

Querying RRD MAs

Background

This page shows how to query rrd ma's that exist out there.

An rrd ma is a perfsonar web service that allows us to determine the utilisation and capacity of a network link. Querying such services will enable network users and engineers to determine quickly the state of the network.

List of RRD MA's

```
GEANT2,http://stats.geant2.net/perfsonar/RRDMA-access/MeasurementArchiveService,NMWG2v2_netutil,"",utilization,
utilization
;GEANT2,http://mu.dante.org.uk:8092/perfSONAR-SQL-MA-1.0-RC6/services/MeasurementArchiveService,http://schemas.
perfsonar.net/2.0,"",http://ggf.org/ns/nmwg/characteristic/utilization/2.0,http://ggf.org/ns/nmwg/characteristic
/utilization/2.0
;GEANT2,http://mu.dante.org.uk:8092/perfSONAR-RRD-MA-2.0-RC8/services/MeasurementArchiveService,http://schemas.
perfsonar.net/2.0,"",http://ggf.org/ns/nmwg/characteristic/utilization/2.0,http://ggf.org/ns/nmwg/characteristic
/utilization/2.0
;CARNet,http://noc-mon.srce.hr:8090,NMWG2v2_netutil,"",utilization,utilization
;Cesnet,http://perfmonc.cesnet.cz:8080/axis/services/MeasurementArchiveService,NMWG2v2_netutil,"",utilization,
utilization
GARR,http://srv4.dir.garr.it:8080/axis/services/MeasurementArchiveService,NMWG2v2_netutil,"",utilization,
utilization
GRNET,http://gridmachine.admin.grnet.gr:8080/axis/services/MeasurementArchiveService,NMWG2v2_netutil,"",
utilization,utilization
ISTF-J,http://selena.acad.bg:8080/axis/services/MeasurementArchiveService,NMWG2v2_netutil,"",utilization,
utilization
;ISTF-P,http://selena.acad.bg:8090,NMWG2v2_netutil,"",utilization,utilization
MREN,http://perfsonar.cg.ac.yu:8080/axis/services/MeasurementArchiveService,NMWG2v2_netutil,"",utilization,
utilization
PIONIER-RRD,http://loco4.man.poznan.pl:8080/axis/services/MeasurementArchiveService,NMWG2v2_netutil,PIONIER-
Public,utilization,utilization
;PIONIER-SQL,http://loco4.man.poznan.pl:8100/axis/services/MeasurementArchiveService,NMWG2v2_netutil,PIONIER-
Public,utilization,utilization
;RENATER,http://supervision-ipv6.renater.fr:8080/axis/services/MeasurementArchiveService,NMWG2v2_netutil,"",
utilization,utilization
SEEREN,http://admin.seeren.org:8080/axis/services/MeasurementArchiveService,NMWG2v2_netutil,"",utilization,
utilization
SURFnet,http://sonar1.amsterdam.surfnet.nl:8080/axis/services/MeasurementArchiveService,NMWG2v2_netutil,"",
utilization,utilization
SWITCH,http://archive.sonar.net.switch.ch:8180/axis/services/MeasurementArchiveService,NMWG2v2_netutil,"",
utilization,utilization
;Uninett,http://mi6.uninett.no:8090,NMWG2v2_netutil,UNINETT-uninett,ifInOctets,ifOutOctets
ESnet,http://meal.es.net:8080/axis/services/MeasurementArchiveService,NMWG2v2_netutil,"",utilization,utilization
;Fermilab,http://lhccopnmon1-mgm.fnal.gov:8080/axis/services/MeasurementArchiveService,NMWG2v2_netutil,"",
utilization,utilization
RedCLARA,http://server2-saopaulo.lan.redclara.net:8085/perfsonar-RRDMA/services/MeasurementArchiveService,
NMWG2v2_netutil,"",utilization,utilization
RNP,http://rnp-rrd-ma.gt-med.ufsc.br:8080/axis/services/MeasurementArchiveService,NMWG2v2_netutil,"",
utilization,utilization
GEANT,http://gandalf.rrze.uni-erlangen.de:8090/gandalf/Hades/perfSONAR/MA,ippm,,ippm_aggregated,ippm_aggregated
;RIPE,http://gandalf.rrze.uni-erlangen.de:8090/gandalf/Hades/perfSONAR/MA,ippm,,ripe,ripe
;GEANT-test,http://gandalf.rrze.uni-erlangen.de:6040/services/MA/HADES/GEANT,ippm,,ippm_aggregated,
ippm_aggregated
```

Request

The request is a simple xml file which should be sent to the MA endpoint:

```

<?xml version='1.0' encoding='UTF-8'?>
<nmwg:message id="#message1"
    type="SetupDataRequest"
    xmlns:netutil="http://ggf.org/ns/nmwg/characteristic/utilization/2.0/"
    xmlns:topo="http://ggf.org/ns/nmwg/topology/2.0/"
    xmlns:nmwg="http://ggf.org/ns/nmwg/base/2.0/">

<nmwg:metadata id="#meta1">

    <netutil:subject id="#netutil1">
        <topo:interface>
            <topo:ifAddress type="ipv4">134.55.209.93</topo:ifAddress>
        </topo:interface>
    </netutil:subject>

    <nmwg:eventType>utilization</nmwg:eventType>

</nmwg:metadata>

<nmwg:data id="data1" metadataIdRef="#meta1"/>

</nmwg:message>

```

```

[~/Work/perfSONAR/perfSONAR-PS/trunk/perfSONAR-PS/client]$ ./client.pl \
    http://meal.es.net:8080/axis/services/MeasurementArchiveService \
    ~/Work/perfSONAR/rrdma/request.xml | tidy -xml -i -w 134 2>/dev/null

```

client.pl is a simple perl client that send/receives xml soap messages.

