# WAAS REFERENCE RECEIVER - THIRD GENERATION (WAAS G-III) 

# MANUAL ADDENDUM - SAMPLE ASCII LOGS 

D17839

## 23 JANUARY 2013

## CONTRACT \# DTFAWA-09-C-00045

| NovAtel Inc. <br> Calgary, Alberta <br> Proprietary Data | TITLE: WAAS G-III Sample ASCII Logs |  |  |  |
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REVISION HISTORY

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## 1 SCOPE

This document contains ASCII representations of a sample of every log type output by the WAAS G-III receiver. Refer to [EICD] for the specification of the binary format of each log. The ASCII format is that generated by using wg3convert.exe version 1.00 V 39 to convert the binary logs output natively by the receiver.

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## 2 REFERENCES

### 2.1 Referenced Documents

Table 2-1: Reference Documents

| Document <br> Number | CDRL <br> Number | Document <br> ID | Document Title | Revision <br> Number |
| :---: | :---: | :---: | :--- | :---: |
| D12994 |  |  | WAAS G-III List of Acronyms and <br> Definitions | BM |
| D14799 |  | $[$ EICD] | WAAS G-III - External Interface Control <br> Document (EICD) | EM |

### 2.2 Acronyms and Definitions

Refer to D12994 - WAAS G-III List of Acronyms and Definitions for an explanation of acronyms and definition of terms used in this and other WAAS G-III documentation.

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## 3 SAMPLE ASCII LOGS

### 3.1 WAAS G-III Logs

### 3.1.1 AGCINFOB

@AGCINFOA, 3, COARSE, $700,325629.000,0,0,0 ; 4,00008 \mathrm{a} 83,00000000,415,1000,0.057923,0.127564,0$. $227863,0.259208,0.196641,0.130800,1083277.00,0.020,-683,0,0,00008 a 93,00000000,345,1000,0$. $040536,0.112558,0.216250,0.274144,0.210812,0.145700,1126383.00,0.011,-975,0,0,00008804,00$ $000000,500,1000,0.057846,0.127795,0.229254,0.257601,0.196082,0.131422,1116542.00,0.020,-6$ $75,0,0,00008 \mathrm{aa} 4,00000000,378,1000,0.075613,0.145261,0.238823,0.252250,0.177546,0.110507,6$ $410439.00,0.013,-326,0,0 * b b c e 55 d 1$

### 3.1.2 ALMANACB

@ALMANACA, 4, COARSE, $700,325629.000,0,0,0 ;$ GPS $, 3,5,32,1,188,503808.0,1.564026 \mathrm{e}-03,-7.7946103$ $9 \mathrm{e}-09,7.88122702 \mathrm{e}-01,4.59058731 \mathrm{e}-01,2.98609059 \mathrm{e}-01,2.95639038 \mathrm{e}-04,0.00000000,1.45855743 \mathrm{e}-$ $04,2.6560132 \mathrm{e}+07,1.77366529 \mathrm{e}-02,3,0,0,1,2,188,503808.0,1.192379 \mathrm{e}-02,-8.00033325 \mathrm{e}-09,7.691$ $20215 e-01,-2.6834964 e+00,1.2550131 e+00,4.15802002 e-04,0.00000000,1.45865402 e-04,2.6558960$ $e+07,-3.72709395 e-03,1,0,0,1,3,188,503808.0,1.595640 e-02,-8.03462039 e-09,-3.98168757 e-01$, $1.2653735 \mathrm{e}+00,1.4146954 \mathrm{e}+00,1.59263611 \mathrm{e}-04,3.63797881 \mathrm{e}-12,1.45858230 \mathrm{e}-04,2.6559831 \mathrm{e}+07,-8$ $.79042897 e-03,1,0,0,1,4,188,503808.0,1.038361 e-02,-8.04604944 e-09,7.85697395 e-01,9.554947$ $62 \mathrm{e}-01,-1.7694865 \mathrm{e}+00,1.15394592 \mathrm{e}-04,1.09139364 \mathrm{e}-11,1.45853794 \mathrm{e}-04,2.6560369 \mathrm{e}+07,-4.70380$ $828 \mathrm{e}-03,1,0,0,1,5,188,503808.0,3.074646 e-03,-8.11462372 e-09,1.8340100 e+00,3.18304384 e-01$, $-2.9926164 e+00,-3.79562378 e-04,0.00000000,1.45870295 e-04,2.6558366 e+07,6.42354455 e-03,2,0$ $, 0,1,6,188,503808.0,7.653713 e-03,-7.92032991 e-09,-3.19660474 e-01,-3.90052441 e-01,-2.97874$ $84 \mathrm{e}+00,3.74794006 \mathrm{e}-04,-1.09139364 \mathrm{e}-11,1.45856820 \mathrm{e}-04,2.6560002 \mathrm{e}+07,-2.04331035 \mathrm{e}-03,1,0,0$, $1,7,188,503808.0,6.054401 e-03,-7.87461372 e-09,-2.3346203 e+00,-2.9219630 e+00,-1.45522945 e-$ $01,1.72615051 \mathrm{e}-04,3.63797881 \mathrm{e}-12,1.45854706 \mathrm{e}-04,2.6560258 \mathrm{e}+07,3.33580900 \mathrm{e}-02,2,0,0,1,8,18$ $8,503808.0,1.270342 e-02,-7.71460706 e-09,-2.2460370 e+00,-2.8836251 e+00,-7.23927329 e-01,3.8$ $1469727 e-06,0.00000000,1.45863039 e-04,2.6559247 e+07,5.58345038 e-02,1,0,0,1,9,188,503808.0$ , 1.706934e-02,-7.77175230e-09,-2.3586524e+00,1.6368141e+00,-2.21974435e-01,2.15530396e-04 $, 0.00000000,1.45929478 \mathrm{e}-04,2.6551185 \mathrm{e}+07,4.20346689 \mathrm{e}-02,1,0,0,1,10,188,503808.0,1.228619 \mathrm{e}$ $-02,-8.19462705 e-09,1.8541596 e+00,7.94159381 e-01,-2.6561810 e+00,-6.67572021 e-05,0.0000000$ $0,1.45852343 \mathrm{e}-04,2.6560545 \mathrm{e}+07,1.27631995 \mathrm{e}-03,1,0,0,1,11,188,503808.0,1.381493 \mathrm{e}-02,-8.366$ $06277 e-09,5.00236528 e-01,1.1410042 e+00,5.94687200 e-02,-3.46183777 e-04,0.00000000,1.458587$ $27 e-04,2.6559770 e+07,-5.35814696 e-02,1,0,0,1,12,188,503808.0,4.223824 e-03,-8.03462039 e-09$ $,-1.2763005 e+00,1.42278216 e-01,-4.12015031 e-01,1.13487244 \mathrm{e}-04,0.00000000,1.45861422 e-04,2$ $.6559443 e+07,3.99733822 e-02,2,0,0,1,13,188,503808.0,4.934311 e-03,-7.41745182 e-09,2.980910$ $0 e+00,2.0674477 e+00,2.3082089 e+00,1.49726868 e-04,0.00000000,1.45866605 e-04,2.6558814 e+07$, $4.07883095 e-02,1,0,0,1,14,188,503808.0,6.700039 e-03,-7.47459706 e-09,2.9525385 e+00,-2.0185$ $625 e+00,2.4470544 e+00,2.19345093 e-04,0.00000000,1.45855038 e-04,2.6560218 e+07,3.34899165 e-$ $02,1,0,0,1,15,188,503808.0,5.270958 e-03,-7.82889753 e-09,2.8567640 e+00,1.20983372 e-01,1.98$ $26204 e+00,-1.05857849 e-04,0.00000000,1.45855660 e-04,2.6560143 e+07,1.13850137 e-04,2,0,0,1$, $16,188,503808.0,6.866455 e-03,-8.02319134 e-09,-1.2579755 e+00,2.87924748 e-02,-2.6508207 e+00$ $,-2.51770020 e-04,0.00000000,1.45866688 e-04,2.6558804 e+07,4.07164041 e-02,1,0,0,1,17,188,50$ $3808.0,8.061886 e-03,-7.62317468 e-09,-2.19743497 e-01,-2.2509794 e+00,2.6107364 e+00,5.531311$ $04 e-05,0.00000000,1.45847576 e-04,2.6561124 e+07,2.24883980 e-02,2,0,0,1,18,188,503808.0,1.3$ $68570 \mathrm{e}-02,-8.33177562 \mathrm{e}-09,1.8391879 \mathrm{e}+00,-2.1300589 \mathrm{e}+00,-2.1599071 \mathrm{e}+00,2.35557556 \mathrm{e}-04,0.00$ $000000,1.45852758 e-04,2.6560495 e+07,-1.49383363 e-02,1,0,0,1,19,188,503808.0,8.851528 e-03$, $-7.66889087 e-09,-1.67463814 e-01,2.76496292 e-01,1.9242089 e+00,-3.42369080 e-04,0.00000000,1$ $.45858603 \mathrm{e}-04,2.6559785 \mathrm{e}+07,1.97919474 \mathrm{e}-02,1,0,0,1,20,188,503808.0,5.575657 \mathrm{e}-03,-8.354633$ $72 \mathrm{e}-09,1.7856031 \mathrm{e}+00,1.2827832 \mathrm{e}+00,-1.5749987 \mathrm{e}+00,8.10623169 \mathrm{e}-05,0.00000000,1.45847742 \mathrm{e}-0$ $4,2.6561104 \mathrm{e}+07,-1.42851961 \mathrm{e}-02,1,0,0,1,21,188,503808.0,1.972294 \mathrm{e}-02,-8.09176563 \mathrm{e}-09,7.90$ $122944 \mathrm{e}-01,-2.1835539 \mathrm{e}+00,-1.0579591 \mathrm{e}+00,-2.76565552 \mathrm{e}-04,0.00000000,1.45853421 \mathrm{e}-04,2.6560$ $414 \mathrm{e}+07,-1.09356052 \mathrm{e}-02,1,0,0,1,22,188,503808.0,6.167889 \mathrm{e}-03,-8.37749181 \mathrm{e}-09,1.8420533 \mathrm{e}+0$ $0,-2.0322751 e+00,-2.8074339 e+00,1.56402588 e-04,0.00000000,1.45861174 e-04,2.6559473 e+07,-1$ $.72033549 \mathrm{e}-02,1,0,0,1,23,188,503808.0,8.162022 \mathrm{e}-03,-7.69174896 \mathrm{e}-09,2.8960782 \mathrm{e}+00,-2.91739$ $29 e+00,1.4922236 e+00,1.20162964 e-04,-3.63797881 e-12,1.45850436 e-04,2.6560777 e+07,1.501623$ $38 e-02,1,0,0,1,24,188,503808.0,5.722046 e-04,-8.01176229 e-09,-2.3611035 e+00,-3.12825721 e-0$ $3,9.24244772 \mathrm{e}-01,0.00000000,0.00000000,1.45855286 \mathrm{e}-04,2.6560188 \mathrm{e}+07,1.69576782 \mathrm{e}-02,3,0,0$,

