CSTA API

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CSTA API ECSS-10, , / , (HOLD/HOLE, CTR, 3WAY, CONF).

API ( ) API CSTA.

CSTA ECSS-10 TCP, ECMA 323 Annex J.2 (TCP without SOAP). / :

```
| 0 1 | 2 3    | 4 5 6 7   | 8 . . .          |
| 0 0 | Length | Invoke ID | XML message body |
```

Invoke ID :: string(), "0000" - "9999". Invoke ID = 9999 ECSS-10 .

/

1. Start application session request XML:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<StartApplicationSession xmlns="http://www.ecma-international.org/standards/ecma-354/appl_session" xmlns:
ns1="http://www.eltex.org/csta">
    <applicationInfo>
        <applicationID>Eltex ECSS-10 CSTA adapter</applicationID>
        <applicationSpecificInfo>
            <ns1:SessionLoginInfo xmlns:ns1="http://www.eltex.org/csta">
                <ns1:userName>p.city</ns1:userName>
                <ns1:password>1234</ns1:password>
            </ns1:SessionLoginInfo>
        </applicationSpecificInfo>
    </applicationInfo>
    <requestedProtocolVersions>
        <protocolVersion>http://www.ecma-international.org/standards/ecma-323/csta/ed3</protocolVersion>
    </requestedProtocolVersions>
    <requestedSessionDuration>300</requestedSessionDuration>
</StartApplicationSession>
```

2. Start application session positive response XML:

```
<?xml version="1.0"?>
<StartApplicationSessionPosResponse xmlns="http://www.ecma-international.org/standards/ecma-354
/appl_session" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-
international.org/standards/ecma-354/appl_session start-application-session.xsd">
    <sessionID>f76e5fe9c5e0d444</sessionID>
    <actualProtocolVersion>http://www.ecma-international.org/standards/ecma-323/csta/ed3<
/actualProtocolVersion>
    <actualSessionDuration>300</actualSessionDuration>
</StartApplicationSessionPosResponse>
```

3. Prolonge application session request XML:

```
<?xml version="1.0"?>
<ResetApplicationSessionTimer xmlns="http://www.ecma-international.org/standards/ecma-354/appl_session"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.
org/standards/ecma-354/appl_session reset-application-session-timer.xsd">
    <sessionID>f76e5fe9c5e0d444</sessionID>
    <requestedSessionDuration>500</requestedSessionDuration>
</ResetApplicationSessionTimer>
```

4. Prolonge application session positive response XML:

```
<?xml version="1.0"?>
<ResetApplicationSessionTimerPosResponse xmlns="http://www.ecma-international.org/standards/ecma-354
/appl_session" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-
international.org/standards/ecma-354/appl_session reset-application-session-timer.xsd">
    <actualSessionDuration>500</actualSessionDuration>
</ResetApplicationSessionTimerPosResponse>
```

5. Stop application session request XML:

```
<StopApplicationSession xmlns="http://www.ecma-international.org/standards/ecma-354/appl_session">
    <sessionID>f76e5fe9c5e0d444</sessionID>
    <sessionEndReason>
        <definedEndReason>normal</definedEndReason>
    </sessionEndReason>
</StopApplicationSession>
```

6. Stop application session positive request XML:

```
<?xml version="1.0"?>
<StopApplicationSessionPosResponse xmlns="http://www.ecma-international.org/standards/ecma-354
/appl_session" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-
international.org/standards/ecma-354/appl_session stop-application-session.xsd"/>
```

7. Subscribe on events from device with number 725 request XML:

```
<MonitorStart xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3">
    <monitorObject>
        <deviceObject typeOfNumber="dialingNumber">725</deviceObject>
    </monitorObject>
    <requestedMonitorFilter>
        <callcontrol>
            <bridged>true</bridged>
            <callCleared>false</callCleared>
            <conferenced>false</conferenced>
            <connectionCleared>false</connectionCleared>
            <delivered>false</delivered>
            <digitsDialed>true</digitsDialed>
            <diverted>true</diverted>
            <established>false</established>
            <failed>true</failed>
            <held>true</held>
            <networkCapabilitiesChanged>true</networkCapabilitiesChanged>
            <networkReached>true</networkReached>
            <offered>true</offered>
            <originated>false</originated>
            <queued>true</queued>
            <retrieved>true</retrieved>
            <serviceInitiated>false</serviceInitiated>
            <transferred>false</transferred>
        </callcontrol>
    </requestedMonitorFilter>
</MonitorStart>
```

8. Subscribe on events from device with number 725 response XML:

```
<?xml version="1.0"?>
<MonitorStartResponse xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.org
/standards/ecma-323/csta/ed3 monitor-start.xsd">
    <monitorCrossRefID>DMON:f76e605590f2bc03</monitorCrossRefID>
</MonitorStartResponse>
```

9. ServiceInitiatedEvent - out call from monitored number:

```
<?xml version="1.0"?>
<ServiceInitiatedEvent xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.org
/standards/ecma-323/csta/ed3 service-initiated-event.xsd">
    <monitorCrossRefID>DMON:f76e9c86851a2adc</monitorCrossRefID>
    <initiatedConnection>
        <deviceID typeOfNumber="dialingNumber">725:::
MV80MTQ4Nzg5MjgwQDEwLjEwMC4xMDEuMjY=#ZWNzc0kxNTEwNzk3ODIyMzA2MDQ1MDMxMDIw#MzE3MDY1Nzk5NA==</deviceID>
        <callID>f76e9d66720eb32d</callID>
    </initiatedConnection>
    <initiatingDevice>
        <deviceIdentifier typeOfNumber="dialingNumber" mediaClass="notKnown" bitRate="constant">725:::
MV80MTQ4Nzg5MjgwQDEwLjEwMC4xMDEuMjY=#ZWNzc0kxNTEwNzk3ODIyMzA2MDQ1MDMxMDIw#MzE3MDY1Nzk5NA==<
/deviceIdentifier>
    </initiatingDevice>
    <calledDevice>
        <notKnown/>
    </calledDevice>
    <cause>newCall</cause>
</ServiceInitiatedEvent>
```


10. DeliveredEvent


```
<?xml version="1.0"?>
<DeliveredEvent xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.org
/standards/ecma-323/csta/ed3 delivered-event.xsd">
    <monitorCrossRefID>DMON:f76e9c7a2075e497</monitorCrossRefID>
    <connection>
        <deviceID typeOfNumber="dialingNumber">722:::
QkE6Zjc2ZTlkNjY3MjBlYjMyZDpmNzZlOWQ3MDE2MWNmM2Q3#ZWNzc08xNTEwNzk3ODIyNDgyMTE2MDExODI3MTE=#MUZtNVFIVWVwVXI
1Yw==</deviceID>
        <callID>f76e9d66720eb32d</callID>
    </connection>
    <alertingDevice>
        <deviceIdentifier typeOfNumber="dialingNumber" mediaClass="notKnown" bitRate="constant">722:::
QkE6Zjc2ZTlkNjY3MjBlYjMyZDpmNzZlOWQ3MDE2MWNmM2Q3#ZWNzc08xNTEwNzk3ODIyNDgyMTE2MDExODI3MTE=#MUZtNVFIVWVwVXI
1Yw==</deviceIdentifier>
    </alertingDevice>
    <callingDevice>
        <deviceIdentifier typeOfNumber="dialingNumber" mediaClass="notKnown" bitRate="constant">725:::
MV80MTQ4Nzg5MjgwQDEwLjEwMC4xMDEuMjY=#ZWNzc0kxNTEwNzk3ODIyMzA2MDQ1MDMxMDIw#MzE3MDY1Nzk5NA==<
/deviceIdentifier>
    </callingDevice>
    <calledDevice>
        <deviceIdentifier typeOfNumber="dialingNumber" mediaClass="notKnown" bitRate="constant">722:::
QkE6Zjc2ZTlkNjY3MjBlYjMyZDpmNzZlOWQ3MDE2MWNmM2Q3#ZWNzc08xNTEwNzk3ODIyNDgyMTE2MDExODI3MTE=#MUZtNVFIVWVwVXI
1Yw==</deviceIdentifier>
    </calledDevice>
    <lastRedirectionDevice>
        <notKnown/>
    </lastRedirectionDevice>
    <cause>newCall</cause>
</DeliveredEvent>
```


11. EstablishedEvent