This results in the following output (note two <data> elements, one for in and one for out).

```

<nmwg:message xmlns:nmwg="http://ggf.org/ns/nmwg/base/2.0/" id="localhost.-9157eb7:111905a8f49:-25c3">
    <nmwg:metadata id="meta171">
        <netutil:subject xmlns:netutil="http://ggf.org/ns/nmwg/characteristic/utilization/2.0/" id="subj171">
            <nmwgt:interface xmlns:nmwgt="http://ggf.org/ns/nmwg/topology/2.0/">
                <nmwgt:hostName>slac-mrl.es.net</nmwgt:hostName>
                <nmwgt:ifName>GigabitEthernet4/4</nmwgt:ifName>
                <nmwgt:ifDescription>slac-rt4:ge::show:na</nmwgt:ifDescription>
                <nmwgt:ifAddress type="ipv4">134.55.209.93</nmwgt:ifAddress>
                <nmwgt:direction>in</nmwgt:direction>
                <nmwgt:authRealm>ESnet-Public</nmwgt:authRealm>
                <nmwgt:capacity>1000000000</nmwgt:capacity>
            </nmwgt:interface>
        </netutil:subject>
        <nmwg:eventType>utilization</nmwg:eventType>
    </nmwg:metadata>
    <nmwg:metadata id="meta172">
        <netutil:subject xmlns:netutil="http://ggf.org/ns/nmwg/characteristic/utilization/2.0/" id="subj172">
            <nmwgt:interface xmlns:nmwgt="http://ggf.org/ns/nmwg/topology/2.0/">
                <nmwgt:hostName>slac-mrl.es.net</nmwgt:hostName>
                <nmwgt:ifName>GigabitEthernet4/4</nmwgt:ifName>
                <nmwgt:ifDescription>slac-rt4:ge::show:na</nmwgt:ifDescription>
                <nmwgt:ifAddress type="ipv4">134.55.209.93</nmwgt:ifAddress>
                <nmwgt:direction>out</nmwgt:direction>
                <nmwgt:authRealm>ESnet-Public</nmwgt:authRealm>
                <nmwgt:capacity>1000000000</nmwgt:capacity>
            </nmwgt:interface>
        </netutil:subject>
        <nmwg:eventType>utilization</nmwg:eventType>
    </nmwg:metadata>
    <nmwg:data id="localhost.-9157eb7:111905a8f49:-25c4" metadataIdRef="meta171">
        <nmwg:datum timeValue="1174863300" value="1759022.737222221" />
        <nmwg:datum timeValue="1174863600" value="1614806.384111113" />
        <nmwg:datum timeValue="1174863900" value="1500883.592111112" />
    </nmwg:data>
</nmwg:message>