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$1,25,188,503808.0,2.060890 \mathrm{e}-03,-8.17176896 \mathrm{e}-09,-1.3131890 \mathrm{e}+00,5.66234403 \mathrm{e}-01,-1.3419070 \mathrm{e}+$ $00,6.48498535 e-05,0.00000000,1.45864822 e-04,2.6559030 e+07,2.88100767 e-02,3,0,0,1,26,188,5$ $03808.0,2.108717 \mathrm{e}-02,-7.42888087 \mathrm{e}-09,2.9739929 \mathrm{e}+00,1.2155817 \mathrm{e}+00,1.3860816 \mathrm{e}+00,-1.2493133$ $5 e-04,1.09139364 e-11,1.45858603 e-04,2.6559785 e+07,3.82656301 e-02,1,0,0,1,27,0,0.0,0.00000$ $0,0.00000000,0.00000000,0.00000000,0.00000000,0.00000000,0.00000000,0.00000000,0.00000000$ $, 0.00000000,2,255,63,1,28,188,503808.0,1.865959 e-02,-8.01176229 e-09,-1.2515680 e+00,-1.789$ $0422 e+00,-2.8979620 e+00,2.26020813 \mathrm{e}-04,0.00000000,1.45861132 \mathrm{e}-04,2.6559478 \mathrm{e}+07,3.91404785$ $e-02,1,0,0,1,29,188,503808.0,1.868725 e-03,-7.63460373 e-09,-2.11039579 e-01,-1.1105178 e+00$, $-7.67346550 e-01,4.01496887 e-04,3.63797881 e-12,1.45854292 e-04,2.6560309 e+07,2.30995935 e-02$ $, 2,0,0,1,30,188,503808.0,1.084423 e-02,-8.28605943 \mathrm{e}-09,-1.4063522 e+00,1.6112075 \mathrm{e}+00,2.5846$ $224 e+00,-2.42233276 e-04,1.09139364 e-11,1.45863620 e-04,2.6559176 e+07,1.98818291 e-02,1,0,0$, $1,31,188,503808.0,8.142948 \mathrm{e}-03,-7.81746849 \mathrm{e}-09,-2.3306202 \mathrm{e}+00,-8.06011030 \mathrm{e}-01,-2.27134019$ $e-01,2.98500061 e-04,0.00000000,1.45845627 e-04,2.6561361 e+07,3.83734881 e-02,2,0,0,1,32,188$ $, 503808.0,1.163054 \mathrm{e}-02,-8.06890753 \mathrm{e}-09,1.9229509 \mathrm{e}+00,-4.07632924 \mathrm{e}-01,4.11181753 \mathrm{e}-01,-5.29$ $289246 e-04,0.00000000,1.45851638 e-04,2.6560631 e+07,7.02874791 e-03,1,0,0,1 * 7 f 4426 a 7$

### 3.1.3 CARDSTATUSB

@CARDSTATUSA, 6, COARSE, $700,325630.000,0,0,0 ;$ OPERATIONAL, NORMAL, 0, 3022, 0, 7, IOMASTER, 7, 0, 97. $7,29.0,4.948,3.316,2.489,0.000,1.796,1.490,1.188,1.060,0.742,00000000,00000000, \mathrm{DSPC}, 2,0,7$ $8.0,30.0,4.977,3.307,2.488,2.484,1.797,1.487,1.192,1.055,0.741,00000000,00000000, D S P C, 2,1$ , $92.4,29.0,4.975,3.329,2.491,2.482,1.786,1.484,1.189,1.054,0.742,00000000,00000000, \mathrm{RFCC}, 4$ $, 0,0.0,27.1,5.030,3.309,2.512,1.542,3.000,1.495,0.155,1.619 \mathrm{e}-03,8.936,00000000,00000000, R$ FCC, 4, 0, 0.0,2.5,2.493,2.481,2.491,2.495,2.491,2.490,2.482,2.487,2.494,00000000,00000000,R FCC, 4, 0, 0.0, 3.3,3.287,2.489, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 00000000, 00000000,R FDC, 4, 1, 0.0,54.6,47.687,3.209,2.448, 4.427, 0.000, 0.000, 0.000, 0.000, 0.000,00000000,00000000 , 4, 3245,0,3214,0,3245,0,3245,0*8fc89e59

### 3.1.4 CORRDATAB

@CORRDATAA, 5, COARSE, $700,325630.000,0,0,0 ; 106,19,0,0,0,1000,13,6110614,-19145,-58417,-533$, $-1185215,5875,-73133,2524,-77567,3867,-78253,1306,-45533,-4297,29771,3547,86512,7655,8026$ $3,-101,79562,-114,937695,-32412,275166,-8777,19,1,18,1,1000,13,2071133,-43675,-19681,-546$ $7,-106904,1059,-99178,1300,-92330,33296,-59056,14784,-32008,39123,19428,29350,52220,17196$ , 87828, 18913, 105706, 17733, 56252, 1505, 54743, -6027, 19, 3, 36, 74, 0, 13, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, $0,0,0,0,0,0,0,0,0,0,0,0,0,0,19,2,62,56,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,19,4,80,92,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,0,1,2,0$, $13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,1,19,3,0,13,0,0,0,0,0,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,3,37,76,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$, $0,0,0,0,0,0,0,0,0,65535,2,63,58,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$, $65535,4,81,93,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,3,0,2,4,1000,13,96$ $85448,-23153,-89470,-161,-1908978,-3337,-122154,4799,-121471,812,-128839,-3965,-54626,-33$ $09,51297,12331,137782,16166,131136,-3340,122365,-2308,1470026,-30084,440365,-15713,3,1,20$ , 5, 1000, 13, 3267343, 6261,-42363,-6699,-180134, 1599,-188677,2474,-159316, 8951,-83840,19887, $-26207,19623,28892,19657,99471,13288,146382,487,186094,10122,96626,8250,83436,-3074,3,3,3$ $8,78,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,3,2,64,60,0,13,0,0,0,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,3,4,82,94,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$, $0,0,0,0,0,0,0,0,0,21,0,3,6,1000,13,12658807,-28164,-110155,-2369,-2360823,19966,-150766,-$ $1192,-154778,1798,-159400,3528,-73328,3922,63006,11505,160943,11569,159087,3991,147939,-2$ $56,1804892,-39203,536368,-12966,21,1,21,7,1000,13,5730416,4184,-70879,-7582,-309307,-5404$ $,-311166,3407,-271420,10087,-159605,25736,-54140,9013,54866,21605,170157,3714,254099,-529$ $8,330250,-6349,168504,-13531,144049,-3304,21,3,39,80,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,0,0,0,0,0,0,21,2,65,62,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$, $21,4,83,95,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,22,0,4,8,1000,13,1377$ $2526,-44047,-138925,-3168,-2891635,13685,-186035,-1254,-188210,1839,-194510,387,-90246,-5$ $731,81973,14570,199931,16544,196953,7571,178730,4421,2233790,-63372,679899,-20251,22,1,22$ ,9,1000,13,5650559,80779,-66931,998,-297025,-8582,-335466,4474,-266453,7832,-164858,5526, $-81096,47907,61366,24933,162364,44845,244805,38488,322792,30797,172473,-3199,136885,-1315$ $0,22,3,40,82,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,22,2,66,64,0,13,0,0$ $, 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,22,4,84,96,0,13,0,0,0,0,0,0,0,0,0,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,0,0,6,0,5,10,1000,13,12276133,-116381,-113147,2177,-2416915,28422$ $,-155035,3227,-160084,5450,-162188,3356,-76888,-499,59551,17696,172677,16306,168680,6324$, $147475,-1434,1855216,-52389,567399,-19703,6,1,23,11,1000,13,4414605,16031,-62327,-973,-24$

