

```

1  # TOP3.DOCX - XDP OPTIONS TOP FEED
2  #
3  # ALL SERIES RELATE TO ONE OF THREE UNDERLYINGS: ZN, ZVV, ZVZZT
4  # THIS SCRIPT WAS GENERATED BY PLAYING ACTUAL SCENARIOS INTO THE
5  # OPTIONS MATCHING ENGINE. AS A RESULT THERE IS A CERTAIN AMOUNT OF
6  # EXTRANEIOUS MAPPING MESSAGES AND HEARTBEATS.
7  #
8  # THE FOLLOWING TABLE OF CONTENTS SHOWS SECTIONS OF MESSAGE CONTENT
9  # WITH THEIR STARTING LINE NUMBERS IN THIS FILE
10 #
11 # Line      Content
12 # -----
13 # 34        SEQUENCE NUMBER RESETS
14 # 95        MAPPING MESSAGES
15 # 3462      HEARTBEATS
16 # 3546      SCENARIO MESSAGES
17 # 4543      REFRESH MESSAGES
18 # 5489      STATUS MESSAGES
19
20
21 =====PACKET
22
23     Header={pktSize=24
24             numberMsgs=1
25             deliveryFlag=1
26             seqNum=1
27             sendTime=1445358931
28             sendTimeNS=490555000 (2015/10/20 12:35:31.490555)}
29     StreamID:{size=8
30               type=455
31               streamID=48}
32
33
34 # =====
35 # SEQUENCE NUMBER RESETS FOR THE 3 STREAMS: 48, 49, 50 =====
36 # =====
37
38 =====PACKET
39
40     Header={pktSize=40
41             numberMsgs=2
42             deliveryFlag=12
43             seqNum=1
44             sendTime=1445358941
45             sendTimeNS=469000 (2015/10/20 12:35:41.469)}
46     StreamID:{size=8
47               type=455
48               streamID=49}
49     Reset:{size=16
50            type=1
51            sourceTime=1445358941
52            sourceTimeNS=469000
53            productID=1
54            channelID=57}

```

```
55
56
57 =====PACKET
58
59     Header={pktSize=40
60             numberMsgs=2
61             deliveryFlag=12
62             seqNum=1
63             sendTime=1445358941
64             sendTimeNS=520000 (2015/10/20 12:35:41.520)}
65     StreamID:{size=8
66               type=455
67               streamID=50}
68     Reset:{size=16
69            type=1
70            sourceTime=1445358941
71            sourceTimeNS=519000
72            productID=1
73            channelID=57}
74
75
76 =====PACKET
77
78     Header={pktSize=40
79             numberMsgs=2
80             deliveryFlag=12
81             seqNum=1
82             sendTime=1445358941
83             sendTimeNS=526000 (2015/10/20 12:35:41.526)}
84     StreamID:{size=8
85               type=455
86               streamID=48}
87     Reset:{size=16
88            type=1
89            sourceTime=1445358941
90            sourceTimeNS=526000
91            productID=1
92            channelID=57}
93
94
95 # =====
96 # MAPPING MESSAGES =====
97 # =====
98
99 =====PACKET
100
101     Header={pktSize=1372
102             numberMsgs=24
103             deliveryFlag=11
104             seqNum=3
105             sendTime=1445358941
106             sendTimeNS=285478000 (2015/10/20 12:35:41.285478)}
107     StreamID:{size=8
108               type=455
```

```
109         streamID=50}
110     Symbol:{size=28
111         type=435
112         underlyingIndex=2610
113         symbol=ZN
114         channelID=57
115         marketID=8
116         systemID=3
117         exchangeCode='Q'
118         priceScale=4
119         securityType='C'
120         priceResolution=5}
121     Series:{size=60
122         type=437
123         seriesIndex=20691708
124         channelID=57
125         marketID=8
126         systemID=3
127         streamID=50
128         underlyingIndex=2610
129         contractMultiplier=100
130         expiry=151218
131         putOrCall=0
132         strikePrice=7.5
133         underlyingSymbol=ZN
134         OCCRootCode=ZN
135         groupID=52200
136         priceScale=4}
137     Series:{size=60
138         type=437
139         seriesIndex=20691707
140         channelID=57
141         marketID=8
142         systemID=3
143         streamID=50
144         underlyingIndex=2610
145         contractMultiplier=100
146         expiry=151218
147         putOrCall=0
148         strikePrice=5
149         underlyingSymbol=ZN
150         OCCRootCode=ZN
151         groupID=52200
152         priceScale=4}
153     Series:{size=60
154         type=437
155         seriesIndex=20691706
156         channelID=57
157         marketID=8
158         systemID=3
159         streamID=50
160         underlyingIndex=2610
161         contractMultiplier=100
162         expiry=151218
```

```
163         putOrCall=0
164         strikePrice=2.5
165         underlyingSymbol=ZN
166         OCCRootCode=ZN
167         groupID=52200
168         priceScale=4}
169     Series:{size=60
170         type=437
171         seriesIndex=20691705
172         channelID=57
173         marketID=8
174         systemID=3
175         streamID=50
176         underlyingIndex=2610
177         contractMultiplier=100
178         expiry=151120
179         putOrCall=0
180         strikePrice=7.5
181         underlyingSymbol=ZN
182         OCCRootCode=ZN
183         groupID=52200
184         priceScale=4}
185     Series:{size=60
186         type=437
187         seriesIndex=20691704
188         channelID=57
189         marketID=8
190         systemID=3
191         streamID=50
192         underlyingIndex=2610
193         contractMultiplier=100
194         expiry=151120
195         putOrCall=0
196         strikePrice=5
197         underlyingSymbol=ZN
198         OCCRootCode=ZN
199         groupID=52200
200         priceScale=4}
201     Series:{size=60
202         type=437
203         seriesIndex=20691703
204         channelID=57
205         marketID=8
206         systemID=3
207         streamID=50
208         underlyingIndex=2610
209         contractMultiplier=100
210         expiry=151120
211         putOrCall=0
212         strikePrice=2.5
213         underlyingSymbol=ZN
214         OCCRootCode=ZN
215         groupID=52200
216         priceScale=4}
```

```
217 Series:{size=60
218     type=437
219     seriesIndex=20691702
220     channelID=57
221     marketID=8
222     systemID=3
223     streamID=50
224     underlyingIndex=2610
225     contractMultiplier=100
226     expiry=160617
227     putOrCall=0
228     strikePrice=7.5
229     underlyingSymbol=ZN
230     OCCRootCode=ZN
231     groupID=52200
232     priceScale=4}
233 Series:{size=60
234     type=437
235     seriesIndex=20691701
236     channelID=57
237     marketID=8
238     systemID=3
239     streamID=50
240     underlyingIndex=2610
241     contractMultiplier=100
242     expiry=160617
243     putOrCall=0
244     strikePrice=5
245     underlyingSymbol=ZN
246     OCCRootCode=ZN
247     groupID=52200
248     priceScale=4}
249 Series:{size=60
250     type=437
251     seriesIndex=20691700
252     channelID=57
253     marketID=8
254     systemID=3
255     streamID=50
256     underlyingIndex=2610
257     contractMultiplier=100
258     expiry=160617
259     putOrCall=0
260     strikePrice=2.5
261     underlyingSymbol=ZN
262     OCCRootCode=ZN
263     groupID=52200
264     priceScale=4}
265 Series:{size=60
266     type=437
267     seriesIndex=20691699
268     channelID=57
269     marketID=8
270     systemID=3
```

```
271         streamID=50
272         underlyingIndex=2610
273         contractMultiplier=100
274         expiry=160318
275         putOrCall=0
276         strikePrice=7.5
277         underlyingSymbol=ZN
278         OCCRootCode=ZN
279         groupID=52200
280         priceScale=4}
281     Series:{size=60
282         type=437
283         seriesIndex=20691698
284         channelID=57
285         marketID=8
286         systemID=3
287         streamID=50
288         underlyingIndex=2610
289         contractMultiplier=100
290         expiry=160318
291         putOrCall=0
292         strikePrice=5
293         underlyingSymbol=ZN
294         OCCRootCode=ZN
295         groupID=52200
296         priceScale=4}
297     Series:{size=60
298         type=437
299         seriesIndex=20691697
300         channelID=57
301         marketID=8
302         systemID=3
303         streamID=50
304         underlyingIndex=2610
305         contractMultiplier=100
306         expiry=160318
307         putOrCall=0
308         strikePrice=2.5
309         underlyingSymbol=ZN
310         OCCRootCode=ZN
311         groupID=52200
312         priceScale=4}
313     Series:{size=60
314         type=437
315         seriesIndex=20691696
316         channelID=57
317         marketID=8
318         systemID=3
