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## SIP/UPDATE Request

Posted by David - 2010/01/26 16:55

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I'm trying to send an UPDATE request through a SipPort but it doesn't seem to be supported. I got this exception when sending it:

```
EXCEPTION: org.echarts.MachineException: No transition defined for message class
org.echarts.servlet.sip.messages.Request with string representation UPDATE sip:caller@192.168.1.173:5060 on port
{PORT_NAME=remote, PORT_TYPE=EXTERNAL_PORT, PORT_ID=21d63a2c:12666310a8a:-7e10} from state
:org.echarts.servlet.sip.SipPortFSM{ INVITE_DIALOG:org.echarts.servlet.sip.InviteDialogFSM{ INVITE_RECEIVED } }
FINAL_MACHINE_STATE: :org.echarts.servlet.sip.SipPortFSM{
INVITE_DIALOG:org.echarts.servlet.sip.InviteDialogFSM{ INVITE_RECEIVED } }
MESSAGE: Exception encountered advancing port machine state
```

I thought eCharts only transits state machines on the reception of messages, not on sending. Is there any way to create a SipPort not using SipPortFSM? Can this behaviour be overridden?

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## Re:SIP/UPDATE Request

Posted by Eric Cheung - 2010/01/26 21:00

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SipPortFSM tracks all incoming and outgoing messages, and it does not permit a request to be sent in the INVITE\_RECEIVED state, hence the exception.

I think SipPortFSM should permit an UPDATE to be sent any time after a provisional response is sent. Similarly, on the calling side it should accommodate receiving an UPDATE in the INVITE\_SENT state.

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## Re:SIP/UPDATE Request

Posted by Tom Smith - 2010/01/27 03:19

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E4SS support has been focused on RFC3261 to date (as well as INFO), but it may be straightforward to make these changes for UPDATE. We'll take a look and post back here with our thoughts.

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## Re:SIP/UPDATE Request

Posted by David - 2010/01/27 11:10

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Thanks Eric and Tom for your quick response.

The scenario is as follows:

```
A.....Proxy (eCharts)
| --- INVITE ----> |
| <----- 183 ----- |
| <--- UPDATE -- ! Exception!
```

Do you mean that it isn't possible to send UPDATE requests on this scenario?

Could it be possible to modify InviteDialogFSM to allow SipPort to send/receive UPDATE requests?

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## Re:SIP/UPDATE Request

Posted by Eric Cheung - 2010/01/27 12:51

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RFC3311 certainly allows for this message sequence. As a quick and dirty workaround, you can try adding these transitions in InviteDialogFSM:

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```
// Allow sending UPDATE (or any request for that matter)
transition INVITE_RECEIVED - remote?Request -> INVITE_RECEIVED;
```

```
// Handle incoming responses to any requests sent
transition INVITE_RECEIVED - thisPort?Response -> INVITE_RECEIVED;
```

This is not ideal, because it does not distinguish between UPDATE with say an INVITE, which should not be allowed. Also if a 1xx has not been sent, UPDATE should not be allowed either. But doing more checks would require more code change.

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## Re:SIP/UPDATE Request

Posted by David - 2010/01/27 13:07

Thank you, I'll try your hint.

Is it planned to add this feature to eCharts in future releases? It seems to me that only this state machine is to be modified to achieve this aim, isn't it? (Of course, as you have stated with more code change).

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## Re:SIP/UPDATE Request

Posted by Tom Smith - 2010/01/27 19:32

David:

I filed a Feature Request for this issue. Does Eric's suggestion unblock you? If so, we will probably defer this to the next release.

If you are still blocked, we will try to help you in the interim.

Thanks,  
Tom.

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## Re:SIP/UPDATE Request

Posted by David - 2010/01/28 11:10

It works fine! :)

Now, I can send UPDATE requests and receive responses.

When is planned next release of eCharts?

Thank you very much for your attention.

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## Re:SIP/UPDATE Request

Posted by Tom Smith - 2010/01/28 15:54

Glad that Eric's workaround did the trick.

We don't have a date scheduled for the next release, as we are in the planning stages now.

Thanks,  
Tom.

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## Re:SIP/UPDATE Request

Posted by Tom Smith - 2010/02/25 14:44

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Sourceforge tracker ID 2941175 has been fixed on the svn trunk. Requests (including UPDATE) may be sent and received once an early dialog has been established.

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