

Mapping Configuration

VDS-II

SIP-active

CONET

Version 2012

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1 Document History

Version	Date	Name	Changes
1.0	2017-06-19	AF	Initial draft
2012	2020-12-17	PE	VC Adaptation

2 General

2.1 Purpose

This document describes the different possibilities to receive the Radio calls through SIP

2.2 Acronyms and Abbreviations

RD	Call Related Data
METADATA	Call Related Data
RTP	Real-time Transport Protocol (RFC3550)
VDS	VoIP Decoding System (ATIS)

3 Introduction

This document described the mapping functionality of the VDS.

The mapping is used to assign some incoming field values to specific fields in the main recorder database.

4 Incoming data

Any VDS can map any incoming field value to a set of pre-determined recorder database field (see VDS-II advanced configuration document for more information).

The SIP active VDS map all SIP **headers** and **parameters** into a list of properties (key/value pairs) The example below is a SIP INVITE (sdp was removed for clarity)

```
INVITE sip:service@172.16.240.91:5060 SIP/2.0
Via: SIP/2.0/UDP 172.16.240.100:5060;branch=z9hG4bK-3136-1-0
From: "sipp" <sip:sipp@172.16.240.100:5060>;tag=1
To: "sut" <sip:service@172.16.240.91:5060>
Call-ID: 1-3136@172.16.240.100
CSeq: 1 INVITE
Contact: <sip:sipp@172.16.240.100:5060>
Max-Forwards: 70
Subject: VDS-II Test
Content-Type: application/sdp
```

The following properties are extracted (headers +parameters)

```
Call-ID=1-3136@172.16.240.100,
Subject=VDS-II Test
From="sipp" <sip:sipp@172.16.240.100:5060>;tag=1
Contact=<sip:sipp@172.16.240.100:5060>
Max-Forwards=70
Content-Length=139
Request-Line=sip:service@172.16.240.91:5060
CSeq=1 INVITE
branch=z9hG4bK-3136-1-0
Content-Type=application/sdp
Via=SIP/2.0/UDP 172.16.240.100:5060;branch=z9hG4bK-3136-1-0
To="sut" <sip:service@172.16.240.91:5060>
tag=1
```

By using the mapping functionality it is possible to assign for example the subject header to the short comment field of the database by setting this rule in the crd-configuration.xml file.

```
<XmlMapping incomingFieldName="Subject" vepFieldName="shortComment" />
```

The field short comment will contain: VDS-II Test

The Vds-Sip-Active-CONET will transform any xml or json received data in a series of properties which will be added to the one extracted from the SIP signalization.

For example the attached xml data:

```
<?xml version='1.0' encoding='UTF-8'?>
<presence xmlns:ca="urn:ietf:params:xml:ns:pidf:geopriv10:civicAddr"
xmlns:cell="urn:ietf:params:xml:ns:geopriv:lm:cell"
xmlns:gml="http://www.opengis.net/gml" xmlns:gp="urn:ietf:params:xml:ns:pidf:geopriv10"
xmlns:gs="http://www.opengis.net/pidflo/1.0"
xmlns="urn:ietf:params:xml:ns:pidf"
entity="pres:1b1097c39a0844cf812e88def4783845932c8a05@192.168.254.137">
  <tuple id="as381eb1d02f114e1df3a455624f27faae12a5dda03490b6febbad3ecffe23303a">
    <status>
      <gp:geopriv>
        <gp:location-info>
          <ca:civicAddress>
            <ca:A6>Adenauerallee</ca:A6>
            <ca:HNO>73</ca:HNO>
            <ca:PC>53113</ca:PC>
          </ca:civicAddress>
        </gp:location-info>
        <gp:usage-rules/>
      </gp:geopriv>
    </status>
    <timestamp>2016-10-13T10:37:59Z</timestamp>
  </tuple>
</presence>
```

