parameterOrder=' hCommand newVal' >
        <input message=' wsdlNs:CapServices.Command_PutID' />
        <output message=' wsdlNs:CapServices.Command_PutIDResponse' />
    </operation>

    <operation name=' Command_Release' parameterOrder=' hCommand' >
        <input message=' wsdlNs:CapServices.Command_Release' />
        <output message=' wsdlNs:CapServices.Command_ReleaseResponse' />
    </operation>

    <operation name=' Message_Reply' parameterOrder=' hMessage vntData' >
        <input message=' wsdlNs:CapServices.Message_Reply' />
        <output message=' wsdlNs:CapServices.Message_ReplyResponse' />
    </operation>

    <operation name=' Message_Clear' parameterOrder=' hMessage' >
        <input message=' wsdlNs:CapServices.Message_Clear' />
        <output message=' wsdlNs:CapServices.Message_ClearResponse' />
    </operation>

    <operation name=' Message_GetDateTime' parameterOrder=' hMessage' >
        <input message=' wsdlNs:CapServices.Message_GetDateTime' />
        <output message=' wsdlNs:CapServices.Message_GetDateTimeResponse' />
    </operation>

    <operation name=' Message_GetDescription' parameterOrder=' hMessage' >
        <input message=' wsdlNs:CapServices.Message_GetDescription' />
        <output
message=' wsdlNs:CapServices.Message_GetDescriptionResponse' />
    </operation>

    <operation name=' Message_GetDestination' parameterOrder=' hMessage' >
        <input message=' wsdlNs:CapServices.Message_GetDestination' />
        <output
message=' wsdlNs:CapServices.Message_GetDestinationResponse' />
    </operation>

    <operation name=' Message_GetNumber' parameterOrder=' hMessage' >
        <input message=' wsdlNs:CapServices.Message_GetNumber' />
        <output message=' wsdlNs:CapServices.Message_GetNumberResponse' />
    </operation>

    <operation name=' Message_GetSerialNumber' parameterOrder=' hMessage' >
        <input message=' wsdlNs:CapServices.Message_GetSerialNumber' />
        <output
message=' wsdlNs:CapServices.Message_GetSerialNumberResponse' />
    </operation>
```

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    <operation name=' Message_GetSource' parameterOrder=' hMessage' >
      <input message=' wsdlNs:CapServices.Message_GetSource' />
      <output message=' wsdlNs:CapServices.Message_GetSourceResponse' />
    </operation>

    <operation name=' Message_GetValue' parameterOrder=' hMessage' >
      <input message=' wsdlNs:CapServices.Message_GetValue' />
      <output message=' wsdlNs:CapServices.Message_GetValueResponse' />
    </operation>

    <operation name=' Message_Release' parameterOrder=' hMessage' >
      <input message=' wsdlNs:CapServices.Message_Release' />
      <output message=' wsdlNs:CapServices.Message_ReleaseResponse' />
    </operation>

    <operation name=' GetLastResult' parameterOrder=' ' >
      <input message=' wsdlNs:CapServices.GetLastResult' />
      <output message=' wsdlNs:CapServices.GetLastResultResponse' />
    </operation>

  </portType>

  <binding name=' CapServicesSoapBinding' type=' wsdlNs:CapServicesSoapPort' >

    <stk:binding preferredEncoding=' UTF-8' />
    <soap:binding style=' rpc' transport=' http://schemas.xmlsoap.org/soap/http' />

    <operation name=' Service_Start' >
      <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Service_Start' />
      <input>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
          parts=' bstrOption' />
      </input>
      <output>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
      </output>
    </operation>

    <operation name=' Service_Stop' >
      <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Service_Stop' />
      <input>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
      </input>
      <output>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

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        encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Controller_Connect' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_Connect' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' bstrController bstrProvider bstrMachine
bstrOption' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' Result' />
            </output>
        </operation>

    <operation name=' Controller_Disconnect' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_Disconnect' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
            </output>
        </operation>

    <operation name=' Controller_GetExtension' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetExtension' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController bstrName bstrOption' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

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namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
    parts=' Result' />
    </output>
  </operation>

  <operation name=' Controller_GetFile' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetFile' />
    <input>
      <soap:body
        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
    parts=' hController bstrName bstrOption' />
    </input>
    <output>
      <soap:body
        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
    parts=' Result' />
    </output>
  </operation>

  <operation name=' Controller_GetRobot' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetRobot' />
    <input>
      <soap:body
        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
    parts=' hController bstrName bstrOption' />
    </input>
    <output>
      <soap:body
        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
    parts=' Result' />
    </output>
  </operation>

  <operation name=' Controller_GetTask' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetTask' />
    <input>
      <soap:body
        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
    parts=' hController bstrName bstrOption' />
    </input>

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        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Controller_GetVariable' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetVariable' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController bstrName bstrOption' />
            </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Controller_GetCommand' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetCommand' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController bstrName bstrOption' />
            </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Controller_GetExtensionNames' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetExtensionNames' /
>
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

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encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hController bstrOption' />
                                </input>
                                <output>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
                                </output>
                                </operation>

                                <operation name=' Controller_GetFileNames' >
                                    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetFileNames' />
                                    <input>
                                        <soap:body
                                            use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hController bstrOption' />
                                </input>
                                <output>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
                                </output>
                                </operation>

                                <operation name=' Controller_GetRobotNames' >
                                    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetRobotNames' />
                                    <input>
                                        <soap:body
                                            use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hController bstrOption' />
                                </input>
                                <output>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
                                </output>
                                </operation>

                                <operation name=' Controller_GetTaskNames' >
                                    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetTaskNames' />
                                    <input>
                                        <soap:body

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                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController bstrOption' />
        </input>
        <output>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
</operation>

        <operation name=' Controller_GetVariableNames' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetVariableNames' />
        <input>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController bstrOption' />
        </input>
        <output>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
</operation>

        <operation name=' Controller_GetCommandNames' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetCommandNames' />
        <input>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController bstrOption' />
        </input>
        <output>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
</operation>

        <operation name=' Controller_Execute' >

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        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_Execute' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController bstrCommand vntParam' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Controller_GetMessage' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetMessage' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Controller_GetAttribute' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetAttribute' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

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    </operation>

    <operation name=' Controller_GetHelp' >
      <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetHelp' />
      <input>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
          parts=' hController' />
      </input>
      <output>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
          parts=' Result' />
      </output>
    </operation>

    <operation name=' Controller_GetName' >
      <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetName' />
      <input>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
          parts=' hController' />
      </input>
      <output>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
          parts=' Result' />
      </output>
    </operation>

    <operation name=' Controller_GetTag' >
      <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetTag' />
      <input>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
          parts=' hController' />
      </input>
      <output>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

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        encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' Result' />
        </output>
    </operation>

    <operation name=' Controller_PutTag' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_PutTag' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController newVal' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
            </output>
        </operation>

        <operation name=' Controller_GetID' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_GetID' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
            </output>
        </operation>

        <operation name=' Controller_PutID' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Controller_PutID' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hController newVal' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

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namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
  </output>
</operation>

  <operation name=' Extension_GetVariable' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Extension_GetVariable' />
    <input>
      <soap:body
        use=' encoded'
      />
    </input>
    <output>
      <soap:body
        use=' encoded'
        parts=' hExtension bstrName bstrOption' />
      />
    </output>
  </operation>

  <operation name=' Extension_GetVariableNames' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Extension_GetVariableNames' />
    <input>
      <soap:body
        use=' encoded'
      />
    </input>
    <output>
      <soap:body
        use=' encoded'
        parts=' hExtension bstrOption' />
      />
    </output>
  </operation>

  <operation name=' Extension_Execute' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Extension_Execute' />
    <input>
      <soap:body
        use=' encoded'
      />
    </input>
    <output>
      <soap:body
        use=' encoded'
        parts=' hExtension bstrCommand vntParam' />
      />
    </output>
  </operation>

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                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' Result' />
            </output>
        </operation>

        <operation name=' Extension_GetAttribute' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Extension_GetAttribute' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hExtension' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' Result' />
            </output>
        </operation>

        <operation name=' Extension_GetHelp' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Extension_GetHelp' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hExtension' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' Result' />
            </output>
        </operation>

        <operation name=' Extension_GetName' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Extension_GetName' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'

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                parts=' hExtension' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
            </output>
        </operation>

        <operation name=' Extension_GetTag' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Extension_GetTag' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hExtension' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
            </output>
        </operation>

        <operation name=' Extension_PutTag' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Extension_PutTag' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hExtension newVal' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
            </output>
        </operation>

        <operation name=' Extension_GetID' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Extension_GetID' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

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encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hExtension' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
        </output>
    </operation>

    <operation name=' Extension_PutID' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Extension_PutID' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hExtension newVal' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Extension_Release' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Extension_Release' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hExtension' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' File_GetFile' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetFile' />
        <input>
            <soap:body
                use=' encoded'

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namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hParentFile bstrName bstrOption' />
    </input>
    <output>
        <soap:body
            use=' encoded'
        />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
    </output>
</operation>
<operation name=' File_GetVariable' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetVariable' />
    <input>
        <soap:body
            use=' encoded'
        />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hFile bstrName bstrOption' />
    </input>
    <output>
        <soap:body
            use=' encoded'
        />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
    </output>
</operation>
<operation name=' File_GetFileNames' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetFileNames' />
    <input>
        <soap:body
            use=' encoded'
        />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hFile bstrOption' />
    </input>
    <output>
        <soap:body
            use=' encoded'
        />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
    </output>
</operation>
<operation name=' File_GetVariableNames' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetVariableNames' />