```
<?xml version="1.0"?>
<EstablishedEvent xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.org
/standards/ecma-323/csta/ed3 established-event.xsd">
    <monitorCrossRefID>DMON:f76e9c7a2075e497</monitorCrossRefID>
    <establishedConnection>
        <deviceID typeOfNumber="dialingNumber">722:::
QkE6Zjc2ZTlkNjY3MjBlYjMyZDpmNzZlOWQ3MDE2MWNmM2Q3#ZWNzc08xNTEwNzk3ODIyNDgyMTE2MDExODI3MTE=#MUZtNVFIVWVwVXI
1Yw==</deviceID>
        <callID>f76e9d66720eb32d</callID>
    </establishedConnection>
    <answeringDevice>
        <deviceIdentifier typeOfNumber="dialingNumber" mediaClass="notKnown" bitRate="constant">722:::
QkE6Zjc2ZTlkNjY3MjBlYjMyZDpmNzZlOWQ3MDE2MWNmM2Q3#ZWNzc08xNTEwNzk3ODIyNDgyMTE2MDExODI3MTE=#MUZtNVFIVWVwVXI
1Yw==</deviceIdentifier>
    </answeringDevice>
    <callingDevice>
        <deviceIdentifier typeOfNumber="dialingNumber" mediaClass="notKnown" bitRate="constant">722:::
QkE6Zjc2ZTlkNjY3MjBlYjMyZDpmNzZlOWQ3MDE2MWNmM2Q3#ZWNzc08xNTEwNzk3ODIyNDgyMTE2MDExODI3MTE=#MUZtNVFIVWVwVXI
1Yw==</deviceIdentifier>
    </callingDevice>
    <calledDevice>
        <notKnown/>
    </calledDevice>
    <lastRedirectionDevice>
        <notKnown/>
    </lastRedirectionDevice>
    <cause>normal</cause>
</EstablishedEvent>
```


12. OriginatedEvent


```
<?xml version="1.0"?>
<OriginatedEvent xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.org
/standards/ecma-323/csta/ed3 originated-event.xsd">
    <monitorCrossRefID>DMON:f76e9c86851a2adc</monitorCrossRefID>
    <originatedConnection>
        <deviceID typeOfNumber="dialingNumber">725:::
MV80MTQ4Nzg5MjgwQDEwLjEwMC4xMDEuMjY=#ZWNzc0kxNTEwNzk3ODIyMzA2MDQ1MDMxMDIw#MzE3MDY1Nzk5NA==</deviceID>
        <callID>f76e9d66720eb32d</callID>
    </originatedConnection>
    <callingDevice>
        <deviceIdentifier typeOfNumber="dialingNumber" mediaClass="notKnown" bitRate="constant">725:::
MV80MTQ4Nzg5MjgwQDEwLjEwMC4xMDEuMjY=#ZWNzc0kxNTEwNzk3ODIyMzA2MDQ1MDMxMDIw#MzE3MDY1Nzk5NA==<
/deviceIdentifier>
    </callingDevice>
    <calledDevice>
        <notKnown/>
    </calledDevice>
    <localConnectionInfo>connected</localConnectionInfo>
    <cause>normal</cause>
</OriginatedEvent>
```


13. ConnectionClearedEvent