Will be extracted into a list of properties

```

presence.xmlns:gp =urn:ietf:params:xml:ns:pidf:geopriv10
presence.xmlns:ca =urn:ietf:params:xml:ns:pidf:geopriv10:civicAddr
presence.tuple.timestamp=2016-10-13T10:37:59Z
presence.tuple.status.gp:geopriv.gp:location-info.ca:civicAddress.ca:A6=Adenauerallee
presence.tuple.id=as381eb1d02f114e1df3a455624f27faae12a5dda03490b6febbad3ecffe23303a
presence.tuple.status.gp:geopriv.gp:location-info.ca:civicAddress.ca:PC=53113
presence.xmlns:cell=urn:ietf:params:xml:ns:geopriv:lm:cell
presence.entity=pres:1b1097c39a0844cf812e88def4783845932c8a05@192.168.254.137
presence.xmlns:gml=http://www.opengis.net/gml
presence.tuple.status.gp:geopriv.gp:location-info.ca:civicAddress.ca:HNO=73
presence.xmlns:gs=http://www.opengis.net/pidflo/1.0
presence.xmlns=urn:ietf:params:xml:ns:pidf
presence.tuple.status.gp:geopriv.gp:usage-rules=

```

There is no cleaning of namespace so the names could be quite long for now.

If you want to put the postal code (PC) into the short comment field of the database.

```

<XmlMapping incomingFieldName=" presence.tuple.status.gp:geopriv.gp:locationinfo.ca:civicAddress.ca:PC"
vepFieldName="shortComment" />

```

The **exact** complete name of the variable need to be set into the incomingFieldName

As described in the document VDS-II advanced configuration, it is possible to put multiple field names for priority and/or concatenate several incoming fields

Here a short example using the above presence properties

```

<XmlMapping incomingFieldName="
presence.tuple.status.gp:geopriv.gp:locationinfo.ca:civicAddress.ca:A6+','+
presence.tuple.status.gp:geopriv.gp:locationinfo.ca:civicAddress.ca:HNO+' Postal code:'+
presence.tuple.status.gp:geopriv.gp:locationinfo.ca:civicAddress.ca:PC " vepFieldName="shortComment"
/>

```

The field shortComment will display
Adenauerallee,73 Postal code: 53113

This mapping configuration can be modified on the fly it will be effective on the next data received.

To find out what fields are extracted and their syntax please setup the file output mode to DEBUG in the log4j.properties file

log4j.appender.rollingfile.Threshold=DEBUG

and check the vds log file (takes up to 30 second to be effective).

```
[2017-07-04 11:05:37,884 (DEBUG) vds.protocol.sip@172.16.240.91:5060-UDPMessageChannelThread-4]
(ConetSipSessionByRtp.java:431) - Properties
{ecvg-xenial-hw-test.variables.TRANSFERCAPABILITY=SPEECH,
ecvg-xenial-hw-test.uui.geo_description=0,
ecvg-xenial-hw-test.variables.AGISTATUS=SUCCESS,
ecvg-xenial-hw-test.ecall.DNIS=1001,
ecvg-xenial-hw-test.uui.valid=true,
ecvg-xenial-hw-test.variables.CALLEDTON=0,
ecvg-xenial-hw-test.variables.DIALEDTIME=307,
ecvg-xenial-hw-test.variables.DIALSTATUS=ANSWER,
ecvg-xenial-hw-test.variables.RTPAUDIOQOSRTTBRIDGED=minrtt=0.000000;maxrtt=0.000000;avgrtt=0.000000;stdevrtt=0.000000;,
ecvg-xenial-hw-test.variables.ANSWEREDTIME=306,
ecvg-xenial-hw-test.variables.SIP_OUR_TAG=e66cc939d1604d5d581a4402001a5ce384e43217,
ecvg-xenial-hw-test.variables.BRIDGEPEER=,
ecvg-xenial-hw-test.ecall.CAUSE=,
ecvg-xenial-hw-test.ecall.msdcalled=0,
ecvg-xenial-hw-test.channel_state=0,
ecvg-xenial-hw-test.uui.location.lon=-2.1457672119140625E-5,
ecvg-xenial-hw-test.variables.PRIREDIRECTREASON=UNKNOWN,
ecvg-xenial-hw-test.variables.DIALEDPEERNUMBER=1001@ecall,
ecvg-xenial-hw-test.channel=DAHDI/i1/90909870-24,
ecvg-xenial-hw-test.ecall.msdcalled=0,
ecvg-xenial-hw-test.variables.ECVG_IS_ECALL=1,
ecvg-xenial-hw-test.ecall.status=0,
ecvg-xenial-hw-test.hangup_time=1.4787774541331925E9,
ecvg-xenial-hw-test.variables.NOTIFY_UCRS_CALL=1,
ecvg-xenial-hw-test.variables.ECVG_DST_NUMBER=2280010111,
....
```

This list could be quite long

***** End of Document*****