```

```
<nmg:datum timeValue="1174864200" value="1920751.817777778" />
<nmg:datum timeValue="1174864500" value="1882111.374444444" />
<nmg:datum timeValue="1174864800" value="4427758.876333334" />
<nmg:datum timeValue="1174865100" value="9519390.92111111" />
<nmg:datum timeValue="1174865400" value="1.1109840154410545E7" />
<nmg:datum timeValue="1174865700" value="3140960.1018116763" />
<nmg:datum timeValue="1174866000" value="5321157.595333333" />
<nmg:datum timeValue="1174866300" value="5219054.435666667" />
<nmg:datum timeValue="1174866600" value="1.1927795802894538E7" />
<nmg:datum timeValue="1174866900" value="7600295.535593221" />
<nmg:datum timeValue="1174867200" value="6157036.712803429" />
<nmg:datum timeValue="1174867500" value="6921847.025431034" />
<nmg:datum timeValue="1174867800" value="4697009.382166667" />
<nmg:datum timeValue="1174868100" value="2455291.037666667" />
<nmg:datum timeValue="1174868400" value="4198680.903777778" />
<nmg:datum timeValue="1174868700" value="5941018.279905839" />
<nmg:datum timeValue="1174869000" value="2131844.860983051" />
<nmg:datum timeValue="1174869300" value="3524399.056833333" />
<nmg:datum timeValue="1174869600" value="3681140.2234784947" />
<nmg:datum timeValue="1174869900" value="1698543.1345215053" />
<nmg:datum timeValue="1174870200" value="2880573.515166667" />
<nmg:datum timeValue="1174870500" value="4617496.9465" />
<nmg:datum timeValue="1174870800" value="2687458.475166663" />
<nmg:datum timeValue="1174871100" value="1330440.345333334" />
<nmg:datum timeValue="1174871400" value="1301517.124999998" />
<nmg:datum timeValue="1174871700" value="1271344.137" />
<nmg:datum timeValue="1174872000" value="2555753.439166665" />
<nmg:datum timeValue="1174872300" value="9258451.04716666" />
<nmg:datum timeValue="1174872600" value="1.810699602622599E7" />
<nmg:datum timeValue="1174872900" value="1.2845922866440678E7" />
<nmg:datum timeValue="1174873200" value="1.5173685629166666E7" />
<nmg:datum timeValue="1174873500" value="7594569.1997598875" />
<nmg:datum timeValue="1174873800" value="6896870.374573445" />
<nmg:datum timeValue="1174874100" value="3257798.256666667" />
<nmg:datum timeValue="1174874400" value="1536013.029833333" />
<nmg:datum timeValue="1174874700" value="1442625.490166667" />
<nmg:datum timeValue="1174875000" value="1453703.555" />
<nmg:datum timeValue="1174875300" value="1794645.248333335" />
<nmg:datum timeValue="1174875600" value="3916966.341666663" />
<nmg:datum timeValue="1174875900" value="4719373.464833332" />
<nmg:datum timeValue="1174876200" value="1299303.6289617487" />
<nmg:datum timeValue="1174876500" value="1679772.9497049183" />
<nmg:datum timeValue="1174876800" value="1652046.066888888" />
<nmg:datum timeValue="1174877100" value="1410249.559555555" />
<nmg:datum timeValue="1174877400" value="4490249.666666667" />
<nmg:datum timeValue="1174877700" value="3320941.972388887" />
<nmg:datum timeValue="1174878000" value="1341252.820555556" />
<nmg:datum timeValue="1174878300" value="1342045.15722222" />
<nmg:datum timeValue="1174878600" value="1466340.594444444" />
<nmg:datum timeValue="1174878900" value="1403870.100833333" />
<nmg:datum timeValue="1174879200" value="7095775.084166666" />
<nmg:datum timeValue="1174879500" value="4523869.863888889" />
<nmg:datum timeValue="1174879800" value="4077862.542500004" />
<nmg:datum timeValue="1174880100" value="1770199.267222224" />
<nmg:datum timeValue="1174880400" value="1745360.853055554" />
<nmg:datum timeValue="1174880700" value="1.2152607891067252E7" />
<nmg:datum timeValue="1174881000" value="3.587774947115497E7" />
<nmg:datum timeValue="1174881300" value="3.2875898348888885E7" />
<nmg:datum timeValue="1174881600" value="3.35664689338388E7" />
<nmg:datum timeValue="1174881900" value="3.248653393727702E7" />
<nmg:datum timeValue="1174882200" value="3.297484725321752E7" />
<nmg:datum timeValue="1174882500" value="3.331935705446106E7" />
<nmg:datum timeValue="1174882800" value="3.357271055592279E7" />
<nmg:datum timeValue="1174883100" value="3.188383313108466E7" />
<nmg:datum timeValue="1174883400" value="3.391921791363756E7" />
<nmg:datum timeValue="1174883700" value="3.324407341538889E7" />
<nmg:datum timeValue="1174884000" value="3.152105185377774E7" />
<nmg:datum timeValue="1174884300" value="3.631797897824373E7" />
<nmg:datum timeValue="1174884600" value="3.2578431448645163E7" />
<nmg:datum timeValue="1174884900" value="3.1151094861277778E7" />
<nmg:datum timeValue="1174885200" value="3.1518358407614876E7" />
```

```
<nmg:datum timeValue="1174885500" value="3.0846890632994346E7" />
<nmg:datum timeValue="1174885800" value="3.168283409505744E7" />
<nmg:datum timeValue="1174886100" value="3.1974404321500003E7" />
<nmg:datum timeValue="1174886400" value="3.0933467804500002E7" />
<nmg:datum timeValue="1174886700" value="3.1710386221277773E7" />
<nmg:datum timeValue="1174887000" value="2.684306552511113E7" />
<nmg:datum timeValue="1174887300" value="2.554237983977778E7" />
<nmg:datum timeValue="1174887600" value="2.8513414897352166E7" />
<nmg:datum timeValue="1174887900" value="3.167984896020339E7" />
<nmg:datum timeValue="1174888200" value="3.0277033076067798E7" />
<nmg:datum timeValue="1174888500" value="3.067359108393221E7" />
<nmg:datum timeValue="1174888800" value="3.341931860022222E7" />
<nmg:datum timeValue="1174889100" value="2.8813918424892534E7" />
<nmg:datum timeValue="1174889400" value="2.152881348088525E7" />
<nmg:datum timeValue="1174889700" value="2.1836253122666664E7" />
<nmg:datum timeValue="1174890000" value="1.3229027359180328E7" />
<nmg:datum timeValue="1174890300" value="1.1803519756319672E7" />
<nmg:datum timeValue="1174890600" value="1.2033845182333333E7" />
<nmg:datum timeValue="1174890900" value="1.30024129495E7" />
<nmg:datum timeValue="1174891200" value="1.0287968785500001E7" />
<nmg:datum timeValue="1174891500" value="9206967.436055556" />
<nmg:datum timeValue="1174891800" value="1.381493337222222E7" />
<nmg:datum timeValue="1174892100" value="7558849.393333333" />
<nmg:datum timeValue="1174892400" value="9543458.247222222" />
<nmg:datum timeValue="1174892700" value="6443730.033333333" />
<nmg:datum timeValue="1174893000" value="1707798.271666665" />
<nmg:datum timeValue="1174893300" value="1629078.197777778" />
