## 1. Equipment set "GNSS equipment for CORS"

- 1. 5x Leica GR30 GNSS receiver
- 2. 4x Leica AR20 GNSS antenna



Figure 1: Leica GR30 GNSS receiver (left) and Leica AR20 GNSS antenna (right) at the GNSS station CELJ00SVN of the SIGNAL network (approximate position (ETRS89):  $\varphi = 46^{\circ} 14' 30.41'' \lambda = 15^{\circ} 14' 29.71'' h = 295.1 m$ )



Figure 2: Leica GR30 GNSS receiver (left) and Leica AR20 GNSS antenna (right) at the GNSS station LEND00SVN of the SIGNAL network (approximate position (ETRS89):  $\varphi = 46^{\circ} 33' 53.00'' \lambda = 16^{\circ} 26' 49.57'' h = 219.9 m$ )



Figure 3: Leica GR30 GNSS receiver (left) and Leica AR20 GNSS antenna (right) at the GNSS station MRBR00SVN of the SIGNAL network (approximate position (ETRS89):  $\varphi = 46^{\circ}$  33' 43.87"  $\lambda = 15^{\circ}$  38' 55.41" h = 342.9 m)



Figure 4: Leica GR30 GNSS receiver (left) and Leica AR20 GNSS antenna (right) at the GNSS station PTUJ00SVN of the SIGNAL network (approximate position (ETRS89):  $\varphi = 46^{\circ} 24' 59.40'' \lambda = 15^{\circ} 52' 51.96'' h = 284.0 m$ )



Figure 5: Leica GR30 GNSS receiver at the GNSS station PZA100SVN of the SIGNAL network (approximate position (ETRS89):  $\varphi = 45^{\circ} 35' 26.73'' \lambda = 15^{\circ} 15' 38.34'' h = 212.7 m$ )

# 2. <u>Equipment set "Software for managing CORS network – module for processing Galileo data"</u>

- 1. RTXNet processor for Trimble Pivot Platform
- 2. Trimble RTXNet Galileo processing for Trimble Pivot Platform



	Combined	PROFESSION OF STREET
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ast update		28.8.2020 8:51:16
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Number of NTBIP Caster mountpoints	125	125
Total number of receivers	30	30
Number of Spectra Precision SP90m receivers	1	1
Number of NTRIP Caster users	113	113
Number of Leica GB 30 receivers	7	7
Number of Javad Sigma receivers	8	8
Number of Non-Trimble receivers	16	16
Total number of stations in all network processors	30	30
Number of Septentrio Polar X5 receivers	1	1
Access Server	OK	OK
Accounting	OK	OK
Data storage	OK	OK
DGNSS format generation	OK	OK
DGNSS Network	OK	OK
Ephemeris download	ОК	OK
phemeris manager	OK	OK
FKP based on RTCM 3.x	OK	OK
TP Mirror	OK	OK
GNSS device manager	OK	OK
_5 support	OK	OK
Network Motion Engine	OK	OK
Network Processor	OK	OK
Online Post Processing	OK	OK
Real-Time Output	ОК	OK
Receiver firmware update	OK	OK
Reference data shop	OK	OK
RTCM 3 x Network (MAC) format generation	OK	OK
BTK Network	OK.	ПK
RTXNet Galileo Network-RTX Processing	OK	OK
RTXNet Processor (incl. GPS, GLONASS)	OK	OK
Trimble extended services	OK	OK
/RS network format generation	OK	OK
TIS Network Tolmak generation	UK.	

Figure 6: Main SIGNAL network processing server on which software modules Trimble RTXNet processor and Trimble RTXNet Galileo processing for Trimble Pivot Platform are installed

Figure 7: Screenshot of the Trimble Pivot Platform license window showing licenses for Trimble RTXNet processor and Trimble RTXNet Galileo processing modules

## 3. Equipment set "Total station with accessories"

- 1. Leica Nova MS60 MultiStation
- 2. Leica GKL341 battery charging station
- 3. 3x Leica GPH1P precision prism
- 4. 3x Leica GZR2 carrier
- 5. 3x Leica GDF321 PRO tribrach
- 6. Leica wooden tripod



Figure 8: Leica Nova MS60 MultiStation



Figure 9: Leica GKL341 battery charging station



Figure 10: 3x Leica precision prism GPH1P



Figure 11: 3x Leica GZR2 carrier



Figure 12: 3x Leica GDF321 PRO tribrach



Figure 13: Leica wooden tripod

## 4. Equipment set "Accessories for a precise geodetic survey"

- 1. 3x Leica GPH1P precision prism
- 2. 3x Leica GZR3 carriers
- 3. 3x Leica GDF321 PRO tribrachs
- 4. 2x Leica GHM007 instrument height meter with Leica GHT196 holder for height meter
- 5. Greisinger GFTB200 portable meteostation
- 6. 2x plastic case



Figure 14: 3x Leica GPH1P precision prism



Figure 15: 3x Leica GZR3 carrier



Figure 16: 3x Leica GDF321 PRO tribrach



Figure 17: 2x Leica GHM007 instrument height meter with Leica GHT196 Tribrach distance holder



Figure 18: Greisinger GFTB200 portable meteostation



Figure 19: 2x plastic case

### 5. Equipment set "Total station & two GNSS receivers"

- 1. Trimble Alloy GNSS receiver
- 2. Trimble Zephyr 3 Geodetic GNSS antenna
- 3. Trimble R12i GNSS receiver
- 4. Trimble TSC7 controler
- 5. Trimble S5 Robotic Total Station
- 6. Trimble TCU5 controller
- 7. Trimble 360 prism
- 8. 2x Trimble TSC7 Pole Mount
- 9. 2x Trimble carbon fibre pole
- 10. Trimble bipod
- 11. 3x Trimble wooden tripod



Figure 20: Trimble Alloy GNSS receiver at GNSS station FGG300SVN



Figure 21: Trimble Zephyr 3 Geodetic GNSS antenna at GNSS station FGG300SVN



Figure 22: Trimble R12i GNSS receiver



Figure 23: Trimble TSC7 controler



Figure 24: Trimble S5 Total Station



Figure 25: Trimble TCU5 controller



Figure 26: Trimble 360 prism



Figure 27: 2x Trimble TSC7 Pole Mount



Figure 28: 2x Trimble carbon fibre pole



Figure 29: Trimble bipod



Figure 30: 3x Trimble wooden tripod