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$5226,-4164,-259513,16647,-190499,14923,-128929,10701,-29367,29354,42023,22396,110780,2578$ $7,184928,12937,225727,16769,127859,13221,114228,7391,6,3,41,84,0,13,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,6,2,67,66,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,6,4,85,97,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,0,6,12$, $0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,1,24,13,0,13,0,0,0,0,0,0,0$ $, 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,3,42,86,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,0,0,0,0,0,0,65535,2,68,68,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,65535,4,86,98,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,8,0,7,14,1000,1$ $3,2346418,3293,-20173,1325,-485703,19529,-27220,732,-32189,447,-29862,323,-13682,1979,118$ $41,5084,36083,11412,32761,2186,29358,2491,374390,5724,102803,-3783,8,1,25,15,1000,13,2692$ $71,-13473,-1686,-6957,2907,-10279,-28689,21215,-27579,5196,2695,4795,-9259,7135,4574,7391$ , 7595,-6567,5290, 15084, 16456, 11737, 8582, 7757, -6318, -7003, 8, 3, 43, 88, 0, 13, 0, 0, 0, 0, 0, 0, 0, 0, 0 $, 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,8,2,69,70,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,0,0,8,4,87,99,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,9,0,8,16$, $1000,13,6358010,-9562,-59870,878,-1243533,22210,-77061,-3498,-79419,3225,-85500,423,-3567$ $5,-974,29328,5745,87150,6713,84064,675,76058,-740,970355,-23051,295015,-13461,9,1,26,17,1$ $000,13,1744438,-114408,-16044,-1949,-95782,6174,-85562,-4249,-76569,-11150,-51611,-4945,-$ $36306,12924,14902,11690,50121,-4538,84898,-13313,88680,-7448,52698,-10839,61571,-1051,9,3$ $, 44,90,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,9,2,70,72,0,13,0,0,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,9,4,88,100,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,0,0,0,0,0,0,24,0,9,18,1000,13,6475058,-46832,-57961,-250,-1182396,6897,-75530,46$ $3,-81480,3219,-78214,278,-38605,-1289,32164,-2768,90023,2402,84004,808,71814,-756,924571$, $-9024,292418,-2845,24,1,27,19,1000,13,1725049,-119519,-27236,2300,-96435,1937,-92587,1958$ ,-87331,17941,-63857,-3427,-29822,2943,17032,1699,41260,-11509,69796,-147,104018,763,4902 $6,10635,44370,-8443,24,3,45,92,1000,13,2923045,2228,-60098,2667,-1261928,11179,-77254,-43$ $93,-83693,9731,-81981,-1342,-37310,-2938,29933,7589,88323,8048,88822,-384,77781,1277,9405$ $64,7487,95358,-6885,24,2,71,74,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,2$ $4,4,89,101,1000,13,19371394,-76933,-280115,-2360,-1088396,-13528,-1128224,-29104,-907238$, -25589,-601130,-17081,-201842,15791,210558,25922, 612202,50757,935678, 38147,1154016,52956, $629749,16912,494469,10594,14,0,10,20,1000,13,4978841,7994,-44304,1400,-996677,7930,-63660$ $,-1721,-62218,-2001,-64286,2669,-28177,504,23791,12473,67253,7961,60486,2911,56241,5303,7$ $50437,-24197,235164,-5164,14,1,28,21,1000,13,731418,85724,-11633,-3842,-34691,-1112,-2965$ $1,7074,-19921,1863,-28603,-10857,-7488,340,-2805,1230,2290,15958,37571,6620,44364,4922,18$ $518,2177,22769,2676,14,3,46,94,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1$ $4,2,72,76,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,14,4,90,102,0,13,0,0,0$ $, 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,26,0,11,22,1000,13,5837349,25801,-57455,31$ $85,-1151132,-21097,-69338,2183,-71397,-442,-81240,-1344,-39864,2589,33898,10699,84075,643$ $1,82428,2608,68634,2311,883853,-13056,275448,-1215,26,1,29,23,1000,13,1299612,93264,-1499$ $9,10637,-65517,5660,-77521,-7742,-64605,-16899,-53606,-5442,-2871,-14211,34586,6024,41520$ $,-1265,48807,-9875,82559,-1289,44522,5391,31759,4624,26,3,47,96,0,13,0,0,0,0,0,0,0,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,26,2,73,78,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,0,26,4,91,103,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,0,1$ $2,24,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,1,30,25,0,13,0,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,3,48,98,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,0,65535,2,74,80,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$, $0,0,0,0,65535,4,92,104,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,0,1$ $3,26,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,1,31,27,0,13,0,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,3,49,100,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,0,0,0,0,0,0,0,0,0,65535,2,75,82,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,65535,4,93,105,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,15,0,14$, $28,1000,13,12624818,3705,-112596,-2270,-2316547,12213,-146476,-2407,-152655,-800,-157970$, $-7184,-74997,-6963,67197,6617,166688,12610,162071,8814,148641,5470,1815528,-45916,553139$, $-9949,15,1,32,29,1000,13,5733988,30473,-78654,1299,-299389,-4152,-332190,-10574,-239743,-$ $24002,-176361,-17430,-49498,18469,59575,10419,186891,10272,252251,-18553,316223,-4189,177$ $655,-9461,133553,-9995,15,3,50,102,1000,13,4162104,-16294,-75430,197,-1818317,9413,-11677$ $5,-1105,-124772,-1969,-116574,-3120,-43390,-9680,52811,-2949,106958,-4953,110666,-10167,1$ $00662,-2915,1356069,-10795,139680,9221,15,2,76,84,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$, $0,0,0,0,0,0,0,0,0,15,4,94,106,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,16$ $, 0,15,30,1000,13,6975303,-34536,-64236,167,-1392950,457,-89153,3556,-93063,672,-95589,-16$ $98,-40273,4396,36717,7797,97760,14056,85570,-420,88922,6389,1047408,-37677,318391,-642,16$ $, 1,33,31,1000,13,1681706,-16462,-23241,1119,-89328,-8638,-90865,7959,-67113,7640,-43427,6$ $45,-17335,24980,16196,6467,45008,11390,92839,-1060,88173,8485,47617,-370,36501,-4294,16,3$ $, 51,104,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,16,2,77,86,0,13,0,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,16,4,95,107,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0$,

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$0,0,0,0,0,0,0,0,0,0,0,0,29,0,16,32,1000,13,7786865,-29535,-72048,3160,-1541189,8665,-9598$ $2,3798,-100606,-120,-99055,-2092,-42737,-3677,41477,12879,108306,17889,99459,6691,90229,2$ $673,1174670,-8901,358503,-1727,29,1,34,33,1000,13,1559237,-51954,-29414,735,-96968,921,-9$ $2072,-4195,-60862,-9372,-51416,-17033,-19217,-3015,27997,-2360,45365,-2086,74946,-3715,83$ $809,-3638,46684,1801,37503,-9449,29,3,52,106,1000,13,1747279,-12642,-36360,-2840,-749667$, $-19854,-44532,-205,-54278,871,-50418,-2251,-23839,-6543,13370,2394,43673,-3824,51561,-268$ $1,47828,-3205,573483,-31637,58270,-4511,29,2,78,88,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,0,0,0,0,0,29,4,96,108,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1$ $8,0,17,34,1000,13,14565021,-43805,-143884,-2512,-2888217,32431,-183887,-4997,-188324,3883$ $,-192168,1067,-87226,-2863,80343,14650,199966,20573,186660,9461,175968,-3127,2201170,-315$ $18,676372,-10317,18,1,35,35,1000,13,7517148,28221,-101881,-428,-407895,-10229,-419573,355$ $73,-327503,62048,-217300,45041,-72196,75981,89630,99748,226757,90315,316568,68100,413888$, $45368,223651,14323,165292,2844,18,3,53,108,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,0,18,2,79,90,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,18,4,97,10$ $9,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,135,5,54,110,1000,13,9094227,1$ $26226,-82540,-2390,-1808504,-24473,-109876,3083,-118831,-1831,-111159,-667,-53198,3869,48$ $657,15995,110463,12925,116219,5050,110658,-4356,1363515,-37892,422138,-9164,65535,5,55,11$ $1,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,5,56,112,0,13,0,0,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,5,57,113,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,0,0,0,0,0,0,0,0,65535,5,58,114,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$, $0,0,0,0,65535,5,59,115,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,5,6$ $0,116,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,5,61,117,0,13,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,135,6,98,110,1000,13,24588418,329449,-34250$ $6,-1841,-1368699,-28188,-1423352,-26898,-1142853,6615,-747233,54037,-261625,62376,252051$, $99572,747221,81647,1120758,96577,1419201,47005,764051,12876,601955,-5724,65535,6,99,111,0$ $, 13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,6,100,112,0,13,0,0,0,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,6,101,113,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0$, $0,0,0,0,0,0,0,0,0,0,0,0,65535,6,102,114,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$, $0,0,0,0,65535,6,103,115,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,6$, $104,116,0,13,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,65535,6,105,117,0,13,0,0$ $, 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 * 0 e 0 e f 798$

### 3.1.5 CORRLOCATIONB

@CORRLOCATIONA, 7, COARSE, $700,325631.000,0,0,0 ; 106,0,13,-0.50937498,-0.49062499,-0.10156250$ $,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.101562$ $50,0.40000001,0.49062499,18,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.2001953$ $1,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.4892578$ $1,36,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.0000000$ $0,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,62,13,-0.50000000,-0$. $44843751,-0.39843750,-0.34843749,-0.10156250,-0.05156250,0.00000000,0.05156250,0.10156250$ $, 0.34687501,0.39843750,0.44843751,0.50000000,80,13,-0.51074219,-0.48925781,-0.40039063,-0$ $.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063$, $0.45019531,0.48925781,1,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0$ $.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,19$ $, 13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0$. $09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,37,13,-0.50937498,-0.4906$ $2499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.0$ $7656250,0.10156250,0.40000001,0.49062499,63,13,-0.50000000,-0.44843751,-0.39843750,-0.348$ $43749,-0.10156250,-0.05156250,0.00000000,0.05156250,0.10156250,0.34687501,0.39843750,0.44$ $843751,0.50000000,81,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09$ $960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,2,13$, $-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.0250$ $0000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,20,13,-0.51074219,-0.48925781$ $,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980$ $469,0.40039063,0.45019531,0.48925781,38,13,-0.50937498,-0.49062499,-0.10156250,-0.0765625$ $0,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.400000$ $01,0.49062499,64,13,-0.50000000,-0.44843751,-0.39843750,-0.34843749,-0.10156250,-0.051562$ $50,0.00000000,0.05156250,0.10156250,0.34687501,0.39843750,0.44843751,0.50000000,82,13,-0$. $51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.0996093$ $8,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,3,13,-0.50937498,-0.49062499,-0$. $10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250$, $0.10156250,0.40000001,0.49062499,21,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0$