<nmg:datum timeValue="1174893600" value="1.1704302213533696E7" />
<nmg:datum timeValue="1174893900" value="9554217.806466302" />
<nmg:datum timeValue="1174894200" value="7401859.277777778" />
<nmg:datum timeValue="1174894500" value="1.4810953054444443E7" />
<nmg:datum timeValue="1174894800" value="9033023.583055556" />
<nmg:datum timeValue="1174895100" value="1.606296312061111E7" />
<nmg:datum timeValue="1174895400" value="8051880.323056499" />
<nmg:datum timeValue="1174895700" value="1462240.0103323916" />
<nmg:datum timeValue="1174896000" value="1918680.9182449908" />
<nmg:datum timeValue="1174896300" value="1814107.9958469947" />
<nmg:datum timeValue="1174896600" value="1687025.5179922439" />
<nmg:datum timeValue="1174896900" value="1207036.1208602153" />
<nmg:datum timeValue="1174897200" value="1929930.4519444443" />
<nmg:datum timeValue="1174897500" value="9946896.076611113" />
<nmg:datum timeValue="1174897800" value="1396408.823111113" />
<nmg:datum timeValue="1174898100" value="1488357.6031666663" />
<nmg:datum timeValue="1174898400" value="1172974.2652777776" />
<nmg:datum timeValue="1174898700" value="1195109.861" />
<nmg:datum timeValue="1174899000" value="2098003.7508333335" />
<nmg:datum timeValue="1174899300" value="9508098.824555557" />
<nmg:datum timeValue="1174899600" value="1793353.0399444446" />
<nmg:datum timeValue="1174899900" value="1224065.5258333334" />
<nmg:datum timeValue="1174900200" value="1329332.6747714025" />
<nmg:datum timeValue="1174900500" value="1053969.7271174863" />
<nmg:datum timeValue="1174900800" value="1245381.431878531" />
<nmg:datum timeValue="1174901100" value="1320454.0379548022" />
<nmg:datum timeValue="1174901400" value="1098525.025388889" />
<nmg:datum timeValue="1174901700" value="1157771.277222222" />
<nmg:datum timeValue="1174902000" value="1166602.8939444446" />
<nmg:datum timeValue="1174902300" value="1244808.9406666667" />
<nmg:datum timeValue="1174902600" value="1451058.304888889" />
<nmg:datum timeValue="1174902900" value="1693307.7536666666" />
<nmg:datum timeValue="1174903200" value="1443985.5295555554" />
<nmg:datum timeValue="1174903500" value="1177245.8746666666" />
<nmg:datum timeValue="1174903800" value="1321996.1784858757" />
<nmg:datum timeValue="1174904100" value="2242776.09106968" />
<nmg:datum timeValue="1174904400" value="3439859.354777778" />
<nmg:datum timeValue="1174904700" value="3853592.8376666666" />
<nmg:datum timeValue="1174905000" value="1587102.0556666667" />
<nmg:datum timeValue="1174905300" value="1344146.011888889" />
<nmg:datum timeValue="1174905600" value="1126727.1866666668" />
<nmg:datum timeValue="1174905900" value="1376376.9330000002" />
<nmg:datum timeValue="1174906200" value="1347241.459" />
<nmg:datum timeValue="1174906500" value="1547124.2891111108" />
```

```
<nmg:datum timeValue="1174906800" value="1615543.315661202" />
<nmg:datum timeValue="1174907100" value="1880798.5903387978" />
<nmg:datum timeValue="1174907400" value="1571541.9005555557" />
<nmg:datum timeValue="1174907700" value="2193566.187777778" />
<nmg:datum timeValue="1174908000" value="2204326.3667777777" />
<nmg:datum timeValue="1174908300" value="9491878.95411111" />
<nmg:datum timeValue="1174908600" value="3731244.553333333" />
<nmg:datum timeValue="1174908900" value="1572092.1846666667" />
<nmg:datum timeValue="1174909200" value="1725977.908222222" />
<nmg:datum timeValue="1174909500" value="1898572.3075555556" />
<nmg:datum timeValue="1174909800" value="1787382.324111111" />
<nmg:datum timeValue="1174910100" value="1775517.7078544057" />
<nmg:datum timeValue="1174910400" value="1998591.9551455942" />
<nmg:datum timeValue="1174910700" value="1902687.632888889" />
<nmg:datum timeValue="1174911000" value="1989621.2449999999" />
<nmg:datum timeValue="1174911300" value="2189670.0752316387" />
<nmg:datum timeValue="1174911600" value="5888656.918601695" />
<nmg:datum timeValue="1174911900" value="1.54780870425E7" />
<nmg:datum timeValue="1174912200" value="1.711978653833334E7" />
<nmg:datum timeValue="1174912500" value="1.916079926344086E7" />
<nmg:datum timeValue="1174912800" value="1.4582952699892472E7" />
<nmg:datum timeValue="1174913100" value="1.5956030624745762E7" />
<nmg:datum timeValue="1174913400" value="1.8448734185706217E7" />
<nmg:datum timeValue="1174913700" value="2.202352061790868E7" />
<nmg:datum timeValue="1174914000" value="1.832122736580601E7" />
<nmg:datum timeValue="1174914300" value="1.81442737725E7" />
<nmg:datum timeValue="1174914600" value="1.21430784825E7" />
<nmg:datum timeValue="1174914900" value="1.3740829380778689E7" />
<nmg:datum timeValue="1174915200" value="2.77587900028795E7" />
<nmg:datum timeValue="1174915500" value="1.6483471798022598E7" />
<nmg:datum timeValue="1174915800" value="1.7269574829985876E7" />
<nmg:datum timeValue="1174916100" value="1.2016903125833334E7" />
<nmg:datum timeValue="1174916400" value="1.845393261166667E7" />
<nmg:datum timeValue="1174916700" value="2.138545120416667E7" />
<nmg:datum timeValue="1174917000" value="1.8970847749166667E7" />
<nmg:datum timeValue="1174917300" value="2.2032790831666667E7" />
<nmg:datum timeValue="1174917600" value="1.834625932666668E7" />
<nmg:datum timeValue="1174917900" value="1.460052702083334E7" />
<nmg:datum timeValue="1174918200" value="1.1930437491666665E7" />
<nmg:datum timeValue="1174918500" value="1.2358935837499999E7" />
<nmg:datum timeValue="1174918800" value="9882576.545027321" />
<nmg:datum timeValue="1174919100" value="1.39636606672131E7" />
<nmg:datum timeValue="1174919400" value="2.0398273961530052E7" />
<nmg:datum timeValue="1174919700" value="2.292260889649909E7" />
<nmg:datum timeValue="1174920000" value="2.7536429350444447E7" />
<nmg:datum timeValue="1174920300" value="2.585897759711111E7" />
<nmg:datum timeValue="1174920600" value="2.204730277022222E7" />
<nmg:datum timeValue="1174920900" value="1.867949261377778E7" />
<nmg:datum timeValue="1174921200" value="1.740566285333333E7" />
<nmg:datum timeValue="1174921500" value="1.909815288222224E7" />
<nmg:datum timeValue="1174921800" value="3.285377147555558E7" />
<nmg:datum timeValue="1174922100" value="2.3576572954E7" />
<nmg:datum timeValue="1174922400" value="3.749854435833334E7" />
<nmg:datum timeValue="1174922700" value="3.551464430922223E7" />
