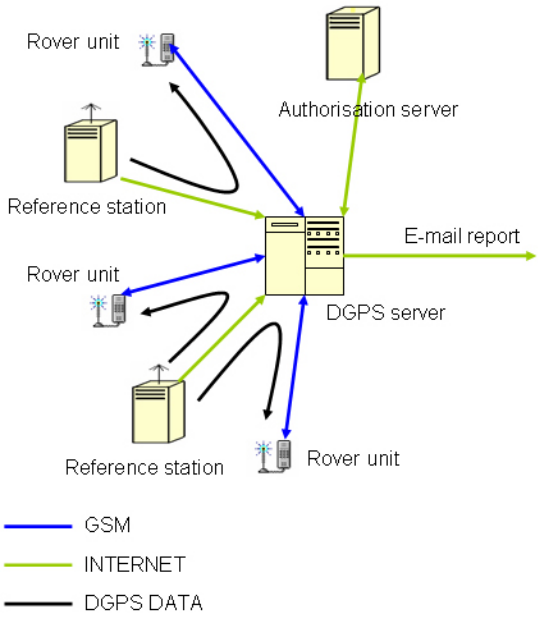
XENYA GSM / DGPS SERVER

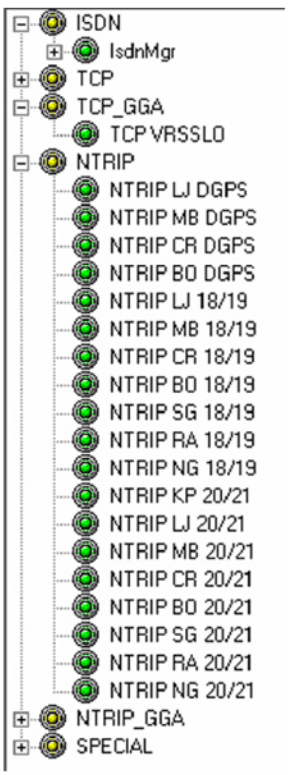
• Distribuites RTCM SC-104 differential correction data between reference stations toward rover units via GSM network.

• Straighforward algorithm minimizes delay time due to buffering. As the server is directly connected to provider's PBX, only one GSM hop further minimizes data delay.

• Authorisation server on-line receives all status information from DGPS server. Called and CLIP numbers can be used for billing, denial of service and special purposes.

• Authorisartion server instructs DGPS server to go in one of 4 modes: no transmit / no receive, transmit DGPS / no receive, transmit DGPS / receive special data and transmit / receive special data. Special data are tranceived by autrhorisation server over DGPS server.





• The user simply calls wished GSM number, which is the key to requested reference station or any special data service. DGPS server establishes TCP / IP connection toward reference station (if needed) and starts transfering RTCM data with minimum buffernig to minimize delay.

• Connect to reference station can be in one of four modes: classic TCP, classic TCP with VRS GGA frame, NTRIP login and NTRIP login with VRS GGA frame.

• Number of concurrent GSM connections only restriced by free slots in DGPS server. Each of E1 cards supports up to 30 concurrently V.110 GSM data links.

• Easy upgrading and practically unlimited number of reference stations for new geographical coverage or protocol.

• Each reference station is identified by its name, key (called phone number), IP address and IP port number and optional password.

XENYA d.o.o. Celovška c. 172 | 1000 Ljubljana Slovenija | Tel.: + 38615140610 Fax: + 38615153053 | Email:prodaja@xenya.si http://www.xenya.si

XENYA GSM / DGPS SERVER

• DGPS server manages log for all important events for each reference station and phone line (number of connects, number of transferred data etx). Logs are saved on disk and daily / monthly e-mailed to selected e-mail addresses.

• All server setup can be easily done in one XML formatted file:

```
<?xml version="1.0" standalone="yes"?>
<DGPSC xmlns:dgps="http://www.dgpsc.xenya.si/2005" Version="1" Type="SERVICES">
    <SERVICE Type="0" Name="IsdnMgr">
        <BOARDS>2</BOARDS>
        <LINES>60</LINES>
        <KEYLEN>3</KEYLEN>
    </SERVICE>
    <SERVICE Type="6" Name="Control">
        <MAIL>x@abc.com</MAIL>
    </SERVICE>
    <SERVICE Type="5" Name="Loopback">
        <KEY>999</KEY>
    </SERVICE>
    <SERVICE Type="2" Name="TCP Koper">
        <KEY>001</KEY>
        <HOST>dgps.koper.si</HOST>
        <IP></IP>
        <PORT>2101</PORT>
        <MODE>0</MODE>
    </SERVICE>
    <SERVICE Type="3" Name="NTRIP VRSSLO">
        <KEY>080</KEY>
        <HOST></HOST>
        <IP>193.2.110.249</IP>
        <PORT>8080</PORT>
        <MODE>1</MODE>
        <PWD>auto</PWD>
        <TARGET>VRSSLO</TARGET>
    </SERVICE>
    <SERVICE Type="2" Name="NTRIP LJ 20/21">
        <KEY>102</KEY>
        <HOST></HOST>
        <IP>193.2.110.249</IP>
        <PORT>8080</PORT>
        <MODE>1</MODE>
        <PWD>auto</PWD>
        <TARGET>LJ20/21(2.3)</TARGET>
    </SERVICE>
</DGPSC>
```