319         streamID=50
320         underlyingIndex=2610
321         contractMultiplier=100
322         expiry=151218
323         putOrCall=1
324         strikePrice=7.5
```

```
325         underlyingSymbol=ZN
326         OCCRootCode=ZN
327         groupID=52200
328         priceScale=4}
329     Series:{size=60
330         type=437
331         seriesIndex=20691695
332         channelID=57
333         marketID=8
334         systemID=3
335         streamID=50
336         underlyingIndex=2610
337         contractMultiplier=100
338         expiry=151218
339         putOrCall=1
340         strikePrice=5
341         underlyingSymbol=ZN
342         OCCRootCode=ZN
343         groupID=52200
344         priceScale=4}
345     Series:{size=60
346         type=437
347         seriesIndex=20691694
348         channelID=57
349         marketID=8
350         systemID=3
351         streamID=50
352         underlyingIndex=2610
353         contractMultiplier=100
354         expiry=151218
355         putOrCall=1
356         strikePrice=2.5
357         underlyingSymbol=ZN
358         OCCRootCode=ZN
359         groupID=52200
360         priceScale=4}
361     Series:{size=60
362         type=437
363         seriesIndex=20691693
364         channelID=57
365         marketID=8
366         systemID=3
367         streamID=50
368         underlyingIndex=2610
369         contractMultiplier=100
370         expiry=151120
371         putOrCall=1
372         strikePrice=7.5
373         underlyingSymbol=ZN
374         OCCRootCode=ZN
375         groupID=52200
376         priceScale=4}
377     Series:{size=60
378         type=437
```

```
379         seriesIndex=20691692
380         channelID=57
381         marketID=8
382         systemID=3
383         streamID=50
384         underlyingIndex=2610
385         contractMultiplier=100
386         expiry=151120
387         putOrCall=1
388         strikePrice=5
389         underlyingSymbol=ZN
390         OCCRootCode=ZN
391         groupID=52200
392         priceScale=4}
393     Series:{size=60
394         type=437
395         seriesIndex=20691691
396         channelID=57
397         marketID=8
398         systemID=3
399         streamID=50
400         underlyingIndex=2610
401         contractMultiplier=100
402         expiry=151120
403         putOrCall=1
404         strikePrice=2.5
405         underlyingSymbol=ZN
406         OCCRootCode=ZN
407         groupID=52200
408         priceScale=4}
409     Series:{size=60
410         type=437
411         seriesIndex=20691690
412         channelID=57
413         marketID=8
414         systemID=3
415         streamID=50
416         underlyingIndex=2610
417         contractMultiplier=100
418         expiry=160617
419         putOrCall=1
420         strikePrice=7.5
421         underlyingSymbol=ZN
422         OCCRootCode=ZN
423         groupID=52200
424         priceScale=4}
425     Series:{size=60
426         type=437
427         seriesIndex=20691689
428         channelID=57
429         marketID=8
430         systemID=3
431         streamID=50
432         underlyingIndex=2610
```

```
433         contractMultiplier=100
434         expiry=160617
435         putOrCall=1
436         strikePrice=5
437         underlyingSymbol=ZN
438         OCCRootCode=ZN
439         groupID=52200
440         priceScale=4}
441     Series:{size=60
442         type=437
443         seriesIndex=20691688
444         channelID=57
445         marketID=8
446         systemID=3
447         streamID=50
448         underlyingIndex=2610
449         contractMultiplier=100
450         expiry=160617
451         putOrCall=1
452         strikePrice=2.5
453         underlyingSymbol=ZN
454         OCCRootCode=ZN
455         groupID=52200
456         priceScale=4}
457     Series:{size=60
458         type=437
459         seriesIndex=20691687
460         channelID=57
461         marketID=8
462         systemID=3
463         streamID=50
464         underlyingIndex=2610
465         contractMultiplier=100
466         expiry=160318
467         putOrCall=1
468         strikePrice=7.5
469         underlyingSymbol=ZN
470         OCCRootCode=ZN
471         groupID=52200
472         priceScale=4}
473
474
475     =====PACKET
476
477     Header={pktSize=1372
478         numberMsgs=24
479         deliveryFlag=11
480         seqNum=27
481         sendTime=1445358941
482         sendTimeNS=288737000 (2015/10/20 12:35:41.288737)}
483     StreamID:{size=8
484         type=455
485         streamID=50}
486     Series:{size=60
```

```
487         type=437
488         seriesIndex=20691686
489         channelID=57
490         marketID=8
491         systemID=3
492         streamID=50
493         underlyingIndex=2610
494         contractMultiplier=100
495         expiry=160318
496         putOrCall=1
497         strikePrice=5
498         underlyingSymbol=ZN
499         OCCRootCode=ZN
500         groupID=52200
501         priceScale=4}
502     Series:{size=60
503         type=437
504         seriesIndex=20691685
505         channelID=57
506         marketID=8
507         systemID=3
508         streamID=50
509         underlyingIndex=2610
510         contractMultiplier=100
511         expiry=160318
512         putOrCall=1
513         strikePrice=2.5
514         underlyingSymbol=ZN
515         OCCRootCode=ZN
516         groupID=52200
517         priceScale=4}
518     Symbol:{size=28
519         type=435
520         underlyingIndex=2619
521         symbol=ZVV
522         channelID=57
523         marketID=8
524         systemID=3
525         exchangeCode='P'
526         priceScale=4
527         securityType='E'
528         priceResolution=5}
529     Series:{size=60
530         type=437
531         seriesIndex=20693806
532         channelID=57
533         marketID=8
534         systemID=3
535         streamID=50
536         underlyingIndex=2619
537         contractMultiplier=100
538         expiry=160116
539         putOrCall=0
540         strikePrice=615
```

```
541         underlyingSymbol=ZVV
542         OCCRootCode=ZVV
543         groupID=52380
544         priceScale=4}
545     Series:{size=60
546         type=437
547         seriesIndex=20693805
548         channelID=57
549         marketID=8
550         systemID=3
551         streamID=50
552         underlyingIndex=2619
553         contractMultiplier=100
554         expiry=160116
555         putOrCall=0
556         strikePrice=610
557         underlyingSymbol=ZVV
558         OCCRootCode=ZVV
559         groupID=52380
560         priceScale=4}
561     Series:{size=60
562         type=437
563         seriesIndex=20693804
564         channelID=57
565         marketID=8
566         systemID=3
567         streamID=50
568         underlyingIndex=2619
569         contractMultiplier=100
570         expiry=160116
571         putOrCall=0
572         strikePrice=606
573         underlyingSymbol=ZVV
574         OCCRootCode=ZVV
575         groupID=52380
576         priceScale=4}
577     Series:{size=60
578         type=437
579         seriesIndex=20693803
580         channelID=57
581         marketID=8
582         systemID=3
583         streamID=50
584         underlyingIndex=2619
585         contractMultiplier=100
586         expiry=160116
587         putOrCall=0
588         strikePrice=601
589         underlyingSymbol=ZVV
590         OCCRootCode=ZVV
591         groupID=52380
592         priceScale=4}
593     Series:{size=60
594         type=437
```

```
595     seriesIndex=20693802
596     channelID=57
597     marketID=8
598     systemID=3
599     streamID=50
600     underlyingIndex=2619
601     contractMultiplier=100
602     expiry=160116
603     putOrCall=0
604     strikePrice=600
605     underlyingSymbol=ZVV
606     OCCRootCode=ZVV
607     groupID=52380
608     priceScale=4}
609 Series:{size=60
610     type=437
611     seriesIndex=20693801
612     channelID=57
613     marketID=8
614     systemID=3
615     streamID=50
616     underlyingIndex=2619
617     contractMultiplier=100
618     expiry=160116
619     putOrCall=0
620     strikePrice=595
621     underlyingSymbol=ZVV
622     OCCRootCode=ZVV
623     groupID=52380
624     priceScale=4}
625 Series:{size=60
626     type=437
627     seriesIndex=20693800
628     channelID=57
629     marketID=8
630     systemID=3
631     streamID=50