<nmg:datum timeValue="1174923000" value="3.1775727733166665E7" />
<nmg:datum timeValue="1174923300" value="3.0900023602888893E7" />
<nmg:datum timeValue="1174923600" value="2.3286393123687137E7" />
<nmg:datum timeValue="1174923900" value="1.2831263732812867E7" />
<nmg:datum timeValue="1174924200" value="2.611102815433334E7" />
<nmg:datum timeValue="1174924500" value="1.009195029983331E7" />
<nmg:datum timeValue="1174924800" value="1.2001768694277778E7" />
<nmg:datum timeValue="1174925100" value="2.691857387444447E7" />
<nmg:datum timeValue="1174925400" value="5.113021017677778E7" />
<nmg:datum timeValue="1174925700" value="4.812734475477774E7" />
<nmg:datum timeValue="1174926000" value="5.943403360968965E7" />
<nmg:datum timeValue="1174926300" value="5.850660710664368E7" />
<nmg:datum timeValue="1174926600" value="5.91526884844445E7" />
<nmg:datum timeValue="1174926900" value="6.430374064855554E7" />
<nmg:datum timeValue="1174927200" value="5.516267277278532E7" />
<nmg:datum timeValue="1174927500" value="5.2281857650103584E7" />
<nmg:datum timeValue="1174927800" value="6.660462285911115E7" />
```

```
<nmg:datum timeValue="1174928100" value="6.914811596166667E7" />
<nmg:datum timeValue="1174928400" value="5.361073647075706E7" />
<nmg:datum timeValue="1174928700" value="5.53030370849096E7" />
<nmg:datum timeValue="1174929000" value="4.831149627833333E7" />
<nmg:datum timeValue="1174929300" value="5.079932407833333E7" />
<nmg:datum timeValue="1174929600" value="6.041366403077779E7" />
<nmg:datum timeValue="1174929900" value="6.035523418255556E7" />
<nmg:datum timeValue="1174930200" value="5.202589034566666E7" />
<nmg:datum timeValue="1174930500" value="6.0805322983833335E7" />
<nmg:datum timeValue="1174930800" value="5.737282900962903E7" />
<nmg:datum timeValue="1174931100" value="5.5740031019259855E7" />
<nmg:datum timeValue="1174931400" value="5.445795075570401E7" />
<nmg:datum timeValue="1174931700" value="6.0442660007851556E7" />
<nmg:datum timeValue="1174932000" value="6.823050977083698E7" />
<nmg:datum timeValue="1174932300" value="6.535385849066303E7" />
<nmg:datum timeValue="1174932600" value="6.164798231994444E7" />
<nmg:datum timeValue="1174932900" value="5.468251382666667E7" />
<nmg:datum timeValue="1174933200" value="6.485219647627778E7" />
<nmg:datum timeValue="1174933500" value="6.82854676711111E7" />
<nmg:datum timeValue="1174933800" value="6.849832703333335E7" />
<nmg:datum timeValue="1174934100" value="5.859220627888888E7" />
<nmg:datum timeValue="1174934400" value="6.514268549111115E7" />
<nmg:datum timeValue="1174934700" value="7.013783659532957E7" />
<nmg:datum timeValue="1174935000" value="6.417956774943503E7" />
<nmg:datum timeValue="1174935300" value="6.855395066152543E7" />
<nmg:datum timeValue="1174935600" value="7.083529015259887E7" />
<nmg:datum timeValue="1174935900" value="6.825349465666667E7" />
<nmg:datum timeValue="1174936200" value="8.079998561888888E7" />
<nmg:datum timeValue="1174936500" value="8.367711156444445E7" />
<nmg:datum timeValue="1174936800" value="8.221328256483333E7" />
<nmg:datum timeValue="1174937100" value="9.15166217605E7" />
<nmg:datum timeValue="1174937400" value="9.3714669204E7" />
<nmg:datum timeValue="1174937700" value="8.129000581283334E7" />
<nmg:datum timeValue="1174938000" value="8.279351722133334E7" />
<nmg:datum timeValue="1174938300" value="7.805834081166668E7" />
<nmg:datum timeValue="1174938600" value="6.621299802033335E7" />
<nmg:datum timeValue="1174938900" value="6.979469565066667E7" />
<nmg:datum timeValue="1174939200" value="6.5371237081999995E7" />
<nmg:datum timeValue="1174939500" value="5.978404610216667E7" />
<nmg:datum timeValue="1174939800" value="6.833271972083333E7" />
<nmg:datum timeValue="1174940100" value="5.274391984713934E7" />
<nmg:datum timeValue="1174940400" value="6.747628656508383E7" />
<nmg:datum timeValue="1174940700" value="6.104533885605462E7" />
<nmg:datum timeValue="1174941000" value="5.5289963048944436E7" />
<nmg:datum timeValue="1174941300" value="5.723609573338888E7" />
<nmg:datum timeValue="1174941600" value="2.8459450763444446E7" />
<nmg:datum timeValue="1174941900" value="2.867757042238012E7" />
<nmg:datum timeValue="1174942200" value="4.096145254706433E7" />
<nmg:datum timeValue="1174942500" value="3.549618725533334E7" />
<nmg:datum timeValue="1174942800" value="3.875230562133334E7" />
<nmg:datum timeValue="1174943100" value="4.175133157533335E7" />
<nmg:datum timeValue="1174943400" value="4.470199735333333E7" />
<nmg:datum timeValue="1174943700" value="3.7637456651977405E7" />
<nmg:datum timeValue="1174944000" value="3.689619749423729E7" />
<nmg:datum timeValue="1174944300" value="6.600049718389829E7" />
<nmg:datum timeValue="1174944600" value="7.176502302788702E7" />
<nmg:datum timeValue="1174944900" value="4.700398978338889E7" />
<nmg:datum timeValue="1174945200" value="4.970117715166666E7" />
<nmg:datum timeValue="1174945500" value="4.172469924984767E7" />
<nmg:datum timeValue="1174945800" value="4.551085820737455E7" />
<nmg:datum timeValue="1174946100" value="4.917398922805555E7" />
<nmg:datum timeValue="1174946400" value="4.851107874916667E7" />
<nmg:datum timeValue="1174946700" value="5.845202694271858E7" />
<nmg:datum timeValue="1174947000" value="4.990773051117031E7" />
<nmg:datum timeValue="1174947300" value="4.809892863444445E7" />
<nmg:datum timeValue="1174947600" value="4.494953998694445E7" />
<nmg:datum timeValue="1174947900" value="5.020453738972222E7" />
<nmg:datum timeValue="1174948200" value="3.643016017777775E7" />
<nmg:datum timeValue="1174948500" value="3.70486890475E7" />
<nmg:datum timeValue="1174948800" value="3.4193021166944444E7" />
<nmg:datum timeValue="1174949100" value="4.185146470738889E7" />
```

```
<nmg:datum timeValue="1174949400" value="NaN" />
<nmg:datum timeValue="1174949700" value="NaN" />
</nmg:data>
<nmg:localhost id="localhost.-9157eb7:111905a8f49:-25c6" metadataIdRef="meta172">
<nmg:datum timeValue="1174863300" value="2.2608086615333334E7" />
<nmg:datum timeValue="1174863600" value="2.168326937105556E7" />
<nmg:datum timeValue="1174863900" value="2.619548050177776E7" />
<nmg:datum timeValue="1174864200" value="3.5815882260000005E7" />
<nmg:datum timeValue="1174864500" value="3.649699342011105E7" />
<nmg:datum timeValue="1174864800" value="2.341985502522222E7" />