```

```

        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hFile bstrOption' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' File_Execute' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_Execute' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hFile bstrCommand vntParam' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' File_Copy' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_Copy' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hFile bstrName bstrOption' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' File_Delete' >

```

```

        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_Delete' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hFile bstrOption' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' File_Move' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_Move' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hFile bstrName bstrOption' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' File_Run' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_Run' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hFile bstrOption' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

```

```
<operation name=' File_GetDateCreated' >
  <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetDateCreated' />
  <input>
    <soap:body
      use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
      parts=' hFile' />
    </input>
  <output>
    <soap:body
      use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
      parts=' Result' />
  </output>
</operation>

<operation name=' File_GetDateLastAccessed' >
  <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetDateLastAccessed' />
  <input>
    <soap:body
      use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
      parts=' hFile' />
    </input>
  <output>
    <soap:body
      use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
      parts=' Result' />
  </output>
</operation>

<operation name=' File_GetDateLastModified' >
  <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetDateLastModified' />
  <input>
    <soap:body
      use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
      parts=' hFile' />
    </input>
  <output>
    <soap:body
      use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
      parts=' Result' />
  </output>
</operation>
```

```
        </output>
      </operation>

      <operation name=' File_GetPath' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetPath' />
        <input>
          <soap:body
            use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' hFile' />
        </input>
        <output>
          <soap:body
            use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' Result' />
        </output>
      </operation>

      <operation name=' File_GetSize' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetSize' />
        <input>
          <soap:body
            use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' hFile' />
        </input>
        <output>
          <soap:body
            use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' Result' />
        </output>
      </operation>

      <operation name=' File_GetType' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetType' />
        <input>
          <soap:body
            use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' hFile' />
        </input>
        <output>
          <soap:body
            use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
```

```
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
        </output>
    </operation>

    <operation name=' File_GetValue' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetValue' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hFile' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
            </output>
        </operation>

        <operation name=' File_PutValue' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_PutValue' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hFile newVal' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
            </output>
        </operation>

        <operation name=' File_GetAttribute' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetAttribute' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hFile' />
            </input>
            <output>
                <soap:body
                    use=' encoded'
```

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namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
    </output>
</operation>

<operation name=' File_GetHelp' >
  <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetHelp' />
  <input>
    <soap:body
      use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hFile' />
    </input>
    <output>
      <soap:body
        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
    </output>
</operation>

<operation name=' File_GetName' >
  <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetName' />
  <input>
    <soap:body
      use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hFile' />
    </input>
    <output>
      <soap:body
        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
    </output>
</operation>

<operation name=' File_GetTag' >
  <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetTag' />
  <input>
    <soap:body
      use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hFile' />
    </input>

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```

        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' File_PutTag' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_PutTag' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hFile newVal' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' File_GetID' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_GetID' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hFile' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' File_PutID' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_PutID' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'

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```

                parts=' hFile newVal' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
            </output>
        </operation>