```
<?xml version="1.0"?>
<ConnectionClearedEvent xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.org
/standards/ecma-323/csta/ed3 connection-cleared-event.xsd">
    <monitorCrossRefID>DMON:f76e9c7a2075e497</monitorCrossRefID>
    <droppedConnection>
        <deviceID typeOfNumber="dialingNumber">722:::
QkE6Zjc2ZTlkNjY3MjBlYjMyZDpmNzZlOWQ3MDE2MWNmM2Q3#ZWNzc08xNTEwNzk3ODIyNDgyMTE2MDExODI3MTE=#MUZtNVFIVWVwVXI
1Yw==</deviceID>
        <callID>f76e9d66720eb32d</callID>
    </droppedConnection>
    <releasingDevice>
        <deviceIdentifier typeOfNumber="dialingNumber" mediaClass="notKnown" bitRate="constant">722:::
QkE6Zjc2ZTlkNjY3MjBlYjMyZDpmNzZlOWQ3MDE2MWNmM2Q3#ZWNzc08xNTEwNzk3ODIyNDgyMTE2MDExODI3MTE=#MUZtNVFIVWVwVXI
1Yw==</deviceIdentifier>
    </releasingDevice>
    <cause>normalClearing</cause>
    <extensions>
        <privateData>
            <string>release_initiator=system;</string>
        </privateData>
    </extensions>
</ConnectionClearedEvent>
```


14. Make out call request XML:


```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<MakeCall xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3">
    <callingDevice typeOfNumber="dialingNumber">725</callingDevice>
    <calledDirectoryNumber typeOfNumber="dialingNumber">722</calledDirectoryNumber>
</MakeCall>
```


15. Make out call response XML:


```
<?xml version="1.0"?>
<MakeCallResponse xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.org
/standards/ecma-323/csta/ed3 make-call.xsd">
    <callingDevice>
        <deviceID typeOfNumber="dialingNumber">725:::
QkE6Zjc2ZjI1NDBlYmU5MGY0NjpmNzZmMjU0MjUwYTAzODll#ZWNzc08xNTEwNzk4NDA1ODI3ODI4MDE2MTE2MTE=#MTEyMzg5MDIxMQ=
=</deviceID>
        <callID>f76f2540ebe90f46</callID>
    </callingDevice>
</MakeCallResponse>
```


16. Hold call request XML:


```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<HoldCall xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3">
    <callToBeHeld>
        <deviceID typeOfNumber="dialingNumber">725:::
QkE6Zjc2ZjI1NDBlYmU5MGY0NjpmNzZmMjU0MjUwYTAzODll#ZWNzc08xNTEwNzk4NDA1ODI3ODI4MDE2MTE2MTE=#MTEyMzg5MDIxMQ=
=</deviceID>
        <callID>f76f2540ebe90f46</callID>
    </callToBeHeld>
    <connectionReservation>false</connectionReservation>
</HoldCall>
```


17. Hold call response XML:

```
<?xml version="1.0"?>
<HoldCallResponse xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.org
/standards/ecma-323/csta/ed3 hold-call.xsd"/>
```

18. UnHold call request XML:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<RetrieveCall xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3">
    <callToBeRetrieved>
        <deviceID typeOfNumber="dialingNumber">725:::
QkE6Zjc2ZjI1NDBlYmU5MGY0NjpmNzZmMjU0MjUwYTAzODll#ZWNzc08xNTEwNzk4NDA1ODI3ODI4MDE2MTE2MTE=#MTEyMzg5MDIxMQ=
=</deviceID>
        <callID>f76f2540ebe90f46</callID>
    </callToBeRetrieved>
</RetrieveCall>>
```

19. UnHold call response XML:

```
<?xml version="1.0"?>
<RetrieveCallResponse xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.org
/standards/ecma-323/csta/ed3 retrieve-call.xsd"/>
```

20. Clear connection request XML:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ClearConnection xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3">
    <connectionToBeCleared>
        <deviceID typeOfNumber="dialingNumber">722:::
QkE6Zjc2ZjUzZDlhODk3NzIyODpmNzZmNTNlM2QzMjVmNGJh#ZWNzc08xNTEwNzk4NjA2MTEwMDUzMDE3NTg2MTE=#MzVhdnllOXJ5MTg
zZQ==</deviceID>
        <callID>f76f53d9a8977228</callID>
    </connectionToBeCleared>
</ClearConnection>
```

21. Clear connection response XML:

```
<?xml version="1.0"?>
<ClearConnectionResponse xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3" xmlns:
xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.org
/standards/ecma-323/csta/ed3 clear-connection.xsd"/>
```

22. Clear call request XML:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ClearCall xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3">
    <callToBeCleared>
        <deviceID typeOfNumber="dialingNumber">722:::
QkE6Zjc2ZjY1OWYzZWMxOGY1NTpmNzZmNjVhOTc2MDhiZjU1#ZWNzc08xNTEwNzk4NjgyNDM5NTg0MDE4MTY0MTE=#akQ2RlM0NURLN3B
2Yw==</deviceID>
        <callID>f76f659f3ec18f55</callID>
    </callToBeCleared>
</ClearCall>
```

23. Clear call response XML:

```
<?xml version="1.0"?>
<ClearCallResponse xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.org
/standards/ecma-323/csta/ed3 clear-call.xsd"/>
```

24. Get calls on device requst XML:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<SnapshotDevice xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3">
    <snapshotObject typeOfNumber="dialingNumber">725</snapshotObject>
</SnapshotDevice>
```

25. Get calls on device response XML:

```
<?xml version="1.0"?>
<SnapshotDeviceResponse xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-international.org
/standards/ecma-323/csta/ed3 snapshot-device.xsd">
    <crossRefIDorSnapshotData>
        <snapshotData>
            <snapshotDeviceResponseInfo>
                <connectionIdentifier>
                    <deviceID typeOfNumber="dialingNumber">725:::
MV8xNDY1Mzg4MjgyQDEwLjEwMC4xMDEuMjY=#ZWNzc0kxNTEwNzk4NzkyMTAwODI5MDMxMDMw#NDAzODU3NTA5OQ==</deviceID>
                    <callID>f76f7f32a8b2112e</callID>
                </connectionIdentifier>
                <localCallState>
                    <compoundCallState>
                        <localConnectionState>alerting</localConnectionState>
                        <localConnectionState>alerting</localConnectionState>
                    </compoundCallState>
                </localCallState>
            </snapshotDeviceResponseInfo>
        </snapshotData>
    </crossRefIDorSnapshotData>
</SnapshotDeviceResponse>
```

26. Answer call request XML:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<AnswerCall xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3">
    <callToBeAnswered>
        <deviceID typeOfNumber="dialingNumber">725:::
QkE6Zjc2Zjk4MDM4NjBjMjZkZjpmNzZmOTgwZTZmMzk4ZDgz#ZWNzc08xNTEwNzk4ODk4ODgzOTA1MDE5NzQ5MTE=#MzEzMjc2MjM0NA=
=</deviceID>
        <callID>f76f9803860c26df</callID>
    </callToBeAnswered>
</AnswerCall>
```

27. Answer call response XML:

```
<?xml version="1.0"?><AnswerCallResponse xmlns="http://www.ecma-international.org/standards/ecma-323/csta
/ed3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.ecma-
international.org/standards/ecma-323/csta/ed3 answer-call.xsd"/>
```

28. Transfer call request XML:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<SingleStepTransferCall xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed3">
    <activeCall>
        <deviceID typeOfNumber="dialingNumber">725:::
QkE6Zjc2ZmI2ZDRhNjViNzE0NzpmNzZmYjZkNjZmNjY2YTRi#ZWNzc08xNTEwNzk5MDMxMDgyOTg4MDIwNzYzMTE=#MzUyODQwMTIyNg=
=</deviceID>
        <callID>f76fb6d4a65b7147</callID>
    </activeCall>
    <transferredTo typeOfNumber="dialingNumber">723</transferredTo>
</SingleStepTransferCall>
```


29. Transfer call response XML:


```
<?xml version="1.0"?> <SingleStepTransferCallResponse xmlns="http://www.ecma-international.org/standards
/ecma-323/csta/ed3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.
ecma-international.org/standards/ecma-323/csta/ed3 single-step-transfer.xsd"> <transferredCall>
<deviceID typeOfNumber="dialingNumber">723:::
QkE6Zjc2ZmI2ZDRhNjViNzE0NzpmNzZmYjc4ODI4MGU1MmY2#ZWNzc08xNTEwNzk5MDM0MDY4MDEyMDIwNzk4MTE=#S3JIVWMzY0tRYVp
VRA==</deviceID> <callID>f76fb6d4a65b7147</callID> </transferredCall> </SingleStepTransferCallResponse>
```