632     underlyingIndex=2619
633     contractMultiplier=100
634     expiry=160116
635     putOrCall=0
636     strikePrice=590
637     underlyingSymbol=ZVV
638     OCCRootCode=ZVV
639     groupID=52380
640     priceScale=4}
641 Series:{size=60
642     type=437
643     seriesIndex=20693799
644     channelID=57
645     marketID=8
646     systemID=3
647     streamID=50
648     underlyingIndex=2619
```

```
649         contractMultiplier=100
650         expiry=160116
651         putOrCall=0
652         strikePrice=585
653         underlyingSymbol=ZVV
654         OCCRootCode=ZVV
655         groupID=52380
656         priceScale=4}
657     Series:{size=60
658         type=437
659         seriesIndex=20693798
660         channelID=57
661         marketID=8
662         systemID=3
663         streamID=50
664         underlyingIndex=2619
665         contractMultiplier=100
666         expiry=160116
667         putOrCall=0
668         strikePrice=580
669         underlyingSymbol=ZVV
670         OCCRootCode=ZVV
671         groupID=52380
672         priceScale=4}
673     Series:{size=60
674         type=437
675         seriesIndex=20693797
676         channelID=57
677         marketID=8
678         systemID=3
679         streamID=50
680         underlyingIndex=2619
681         contractMultiplier=100
682         expiry=160116
683         putOrCall=0
684         strikePrice=575
685         underlyingSymbol=ZVV
686         OCCRootCode=ZVV
687         groupID=52380
688         priceScale=4}
689     Series:{size=60
690         type=437
691         seriesIndex=20693796
692         channelID=57
693         marketID=8
694         systemID=3
695         streamID=50
696         underlyingIndex=2619
697         contractMultiplier=100
698         expiry=160116
699         putOrCall=0
700         strikePrice=570
701         underlyingSymbol=ZVV
702         OCCRootCode=ZVV
```

```
703         groupID=52380
704         priceScale=4}
705     Series:{size=60
706         type=437
707         seriesIndex=20693795
708         channelID=57
709         marketID=8
710         systemID=3
711         streamID=50
712         underlyingIndex=2619
713         contractMultiplier=100
714         expiry=160116
715         putOrCall=0
716         strikePrice=565
717         underlyingSymbol=ZVV
718         OCCRootCode=ZVV
719         groupID=52380
720         priceScale=4}
721     Series:{size=60
722         type=437
723         seriesIndex=20693794
724         channelID=57
725         marketID=8
726         systemID=3
727         streamID=50
728         underlyingIndex=2619
729         contractMultiplier=100
730         expiry=160116
731         putOrCall=0
732         strikePrice=560
733         underlyingSymbol=ZVV
734         OCCRootCode=ZVV
735         groupID=52380
736         priceScale=4}
737     Series:{size=60
738         type=437
739         seriesIndex=20693793
740         channelID=57
741         marketID=8
742         systemID=3
743         streamID=50
744         underlyingIndex=2619
745         contractMultiplier=100
746         expiry=160116
747         putOrCall=0
748         strikePrice=555
749         underlyingSymbol=ZVV
750         OCCRootCode=ZVV
751         groupID=52380
752         priceScale=4}
753     Series:{size=60
754         type=437
755         seriesIndex=20693792
756         channelID=57
```

```
757         marketID=8
758         systemID=3
759         streamID=50
760         underlyingIndex=2619
761         contractMultiplier=100
762         expiry=160116
763         putOrCall=0
764         strikePrice=550
765         underlyingSymbol=ZVV
766         OCCRootCode=ZVV
767         groupID=52380
768         priceScale=4}
769     Series:{size=60
770         type=437
771         seriesIndex=20693791
772         channelID=57
773         marketID=8
774         systemID=3
775         streamID=50
776         underlyingIndex=2619
777         contractMultiplier=100
778         expiry=160116
779         putOrCall=0
780         strikePrice=545
781         underlyingSymbol=ZVV
782         OCCRootCode=ZVV
783         groupID=52380
784         priceScale=4}
785     Series:{size=60
786         type=437
787         seriesIndex=20693790
788         channelID=57
789         marketID=8
790         systemID=3
791         streamID=50
792         underlyingIndex=2619
793         contractMultiplier=100
794         expiry=160116
795         putOrCall=0
796         strikePrice=540
797         underlyingSymbol=ZVV
798         OCCRootCode=ZVV
799         groupID=52380
800         priceScale=4}
801     Series:{size=60
802         type=437
803         seriesIndex=20693789
804         channelID=57
805         marketID=8
806         systemID=3
807         streamID=50
808         underlyingIndex=2619
809         contractMultiplier=100
810         expiry=160116
```

```
811         putOrCall=0
812         strikePrice=535
813         underlyingSymbol=ZVV
814         OCCRootCode=ZVV
815         groupID=52380
816         priceScale=4}
817     Series:{size=60
818         type=437
819         seriesIndex=20693788
820         channelID=57
821         marketID=8
822         systemID=3
823         streamID=50
824         underlyingIndex=2619
825         contractMultiplier=100
826         expiry=160116
827         putOrCall=0
828         strikePrice=530
829         underlyingSymbol=ZVV
830         OCCRootCode=ZVV
831         groupID=52380
832         priceScale=4}
833     Series:{size=60
834         type=437
835         seriesIndex=20693787
836         channelID=57
837         marketID=8
838         systemID=3
839         streamID=50
840         underlyingIndex=2619
841         contractMultiplier=100
842         expiry=160116
843         putOrCall=0
844         strikePrice=525
845         underlyingSymbol=ZVV
846         OCCRootCode=ZVV
847         groupID=52380
848         priceScale=4}
849
850
851     =====PACKET
852
853     Header={pktSize=1344
854         numberMsgs=23
855         deliveryFlag=11
856         seqNum=51
857         sendTime=1445358941
858         sendTimeNS=288860000 (2015/10/20 12:35:41.288860)}
859     StreamID:{size=8
860         type=455
861         streamID=50}
862     Series:{size=60
863         type=437
864         seriesIndex=20693786
```

```
865         channelID=57
866         marketID=8
867         systemID=3
868         streamID=50
869         underlyingIndex=2619
870         contractMultiplier=100
871         expiry=160116
872         putOrCall=0
873         strikePrice=520
874         underlyingSymbol=ZVV
875         OCCRootCode=ZVV
876         groupID=52380
877         priceScale=4}
878     Series:{size=60
879         type=437
880         seriesIndex=20693785
881         channelID=57
882         marketID=8
883         systemID=3
884         streamID=50
885         underlyingIndex=2619
886         contractMultiplier=100
887         expiry=160116
888         putOrCall=0
889         strikePrice=515
890         underlyingSymbol=ZVV
891         OCCRootCode=ZVV
892         groupID=52380
893         priceScale=4}
894     Series:{size=60
895         type=437
896         seriesIndex=20693784
897         channelID=57
898         marketID=8
899         systemID=3
900         streamID=50
901         underlyingIndex=2619
902         contractMultiplier=100
903         expiry=160116
904         putOrCall=0
905         strikePrice=510
906         underlyingSymbol=ZVV
907         OCCRootCode=ZVV
908         groupID=52380
909         priceScale=4}
910     Series:{size=60
911         type=437
912         seriesIndex=20693783
913         channelID=57
914         marketID=8
915         systemID=3
916         streamID=50
917         underlyingIndex=2619
918         contractMultiplier=100
```

```
919         expiry=160116
920         putOrCall=0
921         strikePrice=505
922         underlyingSymbol=ZVV
923         OCCRootCode=ZVV
924         groupID=52380
925         priceScale=4}
926     Series:{size=60
927         type=437
928         seriesIndex=20693782
929         channelID=57
930         marketID=8
931         systemID=3
932         streamID=50
933         underlyingIndex=2619
934         contractMultiplier=100
935         expiry=160116
936         putOrCall=0
937         strikePrice=500
938         underlyingSymbol=ZVV
939         OCCRootCode=ZVV