        <operation name=' File_Release' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.File_Release' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hFile' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
            </output>
        </operation>

        <operation name=' Robot_GetVariable' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_GetVariable' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hRobot bstrName bstrOption' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
            </output>
        </operation>

        <operation name=' Robot_GetVariableNames' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_GetVariableNames' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

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```

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hRobot bstrOption' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
        </output>
    </operation>

    <operation name=' Robot_Execute' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Execute' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hRobot bstrCommand vntParam' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
        </output>
    </operation>

    <operation name=' Robot_Accelerate' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Accelerate' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hRobot lAxis fAccel fDecel' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Robot_Change' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Change' />
        <input>
            <soap:body
                use=' encoded'

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```
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
    parts=' hRobot bstrName' />
    </input>
    <output>
        <soap:body
            use=' encoded'
        />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
    </output>
</operation>
    <operation name=' Robot_Chuck' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Chuck' />
        <input>
            <soap:body
                use=' encoded'
            />
        </input>
        <output>
            <soap:body
                use=' encoded'
            />
        </output>
    </operation>
    <operation name=' Robot_Drive' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Drive' />
        <input>
            <soap:body
                use=' encoded'
            />
        </input>
        <output>
            <soap:body
                use=' encoded'
            />
        </output>
    </operation>
    <operation name=' Robot_GoHome' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_GoHome' />
        <input>
            <soap:body
                use=' encoded'
            />
        </input>
        <output>
            <soap:body
                use=' encoded'
            />
        </output>
    </operation>
```

```

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hRobot' />
        </input>
        <output>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Robot_Halt' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Halt' />
        <input>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hRobot bstrOption' />
        </input>
        <output>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Robot_Hold' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Hold' />
        <input>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hRobot bstrOption' />
        </input>
        <output>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Robot_Move' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Move' />
        <input>
                <soap:body
                        use=' encoded'

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```
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
    parts=' hRobot lComp vntPose bstrOpt' />
    </input>
    <output>
        <soap:body
            use=' encoded'
        />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
    </output>
</operation>
    <operation name=' Robot_Rotate' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Rotate' />
            <input>
                <soap:body
                    use=' encoded'
                />
            />
        />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
    parts=' hRobot vntRotSuf fDeg vntPivot bstrOpt' />
    </input>
    <output>
        <soap:body
            use=' encoded'
        />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
    </output>
</operation>
    <operation name=' Robot_Speed' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Speed' />
            <input>
                <soap:body
                    use=' encoded'
                />
            />
        />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
    parts=' hRobot lAxis fSpeed' />
    </input>
    <output>
        <soap:body
            use=' encoded'
        />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
    </output>
</operation>
    <operation name=' Robot_Unchuck' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Unchuck' />
            <input>
                <soap:body
                    use=' encoded'
                />
            />
        />
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```

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hRobot bstrOption' />
        </input>
        <output>
                <soap:body
                        use=' encoded'
                />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
</operation>

<operation name=' Robot_Unhold' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Unhold' />
        <input>
                <soap:body
                        use=' encoded'
                />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hRobot bstrOption' />
        </input>
        <output>
                <soap:body
                        use=' encoded'
                />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
</operation>

<operation name=' Robot_GetAttribute' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_GetAttribute' />
        <input>
                <soap:body
                        use=' encoded'
                />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hRobot' />
        </input>
        <output>
                <soap:body
                        use=' encoded'
                />
namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' Result' />
        </output>
</operation>

<operation name=' Robot_GetHelp' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_GetHelp' />
        <input>
                <soap:body

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                                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hRobot' />
                                </input>
                                <output>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
                                </output>
                            </operation>

                            <operation name=' Robot_GetName' >
                                <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_GetName' />
                                <input>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hRobot' />
                                </input>
                                <output>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
                                </output>
                            </operation>

                            <operation name=' Robot_GetTag' >
                                <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_GetTag' />
                                <input>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hRobot' />
                                </input>
                                <output>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
                                </output>
                            </operation>

                            <operation name=' Robot_PutTag' >

```

```

        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_PutTag' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hRobot newVal' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Robot_GetID' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_GetID' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hRobot' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Robot_PutID' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_PutID' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hRobot newVal' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

```

```
<operation name=' Robot_Release' >
  <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Robot_Release' />
  <input>
    <soap:body
      use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
      parts=' hRobot' />
    </input>
  <output>
    <soap:body
      use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
    </output>
  </operation>

  <operation name=' Task_GetVariable' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_GetVariable' />
    <input>
      <soap:body
        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
        parts=' hTask bstrName bstrOption' />
      </input>
    <output>
      <soap:body
        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
        parts=' Result' />
      </output>
    </operation>

    <operation name=' Task_GetVariableNames' >
      <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_GetVariableNames' />
      <input>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
          parts=' hTask bstrOption' />
        </input>
      <output>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
          parts=' Result' />
        </output>
      </operation>
    </operation>
```

```

    </operation>

    <operation name=' Task_Execute' >
      <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_Execute' />
      <input>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
          parts=' hTask bstrCommand vntParam' />
      </input>
      <output>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
          parts=' Result' />
      </output>
    </operation>

    <operation name=' Task_Start' >
      <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_Start' />
      <input>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
          parts=' hTask IMode bstrOption' />
      </input>
      <output>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
      </output>
    </operation>

    <operation name=' Task_Stop' >
      <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_Stop' />
      <input>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
          parts=' hTask IMode bstrOption' />
      </input>
      <output>
        <soap:body
          use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />

```

```

        </output>
    </operation>

    <operation name=' Task_Delete' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_Delete' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hTask bstrOption' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Task_GetFileName' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_GetFileName' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hTask' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Task_GetAttribute' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_GetAttribute' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hTask' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

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        encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' Result' />
        </output>
    </operation>

    <operation name=' Task_GetHelp' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_GetHelp' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hTask' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
            </output>
        </operation>

        <operation name=' Task_GetName' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_GetName' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hTask' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' Result' />
            </output>
        </operation>

        <operation name=' Task_GetTag' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_GetTag' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hTask' />
            </input>
            <output>
                <soap:body

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                                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
                                </output>
                                </operation>

                                <operation name=' Task_PutTag' >
                                <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_PutTag' />
                                <input>
                                <soap:body
                                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hTask newVal' />
                                </input>
                                <output>
                                <soap:body
                                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
                                </output>
                                </operation>