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| TITLE: WAAS G-III Sample ASCII Logs |  |  |  |  |  |
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$.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0$ $.48925781,39,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0$ $.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,65,13,-0.5000$ $0000,-0.44843751,-0.39843750,-0.34843749,-0.10156250,-0.05156250,0.00000000,0.05156250,0$. $10156250,0.34687501,0.39843750,0.44843751,0.50000000,83,13,-0.51074219,-0.48925781,-0.400$ $39063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.4$ $0039063,0.45019531,0.48925781,4,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.051$ $56250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.490$ $62499,22,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.000$ $00000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,40,13,-0.50937498$ $,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.0515$ $6250,0.07656250,0.10156250,0.40000001,0.49062499,66,13,-0.50000000,-0.44843751,-0.3984375$ $0,-0.34843749,-0.10156250,-0.05156250,0.00000000,0.05156250,0.10156250,0.34687501,0.39843$ $750,0.44843751,0.50000000,84,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.200195$ $31,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.489257$ $81,5,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.0000000$ $0,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,23,13,-0.51074219,-0$. $48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531$ $, 0.29980469,0.40039063,0.45019531,0.48925781,41,13,-0.50937498,-0.49062499,-0.10156250,-0$ $.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250$, $0.40000001,0.49062499,67,13,-0.50000000,-0.44843751,-0.39843750,-0.34843749,-0.10156250,-$ $0.05156250,0.00000000,0.05156250,0.10156250,0.34687501,0.39843750,0.44843751,0.50000000,8$ $5,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0$ $.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,6,13,-0.50937498,-0.4906$ $2499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.0$ $7656250,0.10156250,0.40000001,0.49062499,24,13,-0.51074219,-0.48925781,-0.40039063,-0.299$ $80469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45$ $019531,0.48925781,42,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02$ $500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,68,13$ $,-0.50000000,-0.44843751,-0.39843750,-0.34843749,-0.10156250,-0.05156250,0.00000000,0.051$ $56250,0.10156250,0.34687501,0.39843750,0.44843751,0.50000000,86,13,-0.51074219,-0.4892578$ $1,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.2998$ $0469,0.40039063,0.45019531,0.48925781,7,13,-0.50937498,-0.49062499,-0.10156250,-0.0765625$ $0,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.400000$ $01,0.49062499,25,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.099609$ $38,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,43,13,-0$. $50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.0250000$ $0,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,69,13,-0.50000000,-0.44843751,-0$ $.39843750,-0.34843749,-0.10156250,-0.05156250,0.00000000,0.05156250,0.10156250,0.34687501$ $, 0.39843750,0.44843751,0.50000000,87,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-$ $0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531$, $0.48925781,8,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0$ $.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,26,13,-0.5107$ 4219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938, 0.00000000,0.09960938, 0. $20019531,0.29980469,0.40039063,0.45019531,0.48925781,44,13,-0.50937498,-0.49062499,-0.101$ $56250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.1$ $0156250,0.40000001,0.49062499,70,13,-0.50000000,-0.44843751,-0.39843750,-0.34843749,-0.10$ $156250,-0.05156250,0.00000000,0.05156250,0.10156250,0.34687501,0.39843750,0.44843751,0.50$ $000000,88,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00$ $000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,9,13,-0.50937498$ $,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.0515$ $6250,0.07656250,0.10156250,0.40000001,0.49062499,27,13,-0.51074219,-0.48925781,-0.4003906$ $3,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039$ $063,0.45019531,0.48925781,45,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.051562$ $50,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.490624$ $99,71,13,-0.50000000,-0.44843751,-0.39843750,-0.34843749,-0.10156250,-0.05156250,0.000000$ $00,0.05156250,0.10156250,0.34687501,0.39843750,0.44843751,0.50000000,89,13,-0.51074219,-0$ $.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.2001953$ $1,0.29980469,0.40039063,0.45019531,0.48925781,10,13,-0.50937498,-0.49062499,-0.10156250,-$ $0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250$ $, 0.40000001,0.49062499,28,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531$, $-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781$, $46,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000$, $0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,72,13,-0.50000000,-0.44$

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Verify Current Revision Prior to Use
$843751,-0.39843750,-0.34843749,-0.10156250,-0.05156250,0.00000000,0.05156250,0.10156250,0$ $.34687501,0.39843750,0.44843751,0.50000000,90,13,-0.51074219,-0.48925781,-0.40039063,-0.2$ $9980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0$. $45019531,0.48925781,11,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0$. $02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,29$, $13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.0$ $9960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,47,13,-0.50937498,-0.49062$ $499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07$ $656250,0.10156250,0.40000001,0.49062499,73,13,-0.50000000,-0.44843751,-0.39843750,-0.3484$ $3749,-0.10156250,-0.05156250,0.00000000,0.05156250,0.10156250,0.34687501,0.39843750,0.448$ $43751,0.50000000,91,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.099$ $60938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,12,13$, $-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.0250$ $0000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,30,13,-0.51074219,-0.48925781$ $,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980$ $469,0.40039063,0.45019531,0.48925781,48,13,-0.50937498,-0.49062499,-0.10156250,-0.0765625$ $0,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.400000$ $01,0.49062499,74,13,-0.50000000,-0.44843751,-0.39843750,-0.34843749,-0.10156250,-0.051562$ $50,0.00000000,0.05156250,0.10156250,0.34687501,0.39843750,0.44843751,0.50000000,92,13,-0$. $51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.0996093$ $8,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,13,13,-0.50937498,-0.49062499,-0$ $.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250$ $, 0.10156250,0.40000001,0.49062499,31,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-$ $0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531$, $0.48925781,49,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000$, $0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,75,13,-0.500$ $00000,-0.44843751,-0.39843750,-0.34843749,-0.10156250,-0.05156250,0.00000000,0.05156250,0$ $.10156250,0.34687501,0.39843750,0.44843751,0.50000000,93,13,-0.51074219,-0.48925781,-0.40$ $039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0$. $40039063,0.45019531,0.48925781,14,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.0$ $5156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.4$ $9062499,32,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.0$ $0000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,50,13,-0.509374$ $98,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05$ $156250,0.07656250,0.10156250,0.40000001,0.49062499,76,13,-0.50000000,-0.44843751,-0.39843$ $750,-0.34843749,-0.10156250,-0.05156250,0.00000000,0.05156250,0.10156250,0.34687501,0.398$ $43750,0.44843751,0.50000000,94,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.2001$ $9531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.4892$ $5781,15,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.0000$ $0000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,33,13,-0.51074219$, $-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019$ $531,0.29980469,0.40039063,0.45019531,0.48925781,51,13,-0.50937498,-0.49062499,-0.10156250$ $,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.101562$ $50,0.40000001,0.49062499,77,13,-0.50000000,-0.44843751,-0.39843750,-0.34843749,-0.1015625$ $0,-0.05156250,0.00000000,0.05156250,0.10156250,0.34687501,0.39843750,0.44843751,0.5000000$ $0,95,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.0000000$ $0,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,16,13,-0.50937498,-0$. $49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250$ $, 0.07656250,0.10156250,0.40000001,0.49062499,34,13,-0.51074219,-0.48925781,-0.40039063,-0$ $.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063$, $0.45019531,0.48925781,52,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-$ $0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,7$ $8,13,-0.50000000,-0.44843751,-0.39843750,-0.34843749,-0.10156250,-0.05156250,0.00000000,0$ $.05156250,0.10156250,0.34687501,0.39843750,0.44843751,0.50000000,96,13,-0.51074219,-0.489$ $25781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0$. $29980469,0.40039063,0.45019531,0.48925781,17,13,-0.50937498,-0.49062499,-0.10156250,-0.07$ $656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.4$ $0000001,0.49062499,35,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.0$ $9960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,53,1$ $3,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02$ $500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,79,13,-0.50000000,-0.448437$ $51,-0.39843750,-0.34843749,-0.10156250,-0.05156250,0.00000000,0.05156250,0.10156250,0.346$ $87501,0.39843750,0.44843751,0.50000000,97,13,-0.51074219,-0.48925781,-0.40039063,-0.29980$ $469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.4501$

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$9531,0.48925781,54,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.0250$ $0000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,55,13,-$ $0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500$ $000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,56,13,-0.50937498,-0.49062499$, $-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.076562$ $50,0.10156250,0.40000001,0.49062499,57,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250$ $,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.4000000$ $1,0.49062499,58,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.0250000$ $0,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,59,13,-0.5$ $0937498,-0.49062499,-0.10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000$ $, 0.05156250,0.07656250,0.10156250,0.40000001,0.49062499,60,13,-0.50937498,-0.49062499,-0$. $10156250,-0.07656250,-0.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250$, $0.10156250,0.40000001,0.49062499,61,13,-0.50937498,-0.49062499,-0.10156250,-0.07656250,-0$ $.05156250,-0.02500000,0.00000000,0.02500000,0.05156250,0.07656250,0.10156250,0.40000001,0$ $.49062499,98,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0$ $.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,99,13,-0.5107$ $4219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0$. $20019531,0.29980469,0.40039063,0.45019531,0.48925781,100,13,-0.51074219,-0.48925781,-0.40$ $039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0$. $40039063,0.45019531,0.48925781,101,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0$. $20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0$. $48925781,102,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0$ $.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0.48925781,103,13,-0.510$ $74219,-0.48925781,-0.40039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0$ $.20019531,0.29980469,0.40039063,0.45019531,0.48925781,104,13,-0.51074219,-0.48925781,-0.4$ $0039063,-0.29980469,-0.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0$ $.40039063,0.45019531,0.48925781,105,13,-0.51074219,-0.48925781,-0.40039063,-0.29980469,-0$ $.20019531,-0.09960938,0.00000000,0.09960938,0.20019531,0.29980469,0.40039063,0.45019531,0$ .48925781*07c77354

### 3.1.6 ETHSTATUSB

@ETHSTATUSA, 8, COARSE, $700,325631.000,0,0,0 ; 2,0, " 00: 21: 66: 00: 20: A 3 ", 0,100 \mathrm{MBPS}$ FULL_DUPLEX, 1 ,"00:21:66:00:20:A4",0,Not Connected*1da96433

### 3.1.7 EXCEPTIONDATAB

@EXCEPTIONDATAA, 0, UNKNOWN, $0,0.000,0,0,0 ; 0,3,0,0,0,000000000000000000000000000000000000000$ 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

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### 3.1.8 FACTORYDATAB

@FACTORYDATAA, 10, COARSE, $700,325632.000,0,0,0 ; 3,000000000000000000000000000000000000000000$ 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 000,0000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000000000,000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 000000 *57cc9216

### 3.1.9 MEASUREMENTDATAB

@MEASUREMENTDATAA, 9, COARSE, $700,325632.000,0,0,0 ; 106,19,0,0,0,00000000,24976775.640,0.492$, $3156752.029,0.006,2986.248,44.928,425.000,30.000,1002.000,00001109,19,0,18,1,00004701,249$ $76776.287,0.497,2324765.588,0.005,2326.948,43.042,305.000,2.000,949.000,00001109,19,0,36$, $74,00000303,0.000,0.000,0.000,0.000,2330.319,0.000,0.000,0.000,0.000,00000001,19,0,62,56$, $00000502,0.000,0.000,0.000,0.000,2991.660,0.000,0.000,0.000,0.000,00000001,19,0,80,92,000$ $04104,0.000,0.000,0.000,0.000,2232.682,0.000,0.000,0.000,0.000,00200001,0,1,1,2,00000000$, $0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,1,19,3,00004601,0.000,0$. $000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,1,37,76,00000303,0.000,0.000,0.0$