940         groupID=52380
941         priceScale=4}
942     Series:{size=60
943         type=437
944         seriesIndex=20693781
945         channelID=57
946         marketID=8
947         systemID=3
948         streamID=50
949         underlyingIndex=2619
950         contractMultiplier=100
951         expiry=160116
952         putOrCall=0
953         strikePrice=200
954         underlyingSymbol=ZVV
955         OCCRootCode=ZVV
956         groupID=52380
957         priceScale=4}
958     Series:{size=60
959         type=437
960         seriesIndex=20693780
961         channelID=57
962         marketID=8
963         systemID=3
964         streamID=50
965         underlyingIndex=2619
966         contractMultiplier=100
967         expiry=160116
968         putOrCall=0
969         strikePrice=195
970         underlyingSymbol=ZVV
971         OCCRootCode=ZVV
972         groupID=52380
```

```
973     priceScale=4}
974 Series:{size=60
975     type=437
976     seriesIndex=20693779
977     channelID=57
978     marketID=8
979     systemID=3
980     streamID=50
981     underlyingIndex=2619
982     contractMultiplier=100
983     expiry=160116
984     putOrCall=0
985     strikePrice=190
986     underlyingSymbol=ZVV
987     OCCRootCode=ZVV
988     groupID=52380
989     priceScale=4}
990 Series:{size=60
991     type=437
992     seriesIndex=20693778
993     channelID=57
994     marketID=8
995     systemID=3
996     streamID=50
997     underlyingIndex=2619
998     contractMultiplier=100
999     expiry=160116
1000    putOrCall=0
1001    strikePrice=185
1002    underlyingSymbol=ZVV
1003    OCCRootCode=ZVV
1004    groupID=52380
1005    priceScale=4}
1006 Series:{size=60
1007    type=437
1008    seriesIndex=20693777
1009    channelID=57
1010    marketID=8
1011    systemID=3
1012    streamID=50
1013    underlyingIndex=2619
1014    contractMultiplier=100
1015    expiry=160116
1016    putOrCall=0
1017    strikePrice=180
1018    underlyingSymbol=ZVV
1019    OCCRootCode=ZVV
1020    groupID=52380
1021    priceScale=4}
1022 Series:{size=60
1023    type=437
1024    seriesIndex=20693776
1025    channelID=57
1026    marketID=8
```

```
1027         systemID=3
1028         streamID=50
1029         underlyingIndex=2619
1030         contractMultiplier=100
1031         expiry=160116
1032         putOrCall=0
1033         strikePrice=175
1034         underlyingSymbol=ZVV
1035         OCCRootCode=ZVV
1036         groupID=52380
1037         priceScale=4}
1038     Series:{size=60
1039         type=437
1040         seriesIndex=20693775
1041         channelID=57
1042         marketID=8
1043         systemID=3
1044         streamID=50
1045         underlyingIndex=2619
1046         contractMultiplier=100
1047         expiry=160116
1048         putOrCall=0
1049         strikePrice=170
1050         underlyingSymbol=ZVV
1051         OCCRootCode=ZVV
1052         groupID=52380
1053         priceScale=4}
1054     Series:{size=60
1055         type=437
1056         seriesIndex=20693774
1057         channelID=57
1058         marketID=8
1059         systemID=3
1060         streamID=50
1061         underlyingIndex=2619
1062         contractMultiplier=100
1063         expiry=160116
1064         putOrCall=0
1065         strikePrice=165
1066         underlyingSymbol=ZVV
1067         OCCRootCode=ZVV
1068         groupID=52380
1069         priceScale=4}
1070     Series:{size=60
1071         type=437
1072         seriesIndex=20693773
1073         channelID=57
1074         marketID=8
1075         systemID=3
1076         streamID=50
1077         underlyingIndex=2619
1078         contractMultiplier=100
1079         expiry=160116
1080         putOrCall=0
```

```
1081         strikePrice=160
1082         underlyingSymbol=ZVV
1083         OCCRootCode=ZVV
1084         groupID=52380
1085         priceScale=4}
1086     Series:{size=60
1087         type=437
1088         seriesIndex=20693772
1089         channelID=57
1090         marketID=8
1091         systemID=3
1092         streamID=50
1093         underlyingIndex=2619
1094         contractMultiplier=100
1095         expiry=160116
1096         putOrCall=0
1097         strikePrice=155
1098         underlyingSymbol=ZVV
1099         OCCRootCode=ZVV
1100         groupID=52380
1101         priceScale=4}
1102     Series:{size=60
1103         type=437
1104         seriesIndex=20693771
1105         channelID=57
1106         marketID=8
1107         systemID=3
1108         streamID=50
1109         underlyingIndex=2619
1110         contractMultiplier=100
1111         expiry=160116
1112         putOrCall=0
1113         strikePrice=150
1114         underlyingSymbol=ZVV
1115         OCCRootCode=ZVV
1116         groupID=52380
1117         priceScale=4}
1118     Series:{size=60
1119         type=437
1120         seriesIndex=20693770
1121         channelID=57
1122         marketID=8
1123         systemID=3
1124         streamID=50
1125         underlyingIndex=2619
1126         contractMultiplier=100
1127         expiry=160116
1128         putOrCall=0
1129         strikePrice=145
1130         underlyingSymbol=ZVV
1131         OCCRootCode=ZVV
1132         groupID=52380
1133         priceScale=4}
1134     Series:{size=60
```

```
1135         type=437
1136         seriesIndex=20693769
1137         channelID=57
1138         marketID=8
1139         systemID=3
1140         streamID=50
1141         underlyingIndex=2619
1142         contractMultiplier=100
1143         expiry=160116
1144         putOrCall=0
1145         strikePrice=140
1146         underlyingSymbol=ZVV
1147         OCCRootCode=ZVV
1148         groupID=52380
1149         priceScale=4}
1150     Series:{size=60
1151         type=437
1152         seriesIndex=20693768
1153         channelID=57
1154         marketID=8
1155         systemID=3
1156         streamID=50
1157         underlyingIndex=2619
1158         contractMultiplier=100
1159         expiry=160116
1160         putOrCall=0
1161         strikePrice=135
1162         underlyingSymbol=ZVV
1163         OCCRootCode=ZVV
1164         groupID=52380
1165         priceScale=4}
1166     Series:{size=60
1167         type=437
1168         seriesIndex=20693767
1169         channelID=57
1170         marketID=8
1171         systemID=3
1172         streamID=50
1173         underlyingIndex=2619
1174         contractMultiplier=100
1175         expiry=160116
1176         putOrCall=0
1177         strikePrice=130
1178         underlyingSymbol=ZVV
1179         OCCRootCode=ZVV
1180         groupID=52380
1181         priceScale=4}
1182     Series:{size=60
1183         type=437
1184         seriesIndex=20693766
1185         channelID=57
1186         marketID=8
1187         systemID=3
1188         streamID=50
```

```
1189     underlyingIndex=2619
1190     contractMultiplier=100
1191     expiry=160116
1192     putOrCall=0
1193     strikePrice=125
1194     underlyingSymbol=ZVV
1195     OCCRootCode=ZVV
1196     groupID=52380
1197     priceScale=4}
1198 Series:{size=60
1199     type=437
1200     seriesIndex=20693765
1201     channelID=57
1202     marketID=8
1203     systemID=3
1204     streamID=50
1205     underlyingIndex=2619
1206     contractMultiplier=100
1207     expiry=160116
1208     putOrCall=0
1209     strikePrice=120
1210     underlyingSymbol=ZVV
1211     OCCRootCode=ZVV
1212     groupID=52380
1213     priceScale=4}
1214
1215
1216 =====PACKET
1217
1218     Header={pktSize=1344
1219         numberMsgs=23
1220         deliveryFlag=11
1221         seqNum=74
1222         sendTime=1445358941
1223         sendTimeNS=288970000 (2015/10/20 12:35:41.288970)}
1224 StreamID:{size=8
1225     type=455
1226     streamID=50}
1227 Series:{size=60
1228     type=437
1229     seriesIndex=20693764
1230     channelID=57
1231     marketID=8
1232     systemID=3
1233     streamID=50
1234     underlyingIndex=2619
1235     contractMultiplier=100
1236     expiry=160116
1237     putOrCall=0
1238     strikePrice=115
1239     underlyingSymbol=ZVV
1240     OCCRootCode=ZVV
1241     groupID=52380
1242     priceScale=4}
```

```
1243 Series:{size=60
1244     type=437
1245     seriesIndex=20693763
1246     channelID=57
1247     marketID=8
1248     systemID=3
1249     streamID=50
1250     underlyingIndex=2619
1251     contractMultiplier=100
1252     expiry=160116
1253     putOrCall=0