<nmg:datum timeValue="1174865100" value="1.646374196833334E7" />
<nmg:datum timeValue="1174865400" value="2.548739078814689E7" />
<nmg:datum timeValue="1174865700" value="1.699736186196422E7" />
<nmg:datum timeValue="1174866000" value="2.556545951944443E7" />
<nmg:datum timeValue="1174866300" value="1.9459404229999997E7" />
<nmg:datum timeValue="1174866600" value="1.4048974505088512E7" />
<nmg:datum timeValue="1174866900" value="1.868825198706215E7" />
<nmg:datum timeValue="1174867200" value="3.532369720463861E7" />
<nmg:datum timeValue="1174867500" value="3.149040882932184E7" />
<nmg:datum timeValue="1174867800" value="3.537487880883334E7" />
<nmg:datum timeValue="1174868100" value="2.22626445235E7" />
<nmg:datum timeValue="1174868400" value="1.2392625742920635E7" />
<nmg:datum timeValue="1174868700" value="1.8039769394853376E7" />
<nmg:datum timeValue="1174869000" value="1.0037075794725988E7" />
<nmg:datum timeValue="1174869300" value="9985914.974000001" />
<nmg:datum timeValue="1174869600" value="1.7453061354564514E7" />
<nmg:datum timeValue="1174869900" value="2.179175341010215E7" />
<nmg:datum timeValue="1174870200" value="2.0115343336000003E7" />
<nmg:datum timeValue="1174870500" value="1.066744082533333E7" />
<nmg:datum timeValue="1174870800" value="1.355334240666666E7" />
<nmg:datum timeValue="1174871100" value="1.363983765683332E7" />
<nmg:datum timeValue="1174871400" value="1.2044372030666668E7" />
<nmg:datum timeValue="1174871700" value="1.19965481595E7" />
<nmg:datum timeValue="1174872000" value="1.000702655433333E7" />
<nmg:datum timeValue="1174872300" value="3949942.116500005" />
<nmg:datum timeValue="1174872600" value="9720380.419700565" />
<nmg:datum timeValue="1174872900" value="715674.9646327684" />
<nmg:datum timeValue="1174873200" value="1.368475058966668E7" />
<nmg:datum timeValue="1174873500" value="6381888.695531074" />
<nmg:datum timeValue="1174873800" value="5959934.539968927" />
<nmg:datum timeValue="1174874100" value="6297472.42283333" />
<nmg:datum timeValue="1174874400" value="7563409.82583333" />
<nmg:datum timeValue="1174874700" value="5376319.621166667" />
<nmg:datum timeValue="1174875000" value="3476356.225666667" />
<nmg:datum timeValue="1174875300" value="1.6597902833166664E7" />
<nmg:datum timeValue="1174875600" value="1.5353247953166667E7" />
<nmg:datum timeValue="1174875900" value="2.596087864166666E7" />
<nmg:datum timeValue="1174876200" value="4486576.844229509" />
<nmg:datum timeValue="1174876500" value="8240046.584437159" />
<nmg:datum timeValue="1174876800" value="9961023.34311111" />
<nmg:datum timeValue="1174877100" value="1.188553652222222E7" />
<nmg:datum timeValue="1174877400" value="5110795.71355555" />
<nmg:datum timeValue="1174877700" value="9626493.32766666" />
<nmg:datum timeValue="1174878000" value="910426.363055555" />
<nmg:datum timeValue="1174878300" value="557918.792222223" />
<nmg:datum timeValue="1174878600" value="3171829.2325" />
<nmg:datum timeValue="1174878900" value="6882181.936944445" />
<nmg:datum timeValue="1174879200" value="9513256.323888889" />
<nmg:datum timeValue="1174879500" value="1.8673674903055556E7" />
<nmg:datum timeValue="1174879800" value="1.3240847748055557E7" />
<nmg:datum timeValue="1174880100" value="1.2129593043055555E7" />
<nmg:datum timeValue="1174880400" value="1.6965409614166666E7" />
<nmg:datum timeValue="1174880700" value="1.3981321161213448E7" />
<nmg:datum timeValue="1174881000" value="1.9386972243508775E7" />
<nmg:datum timeValue="1174881300" value="2.240887280666665E7" />
<nmg:datum timeValue="1174881600" value="1.9381761585701276E7" />
<nmg:datum timeValue="1174881900" value="2.2837655891455032E7" />
<nmg:datum timeValue="1174882200" value="1.863934421173258E7" />
<nmg:datum timeValue="1174882500" value="2.0309816433860637E7" />
<nmg:datum timeValue="1174882800" value="2.1941919918639358E7" />
<nmg:datum timeValue="1174883100" value="1.7007042283743385E7" />
```

```
<nmg:datum timeValue="1174883400" value="1.2658064612812169E7" />
<nmg:datum timeValue="1174883700" value="2.36784863975E7" />
<nmg:datum timeValue="1174884000" value="2.206555902744445E7" />
<nmg:datum timeValue="1174884300" value="2.384487310306093E7" />
<nmg:datum timeValue="1174884600" value="2.0747886252272405E7" />
<nmg:datum timeValue="1174884900" value="2.5677509947333336E7" />
<nmg:datum timeValue="1174885200" value="2.3738320574821096E7" />
<nmg:datum timeValue="1174885500" value="1.8735225994689263E7" />
<nmg:datum timeValue="1174885800" value="9097639.121156309" />
<nmg:datum timeValue="1174886100" value="2.2557323516222224E7" />
<nmg:datum timeValue="1174886400" value="3.140064862488889E7" />
<nmg:datum timeValue="1174886700" value="2.1418381604000002E7" />
<nmg:datum timeValue="1174887000" value="2.208062043355555E7" />
<nmg:datum timeValue="1174887300" value="1.8537383160000004E7" />
<nmg:datum timeValue="1174887600" value="2.1244369959216572E7" />
<nmg:datum timeValue="1174887900" value="1.4291694922783429E7" />
<nmg:datum timeValue="1174888200" value="1.4486146883318266E7" />
<nmg:datum timeValue="1174888500" value="1.5066137424237287E7" />
<nmg:datum timeValue="1174888800" value="1.8487458342E7" />
<nmg:datum timeValue="1174889100" value="1.3886832719857926E7" />
<nmg:datum timeValue="1174889400" value="1.885341840303097E7" />
<nmg:datum timeValue="1174889700" value="1.7900678985001825E7" />
<nmg:datum timeValue="1174890000" value="2.0631115632131148E7" />
<nmg:datum timeValue="1174890300" value="2.4587900698978145E7" />
<nmg:datum timeValue="1174890600" value="2.1514654189499997E7" />
<nmg:datum timeValue="1174890900" value="1.90842005355E7" />
<nmg:datum timeValue="1174891200" value="1.221561345483332E7" />
<nmg:datum timeValue="1174891500" value="1.232726685138889E7" />
<nmg:datum timeValue="1174891800" value="1.253441698777779E7" />
<nmg:datum timeValue="1174892100" value="1.2143409541666666E7" />
<nmg:datum timeValue="1174892400" value="1.6979628087777782E7" />
<nmg:datum timeValue="1174892700" value="1.4443752635E7" />
<nmg:datum timeValue="1174893000" value="1.6014048546111112E7" />
<nmg:datum timeValue="1174893300" value="1.5520644018333334E7" />
<nmg:datum timeValue="1174893600" value="2.1981247941602916E7" />
<nmg:datum timeValue="1174893900" value="3.353924194506375E7" />