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$00,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,1,63,58,00000502,0.000,0.000,0.000,0.00$ $0,0.000,0.000,0.000,0.000,0.000,00000000,0,1,81,93,00004104,0.000,0.000,0.000,0.000,0.000$ $, 0.000,0.000,0.000,0.000,00000000,3,2,2,4,00000000,23174186.183,0.117,2073222.248,0.004,1$ $380.429,48.792,448.000,30.000,1198.000,00000109,3,2,20,5,00004701,23174188.925,0.278,1549$ $392.646,0.003,1075.664,42.770,347.000,2.000,1135.000,00000109,3,2,38,78,00000303,0.000,0$. $000,0.000,0.000,1082.996,0.000,0.000,0.000,0.000,00000001,3,2,64,60,00000502,0.000,0.000$, $0.000,0.000,1394.590,0.000,0.000,0.000,0.000,00000001,3,2,82,94,00004104,0.000,0.000,0.00$ $0,0.000,1036.859,0.000,0.000,0.000,0.000,00200001,21,3,3,6,00000000,21797419.002,0.068,-5$ $20609.539,0.003,-733.639,51.265,473.000,30.000,1020.000,00000109,21,3,21,7,00004701,21797$ $418.841,0.195,-395764.376,0.002,-571.662,45.611,389.000,2.000,978.000,00000109,21,3,39,80$ $, 00000303,0.000,0.000,0.000,0.000,-564.183,0.000,0.000,0.000,0.000,00000001,21,3,65,62,00$ $000502,0.000,0.000,0.000,0.000,-724.918,0.000,0.000,0.000,0.000,00000001,21,3,83,95,00004$ $104,0.000,0.000,0.000,0.000,-540.675,0.000,0.000,0.000,0.000,00000001,22,4,4,8,00000000,2$ $3081806.115,0.037,2694831.123,0.003,2504.013,51.933,475.000,30.000,1018.000,00001109,22,4$ , 22,9,00004701,23081805.154,0.099,2013326.999,0.003,1951.181,44.749,380.000,2.000,978.000 , 00001109, 22, 4, 40, 82, 00000303, 0.000, 0.000, 0.000, 0.000, 1948.018, 0.000, 0.000, 0.000, 0.000, 00 $000001,22,4,66,64,00000502,0.000,0.000,0.000,0.000,2499.067,0.000,0.000,0.000,0.000,00000$ $001,22,4,84,96,00004104,0.000,0.000,0.000,0.000,1866.850,0.000,0.000,0.000,0.000,00000001$ $, 6,5,5,10,00000000,22737456.255,0.201,940451.669,0.004,435.351,51.024,472.000,30.000,1189$ $.000,00001109,6,5,23,11,00004701,22737458.360,0.334,701168.764,0.002,339.240,43.485,373.0$ $00,2.000,1140.000,00001109,6,5,41,84,00000303,0.000,0.000,0.000,0.000,348.161,0.000,0.000$ , 0.000, 0.000, 00000001, 6, 5, 67, 66, 00000502, 0.000, 0.000, 0.000, 0.000, 449.965, 0.000, 0.000, 0.00 $0,0.000,00000001,6,5,85,97,00004104,0.000,0.000,0.000,0.000,331.768,0.000,0.000,0.000,0.0$ $00,00200001,0,6,6,12,00000000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000$ $000,0,6,24,13,00004601,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,6$ , 42, 86, 00000303, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 00000000, 0, 6, 68, 68, $00000502,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,6,86,98,0000410$ $4,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,8,7,7,14,00000000,266333$ $39.887,0.098,-1266058.403,0.021,-1417.039,36.426,331.000,30.000,1198.000,00001109,8,7,25$, $15,00004701,26633341.102,5.098,-962648.832,0.041,-1104.187,32.119,178.000,2.000,1134.000$, $00001109,8,7,43,88,00000303,0.000,0.000,0.000,0.000,-1103.749,0.000,0.000,0.000,0.000,000$ $00001,8,7,69,70,00000502,0.000,0.000,0.000,0.000,-1413.696,0.000,0.000,0.000,0.000,000000$ $01,0,7,87,99,00004104,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0000000,9,8$, $8,16,00000000,25113470.648,0.248,3286661.254,0.008,2557.563,45.206,409.000,30.000,1195.00$ $0,00001109,9,8,26,17,00004701,25113475.636,0.088,2464185.424,0.010,1992.906,40.581,288.00$ $0,2.000,1134.000,00001109,9,8,44,90,00000303,0.000,0.000,0.000,0.000,1988.136,0.000,0.000$ , $0.000,0.000,00000001,9,8,70,72,00000502,0.000,0.000,0.000,0.000,2550.525,0.000,0.000,0.0$ $00,0.000,00000001,0,8,88,100,00004104,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.0$ $00,00000000,24,9,9,18,00000000,26105684.974,0.189,2937338.869,0.006,2998.634,45.309,433.0$ $00,30.000,964.000,00001109,24,9,27,19,00004701,26105692.727,0.131,2182212.156,0.009,2336$. $594,40.491,278.000,2.000,919.000,00001109,24,9,45,92,00000203,26105692.132,0.185,793839.9$ $77,0.011,2336.618,41.402,375.000,30.000,338.000,00000109,0,9,71,74,00000502,0.000,0.000,0$ $.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,24,9,89,101,00004104,26105691.036,0.121$ , 1537848.553, 0.005,2239.237,45.583,437.000,30.000,679.000,00001109,14,10,10,20,00000000,2 $6238209.842,0.418,1421249.277,0.006,3818.879,43.180,427.000,30.000,373.000,00000109,14,10$ , 28, 21, 00004701,26238215.288,1.706,983938.216,0.020,2975.752,35.652,225.000,2.000,331.000 $, 00000109,14,10,46,94,00000303,0.000,0.000,0.000,0.000,2975.192,0.000,0.000,0.000,0.000,0$ $0000001,0,10,72,76,00000502,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0000000$ $0,14,10,90,102,00004104,0.000,0.000,0.000,0.000,2851.237,0.000,0.000,0.000,0.000,00000001$ $, 26,11,11,22,00000000,24770322.879,0.481,-3244372.689,0.008,-3436.206,44.559,404.000,30.0$ $00,1015.000,00001109,26,11,29,23,00004701,24770326.422,0.195,-2446283.186,0.012,-2677.559$ $, 39.004,259.000,2.000,979.000,00001109,26,11,47,96,00000303,0.000,0.000,0.000,0.000,-2679$ $.830,0.000,0.000,0.000,0.000,00000001,26,11,73,78,00000502,0.000,0.000,0.000,0.000,-3435$. $269,0.000,0.000,0.000,0.000,00000001,26,11,91,103,00004104,0.000,0.000,0.000,0.000,-2568$. $171,0.000,0.000,0.000,0.000,00000001,0,12,12,24,00000000,0.000,0.000,0.000,0.000,0.000,0$. $000,0.000,0.000,0.000,00000000,0,12,30,25,00004601,0.000,0.000,0.000,0.000,0.000,0.000,0$. $000,0.000,0.000,00000000,0,12,48,98,00000303,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0$. $000,0.000,00000000,0,12,74,80,00000502,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0$. $000,00000000,0,12,92,104,00004104,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0$ $0000000,0,13,13,26,00000000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0000000$ $0,0,13,31,27,00004601,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,13$ , 49, 100, 00000303, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 0.000, 00000000, 0, 13, 75, 8 $2,00000502,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,13,93,105,000$ $04104,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,15,14,14,28,00000000$

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,22794681.072,0.157,-1286648.335,0.004,-1470.769,51.285,467.000,30.000,1196.000,00001109, $15,14,32,29,00004701,22794683.252,0.034,-980148.895,0.003,-1146.048,45.429,392.000,2.000$, $1135.000,00001109,15,14,50,102,00000203,22794684.011,0.174,-996649.066,0.008,-1146.046,44$ $.561,405.000,30.000,1066.000,00000109,15,14,76,84,00000502,0.000,0.000,0.000,0.000,-1475$. $671,0.000,0.000,0.000,0.000,00000001,15,14,94,106,00004104,0.000,0.000,0.000,0.000,-1101$. $962,0.000,0.000,0.000,0.000,00000001,16,15,15,30,00000000,25858608.300,0.219,-2943706.169$ $, 0.005,-2701.157,46.214,434.000,30.000,1194.000,00001109,16,15,33,31,00004701,25858611.11$ $2,0.225,-2227868.043,0.007,-2104.791,39.207,272.000,2.000,1138.000,00001109,16,15,51,104$, $00000303,0.000,0.000,0.000,0.000,-2099.293,0.000,0.000,0.000,0.000,0000001,16,15,77,86,0$ $0000502,0.000,0.000,0.000,0.000,-2692.932,0.000,0.000,0.000,0.000,00000001,16,15,95,107,0$ $0004104,0.000,0.000,0.000,0.000,-2010.956,0.000,0.000,0.000,0.000,00000001,29,16,16,32,00$ $000000,26190873.024,0.131,-3927946.624,0.005,-3894.691,46.994,448.000,30.000,1012.000,000$ $01109,29,16,34,33,00004701,26190878.281,0.424,-2908564.918,0.007,-3034.820,37.606,274.000$ $, 2.000,961.000,00001109,29,16,52,106,00000203,26190878.088,0.087,-2418601.088,0.020,-3034$ $.821,36.875,329.000,30.000,799.000,00000109,29,16,78,88,00000502,0.000,0.000,0.000,0.000$, $-3894.015,0.000,0.000,0.000,0.000,00000001,29,16,96,108,00004104,0.000,0.000,0.000,0.000$, $-2907.836,0.000,0.000,0.000,0.000,00000001,18,17,17,34,00000000,21631754.017,0.201,983349$ $.894,0.003,596.890,52.473,480.000,30.000,1195.000,00001109,18,17,35,35,00004701,21631754$. $476,0.212,735492.036,0.002,465.113,46.899,406.000,2.000,1138.000,00001109,18,17,53,108,00$ $000303,0.000,0.000,0.000,0.000,461.893,0.000,0.000,0.000,0.000,00200001,18,17,79,90,00000$ $502,0.000,0.000,0.000,0.000,592.763,0.000,0.000,0.000,0.000,00200001,18,17,97,109,0000410$ $4,0.000,0.000,0.000,0.000,443.863,0.000,0.000,0.000,0.000,00000001,135,18,54,110,00000005$ $, 39782655.727,0.330,2861.245,0.007,2.330,48.312,454.000,30.000,1199.000,00001309,0,19,55$, $111,00000005,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,20,56,112,0$ $0000005,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,21,57,113,000000$ $05,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,22,58,114,00000005,0$. $000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,23,59,115,00000005,0.000,0$ $.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,24,60,116,00000005,0.000,0.000$, $0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,25,61,117,00000005,0.000,0.000,0.000$ $, 0.000,0.000,0.000,0.000,0.000,0.000,00000000,135,26,98,110,00004006,39782630.142,0.099,2$ $136.489,0.006,1.796,47.735,464.000,30.000,1194.000,00001309,0,27,99,111,00004006,0.000,0$. $000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,28,100,112,00004006,0.000,0.000$, $0.000,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,29,101,113,00004006,0.000,0.000,0.00$ $0,0.000,0.000,0.000,0.000,0.000,0.000,00000000,0,30,102,114,00004006,0.000,0.000,0.000,0$. $000,0.000,0.000,0.000,0.000,0.000,00000000,0,31,103,115,00004006,0.000,0.000,0.000,0.000$, $0.000,0.000,0.000,0.000,0.000,00000000,0,32,104,116,00004006,0.000,0.000,0.000,0.000,0.00$ $0,0.000,0.000,0.000,0.000,00000000,0,33,105,117,00004006,0.000,0.000,0.000,0.000,0.000,0$. $000,0.000,0.000,0.000,00000000 * 55 c 5 f e 7 d$