1254     strikePrice=110
1255     underlyingSymbol=ZVV
1256     OCCRootCode=ZVV
1257     groupID=52380
1258     priceScale=4}
1259 Series:{size=60
1260     type=437
1261     seriesIndex=20693762
1262     channelID=57
1263     marketID=8
1264     systemID=3
1265     streamID=50
1266     underlyingIndex=2619
1267     contractMultiplier=100
1268     expiry=160116
1269     putOrCall=0
1270     strikePrice=105
1271     underlyingSymbol=ZVV
1272     OCCRootCode=ZVV
1273     groupID=52380
1274     priceScale=4}
1275 Series:{size=60
1276     type=437
1277     seriesIndex=20693761
1278     channelID=57
1279     marketID=8
1280     systemID=3
1281     streamID=50
1282     underlyingIndex=2619
1283     contractMultiplier=100
1284     expiry=160116
1285     putOrCall=0
1286     strikePrice=100
1287     underlyingSymbol=ZVV
1288     OCCRootCode=ZVV
1289     groupID=52380
1290     priceScale=4}
1291 Series:{size=60
1292     type=437
1293     seriesIndex=20693760
1294     channelID=57
1295     marketID=8
1296     systemID=3
```

1297 streamID=50  
1298 underlyingIndex=2619  
1299 contractMultiplier=100  
1300 expiry=160116  
1301 putOrCall=1  
1302 strikePrice=615  
1303 underlyingSymbol=ZVV  
1304 OCCRootCode=ZVV  
1305 groupID=52380  
1306 priceScale=4}  
1307 Series:{size=60  
1308 type=437  
1309 seriesIndex=20693759  
1310 channelID=57  
1311 marketID=8  
1312 systemID=3  
1313 streamID=50  
1314 underlyingIndex=2619  
1315 contractMultiplier=100  
1316 expiry=160116  
1317 putOrCall=1  
1318 strikePrice=610  
1319 underlyingSymbol=ZVV  
1320 OCCRootCode=ZVV  
1321 groupID=52380  
1322 priceScale=4}  
1323 Series:{size=60  
1324 type=437  
1325 seriesIndex=20693758  
1326 channelID=57  
1327 marketID=8  
1328 systemID=3  
1329 streamID=50  
1330 underlyingIndex=2619  
1331 contractMultiplier=100  
1332 expiry=160116  
1333 putOrCall=1  
1334 strikePrice=606  
1335 underlyingSymbol=ZVV  
1336 OCCRootCode=ZVV  
1337 groupID=52380  
1338 priceScale=4}  
1339 Series:{size=60  
1340 type=437  
1341 seriesIndex=20693757  
1342 channelID=57  
1343 marketID=8  
1344 systemID=3  
1345 streamID=50  
1346 underlyingIndex=2619  
1347 contractMultiplier=100  
1348 expiry=160116  
1349 putOrCall=1  
1350 strikePrice=601

1351 underlyingSymbol=ZVV  
1352 OCCRootCode=ZVV  
1353 groupID=52380  
1354 priceScale=4}  
1355 Series:{size=60  
1356 type=437  
1357 seriesIndex=20693756  
1358 channelID=57  
1359 marketID=8  
1360 systemID=3  
1361 streamID=50  
1362 underlyingIndex=2619  
1363 contractMultiplier=100  
1364 expiry=160116  
1365 putOrCall=1  
1366 strikePrice=600  
1367 underlyingSymbol=ZVV  
1368 OCCRootCode=ZVV  
1369 groupID=52380  
1370 priceScale=4}  
1371 Series:{size=60  
1372 type=437  
1373 seriesIndex=20693755  
1374 channelID=57  
1375 marketID=8  
1376 systemID=3  
1377 streamID=50  
1378 underlyingIndex=2619  
1379 contractMultiplier=100  
1380 expiry=160116  
1381 putOrCall=1  
1382 strikePrice=595  
1383 underlyingSymbol=ZVV  
1384 OCCRootCode=ZVV  
1385 groupID=52380  
1386 priceScale=4}  
1387 Series:{size=60  
1388 type=437  
1389 seriesIndex=20693754  
1390 channelID=57  
1391 marketID=8  
1392 systemID=3  
1393 streamID=50  
1394 underlyingIndex=2619  
1395 contractMultiplier=100  
1396 expiry=160116  
1397 putOrCall=1  
1398 strikePrice=590  
1399 underlyingSymbol=ZVV  
1400 OCCRootCode=ZVV  
1401 groupID=52380  
1402 priceScale=4}  
1403 Series:{size=60  
1404 type=437

```
1405     seriesIndex=20693753
1406     channelID=57
1407     marketID=8
1408     systemID=3
1409     streamID=50
1410     underlyingIndex=2619
1411     contractMultiplier=100
1412     expiry=160116
1413     putOrCall=1
1414     strikePrice=585
1415     underlyingSymbol=ZVV
1416     OCCRootCode=ZVV
1417     groupID=52380
1418     priceScale=4}
1419 Series:{size=60
1420     type=437
1421     seriesIndex=20693752
1422     channelID=57
1423     marketID=8
1424     systemID=3
1425     streamID=50
1426     underlyingIndex=2619
1427     contractMultiplier=100
1428     expiry=160116
1429     putOrCall=1
1430     strikePrice=580
1431     underlyingSymbol=ZVV
1432     OCCRootCode=ZVV
1433     groupID=52380
1434     priceScale=4}
1435 Series:{size=60
1436     type=437
1437     seriesIndex=20693751
1438     channelID=57
1439     marketID=8
1440     systemID=3
1441     streamID=50
1442     underlyingIndex=2619
1443     contractMultiplier=100
1444     expiry=160116
1445     putOrCall=1
1446     strikePrice=575
1447     underlyingSymbol=ZVV
1448     OCCRootCode=ZVV
1449     groupID=52380
1450     priceScale=4}
1451 Series:{size=60
1452     type=437
1453     seriesIndex=20693750
1454     channelID=57
1455     marketID=8
1456     systemID=3
1457     streamID=50
1458     underlyingIndex=2619
```

1459 contractMultiplier=100  
1460 expiry=160116  
1461 putOrCall=1  
1462 strikePrice=570  
1463 underlyingSymbol=ZVV  
1464 OCCRootCode=ZVV  
1465 groupID=52380  
1466 priceScale=4}  
1467 Series:{size=60  
1468 type=437  
1469 seriesIndex=20693749  
1470 channelID=57  
1471 marketID=8  
1472 systemID=3  
1473 streamID=50  
1474 underlyingIndex=2619  
1475 contractMultiplier=100  
1476 expiry=160116  
1477 putOrCall=1  
1478 strikePrice=565  
1479 underlyingSymbol=ZVV  
1480 OCCRootCode=ZVV  
1481 groupID=52380  
1482 priceScale=4}  
1483 Series:{size=60  
1484 type=437  
1485 seriesIndex=20693748  
1486 channelID=57  
1487 marketID=8  
1488 systemID=3  
1489 streamID=50  
1490 underlyingIndex=2619  
1491 contractMultiplier=100  
1492 expiry=160116  
1493 putOrCall=1  
1494 strikePrice=560  
1495 underlyingSymbol=ZVV  
1496 OCCRootCode=ZVV  
1497 groupID=52380  
1498 priceScale=4}  
1499 Series:{size=60  
1500 type=437  
1501 seriesIndex=20693747  
1502 channelID=57  
1503 marketID=8  
1504 systemID=3  
1505 streamID=50  
1506 underlyingIndex=2619  
1507 contractMultiplier=100  
1508 expiry=160116  
1509 putOrCall=1  
1510 strikePrice=555  
1511 underlyingSymbol=ZVV  
1512 OCCRootCode=ZVV

```
1513         groupID=52380
1514         priceScale=4}
1515     Series:{size=60
1516         type=437
1517         seriesIndex=20693746
1518         channelID=57
1519         marketID=8
1520         systemID=3
1521         streamID=50
1522         underlyingIndex=2619
1523         contractMultiplier=100
1524         expiry=160116
1525         putOrCall=1
1526         strikePrice=550
1527         underlyingSymbol=ZVV
1528         OCCRootCode=ZVV
1529         groupID=52380
1530         priceScale=4}
1531     Series:{size=60
1532         type=437
1533         seriesIndex=20693745
1534         channelID=57
1535         marketID=8
1536         systemID=3
1537         streamID=50
1538         underlyingIndex=2619
1539         contractMultiplier=100
1540         expiry=160116
1541         putOrCall=1
1542         strikePrice=545
1543         underlyingSymbol=ZVV
1544         OCCRootCode=ZVV
1545         groupID=52380
1546         priceScale=4}
1547     Series:{size=60
1548         type=437
1549         seriesIndex=20693744
1550         channelID=57
1551         marketID=8
1552         systemID=3
1553         streamID=50
1554         underlyingIndex=2619
1555         contractMultiplier=100
1556         expiry=160116
1557         putOrCall=1
1558         strikePrice=540
1559         underlyingSymbol=ZVV
1560         OCCRootCode=ZVV
1561         groupID=52380
1562         priceScale=4}
1563     Series:{size=60
1564         type=437
1565         seriesIndex=20693743
1566         channelID=57
```

```
1567         marketID=8
1568         systemID=3
1569         streamID=50
1570         underlyingIndex=2619
1571         contractMultiplier=100
1572         expiry=160116
1573         putOrCall=1
1574         strikePrice=535
1575         underlyingSymbol=ZVV
1576         OCCRootCode=ZVV
1577         groupID=52380
1578         priceScale=4}
1579
1580
1581 =====PACKET
1582
1583     Header={pktSize=1344
1584             numberMsgs=23
1585             deliveryFlag=11
1586             seqNum=97
1587             sendTime=1445358941
1588             sendTimeNS=289074000 (2015/10/20 12:35:41.289074) }
1589     StreamID:{size=8
1590             type=455
1591             streamID=50}
1592     Series:{size=60
1593           type=437
1594           seriesIndex=20693742
1595           channelID=57