                                <operation name=' Task_GetID' >
                                <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_GetID' />
                                <input>
                                <soap:body
                                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hTask' />
                                </input>
                                <output>
                                <soap:body
                                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
                                </output>
                                </operation>

                                <operation name=' Task_PutID' >
                                <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_PutID' />
                                <input>
                                <soap:body
                                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hTask newVal' />
                                </input>

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        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Task_Release' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Task_Release' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hTask' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Variable_GetDateTime' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Variable_GetDateTime' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hVariable' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Variable_GetValue' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Variable_GetValue' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hVariable' />

```

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        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Variable_PutValue' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Variable_PutValue' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hVariable newVal' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Variable_GetAttribute' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Variable_GetAttribute' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hVariable' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Variable_GetHelp' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Variable_GetHelp' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

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encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hVariable' />
                                </input>
                                <output>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
                                </output>
                            </operation>

                            <operation name=' Variable_GetName' >
                                <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Variable_GetName' />
                                <input>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hVariable' />
                                </input>
                                <output>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
                                </output>
                            </operation>

                            <operation name=' Variable_GetTag' >
                                <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Variable_GetTag' />
                                <input>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' hVariable' />
                                </input>
                                <output>
                                    <soap:body
                                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                                parts=' Result' />
                                </output>
                            </operation>

                            <operation name=' Variable_PutTag' >
                                <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Variable_PutTag' />
                                <input>
                                    <soap:body

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                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hVariable newVal' />
        </input>
        <output>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Variable_GetID' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Variable_GetID' />
        <input>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hVariable' />
        </input>
        <output>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Variable_PutID' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Variable_PutID' />
        <input>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hVariable newVal' />
        </input>
        <output>
                <soap:body
                        use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Variable_GetMicrosecond' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Variable_GetMicrosecond' />
        <input>

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```

        <soap:body
            use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' hVariable' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' Result' />
        </output>
    </operation>

    <operation name=' Variable_Release' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Variable_Release' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' hVariable' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Command_Execute' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_Execute' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' hCommand IMode' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Command_Cancel' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_Cancel' />

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```

        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hCommand' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Command_GetTimeout' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_GetTimeout' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hCommand' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Command_PutTimeout' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_PutTimeout' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hCommand newVal' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Command_GetState' >

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```

        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_GetState' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hCommand' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Command_GetParameters' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_GetParameters' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hCommand' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Command_PutParameters' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_PutParameters' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hCommand newVal' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

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        <operation name=' Command_GetResult' >
          <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_GetResult' />
          <input>
            <soap:body
              use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
              parts=' hCommand' />
          </input>
          <output>
            <soap:body
              use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
              parts=' Result' />
          </output>
        </operation>

        <operation name=' Command_GetAttribute' >
          <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_GetAttribute' />
          <input>
            <soap:body
              use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
              parts=' hCommand' />
          </input>
          <output>
            <soap:body
              use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
              parts=' Result' />
          </output>
        </operation>

        <operation name=' Command_GetHelp' >
          <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_GetHelp' />
          <input>
            <soap:body
              use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
              parts=' hCommand' />
          </input>
          <output>
            <soap:body
              use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
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                parts=' Result' />
            </output>
        </operation>

        <operation name=' Command_GetName' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_GetName' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hCommand' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' Result' />
            </output>
        </operation>

        <operation name=' Command_GetTag' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_GetTag' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hCommand' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' Result' />
            </output>
        </operation>

        <operation name=' Command_PutTag' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_PutTag' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hCommand newVal' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

```

```

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
  </output>
</operation>

  <operation name=' Command_GetID' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_GetID' />
    <input>
      <soap:body
        use=' encoded'
      />
    </input>
  </operation>

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
  parts=' hCommand' />
  </input>
  <output>
    <soap:body
      use=' encoded'
    />
  </output>
</operation>

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
  parts=' Result' />
  </output>
</operation>

  <operation name=' Command_PutID' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_PutID' />
    <input>
      <soap:body
        use=' encoded'
      />
    </input>
  </operation>

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
  parts=' hCommand newVal' />
  </input>
  <output>
    <soap:body
      use=' encoded'
    />
  </output>
</operation>

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
  </output>
</operation>

  <operation name=' Command_Release' >
    <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Command_Release' />
    <input>
      <soap:body
        use=' encoded'
      />
    </input>
  </operation>

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
  parts=' hCommand' />
  </input>
  <output>
    <soap:body

```

```

                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
        </output>
    </operation>

    <operation name=' Message_Reply' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Message_Reply' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hMessage vntData' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
            </output>
        </operation>

        <operation name=' Message_Clear' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Message_Clear' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hMessage' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
            </output>
        </operation>

        <operation name=' Message_GetDateTime' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Message_GetDateTime' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'
encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                    parts=' hMessage' />
            </input>
            <output>
                <soap:body

```

```

                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Message_GetDescription' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Message_GetDescription' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hMessage' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
            </output>
        </operation>

    <operation name=' Message_GetDestination' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Message_GetDestination' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hMessage' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
            </output>
        </operation>

    <operation name=' Message_GetNumber' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Message_GetNumber' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hMessage' />

```

```

        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Message_GetSerialNumber' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Message_GetSerialNumber' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hMessage' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Message_GetSource' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Message_GetSource' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' hMessage' />
        </input>
        <output>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
                parts=' Result' />
        </output>
    </operation>

    <operation name=' Message_GetValue' >
        <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Message_GetValue' />
        <input>
            <soap:body
                use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

```

```

        encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' hMessage' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' Result' />
            </output>
        </operation>

        <operation name=' Message_Release' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.Message_Release' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' hMessage' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
            </output>
        </operation>

        <operation name=' GetLastResult' >
            <soap:operation
soapAction=' http://tempuri.org/CapListener/action/CapServices.GetLastResult' />
            <input>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/' />
            </input>
            <output>
                <soap:body
                    use=' encoded'

namespace=' http://tempuri.org/CapListener/message/'

encodingStyle=' http://schemas.xmlsoap.org/soap/encoding/'
            parts=' Result' />
            </output>
        </operation>
    </binding>

    <service name=' CapListener' >
        <port name=' CapServicesSoapPort' binding=' wsdl:ns:CapServicesSoapBinding' >
            <soap:address location=' http://localhost/Cap/CapListener.WSDL' />
        </port>
    </service>