### 3.1.10 RAWFRAMEDATAB

@RAWFRAMEDATAA, $18, \operatorname{SATTIME}, 700,325620.000,0,0,0 ; 50,102,15,3,0,0000,1,300,40,8 \mathrm{~b} 3 \mathrm{c} 06 \mathrm{a} 002 \mathrm{aa}$ aa aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa56849700000*87c4eb59

### 3.1.11 RXCOMMANDSB

@RXCOMMANDSA, 44, COARSE, 700,325640.000,0,0,0;80,"AGCMODE L1 AUTO","AGCMODE L2 AUTO","AGCMODE L5 AUTO","ANTENNAPOWER OFF","ASSIGN 18 ACTIVE $1350500 ", " A S S I G N 26$ ACTIVE 1350 500", "CHANCONFIG 18GPSALL8GEO","CORRSPACING L1GEO $180.1 ", " C O R R S P A C I N G ~ L 1 G E O ~ 19$ 0.1","CORRSPACING L1GEO 20 0.1","CORRSPACING L1GEO 21 0.1","CORRSPACING L1GEO 22 0.1","CORRSPACING L1GEO 23 0.1","CORRSPACING L1GEO 24 0.1","CORRSPACING L1GEO 25 0.1","DLLBW L1CA 0.200000 ", "DLLBW L1GEO 0.200000 ", "DLLBW L1C 0.200000 , "DLLBW L2C 0.200000 ","DLLBW L2PY 0.200000 ","DLLBW L5GPS 0.200000 ","DLLBW L5GEO 0.200000 ","ECUTOFF 0.000000 ", "ETHCONFIG ETHA 100 FULL MDI", "ETHCONFIG ETHB AUTO AUTO AUTO","FIX POSITION $51.000000-114.0000001000 .000000 ", " I P C O N F I G E T H B$ STATIC 0.0.0.0 0.0.0.0 0.0.0.0","IPCONFIG ETHA STATIC 192.168.0.10 255.255.255.0 0.0.0.0","ICOMCONFIG ICOM1 UDP 0.0.0.0:3000 ETHA","ICOMCONFIG ICOM2 DISABLED","LOG ICOM2 CARDSTATUSB ONTIME 1","LOG ICOM2 FACTORYDATAB ONTIME 1","LOG ICOM2 MEASUREMENTDATAB ONTIME 1","LOG ICOM2 AGCINFOB ONTIME 1","LOG ICOM2 RAWFRAMEDATAB ONNEW","LOG ICOM2 VERSIONB ONTIME 500","LOG ICOM2 RXCOMMANDSB ONTIME 600","LOG ICOM2 ETHSTATUSB ONTIME 500","PLLDYNAMIC L1CA FALSE 3.0000000 .00000000 .000000 0", "PLLDYNAMIC L1C FALSE $3.000000 \quad 0.00000000 .000000$ 0","PLLDYNAMIC L2C FALSE 3.0000000 .00000000 .000000 0","PLLDYNAMIC L5GPS FALSE 3.0000000 .00000000 .000000 ", "PLLDYNAMIC L2PY FALSE 0.2000000 .00000000 .000000

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0","PLLDYNAMIC L1GEO FALSE 3.0000000 .00000000 .0000000 ", "PLLDYNAMIC L5GEO FALSE 3.0000000 .00000000 .000000 " ", "PULSEBLANKING L1 95 2", "PULSEBLANKING L2 95 2", "PULSEBLANKING L5 95 2", "RFATTEN 0", "RFIFTEMP ON", "TRACKMODE STANDARD GPS", "TRACKTYPE L5GEO 26 I5", "TRACKTYPE L5GEO 27 I5", "TRACKTYPE L5GEO 28 I5", "TRACKTYPE L5GEO 29 I5", "TRACKTYPE L5GEO 30 I5", "TRACKTYPE L5GEO 31 I5", "TRACKTYPE L5GEO 32 I5", "TRACKTYPE L5GEO 33 I5", "THRESHOLD L1CA $362036 ", " T H R E S H O L D ~ L 1 C ~ 362010 ", " T H R E S H O L D ~ L 2 C ~ 36 ~ 20 ~$ 10", "THRESHOLD L2PY 3010 10", "THRESHOLD L5GPS 3620 36","THRESHOLD L1GEO 362636 18", "THRESHOLD L1GEO 3626 36 19", "THRESHOLD L1GEO 362636 20", "THRESHOLD L1GEO 3626 36 21", "THRESHOLD LIGEO 362636 22", "THRESHOLD L1GEO 362636 23", "THRESHOLD L1GEO 3626 36 24", "THRESHOLD LIGEO 362636 25", "THRESHOLD L5GEO $36263626 ", " T H R E S H O L D ~ L 5 G E O ~ 36 ~ 26 ~ 36 ~$ 27", "THRESHOLD L5GEO 362636 28", "THRESHOLD L5GEO 362636 29", "THRESHOLD L5GEO 3626 36 30", "THRESHOLD L5GEO 362636 31", "THRESHOLD L5GEO $36263632 "$ "THRESHOLD L5GEO 3626 36 33"*492db888

### 3.1.12 SATPOSB

@SATPOSA, 43, COARSE, $700,325640.000,0,0,0 ; G P S$, TRUE, TRUE, $31,1,0,2,0,0,-100.0,-1000.0,0.000,0$ $,-100.0,-1000.0,2847.088,2,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,-2822.353,3,0,0$, $0,0,33.5,-59.8,1382.208,0,33.5,-59.8,1382.384,4,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-10$ $00.0,-1079.495,5,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,-3432.458,6,0,0,0,0,45.9,-$ $78.7,438.803,0,45.9,-78.7,438.596,7,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,-2727.2$ $04,8,0,0,0,0,2.1,1.4,-1423.128,0,2.1,1.4,-1423.147,9,0,0,0,0,13.8,84.4,2546.249,0,13.8,84$ $.4,2545.938,10,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,-2173.745,11,0,2,0,0,-100.0$, $-1000.0,0.000,0,-100.0,-1000.0,3601.566,12,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0$, $301.656,13,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,-1813.386,14,0,0,0,0,5.2,-169.0$, $3818.083,0,5.2,-169.0,3818.247,15,0,0,0,0,43.9,67.3,-1483.764,0,43.9,67.3,-1484.293,16,0$, $0,0,0,11.6,-95.8,-2697.203,0,11.6,-95.8,-2696.985,17,0,2,0,0,-100.0,-1000.0,0.000,0,-100$. $0,-1000.0,1283.169,18,0,0,0,0,80.5,-123.4,589.687,0,80.5,-123.4,589.100,19,0,0,0,0,17.8,-$ $41.9,2986.734,0,17.9,-41.9,2986.594,20,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,1897$ $.625,21,0,0,0,0,71.4,121.3,-729.952,0,71.4,121.3,-729.777,22,0,0,0,0,41.6,-114.8,2496.661$ $, 0,41.6,-114.8,2496.103,23,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,-346.556,24,0,0$, $0,0,6.9,111.8,2992.095,0,6.9,111.8,2992.493,25,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-100$ $0.0,-1089.387,26,0,0,0,0,15.4,37.3,-3443.856,0,15.4,37.3,-3444.229,28,0,2,0,0,-100.0,-100$ $0.0,0.000,0,-100.0,-1000.0,2623.899,29,0,0,0,0,5.1,164.8,-3893.871,0,5.1,164.8,-3893.914$, $30,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,-3262.582,31,0,2,0,0,-100.0,-1000.0,0.00$ $0,0,-100.0,-1000.0,227.352,32,0,2,0,0,-100.0,-1000.0,0.000,0,-100.0,-1000.0,2877.044 * 238 a$ 8 cb 2

### 3.1.13 TIMESOLUTIONB

@TIMESOLUTIONA, 45, COARSE, $700,325641.000,0,0,0$; NOT COMPUTED, $0,0.000000000,0.000000000,0.00$ $0000000,0,18,0,0,19,0,00000002,1068719.250,-102656.132812500,3.417,6.936,-12010482.971,10$ $229233.737,21228562.737,1,1,0,0,00000089,0.000,0.000000000,0.000,0.000,0.000,0.000,0.000$, $2,2,3,0,00000002,1072233.125,47605.222656250,2.473,3.878,-16416070.959,2352003.997,202877$ $94.590,3,3,21,0,00000002,1082468.875,-82828.093750000,1.556,2.266,-2586861.363,-19658836$. $698,17947610.483,4,4,22,0,00000002,1081827.750,46904.023437500,2.138,3.227,-21236360.602$, $-10920689.098,11949046.469,5,5,6,0,00000002,1076001.250,113246.484375000,1.996,2.984,-182$ $76321.945,-4548938.120,18950251.371,6,6,0,0,00000089,0.000,0.000000000,0.000,0.000,0.000$, $0.000,0.000,7,7,8,0,00000041,1066725.625,1272.240844727,4.839,37.149,6754548.835,13644213$ $.390,21771298.960,8,8,9,0,00000002,1080956.375,64689.964843750,3.732,8.844,18883369.434,-$ $14828574.034,10851051.498,9,9,24,0,00000041,1086841.750,46.336467743,4.349,16.753,1575382$ $4.723,-21316218.547,1461785.306,10,10,14,0,00000041,1091747.375,65913.328125000,4.512,21$. $101,-14398040.072,-20513849.640,-8810369.406,11,11,26,0,00000002,1071234.750,-38315.24218$ $7500,3.606,7.988,15124895.388,-59533.442,21247092.592,12,12,0,0,00000089,0.000,0.00000000$ $0,0.000,0.000,0.000,0.000,0.000,13,13,0,0,00000089,0.000,0.000000000,0.000,0.000,0.000,0$. $000,0.000,14,14,15,0,00000002,1077773.375,-31798.189453125,2.060,3.091,9570361.158,-13934$ $236.310,20410519.937,15,15,16,0,00000002,1078278.500,-75542.867187500,3.917,10.418,-25686$ $662.871,1502779.915,7240781.841,16,16,29,0,00000041,1092742.875,120164.625000000,4.532,21$ $.759,-3847552.601,-24824941.453,-8633371.754,17,17,18,0,00000002,1080393.000,70700.390625$ $000,1.513,2.177,-10036706.009,-15562842.109,19540298.098, * 2 c 422650$