1596           marketID=8
1597           systemID=3
1598           streamID=50
1599           underlyingIndex=2619
1600           contractMultiplier=100
1601           expiry=160116
1602           putOrCall=1
1603           strikePrice=530
1604           underlyingSymbol=ZVV
1605           OCCRootCode=ZVV
1606           groupID=52380
1607           priceScale=4}
1608     Series:{size=60
1609           type=437
1610           seriesIndex=20693741
1611           channelID=57
1612           marketID=8
1613           systemID=3
1614           streamID=50
1615           underlyingIndex=2619
1616           contractMultiplier=100
1617           expiry=160116
1618           putOrCall=1
1619           strikePrice=525
1620           underlyingSymbol=ZVV
```

```
1621         OCCRootCode=ZVV
1622         groupID=52380
1623         priceScale=4}
1624     Series:{size=60
1625         type=437
1626         seriesIndex=20693740
1627         channelID=57
1628         marketID=8
1629         systemID=3
1630         streamID=50
1631         underlyingIndex=2619
1632         contractMultiplier=100
1633         expiry=160116
1634         putOrCall=1
1635         strikePrice=520
1636         underlyingSymbol=ZVV
1637         OCCRootCode=ZVV
1638         groupID=52380
1639         priceScale=4}
1640     Series:{size=60
1641         type=437
1642         seriesIndex=20693739
1643         channelID=57
1644         marketID=8
1645         systemID=3
1646         streamID=50
1647         underlyingIndex=2619
1648         contractMultiplier=100
1649         expiry=160116
1650         putOrCall=1
1651         strikePrice=515
1652         underlyingSymbol=ZVV
1653         OCCRootCode=ZVV
1654         groupID=52380
1655         priceScale=4}
1656     Series:{size=60
1657         type=437
1658         seriesIndex=20693738
1659         channelID=57
1660         marketID=8
1661         systemID=3
1662         streamID=50
1663         underlyingIndex=2619
1664         contractMultiplier=100
1665         expiry=160116
1666         putOrCall=1
1667         strikePrice=510
1668         underlyingSymbol=ZVV
1669         OCCRootCode=ZVV
1670         groupID=52380
1671         priceScale=4}
1672     Series:{size=60
1673         type=437
1674         seriesIndex=20693737
```

1675 channelID=57  
1676 marketID=8  
1677 systemID=3  
1678 streamID=50  
1679 underlyingIndex=2619  
1680 contractMultiplier=100  
1681 expiry=160116  
1682 putOrCall=1  
1683 strikePrice=505  
1684 underlyingSymbol=ZVV  
1685 OCCRootCode=ZVV  
1686 groupID=52380  
1687 priceScale=4}  
1688 Series:{size=60  
1689 type=437  
1690 seriesIndex=20693736  
1691 channelID=57  
1692 marketID=8  
1693 systemID=3  
1694 streamID=50  
1695 underlyingIndex=2619  
1696 contractMultiplier=100  
1697 expiry=160116  
1698 putOrCall=1  
1699 strikePrice=500  
1700 underlyingSymbol=ZVV  
1701 OCCRootCode=ZVV  
1702 groupID=52380  
1703 priceScale=4}  
1704 Series:{size=60  
1705 type=437  
1706 seriesIndex=20693735  
1707 channelID=57  
1708 marketID=8  
1709 systemID=3  
1710 streamID=50  
1711 underlyingIndex=2619  
1712 contractMultiplier=100  
1713 expiry=160116  
1714 putOrCall=1  
1715 strikePrice=200  
1716 underlyingSymbol=ZVV  
1717 OCCRootCode=ZVV  
1718 groupID=52380  
1719 priceScale=4}  
1720 Series:{size=60  
1721 type=437  
1722 seriesIndex=20693734  
1723 channelID=57  
1724 marketID=8  
1725 systemID=3  
1726 streamID=50  
1727 underlyingIndex=2619  
1728 contractMultiplier=100

1729 expiry=160116  
1730 putOrCall=1  
1731 strikePrice=195  
1732 underlyingSymbol=ZVV  
1733 OCCRootCode=ZVV  
1734 groupID=52380  
1735 priceScale=4}  
1736 Series:{size=60  
1737 type=437  
1738 seriesIndex=20693733  
1739 channelID=57  
1740 marketID=8  
1741 systemID=3  
1742 streamID=50  
1743 underlyingIndex=2619  
1744 contractMultiplier=100  
1745 expiry=160116  
1746 putOrCall=1  
1747 strikePrice=190  
1748 underlyingSymbol=ZVV  
1749 OCCRootCode=ZVV  
1750 groupID=52380  
1751 priceScale=4}  
1752 Series:{size=60  
1753 type=437  
1754 seriesIndex=20693732  
1755 channelID=57  
1756 marketID=8  
1757 systemID=3  
1758 streamID=50  
1759 underlyingIndex=2619  
1760 contractMultiplier=100  
1761 expiry=160116  
1762 putOrCall=1  
1763 strikePrice=185  
1764 underlyingSymbol=ZVV  
1765 OCCRootCode=ZVV  
1766 groupID=52380  
1767 priceScale=4}  
1768 Series:{size=60  
1769 type=437  
1770 seriesIndex=20693731  
1771 channelID=57  
1772 marketID=8  
1773 systemID=3  
1774 streamID=50  
1775 underlyingIndex=2619  
1776 contractMultiplier=100  
1777 expiry=160116  
1778 putOrCall=1  
1779 strikePrice=180  
1780 underlyingSymbol=ZVV  
1781 OCCRootCode=ZVV  
1782 groupID=52380

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1783     priceScale=4}
1784 Series:{size=60
1785     type=437
1786     seriesIndex=20693730
1787     channelID=57
1788     marketID=8
1789     systemID=3
1790     streamID=50
1791     underlyingIndex=2619
1792     contractMultiplier=100
1793     expiry=160116
1794     putOrCall=1
1795     strikePrice=175
1796     underlyingSymbol=ZVV
1797     OCCRootCode=ZVV
1798     groupID=52380
1799     priceScale=4}
1800 Series:{size=60
1801     type=437
1802     seriesIndex=20693729
1803     channelID=57
1804     marketID=8
1805     systemID=3
1806     streamID=50
1807     underlyingIndex=2619
1808     contractMultiplier=100
1809     expiry=160116
1810     putOrCall=1
1811     strikePrice=170
1812     underlyingSymbol=ZVV
1813     OCCRootCode=ZVV
1814     groupID=52380
1815     priceScale=4}
1816 Series:{size=60
1817     type=437
1818     seriesIndex=20693728
1819     channelID=57
1820     marketID=8
1821     systemID=3
1822     streamID=50
1823     underlyingIndex=2619
1824     contractMultiplier=100
1825     expiry=160116
1826     putOrCall=1
1827     strikePrice=165
1828     underlyingSymbol=ZVV
1829     OCCRootCode=ZVV
1830     groupID=52380
1831     priceScale=4}
1832 Series:{size=60
1833     type=437
1834     seriesIndex=20693727
1835     channelID=57
1836     marketID=8
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1837 systemID=3  
1838 streamID=50  
1839 underlyingIndex=2619  
1840 contractMultiplier=100  
1841 expiry=160116  
1842 putOrCall=1  
1843 strikePrice=160  
1844 underlyingSymbol=ZVV  
1845 OCCRootCode=ZVV  
1846 groupID=52380  
1847 priceScale=4}  
1848 Series:{size=60  
1849 type=437  
1850 seriesIndex=20693726  
1851 channelID=57  
1852 marketID=8  
1853 systemID=3  
1854 streamID=50  
1855 underlyingIndex=2619  
1856 contractMultiplier=100  
1857 expiry=160116  
1858 putOrCall=1  
1859 strikePrice=155  
1860 underlyingSymbol=ZVV  
1861 OCCRootCode=ZVV  
1862 groupID=52380  
1863 priceScale=4}  
1864 Series:{size=60  
1865 type=437  
1866 seriesIndex=20693725  
1867 channelID=57  
1868 marketID=8  
1869 systemID=3  
1870 streamID=50  
1871 underlyingIndex=2619  
1872 contractMultiplier=100  
1873 expiry=160116  
1874 putOrCall=1  
1875 strikePrice=150  
1876 underlyingSymbol=ZVV  
1877 OCCRootCode=ZVV  
1878 groupID=52380  
1879 priceScale=4}  
1880 Series:{size=60  
1881 type=437  
1882 seriesIndex=20693724  
1883 channelID=57  
1884 marketID=8  
1885 systemID=3  
1886 streamID=50  
1887 underlyingIndex=2619  
1888 contractMultiplier=100  
1889 expiry=160116  
1890 putOrCall=1

1891 strikePrice=145  
1892 underlyingSymbol=ZVV  
1893 OCCRootCode=ZVV  
1894 groupID=52380  
1895 priceScale=4}  
1896 Series:{size=60  
1897 type=437  
1898 seriesIndex=20693723  
1899 channelID=57  
1900 marketID=8  
1901 systemID=3  
1902 streamID=50  
1903 underlyingIndex=2619  
1904 contractMultiplier=100  
1905 expiry=160116  
1906 putOrCall=1  
1907 strikePrice=140  
1908 underlyingSymbol=ZVV  
1909 OCCRootCode=ZVV  
1910 groupID=52380  
1911 priceScale=4}  
1912 Series:{size=60  
1913 type=437  
1914 seriesIndex=20693722  
1915 channelID=57  
1916 marketID=8  
1917 systemID=3  
1918 streamID=50  
1919 underlyingIndex=2619  
1920 contractMultiplier=100  
1921 expiry=160116  
1922 putOrCall=1  
1923 strikePrice=135  
1924 underlyingSymbol=ZVV  
1925 OCCRootCode=ZVV  
1926 groupID=52380  
1927 priceScale=4}  
1928 Series:{size=60  
1929 type=437  
1930 seriesIndex=20693721  
1931 channelID=57  
1932 marketID=8  
1933 systemID=3  
1934 streamID=50  
1935 underlyingIndex=2619  