```

```
</definitions>
```

## Appendix A.2. CAP Listener IDL

### List 2-2 CapListener.IDL

```

/** @file CapListener.idl
 *
 * @brief IDL source file for CapListener.dll
 *
 *
 * @version 1.0
 * @date 2003/12/17
 * @author DENSO WAVE
 */

// This file is preprocessed by type library creation tool MIDL
// to create type library (CapListener.tlb).

import "oaidl.idl";
import "ocidl.idl";

[
    object,
    uuid(B54A0DCE-7764-40fe-B595-C1AE6653C3E6),
    dual,
    helpstring("IManagerConfig Interface"),
    pointer_default(unique)
]
interface IManagerConfig : IDispatch
{
    [id(1), helpstring("Method Execute")] HRESULT Execute([in] BSTR bstrCommand,
[in, optional] VARIANT vntParam, [out, retval] VARIANT *pVal);
    [id(2), helpstring("Method RegisterReserveHandle")] HRESULT
RegisterReserveHandle([in] BSTR bstrName, [in] long lHandle);
    [id(3), helpstring("Method UnregisterReserveHandle")] HRESULT
UnregisterReserveHandle([in] BSTR bstrName);
}

[
    object,
    uuid(3A427B16-2FBE-4FB4-B20C-1AC32F669B75),
    dual,
    helpstring("ICapServices Interface"),
    pointer_default(unique)
]
interface ICapServices : IDispatch
{
    [id(1), helpstring("Method Service_Start")] HRESULT Service_Start([in,
defaultvalue("")] BSTR bstrOption);
    [id(2), helpstring("Method Service_Stop")] HRESULT Service_Stop();

    [id(3), helpstring("Method Controller_Connect")] HRESULT
Controller_Connect([in] BSTR bstrController, [in] BSTR bstrProvider, [in, defaultvalue("")] BSTR
bstrMachine, [in, defaultvalue("")] BSTR bstrOption, [out, retval] long *hController);
    [id(4), helpstring("Method Controller_Disconnect")] HRESULT
Controller_Disconnect([in] long hController);
    [id(5), helpstring("Method Controller_GetExtension")] HRESULT
Controller_GetExtension([in] long hController, [in] BSTR bstrName, [in, defaultvalue("")] BSTR
bstrOption, [out, retval] long *hExtension);
}

```

```

[id(6), helpstring("Method Controller_GetFile")] HRESULT
Controller_GetFile([in] long hController, [in] BSTR bstrName, [in, defaultvalue("")] BSTR
bstrOption, [out, retval] long *hFile);
[id(7), helpstring("Method Controller_GetRobot")] HRESULT
Controller_GetRobot([in] long hController, [in] BSTR bstrName, [in, defaultvalue("")] BSTR
bstrOption, [out, retval] long *hRobot);
[id(8), helpstring("Method Controller_GetTask")] HRESULT
Controller_GetTask([in] long hController, [in] BSTR bstrName, [in, defaultvalue("")] BSTR
bstrOption, [out, retval] long *hTask);
[id(9), helpstring("Method Controller_GetVariable")] HRESULT
Controller_GetVariable([in] long hController, [in] BSTR bstrName, [in, defaultvalue("")] BSTR
bstrOption, [out, retval] long *hVariable);
[id(10), helpstring("Method Controller_GetCommand")] HRESULT
Controller_GetCommand([in] long hController, [in] BSTR bstrName, [in, defaultvalue("")] BSTR
bstrOption, [out, retval] long *hCommand);
[id(11), helpstring("Method Controller_GetExtensionNames")] HRESULT
Controller_GetExtensionNames([in] long hController, [in, defaultvalue("")] BSTR bstrOption,
[out, retval] VARIANT *pVal);
[id(12), helpstring("Method Controller_GetFileNames")] HRESULT
Controller_GetFileNames([in] long hController, [in, defaultvalue("")] BSTR bstrOption, [out,
retval] VARIANT *pVal);
[id(13), helpstring("Method Controller_GetRobotNames")] HRESULT
Controller_GetRobotNames([in] long hController, [in, defaultvalue("")] BSTR bstrOption, [out,
retval] VARIANT *pVal);
[id(14), helpstring("Method Controller_GetTaskNames")] HRESULT
Controller_GetTaskNames([in] long hController, [in, defaultvalue("")] BSTR bstrOption, [out,
retval] VARIANT *pVal);
[id(15), helpstring("Method Controller_GetVariableNames")] HRESULT
Controller_GetVariableNames([in] long hController, [in, defaultvalue("")] BSTR bstrOption, [out,
retval] VARIANT *pVal);
[id(16), helpstring("Method Controller_GetCommandNames")] HRESULT
Controller_GetCommandNames([in] long hController, [in, defaultvalue("")] BSTR bstrOption, [out,
retval] VARIANT *pVal);
[id(17), helpstring("Method Controller_Execute")] HRESULT
Controller_Execute([in] long hController, [in] BSTR bstrCommand, [in, optional] VARIANT vntParam,
[out, retval] VARIANT *pVal);
[id(18), helpstring("Method Controller_GetMessage")] HRESULT
Controller_GetMessage([in] long hController, [out, retval] long *hMessage);
[id(19), helpstring("Method Controller_GetAttribute")] HRESULT
Controller_GetAttribute([in] long hController, [out, retval] long *pVal);
[id(20), helpstring("Method Controller_GetHelp")] HRESULT
Controller_GetHelp([in] long hController, [out, retval] BSTR *pVal);
[id(21), helpstring("Method Controller_GetName")] HRESULT
Controller_GetName([in] long hController, [out, retval] BSTR *pVal);
[id(22), helpstring("Method Controller_GetTag")] HRESULT
Controller_GetTag([in] long hController, [out, retval] VARIANT *pVal);
[id(23), helpstring("Method Controller_PutTag")] HRESULT
Controller_PutTag([in] long hController, [in] VARIANT newVal);
[id(24), helpstring("Method Controller_GetID")] HRESULT Controller_GetID([in]
long hController, [out, retval] VARIANT *pVal);
[id(25), helpstring("Method Controller_PutID")] HRESULT Controller_PutID([in]
long hController, [in] VARIANT newVal);

[id(26), helpstring("Method Extension_GetVariable")] HRESULT
Extension_GetVariable([in] long hExtension, [in] BSTR bstrName, [in, defaultvalue("")] BSTR
bstrOption, [out, retval] long *hVariable);
[id(27), helpstring("Method Extension_GetVariableNames")] HRESULT
Extension_GetVariableNames([in] long hExtension, [in, defaultvalue("")] BSTR bstrOption, [out,
retval] VARIANT *pVal);
[id(28), helpstring("Method Extension_Execute")] HRESULT
Extension_Execute([in] long hExtension, [in] BSTR bstrCommand, [in, optional] VARIANT vntParam,
[out, retval] VARIANT *pVal);
[id(29), helpstring("Method Extension_GetAttribute")] HRESULT
Extension_GetAttribute([in] long hExtension, [out, retval] long *pVal);
[id(30), helpstring("Method Extension_GetHelp")] HRESULT
Extension_GetHelp([in] long hExtension, [out, retval] BSTR *pVal);