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Verify Current Revision Prior to Use

### 3.1.14 SOFTLOADSTATUSB

@SOFTLOADSTATUSA, 46, COARSE, 700, 325641.000,0,0,0;NOT_STARTED, "*b9a6bb98

### 3.1.15 VERSIONB

@VERSIONA, 47, COARSE, 700,325642.000,0,0,0;5,IOMASTER,7,0,"DJV12190001","G3IOM-2.01", "AW3IA 0000AN0022","AG3IB0000RB0000","","","Jan 22 2013", "16:47:57","","","", RFCC, 4,0, "DKF12280024", "G3RFCC13-2.00","","","", "G3RFCCFPGA-7", "", "", "", "", "", RFDC, 4, 1, "DKE12270024", "G3RFDCG3-1.01", "", "", "", "", "", "", "", "", "", DSPC, 2, 0 ,"DJJ12300005", "G3DSPC-1.01", "AW3DA0000AN0022", "AG3DB0000RB0000", "AG3NA0000DN0004", "G3DSP CFPGA-10","Jan 22
2013", "16:49:50", "", "", "", DSPC, 2, 1, "DJJ12300005", "G3DSPC-1.01", "AW3DA0000AN0022", "AG3DB00 00RB0000", "AG3NA0000DN0004","G3DSPCFPGA-10","Jan 22 2013","16:49:50","","",""*bbc0bc64

### 3.2 Legacy Logs

### 3.2.1 ALLSQMIB

\#ALLSQMIA, NO_PORTS, $0,0.0$, COARSE, $700,325642.000,00000000,0000,0 ; 106,19,0,13,3099987,321876$ $1,5722845,58 \overline{7} 7455,6042575,6204357,6283461,6212015,6047489,5883905,5734153,3840885,3271725$ , 19, 18, 13, 1265381, 1302597,1553725,1769121,1909761,1983491,2042605,1977439,1838283,1670691 , 1432567,1307669, 1223679, 19, 36, 13, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 19, 62, 13, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, $0,0,0,19,80,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,1,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,19,13,0,0,0$ $, 0,0,0,0,0,0,0,0,0,0,-1,37,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,63,13,0,0,0,0,0,0,0,0,0,0,0,0$, $0,-1,81,13,0,0,0,0,0,0,0,0,0,0,0,0,0,3,2,13,4806138,4993858,8783622,9017792,9263800,95130$ $86,9630778,9528460,9257290,8999250,8769602,5905780,4988952,3,20,13,1869257,1951399,232615$ $3,2676953,2953933,3114163,3179545,3103027,2906071,2602753,2272837,2086729,1934993,3,38,13$ $, 0,0,0,0,0,0,0,0,0,0,0,0,0,3,64,13,0,0,0,0,0,0,0,0,0,0,0,0,0,3,82,13,0,0,0,0,0,0,0,0,0,0$, $0,0,0,21,3,13,6756048,6979082,11676630,11976944,12274186,12579876,12714426,12581422,12247$ $568,11922092,11634210,8030490,6922404,21,21,13,3313798,3485032,4126052,4781696,5309918,56$ $82612,5815538,5712278,5358194,4872108,4196420,3845866,3549396,21,39,13,0,0,0,0,0,0,0,0,0$, $0,0,0,0,21,65,13,0,0,0,0,0,0,0,0,0,0,0,0,0,21,83,13,0,0,0,0,0,0,0,0,0,0,0,0,0,22,4,13,645$ $1761,6727019,12518037,12881949,13253925,13657777,13836095,13682785,13281449,12880987,1253$ $1007,8080875,6720865,22,22,13,3397989,3534063,4161729,4770143,5286033,5635829,5747253,565$ $0307,5300177,4758925,4057497,3700223,3408839,22,40,13,0,0,0,0,0,0,0,0,0,0,0,0,0,22,66,13$, $0,0,0,0,0,0,0,0,0,0,0,0,0,22,84,13,0,0,0,0,0,0,0,0,0,0,0,0,0,6,5,13,6142077,6373881,11218$ $733,11521893,11825887,12156483,12308303,12175399,11830263,11492429,11194825,7412741,62606$ $77,6,23,13,2616992,2734808,3259170,3758576,4124938,4418780,4468834,4359408,4085220,372137$ $8,3232688,2990014,2764770,6,41,13,0,0,0,0,0,0,0,0,0,0,0,0,0,6,67,13,0,0,0,0,0,0,0,0,0,0,0$ $, 0,0,6,85,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,6,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,24,13,0,0,0,0$ $, 0,0,0,0,0,0,0,0,0,-1,42,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,68,13,0,0,0,0,0,0,0,0,0,0,0,0,0$, $-1,86,13,0,0,0,0,0,0,0,0,0,0,0,0,0,8,7,13,1001022,1038734,1909048,1962026,2012472,2070538$ , 2100276,2086966,2019046,1960130,1901882,1207958,1008346,8,25,13,142189,136865,160239,166 $859,200571,214331,224733,219507,202847,167661,137749,101497,93621,8,43,13,0,0,0,0,0,0,0,0$ $, 0,0,0,0,0,8,69,13,0,0,0,0,0,0,0,0,0,0,0,0,0,8,87,13,0,0,0,0,0,0,0,0,0,0,0,0,0,9,8,13,310$ $8565,3225395,5640261,5801249,5960591,6119665,6189925,6114977,5944325,5779977,5628607,3760$ $009,3189191,9,26,13,971746,1024836,1214522,1389324,1523580,1637314,1674240,1645422,153097$ $2,1375646,1204080,1099898,1018680,9,44,13,0,0,0,0,0,0,0,0,0,0,0,0,0,9,70,13,0,0,0,0,0,0,0$ $, 0,0,0,0,0,0,9,88,13,0,0,0,0,0,0,0,0,0,0,0,0,0,24,9,13,3663133,3778799,6274873,6425867,65$ $95157,6762767,6842877,6766387,6582901,6412225,6243741,4319695,3701355,24,27,13,1103994,11$ $46560,1354734,1537056,1706918,1781274,1816482,1768624,1686076,1524326,1290308,1178856,108$ $3960,24,45,13,-183087,-57441,2354049,2487913,2636801,2796413,2857631,2794563,2620695,2450$ $033,2288943,394491,183087,24,71,13,0,0,0,0,0,0,0,0,0,0,0,0,0,24,89,13,11483019,12038523,1$ $4296529,16638021,18476311,19738327,20173371,19729543,18501959,16604119,14247767,12991215$, $11969007,14,10,13,2500443,2599557,4560433,4689797,4820033,4953219,5016555,4962779,4828007$ , 4697473, 4580699, 3027429, 2569035, 14, 28, 13, 354488, 377564,495172,558628, 604642, 654656, 69659 $2,697140,644782,603890,532834,500864,490476,14,46,13,0,0,0,0,0,0,0,0,0,0,0,0,0,14,72,13,0$ $, 0,0,0,0,0,0,0,0,0,0,0,0,14,90,13,0,0,0,0,0,0,0,0,0,0,0,0,0,26,11,13,2896636,3002672,5275$ $118,5423656,5562184,5720092,5776292,5720716,5558710,5417748,5277628,3526060,2986796,26,29$ ,13,734511,769351,916947,1014403,1136025,1224433,1255161,1225763,1119569,993611,865539,78 $7131,722603,26,47,13,0,0,0,0,0,0,0,0,0,0,0,0,0,26,73,13,0,0,0,0,0,0,0,0,0,0,0,0,0,26,91,1$

## NovAtel Inc. <br> Calgary, Alberta <br> Proprietary Data

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Verify Current Revision Prior to Use
$3,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,12,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,30,13,0,0,0,0,0,0,0,0,0$ $, 0,0,0,0,-1,48,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,74,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,92,13,0$ $, 0,0,0,0,0,0,0,0,0,0,0,0,-1,13,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,31,13,0,0,0,0,0,0,0,0,0,0$, $0,0,0,-1,49,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,75,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,93,13,0,0$, $0,0,0,0,0,0,0,0,0,0,0,15,14,13,6783520,7018604,11759864,12061528,12365160,12681964,128290$ $14,12697728,12352148,12029510,11746466,8065876,6935610,15,32,13,3422314,3570408,4209044,4$ $829586,5305664,5622318,5743182,5604828,5235956,4747820,4101540,3743212,3469352,15,50,13,-$ $429011,-253203,3354855,3575267,3816499,4041963,4129337,4040919,3815979,3609813,3404295,69$ $6759,429011,15,76,13,0,0,0,0,0,0,0,0,0,0,0,0,0,15,94,13,0,0,0,0,0,0,0,0,0,0,0,0,0,16,15,1$ $3,3539390,3674754,6428922,6605124,6781006,6964796,7038548,6958314,6762966,6572706,6395642$ , 4232590, 3597252, 16, 33,13,981132,1026886,1189558,1366884,1515336,1603778,1656140,1609576, $1480660,1330564,1134690,1039458,950418,16,51,13,0,0,0,0,0,0,0,0,0,0,0,0,0,16,77,13,0,0,0$, $0,0,0,0,0,0,0,0,0,0,16,95,13,0,0,0,0,0,0,0,0,0,0,0,0,0,29,16,13,3625333,3770673,6704979,6$ $889127,7072327,7274241,7360255,7289357,7080761,6901221,6718149,4543839,3870841,29,34,13,6$ $27318,683064,863400,1048416,1186518,1299860,1360102,1387992,1304200,1186090,1060642,97108$ $0,894872,29,52,13,-132675,-54789,1283883,1367683,1452145,1544441,1580247,1533445,1438681$, $1340949,1255285,223431,132675,29,78,13,0,0,0,0,0,0,0,0,0,0,0,0,0,29,96,13,0,0,0,0,0,0,0,0$ $, 0,0,0,0,0,18,17,13,7270298,7548020,13332012,13702208,14072208,14465188,14638756,14476624$ , 14058692,13681074,13330558, 8901920, 7538946,18, 35,13,4481649,4667035,5464795,6355169,7015 $325,7402971,7578197,7399611,6949395,6270133,5435075,4995213,4658629,18,53,13,0,0,0,0,0,0$, $0,0,0,0,0,0,0,18,79,13,0,0,0,0,0,0,0,0,0,0,0,0,0,18,97,13,0,0,0,0,0,0,0,0,0,0,0,0,0,135,5$ $4,13,4490477,4664819,8303875,8528909,8756089,8977459,9078339,8981491,8745505,8516851,8302$ $747,5554655,4709557,-1,55,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,56,13,0,0,0,0,0,0,0,0,0,0,0,0,0$ $,-1,57,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,58,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,59,13,0,0,0,0,0$ $, 0,0,0,0,0,0,0,0,-1,60,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,61,13,0,0,0,0,0,0,0,0,0,0,0,0,0,13$ $5,98,13,14424037,15086195,17867889,20721115,22980693,24396015,24848507,24228543,22653667$, $20367683,17496267,15965853,14730625,-1,99,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,100,13,0,0,0,0$, $0,0,0,0,0,0,0,0,0,-1,101,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,102,13,0,0,0,0,0,0,0,0,0,0,0,0,0$ $,-1,103,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,104,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,105,13,0,0,0$, $0,0,0,0,0,0,0,0,0,0 * 4 b 98 c 94 a$