<nmg:datum timeValue="1174894200" value="1.8751061921666667E7" />
<nmg:datum timeValue="1174894500" value="1.313134313277778E7" />
<nmg:datum timeValue="1174894800" value="7757657.871777778" />
<nmg:datum timeValue="1174895100" value="1.013933874777779E7" />
<nmg:datum timeValue="1174895400" value="9171530.035811676" />
<nmg:datum timeValue="1174895700" value="9085537.899632767" />
<nmg:datum timeValue="1174896000" value="2.1926257569590166E7" />
<nmg:datum timeValue="1174896300" value="1.874550297956284E7" />
<nmg:datum timeValue="1174896600" value="9945906.693158824" />
<nmg:datum timeValue="1174896900" value="1.0755690381354839E7" />
<nmg:datum timeValue="1174897200" value="1.472248875588889E7" />
<nmg:datum timeValue="1174897500" value="1.563095188772222E7" />
<nmg:datum timeValue="1174897800" value="1.571258946977778E7" />
<nmg:datum timeValue="1174898100" value="1.695869892638889E7" />
<nmg:datum timeValue="1174898400" value="1.638459502255554E7" />
<nmg:datum timeValue="1174898700" value="1.263271713755558E7" />
<nmg:datum timeValue="1174899000" value="1.167917181794447E7" />
<nmg:datum timeValue="1174899300" value="1.335101772755556E7" />
<nmg:datum timeValue="1174899600" value="1.1329563355E7" />
<nmg:datum timeValue="1174899900" value="1.3124373159388889E7" />
<nmg:datum timeValue="1174900200" value="1.430953870570856E7" />
<nmg:datum timeValue="1174900500" value="1.3409956642735884E7" />
<nmg:datum timeValue="1174900800" value="1.604074882610546E7" />
<nmg:datum timeValue="1174901100" value="1.1536143437061206E7" />
<nmg:datum timeValue="1174901400" value="1.201626003511111E7" />
<nmg:datum timeValue="1174901700" value="1.310528887655555E7" />
<nmg:datum timeValue="1174902000" value="1.7416824358944446E7" />
<nmg:datum timeValue="1174902300" value="1.8396424868E7" />
<nmg:datum timeValue="1174902600" value="1.905355874699998E7" />
<nmg:datum timeValue="1174902900" value="3.381524912033333E7" />
<nmg:datum timeValue="1174903200" value="2.613215133044444E7" />
<nmg:datum timeValue="1174903500" value="1.501790776177777E7" />
<nmg:datum timeValue="1174903800" value="2.0386980781438794E7" />
<nmg:datum timeValue="1174904100" value="1.7702497783005647E7" />
<nmg:datum timeValue="1174904400" value="2.214409687311111E7" />
```

```
<nmg:datum timeValue="1174904700" value="2.783074503200005E7" />
<nmg:datum timeValue="1174905000" value="3.310268675311113E7" />
<nmg:datum timeValue="1174905300" value="2.064531330455558E7" />
<nmg:datum timeValue="1174905600" value="1.522460496000001E7" />
<nmg:datum timeValue="1174905900" value="2.5667808810333334E7" />
<nmg:datum timeValue="1174906200" value="1.879998389577778E7" />
<nmg:datum timeValue="1174906500" value="2.0197610179999996E7" />
<nmg:datum timeValue="1174906800" value="1.0187213560695808E7" />
<nmg:datum timeValue="1174907100" value="1.7451440654859744E7" />
<nmg:datum timeValue="1174907400" value="1.358869766033332E7" />
<nmg:datum timeValue="1174907700" value="1.4737342996000001E7" />
<nmg:datum timeValue="1174908000" value="1.1739976851E7" />
<nmg:datum timeValue="1174908300" value="1.3106220352888888E7" />
<nmg:datum timeValue="1174908600" value="9985490.352444444" />
<nmg:datum timeValue="1174908900" value="9734449.364666667" />
<nmg:datum timeValue="1174909200" value="2.243095212877778E7" />
<nmg:datum timeValue="1174909500" value="2.238168750722222E7" />
<nmg:datum timeValue="1174909800" value="2.9937617318666667E7" />
<nmg:datum timeValue="1174910100" value="2.758105422098084E7" />
<nmg:datum timeValue="1174910400" value="2.7021167580574714E7" />
<nmg:datum timeValue="1174910700" value="2.253322811222222E7" />
<nmg:datum timeValue="1174911000" value="2.4660900938444443E7" />
<nmg:datum timeValue="1174911300" value="1.7154590048711862E7" />
<nmg:datum timeValue="1174911600" value="3.868252384812147E7" />
<nmg:datum timeValue="1174911900" value="5.2656424309166667E" />
<nmg:datum timeValue="1174912200" value="4.620659759666664E7" />
<nmg:datum timeValue="1174912500" value="5.119405052473118E7" />
<nmg:datum timeValue="1174912800" value="4.7286897096102156E7" />
<nmg:datum timeValue="1174913100" value="4.9644684930070624E7" />
<nmg:datum timeValue="1174913400" value="4.879107034740113E7" />
<nmg:datum timeValue="1174913700" value="5.3602005325192176E7" />
<nmg:datum timeValue="1174914000" value="4.8057023925669394E7" />
<nmg:datum timeValue="1174914300" value="5.0334949554166667E" />
<nmg:datum timeValue="1174914600" value="5.1679028751666665E7" />
<nmg:datum timeValue="1174914900" value="5.3709334232704915E7" />
<nmg:datum timeValue="1174915200" value="5.443838784856627E7" />
<nmg:datum timeValue="1174915500" value="6.4793986281242944E7" />
<nmg:datum timeValue="1174915800" value="3.887535767581921E7" />
<nmg:datum timeValue="1174916100" value="3.33052460433333E7" />
<nmg:datum timeValue="1174916400" value="3.781012087333335E7" />
<nmg:datum timeValue="1174916700" value="3.6448429840833336E7" />
<nmg:datum timeValue="1174917000" value="3.4620039926666667E" />
<nmg:datum timeValue="1174917300" value="3.484206087E7" />
<nmg:datum timeValue="1174917600" value="2.611019011583333E7" />
<nmg:datum timeValue="1174917900" value="1.727025067833333E7" />
<nmg:datum timeValue="1174918200" value="1.7878997064166665E7" />
<nmg:datum timeValue="1174918500" value="2.412237825583333E7" />
<nmg:datum timeValue="1174918800" value="1.9251311642923497E7" />
<nmg:datum timeValue="1174919100" value="1.4228262362295082E7" />
<nmg:datum timeValue="1174919400" value="2.0081839557704918E7" />
<nmg:datum timeValue="1174919700" value="1.624010052274317E7" />
<nmg:datum timeValue="1174920000" value="2.725971797822222E7" />
<nmg:datum timeValue="1174920300" value="2.960096300333333E7" />
<nmg:datum timeValue="1174920600" value="2.216851502711113E7" />
<nmg:datum timeValue="1174920900" value="2.008698588288889E7" />
<nmg:datum timeValue="1174921200" value="2.659823732933333E7" />
<nmg:datum timeValue="1174921500" value="2.617517729955555E7" />
<nmg:datum timeValue="1174921800" value="2.5594547969166666E7" />
<nmg:datum timeValue="1174922100" value="2.2758355882388886E7" />
<nmg:datum timeValue="1174922400" value="1.3863339064666668E7" />
<nmg:datum timeValue="1174922700" value="2.157085579477778E7" />