```

```

[id(31), helpstring("Method Extension_GetName")] HRESULT
Extension_GetName([in] long hExtension, [out, retval] BSTR *pVal);
[id(32), helpstring("Method Extension_GetTag")] HRESULT Extension_GetTag([in]
long hExtension, [out, retval] VARIANT *pVal);
[id(33), helpstring("Method Extension_PutTag")] HRESULT Extension_PutTag([in]
long hExtension, [in] VARIANT newVal);
[id(34), helpstring("Method Extension_GetID")] HRESULT Extension_GetID([in]
long hExtension, [out, retval] VARIANT *pVal);
[id(35), helpstring("Method Extension_PutID")] HRESULT Extension_PutID([in]
long hExtension, [in] VARIANT newVal);
[id(36), helpstring("Method Extension_Release")] HRESULT
Extension_Release([in] long hExtension);

[id(37), helpstring("Method File_GetFile")] HRESULT File_GetFile([in] long
hParentFile, [in] BSTR bstrName, [in, defaultvalue("")] BSTR bstrOption, [out, retval] long
*hFile);
[id(38), helpstring("Method File_GetVariable")] HRESULT File_GetVariable([in]
long hFile, [in] BSTR bstrName, [in, defaultvalue("")] BSTR bstrOption, [out, retval] long
*hVariable);
[id(39), helpstring("Method File_GetFileNames")] HRESULT
File_GetFileNames([in] long hFile, [in, defaultvalue("")] BSTR bstrOption, [out, retval] VARIANT
*pVal);
[id(40), helpstring("Method File_GetVariableNames")] HRESULT
File_GetVariableNames([in] long hFile, [in, defaultvalue("")] BSTR bstrOption, [out, retval]
VARIANT *pVal);
[id(41), helpstring("Method File_Execute")] HRESULT File_Execute([in] long
hFile, [in] BSTR bstrCommand, [in, optional] VARIANT vntParam, [out, retval] VARIANT *pVal);
[id(42), helpstring("Method File_Copy")] HRESULT File_Copy([in] long hFile,
[in] BSTR bstrName, [in, defaultvalue("")] BSTR bstrOption);
[id(43), helpstring("Method File_Delete")] HRESULT File_Delete([in] long hFile,
[in, defaultvalue("")] BSTR bstrOption);
[id(44), helpstring("Method File_Move")] HRESULT File_Move([in] long hFile,
[in] BSTR bstrName, [in, defaultvalue("")] BSTR bstrOption);
[id(45), helpstring("Method File_Run")] HRESULT File_Run([in] long hFile, [in,
defaultvalue("")] BSTR bstrOption, [out, retval] BSTR *bstrName);
[id(46), helpstring("Method File_GetDateCreated")] HRESULT
File_GetDateCreated([in] long hFile, [out, retval] VARIANT *pVal);
[id(47), helpstring("Method File_GetDateLastAccessed")] HRESULT
File_GetDateLastAccessed([in] long hFile, [out, retval] VARIANT *pVal);
[id(48), helpstring("Method File_GetDateLastModified")] HRESULT
File_GetDateLastModified([in] long hFile, [out, retval] VARIANT *pVal);
[id(49), helpstring("Method File_GetPath")] HRESULT File_GetPath([in] long
hFile, [out, retval] BSTR *pVal);
[id(50), helpstring("Method File_GetSize")] HRESULT File_GetSize([in] long
hFile, [out, retval] long *pVal);
[id(51), helpstring("Method File_GetType")] HRESULT File_GetType([in] long
hFile, [out, retval] BSTR *pVal);
[id(52), helpstring("Method File_GetValue")] HRESULT File_GetValue([in] long
hFile, [out, retval] VARIANT *pVal);
[id(53), helpstring("Method File_PutValue")] HRESULT File_PutValue([in] long
hFile, [in] VARIANT newVal);
[id(54), helpstring("Method File_GetAttribute")] HRESULT
File_GetAttribute([in] long hFile, [out, retval] long *pVal);
[id(55), helpstring("Method File_GetHelp")] HRESULT File_GetHelp([in] long
hFile, [out, retval] BSTR *pVal);
[id(56), helpstring("Method File_GetName")] HRESULT File_GetName([in] long
hFile, [out, retval] BSTR *pVal);
[id(57), helpstring("Method File_GetTag")] HRESULT File_GetTag([in] long hFile,
[out, retval] VARIANT *pVal);
[id(58), helpstring("Method File_PutTag")] HRESULT File_PutTag([in] long hFile,
[in] VARIANT newVal);
[id(59), helpstring("Method File_GetID")] HRESULT File_GetID([in] long hFile,
[out, retval] VARIANT *pVal);
[id(60), helpstring("Method File_PutID")] HRESULT File_PutID([in] long hFile,
[in] VARIANT newVal);

```

[id(61), helpstring("Method File\_Release")] HRESULT File\_Release([in] long hFile);

[id(62), helpstring("Method Robot\_GetVariable")] HRESULT Robot\_GetVariable([in] long hRobot, [in] BSTR bstrName, [in, defaultvalue("")] BSTR bstrOption, [out, retval] long \*hVariable);

[id(63), helpstring("Method Robot\_GetVariableNames")] HRESULT Robot\_GetVariableNames([in] long hRobot, [in, defaultvalue("")] BSTR bstrOption, [out, retval] VARIANT \*pVal);