### 3.2.2 ALLSQMQB

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$8,-47862,-46772,-41278,24,71,13,0,0,0,0,0,0,0,0,0,0,0,0,0,24,89,13,-291041,-282953,-21681$ $9,-92763,8715,113045,152629,153899,99161,-8941,-79157,-138481,-156611,14,10,13,11396,8392$ $,-5850,-3738,-334,13338,8422,1184,-16524,-21542,-17420,92914,122788,14,28,13,-32889,-2037$ $1,13111,14877,18433,17027,-9003,9039,31539,46103,29589,26819,33557,14,46,13,0,0,0,0,0,0,0$ $, 0,0,0,0,0,0,14,72,13,0,0,0,0,0,0,0,0,0,0,0,0,0,14,90,13,0,0,0,0,0,0,0,0,0,0,0,0,0,26,11$, $13,37109,31953,19767,22041,19711,22617,28239,20387,13673,12807,20811,84329,102507,26,29,1$ $3,-5353,-2417,31361,33215,17947,6045,-2471,-13705,-16323,-15289,329,4405,-1975,26,47,13,0$ $, 0,0,0,0,0,0,0,0,0,0,0,0,26,73,13,0,0,0,0,0,0,0,0,0,0,0,0,0,26,91,13,0,0,0,0,0,0,0,0,0,0$, $0,0,0,-1,12,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,30,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,48,13,0,0$, $0,0,0,0,0,0,0,0,0,0,0,-1,74,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,92,13,0,0,0,0,0,0,0,0,0,0,0,0$ $, 0,-1,13,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,31,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,49,13,0,0,0,0$ $, 0,0,0,0,0,0,0,0,0,-1,75,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,93,13,0,0,0,0,0,0,0,0,0,0,0,0,0$, $15,14,13,11873,5249,4237,3497,-8641,673,19873,26081,24587,30331,35539,105043,84397,15,32$, $13,-10360,-10188,9526,30814,65876,92522,97716,92166,99738,86720,110232,139044,148506,15,5$ $0,13,-35698,-46884,-40226,-36256,-31422,-22596,-11338,-7960,19538,37408,54834,47816,35698$ $, 15,76,13,0,0,0,0,0,0,0,0,0,0,0,0,0,15,94,13,0,0,0,0,0,0,0,0,0,0,0,0,0,16,15,13,28010,218$ $76,14760,17472,3588,5084,3484,-12030,-36416,-36432,-29700,25638,20388,16,33,13,118332,118$ $850,143484,139078,118974,112804,83100,66756,27104,22254,-22872,3040,-2124,16,51,13,0,0,0$, $0,0,0,0,0,0,0,0,0,0,16,77,13,0,0,0,0,0,0,0,0,0,0,0,0,0,16,95,13,0,0,0,0,0,0,0,0,0,0,0,0,0$ , 29, 16, 13, -889, 1405, 5751, 6555, 1053, 5005, 7703,-7571,-44463,-63315,-77797,-73891,-73683,29, $34,13,-24646,-30934,-3930,16116,26552,814,31130,17052,6418,14022,-1238,11582,17460,29,52$, $13,-43601,-39471,-28973,-18899,-21983,-17875,-17543,-16553,-8477,917,6439,72861,43601,29$, $78,13,0,0,0,0,0,0,0,0,0,0,0,0,0,29,96,13,0,0,0,0,0,0,0,0,0,0,0,0,0,18,17,13,32713,37843,3$ $1649,30115,29031,31345,35815,11927,-26497,-43455,-42317,43381,69587,18,35,13,577013,57857$ $1,572025,547101,462795,340751,193159,21693,-171115,-341333,-478035,-530777,-581075,18,53$, $13,0,0,0,0,0,0,0,0,0,0,0,0,0,18,79,13,0,0,0,0,0,0,0,0,0,0,0,0,0,18,97,13,0,0,0,0,0,0,0,0$, $0,0,0,0,0,135,54,13,50464,45246,141842,143084,169506,175220,168584,136046,107846,103878,1$ $08816,143912,152516,-1,55,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,56,13,0,0,0,0,0,0,0,0,0,0,0,0,0$ $,-1,57,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,58,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,59,13,0,0,0,0,0$ $, 0,0,0,0,0,0,0,0,-1,60,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,61,13,0,0,0,0,0,0,0,0,0,0,0,0,0,13$ $5,98,13,395474,407214,499136,521844,481048,424152,299196,141936,-30694,-160860,-240298,-2$ $73678,-292968,-1,99,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,100,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,1$ $01,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,102,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,103,13,0,0,0,0,0,0$ $, 0,0,0,0,0,0,0,-1,104,13,0,0,0,0,0,0,0,0,0,0,0,0,0,-1,105,13,0,0,0,0,0,0,0,0,0,0,0,0,0 * 24$ 559c62

### 3.2.3 RANGEB

\#RANGEA, NO_PORTS, 0, 0.0, COARSE, 700, 325645.000,00000000,0000,0;29,19,0,24969394.224,0.182,3 $195542.482,0.006,2981.525,45.2,1015.000,00101 \mathrm{c} 04,19,0,24969395.123,1.102,2354991.901,0.00$ $6,2323.269,43.0,962.000,01301 \mathrm{c} 0 \mathrm{~b}, 3,0,23170782.108,0.282,2091110.415,0.004,1371.575,48.7,1$ $211.000,00101 \mathrm{c} 44,3,0,23170784.861,0.619,1563331.473,0.003,1068.765,42.9,1148.000,01301 \mathrm{c} 4 \mathrm{~b}$ , 21, 0, 21799240.626, 0.481, $-530184.238,0.003,-739.392,51.2,1033.000,00101 \mathrm{c} 64,21,0,21799240$. $953,0.305,-403225.170,0.002,-576.145,45.7,991.000,01301 \mathrm{c} 6 \mathrm{~b}, 22,0,23075616.449,0.124,272735$ $8.171,0.003,2500.145,52.0,1031.000,00101 \mathrm{c} 84,22,0,23075615.476,0.035,2038672.733,0.002,194$ $8.166,44.9,991.000,01301 \mathrm{c} 8 \mathrm{~b}, 6,0,22736389.447,0.232,946057.685,0.003,427.132,51.0,1202.000$ , 00101ca4, 6, 0, 22736391.594, 0.030, 705537.098, 0.004, 332.836, 43.5, 1153.000, 01301cab, 8, 0, 2663 $6852.350,0.080,-1284527.069,0.023,-1424.267,35.7,1211.000,00101 \mathrm{ce} 4,8,0,26636858.176,0.908$ , $-977040.009,0.034,-1109.819,34.2,1147.000,01301 \mathrm{ceb}, 9,0,25107151.491,0.102,3319870.685,0$. $008,2551.583,45.1,1208.000,00101 \mathrm{~d} 04,9,0,25107155.949,0.627,2490062.869,0.008,1988.246,40$. $7,1147.000,01301 \mathrm{~d} 0 \mathrm{~b}, 24,0,26098269.339,0.030,2976309.403,0.006,2996.793,46.0,977.000,00101$ $\mathrm{d} 24,24,0,26098276.448,0.417,2212578.743,0.007,2335.160,40.4,932.000,01301 \mathrm{~d} 2 \mathrm{~b}, 14,0,2622876$ $2.613,0.036,1470895.323,0.006,3818.963,43.1,386.000,00101 \mathrm{~d} 44,14,0,26228767.739,2.324,1022$ $623.482,0.020,2975.818,35.4,344.000,01301 d 4 \mathrm{~b}, 26,0,24778830.442,0.071,-3289079.697,0.009,-$ $3441.785,44.3,1028.000,00101 \mathrm{~d} 64,26,0,24778833.641,0.360,-2481119.787,0.008,-2681.905,38.8$ , $992.000,01301 \mathrm{~d} 6 \mathrm{~b}, 15,0,22798329.537,0.011,-1305820.432,0.004,-1478.792,51.3,1209.000,0010$ $1 \mathrm{dc} 4,15,0,22798331.417,0.052,-995088.194,0.002,-1152.300,45.5,1148.000,01301 \mathrm{dcb}, 16,0,2586$ $5295.016,0.299,-2978845.709,0.007,-2704.922,46.1,1207.000,00101 \mathrm{de} 4,16,0,25865297.510,0.02$ $6,-2255249.469,0.008,-2107.726,39.5,1151.000,01301 \mathrm{deb}, 29,0,26200507.932,0.204,-3978577.19$ $9,0.005,-3894.610,46.6,1025.000,00101 e 04,29,0,26200513.167,0.057,-2948017.274,0.010,-3034$ $.758,37.2,974.000,01301 \mathrm{e} 0 \mathrm{~b}, 18,0,21630284.192,0.133,991074.996,0.003,591.579,52.5,1208.000$ , 00101e24, 18, 0, 21630284.471, 0.119, 741511.596, 0.004, 460.974, 47.0, 1151.000, 01301e2b, 135, 0, 3 $9782650.195,0.164,2890.438,0.006,2.430,48.3,1212.000,80021 \mathrm{e} 44 * 1 \mathrm{~b} 6 \mathrm{~d} 1 \mathrm{c} 32$

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### 3.2.4 RAWGPSSUBFRAMEWPB

\#RAWGPSSUBFRAMEWPA, NO_PORTS, 0, 0.0, SATTIME, $700,325644.000,00000000,0000,0 ; 3,21,0,8 \mathrm{~b} 0 \mathrm{af} 0465$
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### 3.2.5 RAWWAASFRAMEWPB

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