1936 contractMultiplier=100  
1937 expiry=160116  
1938 putOrCall=1  
1939 strikePrice=130  
1940 underlyingSymbol=ZVV  
1941 OCCRootCode=ZVV  
1942 groupID=52380  
1943 priceScale=4}  
1944

```
1945
1946 =====PACKET
1947
1948     Header={pktSize=384
1949             numberMsgs=7
1950             deliveryFlag=11
1951             seqNum=120
1952             sendTime=1445358941
1953             sendTimeNS=289714000 (2015/10/20 12:35:41.289714)}
1954     StreamID:{size=8
1955             type=455
1956             streamID=50}
1957     Series:{size=60
1958            type=437
1959            seriesIndex=20693720
1960            channelID=57
1961            marketID=8
1962            systemID=3
1963            streamID=50
1964            underlyingIndex=2619
1965            contractMultiplier=100
1966            expiry=160116
1967            putOrCall=1
1968            strikePrice=125
1969            underlyingSymbol=ZVV
1970            OCCRootCode=ZVV
1971            groupID=52380
1972            priceScale=4}
1973     Series:{size=60
1974            type=437
1975            seriesIndex=20693719
1976            channelID=57
1977            marketID=8
1978            systemID=3
1979            streamID=50
1980            underlyingIndex=2619
1981            contractMultiplier=100
1982            expiry=160116
1983            putOrCall=1
1984            strikePrice=120
1985            underlyingSymbol=ZVV
1986            OCCRootCode=ZVV
1987            groupID=52380
1988            priceScale=4}
1989     Series:{size=60
1990            type=437
1991            seriesIndex=20693718
1992            channelID=57
1993            marketID=8
1994            systemID=3
1995            streamID=50
1996            underlyingIndex=2619
1997            contractMultiplier=100
1998            expiry=160116
```

1999 putOrCall=1  
2000 strikePrice=115  
2001 underlyingSymbol=ZVV  
2002 OCCRootCode=ZVV  
2003 groupID=52380  
2004 priceScale=4}  
2005 Series:{size=60  
2006 type=437  
2007 seriesIndex=20693717  
2008 channelID=57  
2009 marketID=8  
2010 systemID=3  
2011 streamID=50  
2012 underlyingIndex=2619  
2013 contractMultiplier=100  
2014 expiry=160116  
2015 putOrCall=1  
2016 strikePrice=110  
2017 underlyingSymbol=ZVV  
2018 OCCRootCode=ZVV  
2019 groupID=52380  
2020 priceScale=4}  
2021 Series:{size=60  
2022 type=437  
2023 seriesIndex=20693716  
2024 channelID=57  
2025 marketID=8  
2026 systemID=3  
2027 streamID=50  
2028 underlyingIndex=2619  
2029 contractMultiplier=100  
2030 expiry=160116  
2031 putOrCall=1  
2032 strikePrice=105  
2033 underlyingSymbol=ZVV  
2034 OCCRootCode=ZVV  
2035 groupID=52380  
2036 priceScale=4}  
2037 Series:{size=60  
2038 type=437  
2039 seriesIndex=20693715  
2040 channelID=57  
2041 marketID=8  
2042 systemID=3  
2043 streamID=50  
2044 underlyingIndex=2619  
2045 contractMultiplier=100  
2046 expiry=160116  
2047 putOrCall=1  
2048 strikePrice=100  
2049 underlyingSymbol=ZVV  
2050 OCCRootCode=ZVV  
2051 groupID=52380  
2052 priceScale=4}

2053  
2054  
2055 =====PACKET  
2056  
2057 Header={pktSize=1372  
2058 numberMsgs=24  
2059 deliveryFlag=11  
2060 seqNum=3  
2061 sendTime=1445358941  
2062 sendTimeNS=362816000 (2015/10/20 12:35:41.362816) }  
2063 StreamID:{size=8  
2064 type=455  
2065 streamID=49}  
2066 Symbol:{size=28  
2067 type=435  
2068 underlyingIndex=2620  
2069 symbol=ZVZZT  
2070 channelID=57  
2071 marketID=8  
2072 systemID=3  
2073 exchangeCode='Q'  
2074 priceScale=4  
2075 securityType='C'  
2076 priceResolution=5}  
2077 Series:{size=60  
2078 type=437  
2079 seriesIndex=20693890  
2080 channelID=57  
2081 marketID=8  
2082 systemID=3  
2083 streamID=49  
2084 underlyingIndex=2620  
2085 contractMultiplier=100  
2086 expiry=160115  
2087 putOrCall=0  
2088 strikePrice=1000  
2089 underlyingSymbol=ZVZZT  
2090 OCCRootCode=ZVZZT  
2091 groupID=52400  
2092 priceScale=4}  
2093 Series:{size=60  
2094 type=437  
2095 seriesIndex=20693889  
2096 channelID=57  
2097 marketID=8  
2098 systemID=3  
2099 streamID=49  
2100 underlyingIndex=2620  
2101 contractMultiplier=100  
2102 expiry=160115  
2103 putOrCall=0  
2104 strikePrice=995  
2105 underlyingSymbol=ZVZZT  
2106 OCCRootCode=ZVZZT

```
2107         groupID=52400
2108         priceScale=4}
2109     Series:{size=60
2110         type=437
2111         seriesIndex=20693888
2112         channelID=57
2113         marketID=8
2114         systemID=3
2115         streamID=49
2116         underlyingIndex=2620
2117         contractMultiplier=100
2118         expiry=160115
2119         putOrCall=0
2120         strikePrice=990
2121         underlyingSymbol=ZVZZT
2122         OCCRootCode=ZVZZT
2123         groupID=52400
2124         priceScale=4}
2125     Series:{size=60
2126         type=437
2127         seriesIndex=20693887
2128         channelID=57
2129         marketID=8
2130         systemID=3
2131         streamID=49
2132         underlyingIndex=2620
2133         contractMultiplier=100
2134         expiry=160115
2135         putOrCall=0
2136         strikePrice=985
2137         underlyingSymbol=ZVZZT
2138         OCCRootCode=ZVZZT
2139         groupID=52400
2140         priceScale=4}
2141     Series:{size=60
2142         type=437
2143         seriesIndex=20693886
2144         channelID=57
2145         marketID=8
2146         systemID=3
2147         streamID=49
2148         underlyingIndex=2620
2149         contractMultiplier=100
2150         expiry=160115
2151         putOrCall=0
2152         strikePrice=980
2153         underlyingSymbol=ZVZZT
2154         OCCRootCode=ZVZZT
2155         groupID=52400
2156         priceScale=4}
2157     Series:{size=60
2158         type=437
2159         seriesIndex=20693885
2160         channelID=57
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2161 marketID=8  
2162 systemID=3  
2163 streamID=49  
2164 underlyingIndex=2620  
2165 contractMultiplier=100  
2166 expiry=160115  
2167 putOrCall=0  
2168 strikePrice=975  
2169 underlyingSymbol=ZVZZT  
2170 OCCRootCode=ZVZZT  
2171 groupID=52400  
2172 priceScale=4}  
2173 Series:{size=60  
2174 type=437  
2175 seriesIndex=20693884  
2176 channelID=57  
2177 marketID=8  
2178 systemID=3  
2179 streamID=49  
2180 underlyingIndex=2620  
2181 contractMultiplier=100  
2182 expiry=160115  
2183 putOrCall=0  
2184 strikePrice=970  
2185 underlyingSymbol=ZVZZT  
2186 OCCRootCode=ZVZZT  
2187 groupID=52400  
2188 priceScale=4}  
2189 Series:{size=60  
2190 type=437  
2191 seriesIndex=20693883  
2192 channelID=57  
2193 marketID=8  
2194 systemID=3  
2195 streamID=49  
2196 underlyingIndex=2620  
2197 contractMultiplier=100  
2198 expiry=160115  
2199 putOrCall=0  
2200 strikePrice=965  
2201 underlyingSymbol=ZVZZT  
2202 OCCRootCode=ZVZZT  
2203 groupID=52400  
2204 priceScale=4}  
2205 Series:{size=60  
2206 type=437  
2207 seriesIndex=20693882  
2208 channelID=57  
2209 marketID=8  
2210 systemID=3  
2211 streamID=49  
2212 underlyingIndex=2620  
2213 contractMultiplier=100  
2214 expiry=160115

2215 putOrCall=0  
2216 strikePrice=960  
2217 underlyingSymbol=ZVZZT  
2218 OCCRootCode=ZVZZT  
2219 groupID=52400  
2220 priceScale=4}  
2221 Series:{size=60  
2222 type=437  
2223 seriesIndex=20693881  
2224 channelID=57  
2225 marketID=8  
2226 systemID=3  
2227 streamID=49  
2228 underlyingIndex=2620  
2229 contractMultiplier=100  
2230 expiry=160115  
2231 putOrCall=0  
2232 strikePrice=955  
2233 underlyingSymbol=ZVZZT  
2234 OCCRootCode=ZVZZT  
2235 groupID=52400  
2236 priceScale=4}  
2237 Series:{size=60  
2238 type=437  
2239 seriesIndex=20693880  
2240 channelID=57  
2241 marketID=8  
2242 systemID=3  
2243 streamID=49  
2244 underlyingIndex=2620  
2245 contractMultiplier=100  
2246 expiry=160115  
2247 putOrCall=0  
2248 strikePrice=950  
2249 underlyingSymbol=ZVZZT  
2250 OCCRootCode=ZVZZT  
2251 groupID=52400  
2252 priceScale=4}  
2253 Series:{size=60  
2254 type=437  
2255 seriesIndex=20693879  
2256 channelID=57  
2257 marketID=8  
2258 systemID=3  
2259 streamID=49  
2260 underlyingIndex=2620  
2261 contractMultiplier=100  
2262 expiry=160115  
2263 putOrCall=0  
2264 strikePrice=945  
2265 underlyingSymbol=ZVZZT  
2266 OCCRootCode=ZVZZT  
2267 groupID=52400  
2268 priceScale=4}

2269 Series:{size=60  
2270 type=437  
2271 seriesIndex=20693878  