[id(64), helpstring("Method Robot\_Execute")] HRESULT Robot\_Execute([in] long hRobot, [in] BSTR bstrCommand, [in, optional] VARIANT vntParam, [out, retval] VARIANT \*pVal);

[id(65), helpstring("Method Robot\_Accelerate")] HRESULT Robot\_Accelerate([in] long hRobot, [in] long lAxis, [in] float fAccel, [in] float fDecel);

[id(66), helpstring("Method Robot\_Change")] HRESULT Robot\_Change([in] long hRobot, [in] BSTR bstrName);

[id(67), helpstring("Method Robot\_Chuck")] HRESULT Robot\_Chuck([in] long hRobot, [in] BSTR bstrOption);

[id(68), helpstring("Method Robot\_Drive")] HRESULT Robot\_Drive([in] long hRobot, [in] long lNo, [in] float fMov, [in, defaultvalue("")] BSTR bstrOpt);

[id(69), helpstring("Method Robot\_GoHome")] HRESULT Robot\_GoHome([in] long hRobot);

[id(70), helpstring("Method Robot\_Halt")] HRESULT Robot\_Halt([in] long hRobot, [in] BSTR bstrOption);

[id(71), helpstring("Method Robot\_Hold")] HRESULT Robot\_Hold([in] long hRobot, [in] BSTR bstrOption);

[id(72), helpstring("Method Robot\_Move")] HRESULT Robot\_Move([in] long hRobot, [in] long lComp, [in] VARIANT vntPose, [in, defaultvalue("")] BSTR bstrOpt);

[id(73), helpstring("Method Robot\_Rotate")] HRESULT Robot\_Rotate([in] long hRobot, [in] VARIANT vntRotSuf, [in] float fDeg, [in] VARIANT vntPivot, [in, defaultvalue("")] BSTR bstrOpt);

[id(74), helpstring("Method Robot\_Speed")] HRESULT Robot\_Speed([in] long hRobot, [in] long lAxis, [in] float fSpeed);

[id(75), helpstring("Method Robot\_Unchuck")] HRESULT Robot\_Unchuck([in] long hRobot, [in] BSTR bstrOption);

[id(76), helpstring("Method Robot\_Unhold")] HRESULT Robot\_Unhold([in] long hRobot, [in] BSTR bstrOption);

[id(77), helpstring("Method Robot\_GetAttribute")] HRESULT Robot\_GetAttribute([in] long hRobot, [out, retval] long \*pVal);

[id(78), helpstring("Method Robot\_GetHelp")] HRESULT Robot\_GetHelp([in] long hRobot, [out, retval] BSTR \*pVal);

[id(79), helpstring("Method Robot\_GetName")] HRESULT Robot\_GetName([in] long hRobot, [out, retval] BSTR \*pVal);

[id(80), helpstring("Method Robot\_GetTag")] HRESULT Robot\_GetTag([in] long hRobot, [out, retval] VARIANT \*pVal);

[id(81), helpstring("Method Robot\_PutTag")] HRESULT Robot\_PutTag([in] long hRobot, [in] VARIANT newVal);

[id(82), helpstring("Method Robot\_GetID")] HRESULT Robot\_GetID([in] long hRobot, [out, retval] VARIANT \*pVal);

[id(83), helpstring("Method Robot\_PutID")] HRESULT Robot\_PutID([in] long hRobot, [in] VARIANT newVal);

[id(84), helpstring("Method Robot\_Release")] HRESULT Robot\_Release([in] long hRobot);

[id(85), helpstring("Method Task\_GetVariable")] HRESULT Task\_GetVariable([in] long hTask, [in] BSTR bstrName, [in, defaultvalue("")] BSTR bstrOption, [out, retval] long \*hVariable);

[id(86), helpstring("Method Task\_GetVariableNames")] HRESULT Task\_GetVariableNames([in] long hTask, [in, defaultvalue("")] BSTR bstrOption, [out, retval] VARIANT \*pVal);

[id(87), helpstring("Method Task\_Execute")] HRESULT Task\_Execute([in] long hTask, [in] BSTR bstrCommand, [in, optional] VARIANT vntParam, [out, retval] VARIANT \*pVal);

[id(88), helpstring("Method Task\_Start")] HRESULT Task\_Start([in] long hTask, [in] long lMode, [in, defaultvalue("")] BSTR bstrOption);