<nmg:datum timeValue="1174923000" value="2.503971995755555E7" />
<nmg:datum timeValue="1174923300" value="2.2713834693555556E7" />
<nmg:datum timeValue="1174923600" value="2.312719039420468E7" />
<nmg:datum timeValue="1174923900" value="2.857452864418421E7" />
<nmg:datum timeValue="1174924200" value="2.48957319265E7" />
<nmg:datum timeValue="1174924500" value="2.2900258404388893E7" />
<nmg:datum timeValue="1174924800" value="3.022338116876437E7" />
<nmg:datum timeValue="1174925100" value="2.4290928185124524E7" />
<nmg:datum timeValue="1174925400" value="3.548427374327778E7" />
<nmg:datum timeValue="1174925700" value="2.322671722561113E7" />
```

```
<nmg:datum timeValue="1174926000" value="2.356851001564176E7" />
<nmg:datum timeValue="1174926300" value="2.872552693396935E7" />
<nmg:datum timeValue="1174926600" value="2.0974525107666664E7" />
<nmg:datum timeValue="1174926900" value="2.129195701483333E7" />
<nmg:datum timeValue="1174927200" value="2.3209548927526366E7" />
<nmg:datum timeValue="1174927500" value="2.4030385791251414E7" />
<nmg:datum timeValue="1174927800" value="2.3589142840166666E7" />
<nmg:datum timeValue="1174928100" value="2.836255306433334E7" />
<nmg:datum timeValue="1174928400" value="2.4418561867242936E7" />
<nmg:datum timeValue="1174928700" value="2.8686928164090395E7" />
<nmg:datum timeValue="1174929000" value="2.5732528736E7" />
<nmg:datum timeValue="1174929300" value="1.989288025933335E7" />
<nmg:datum timeValue="1174929600" value="2.442560046822223E7" />
<nmg:datum timeValue="1174929900" value="1.34995270331111E7" />
<nmg:datum timeValue="1174930200" value="1.811945180533335E7" />
<nmg:datum timeValue="1174930500" value="2.3131644022777777E7" />
<nmg:datum timeValue="1174930800" value="2.20366395035448E7" />
<nmg:datum timeValue="1174931100" value="2.154664575867742E7" />
<nmg:datum timeValue="1174931400" value="1.8739593454497267E7" />
<nmg:datum timeValue="1174931700" value="2.542627143550273E7" />
<nmg:datum timeValue="1174932000" value="1.9945205161163934E7" />
<nmg:datum timeValue="1174932300" value="2.0141431852613844E7" />
<nmg:datum timeValue="1174932600" value="2.4371280461000003E7" />
<nmg:datum timeValue="1174932900" value="2.329841987311106E7" />
<nmg:datum timeValue="1174933200" value="2.376111873866665E7" />
<nmg:datum timeValue="1174933500" value="2.557800455444443E7" />
<nmg:datum timeValue="1174933800" value="2.014110133555556E7" />
<nmg:datum timeValue="1174934100" value="2.577428766555555E7" />
<nmg:datum timeValue="1174934400" value="1.95232174188889E7" />
<nmg:datum timeValue="1174934700" value="1.900531026497174E7" />
<nmg:datum timeValue="1174935000" value="1.7185006382090397E7" />
<nmg:datum timeValue="1174935300" value="2.1831893442259885E7" />
<nmg:datum timeValue="1174935600" value="2.256210024137476E7" />
<nmg:datum timeValue="1174935900" value="2.730919594777778E7" />
<nmg:datum timeValue="1174936200" value="3.04251924344444E7" />
<nmg:datum timeValue="1174936500" value="2.760201389777773E7" />
<nmg:datum timeValue="1174936800" value="2.714646975261111E7" />
<nmg:datum timeValue="1174937100" value="2.782884128383332E7" />
<nmg:datum timeValue="1174937400" value="2.5083113819E7" />
<nmg:datum timeValue="1174937700" value="1.6355887714000002E7" />
<nmg:datum timeValue="1174938000" value="2.377347412733336E7" />
<nmg:datum timeValue="1174938300" value="2.1663594892E7" />
<nmg:datum timeValue="1174938600" value="1.8373994060500003E7" />
<nmg:datum timeValue="1174938900" value="2.187832674633335E7" />
<nmg:datum timeValue="1174939200" value="1.730372506333333E7" />
<nmg:datum timeValue="1174939500" value="2.36109308375E7" />
<nmg:datum timeValue="1174939800" value="1.83826171835E7" />
<nmg:datum timeValue="1174940100" value="2.4287982556904368E7" />
<nmg:datum timeValue="1174940400" value="2.0052611259008057E7" />
<nmg:datum timeValue="1174940700" value="1.9281980925365347E7" />
<nmg:datum timeValue="1174941000" value="1.888745595972222E7" />
<nmg:datum timeValue="1174941300" value="1.6300751074388886E7" />
<nmg:datum timeValue="1174941600" value="1.6572637595166665E7" />
<nmg:datum timeValue="1174941900" value="1.699099609195614E7" />
<nmg:datum timeValue="1174942200" value="1.74671311979883E7" />
<nmg:datum timeValue="1174942500" value="1.1702894894E7" />
<nmg:datum timeValue="1174942800" value="1.5952694178E7" />
<nmg:datum timeValue="1174943100" value="1.4918492937747125E7" />
<nmg:datum timeValue="1174943400" value="1.3400791589586208E7" />
<nmg:datum timeValue="1174943700" value="2.0314642510655366E7" />
<nmg:datum timeValue="1174944000" value="2.1008288054067798E7" />
<nmg:datum timeValue="1174944300" value="2.0757729736271184E7" />
<nmg:datum timeValue="1174944600" value="2.276683803567232E7" />
<nmg:datum timeValue="1174944900" value="1.8361989107722223E7" />
<nmg:datum timeValue="1174945200" value="2.419870831E7" />
<nmg:datum timeValue="1174945500" value="1.647962708452509E7" />
<nmg:datum timeValue="1174945800" value="2.429984988908602E7" />
<nmg:datum timeValue="1174946100" value="2.156909303527776E7" />
<nmg:datum timeValue="1174946400" value="3.38952288788889E7" />
<nmg:datum timeValue="1174946700" value="3.833753158047815E7" />
<nmg:datum timeValue="1174947000" value="3.717363081563296E7" />
```

```
<nmgwg:datum timeValue="1174947300" value="2.680917774055555E7" />
<nmgwg:datum timeValue="1174947600" value="3.852760206805555E7" />
<nmgwg:datum timeValue="1174947900" value="3.352075525666668E7" />
<nmgwg:datum timeValue="1174948200" value="2.409677804138888E7" />
<nmgwg:datum timeValue="1174948500" value="3.432677894722222E7" />
<nmgwg:datum timeValue="1174948800" value="1.965959187500004E7" />
<nmgwg:datum timeValue="1174949100" value="2.779505803105556E7" />
<nmgwg:datum timeValue="1174949400" value="NaN" />
<nmgwg:datum timeValue="1174949700" value="NaN" />
</nmgwg:data>
</nmgwg:message>
```

Should the MA not support the ifAddress of the device provided, it will return an empty element:

```
<nmgwg:message xmlns:nmgwg="http://ggf.org/ns/nmgwg/base/2.0/" id="localhost.-9157eb7:111905a8f49:66ea" />
```

Advanced usage

The RRD MA's are supposed to support the `select` statements through metadata chaining; however, in tests, even with simple `startTime`, `endTime` parameters, the output seems unaffected.