[id(89), helpstring("Method Task\_Stop")] HRESULT Task\_Stop([in] long hTask, [in] long lMode, [in, defaultvalue("")] BSTR bstrOption);

```

        [id(90), helpstring("Method Task_Delete")] HRESULT Task_Delete([in] long hTask,
[in, defaultvalue("")] BSTR bstrOption);
        [id(91), helpstring("Method Task_GetFileName")] HRESULT Task_GetFileName([in]
long hTask, [out, retval] BSTR *pVal);
        [id(92), helpstring("Method Task_GetAttribute")] HRESULT
Task_GetAttribute([in] long hTask, [out, retval] long *pVal);
        [id(93), helpstring("Method Task_GetHelp")] HRESULT Task_GetHelp([in] long
hTask, [out, retval] BSTR *pVal);
        [id(94), helpstring("Method Task_GetName")] HRESULT Task_GetName([in] long
hTask, [out, retval] BSTR *pVal);
        [id(95), helpstring("Method Task_GetTag")] HRESULT Task_GetTag([in] long hTask,
[out, retval] VARIANT *pVal);
        [id(96), helpstring("Method Task_PutTag")] HRESULT Task_PutTag([in] long hTask,
[in] VARIANT newVal);
        [id(97), helpstring("Method Task_GetID")] HRESULT Task_GetID([in] long hTask,
[out, retval] VARIANT *pVal);
        [id(98), helpstring("Method Task_PutID")] HRESULT Task_PutID([in] long hTask,
[in] VARIANT newVal);
        [id(99), helpstring("Method Task_Release")] HRESULT Task_Release([in] long
hTask);

        [id(100), helpstring("Method Variable_GetDateTime")] HRESULT
Variable_GetDateTime([in] long hVariable, [out, retval] VARIANT *pVal);
        [id(101), helpstring("Method Variable_GetValue")] HRESULT
Variable_GetValue([in] long hVariable, [out, retval] VARIANT *pVal);
        [id(102), helpstring("Method Variable_PutValue")] HRESULT
Variable_PutValue([in] long hVariable, [in] VARIANT newVal);
        [id(103), helpstring("Method Variable_GetAttribute")] HRESULT
Variable_GetAttribute([in] long hVariable, [out, retval] long *pVal);
        [id(104), helpstring("Method Variable_GetHelp")] HRESULT
Variable_GetHelp([in] long hVariable, [out, retval] BSTR *pVal);
        [id(105), helpstring("Method Variable_GetName")] HRESULT
Variable_GetName([in] long hVariable, [out, retval] BSTR *pVal);
        [id(106), helpstring("Method Variable_GetTag")] HRESULT Variable_GetTag([in]
long hVariable, [out, retval] VARIANT *pVal);
        [id(107), helpstring("Method Variable_PutTag")] HRESULT Variable_PutTag([in]
long hVariable, [in] VARIANT newVal);
        [id(108), helpstring("Method Variable_GetID")] HRESULT Variable_GetID([in]
long hVariable, [out, retval] VARIANT *pVal);
        [id(109), helpstring("Method Variable_PutID")] HRESULT Variable_PutID([in]
long hVariable, [in] VARIANT newVal);
        [id(110), helpstring("Method Variable_GetMicrosecond")] HRESULT
Variable_GetMicrosecond([in] long hVariable, [out, retval] long *pVal);
        [id(111), helpstring("Method Variable_Release")] HRESULT
Variable_Release([in] long hVariable);

        [id(112), helpstring("Method Command_Execute")] HRESULT Command_Execute([in]
long hCommand, [in] long lMode);
        [id(113), helpstring("Method Command_Cancel")] HRESULT Command_Cancel([in]
long hCommand);
        [id(114), helpstring("Method Command_GetTimeout")] HRESULT
Command_GetTimeout([in] long hCommand, [out, retval] long *pVal);
        [id(115), helpstring("Method Command_PutTimeout")] HRESULT
Command_PutTimeout([in] long hCommand, [in] long newVal);
        [id(116), helpstring("Method Command_GetState")] HRESULT
Command_GetState([in] long hCommand, [out, retval] long *pVal);
        [id(117), helpstring("Method Command_GetParameters")] HRESULT
Command_GetParameters([in] long hCommand, [out, retval] VARIANT *pVal);
        [id(118), helpstring("Method Command_PutParameters")] HRESULT
Command_PutParameters([in] long hCommand, [in] VARIANT newVal);
        [id(119), helpstring("Method Command_GetResult")] HRESULT
Command_GetResult([in] long hCommand, [out, retval] VARIANT *pVal);
        [id(120), helpstring("Method Command_GetAttribute")] HRESULT
Command_GetAttribute([in] long hCommand, [out, retval] long *pVal);
        [id(121), helpstring("Method Command_GetHelp")] HRESULT Command_GetHelp([in]
long hCommand, [out, retval] BSTR *pVal);

```

```

        [id(122), helpstring("Method Command_GetName")] HRESULT Command_GetName([in]
long hCommand, [out, retval] BSTR *pVal);
        [id(123), helpstring("Method Command_GetTag")] HRESULT Command_GetTag([in]
long hCommand, [out, retval] VARIANT *pVal);
        [id(124), helpstring("Method Command_PutTag")] HRESULT Command_PutTag([in]
long hCommand, [in] VARIANT newVal);
        [id(125), helpstring("Method Command_GetID")] HRESULT Command_GetID([in] long
hCommand, [out, retval] VARIANT *pVal);
        [id(126), helpstring("Method Command_PutID")] HRESULT Command_PutID([in] long
hCommand, [in] VARIANT newVal);
        [id(127), helpstring("Method Command_Release")] HRESULT Command_Release([in]
long hCommand);

        [id(128), helpstring("Method Message_Reply")] HRESULT Message_Reply([in] long
hMessage, [in] VARIANT vntData);
        [id(129), helpstring("Method Message_Clear")] HRESULT Message_Clear([in] long
hMessage);

        [id(130), helpstring("Method Message_GetDateTime")] HRESULT
Message_GetDateTime([in] long hMessage, [out, retval] VARIANT *pVal);
        [id(131), helpstring("Method Message_GetDescription")] HRESULT
Message_GetDescription([in] long hMessage, [out, retval] BSTR *pVal);
        [id(132), helpstring("Method Message_GetDestination")] HRESULT
Message_GetDestination([in] long hMessage, [out, retval] BSTR *pVal);
        [id(133), helpstring("Method Message_GetNumber")] HRESULT
Message_GetNumber([in] long hMessage, [out, retval] long *pVal);
        [id(134), helpstring("Method Message_GetSerialNumber")] HRESULT
Message_GetSerialNumber([in] long hMessage, [out, retval] long *pVal);
        [id(135), helpstring("Method Message_GetSource")] HRESULT
Message_GetSource([in] long hMessage, [out, retval] BSTR *pVal);
        [id(136), helpstring("Method Message_GetValue")] HRESULT
Message_GetValue([in] long hMessage, [out, retval] VARIANT *pVal);
        [id(137), helpstring("Method Message_Release")] HRESULT Message_Release([in]
long hMessage);

        [id(200), helpstring("Method GetLastResult")] HRESULT GetLastResult([out,
retval] HRESULT *pVal);

};

[
    uuid(64A6006F-DB26-48E8-BB25-F1F62B52A27A),
    version(1.0),
    helpstring("CapListener 1.0 Type Library")
]
library CAPLISTENERLib
{
    importlib("stdole32.tlb");
    importlib("stdole2.tlb");

    // _ICaoControllerEvents dispinterface
    [
        uuid(F12B6EFA-E907-4eb9-A23F-31ED44767C24),
        helpstring("_ICapServicesEvents Interface")
    ]
    dispinterface _ICapServicesEvents
    {
        properties:
        methods:
        [id(1), helpstring("Method OnMessage")] HRESULT OnMessage([in] long
hController, [in] long hMessage);
    };

    [
        uuid(8FCA775A-6855-4741-B891-D4EA9F4CA550),
        helpstring("CapServices Class")
    ]

```

```
    coclass CapServices
    {
        [default] interface ICapServices;
        [default, source] dispinterface _ICapServicesEvents;
        interface IManagerConfig;
    };
};
```