2272 channelID=57  
2273 marketID=8  
2274 systemID=3  
2275 streamID=49  
2276 underlyingIndex=2620  
2277 contractMultiplier=100  
2278 expiry=160115  
2279 putOrCall=0  
2280 strikePrice=940  
2281 underlyingSymbol=ZVZZT  
2282 OCCRootCode=ZVZZT  
2283 groupID=52400  
2284 priceScale=4}  
2285 Series:{size=60  
2286 type=437  
2287 seriesIndex=20693877  
2288 channelID=57  
2289 marketID=8  
2290 systemID=3  
2291 streamID=49  
2292 underlyingIndex=2620  
2293 contractMultiplier=100  
2294 expiry=160115  
2295 putOrCall=0  
2296 strikePrice=935  
2297 underlyingSymbol=ZVZZT  
2298 OCCRootCode=ZVZZT  
2299 groupID=52400  
2300 priceScale=4}  
2301 Series:{size=60  
2302 type=437  
2303 seriesIndex=20693876  
2304 channelID=57  
2305 marketID=8  
2306 systemID=3  
2307 streamID=49  
2308 underlyingIndex=2620  
2309 contractMultiplier=100  
2310 expiry=160115  
2311 putOrCall=0  
2312 strikePrice=930  
2313 underlyingSymbol=ZVZZT  
2314 OCCRootCode=ZVZZT  
2315 groupID=52400  
2316 priceScale=4}  
2317 Series:{size=60  
2318 type=437  
2319 seriesIndex=20693875  
2320 channelID=57  
2321 marketID=8  
2322 systemID=3

2323 streamID=49  
2324 underlyingIndex=2620  
2325 contractMultiplier=100  
2326 expiry=160115  
2327 putOrCall=0  
2328 strikePrice=925  
2329 underlyingSymbol=ZVZZT  
2330 OCCRootCode=ZVZZT  
2331 groupID=52400  
2332 priceScale=4}  
2333 Series:{size=60  
2334 type=437  
2335 seriesIndex=20693874  
2336 channelID=57  
2337 marketID=8  
2338 systemID=3  
2339 streamID=49  
2340 underlyingIndex=2620  
2341 contractMultiplier=100  
2342 expiry=160115  
2343 putOrCall=0  
2344 strikePrice=920  
2345 underlyingSymbol=ZVZZT  
2346 OCCRootCode=ZVZZT  
2347 groupID=52400  
2348 priceScale=4}  
2349 Series:{size=60  
2350 type=437  
2351 seriesIndex=20693873  
2352 channelID=57  
2353 marketID=8  
2354 systemID=3  
2355 streamID=49  
2356 underlyingIndex=2620  
2357 contractMultiplier=100  
2358 expiry=160115  
2359 putOrCall=0  
2360 strikePrice=915  
2361 underlyingSymbol=ZVZZT  
2362 OCCRootCode=ZVZZT  
2363 groupID=52400  
2364 priceScale=4}  
2365 Series:{size=60  
2366 type=437  
2367 seriesIndex=20693872  
2368 channelID=57  
2369 marketID=8  
2370 systemID=3  
2371 streamID=49  
2372 underlyingIndex=2620  
2373 contractMultiplier=100  
2374 expiry=160115  
2375 putOrCall=0  
2376 strikePrice=910

2377 underlyingSymbol=ZVZZT  
2378 OCCRootCode=ZVZZT  
2379 groupID=52400  
2380 priceScale=4}  
2381 Series:{size=60  
2382 type=437  
2383 seriesIndex=20693871  
2384 channelID=57  
2385 marketID=8  
2386 systemID=3  
2387 streamID=49  
2388 underlyingIndex=2620  
2389 contractMultiplier=100  
2390 expiry=160115  
2391 putOrCall=0  
2392 strikePrice=905  
2393 underlyingSymbol=ZVZZT  
2394 OCCRootCode=ZVZZT  
2395 groupID=52400  
2396 priceScale=4}  
2397 Series:{size=60  
2398 type=437  
2399 seriesIndex=20693870  
2400 channelID=57  
2401 marketID=8  
2402 systemID=3  
2403 streamID=49  
2404 underlyingIndex=2620  
2405 contractMultiplier=100  
2406 expiry=160115  
2407 putOrCall=0  
2408 strikePrice=900  
2409 underlyingSymbol=ZVZZT  
2410 OCCRootCode=ZVZZT  
2411 groupID=52400  
2412 priceScale=4}  
2413 Series:{size=60  
2414 type=437  
2415 seriesIndex=20693869  
2416 channelID=57  
2417 marketID=8  
2418 systemID=3  
2419 streamID=49  
2420 underlyingIndex=2620  
2421 contractMultiplier=100  
2422 expiry=160115  
2423 putOrCall=0  
2424 strikePrice=200  
2425 underlyingSymbol=ZVZZT  
2426 OCCRootCode=ZVZZT  
2427 groupID=52400  
2428 priceScale=4}  
2429  
2430

```
2431 =====PACKET
2432
2433     Header={pktSize=1344
2434           numberMsgs=23
2435           deliveryFlag=11
2436           seqNum=27
2437           sendTime=1445358941
2438           sendTimeNS=362944000 (2015/10/20 12:35:41.362944) }
2439     StreamID:{size=8
2440             type=455
2441             streamID=49}
2442     Series:{size=60
2443           type=437
2444           seriesIndex=20693868
2445           channelID=57
2446           marketID=8
2447           systemID=3
2448           streamID=49
2449           underlyingIndex=2620
2450           contractMultiplier=100
2451           expiry=160115
2452           putOrCall=0
2453           strikePrice=195
2454           underlyingSymbol=ZVZZT
2455           OCCRootCode=ZVZZT
2456           groupID=52400
2457           priceScale=4}
2458     Series:{size=60
2459           type=437
2460           seriesIndex=20693867
2461           channelID=57
2462           marketID=8
2463           systemID=3
2464           streamID=49
2465           underlyingIndex=2620
2466           contractMultiplier=100
2467           expiry=160115
2468           putOrCall=0
2469           strikePrice=190
2470           underlyingSymbol=ZVZZT
2471           OCCRootCode=ZVZZT
2472           groupID=52400
2473           priceScale=4}
2474     Series:{size=60
2475           type=437
2476           seriesIndex=20693866
2477           channelID=57
2478           marketID=8
2479           systemID=3
2480           streamID=49
2481           underlyingIndex=2620
2482           contractMultiplier=100
2483           expiry=160115
2484           putOrCall=0
```

```
2485         strikePrice=185
2486         underlyingSymbol=ZVZZT
2487         OCCRootCode=ZVZZT
2488         groupID=52400
2489         priceScale=4}
2490     Series:{size=60
2491         type=437
2492         seriesIndex=20693865
2493         channelID=57
2494         marketID=8
2495         systemID=3
2496         streamID=49
2497         underlyingIndex=2620
2498         contractMultiplier=100
2499         expiry=160115
2500         putOrCall=0
2501         strikePrice=180
2502         underlyingSymbol=ZVZZT
2503         OCCRootCode=ZVZZT
2504         groupID=52400
2505         priceScale=4}
2506     Series:{size=60
2507         type=437
2508         seriesIndex=20693864
2509         channelID=57
2510         marketID=8
2511         systemID=3
2512         streamID=49
2513         underlyingIndex=2620
2514         contractMultiplier=100
2515         expiry=160115
2516         putOrCall=0
2517         strikePrice=175
2518         underlyingSymbol=ZVZZT
2519         OCCRootCode=ZVZZT
2520         groupID=52400
2521         priceScale=4}
2522     Series:{size=60
2523         type=437
2524         seriesIndex=20693863
2525         channelID=57
2526         marketID=8
2527         systemID=3
2528         streamID=49
2529         underlyingIndex=2620
2530         contractMultiplier=100
2531         expiry=160115
2532         putOrCall=0
2533         strikePrice=170
2534         underlyingSymbol=ZVZZT
2535         OCCRootCode=ZVZZT
2536         groupID=52400
2537         priceScale=4}
2538     Series:{size=60
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2539 type=437  
2540 seriesIndex=20693862  
2541 channelID=57  
2542 marketID=8  
2543 systemID=3  
2544 streamID=49  
2545 underlyingIndex=2620  
2546 contractMultiplier=100  
2547 expiry=160115  
2548 putOrCall=0  
2549 strikePrice=165  
2550 underlyingSymbol=ZVZZT  
2551 OCCRootCode=ZVZZT  
2552 groupID=52400  
2553 priceScale=4}  
2554 Series:{size=60  
2555 type=437  
2556 seriesIndex=20693861  
2557 channelID=57  
2558 marketID=8  
2559 systemID=3  
2560 streamID=49  
2561 underlyingIndex=2620  
2562 contractMultiplier=100  
2563 expiry=160115  
2564 putOrCall=0  
2565 strikePrice=160  
2566 underlyingSymbol=ZVZZT  
2567 OCCRootCode=ZVZZT  
2568 groupID=52400  
2569 priceScale=4}  
2570 Series:{size=60  
2571 type=437  
2572 seriesIndex=20693860  
2573 channelID=57  
2574 marketID=8  
2575 systemID=3  
2576 streamID=49  
2577 underlyingIndex=2620  
2578 contractMultiplier=100  
2579 expiry=160115  
2580 putOrCall=0  
2581 strikePrice=155  
2582 underlyingSymbol=ZVZZT  
2583 OCCRootCode=ZVZZT  
2584 groupID=52400  
2585 priceScale=4}  
2586 Series:{size=60  
2587 type=437  
2588 seriesIndex=20693859  
2589 channelID=57  
2590 marketID=8  
2591 systemID=3  
2592 streamID=49

2593 underlyingIndex=2620  
2594 contractMultiplier=100  
2595 expiry=160115  
2596 putOrCall=0  
2597 strikePrice=150  
2598 underlyingSymbol=ZVZZT  
2599 OCCRootCode=ZVZZT  
2600 groupID=52400  
2601 priceScale=4}  
2602 Series:{size=60  
2603 type=437  
2604 seriesIndex=20693858  
2605 channelID=57  
2606 marketID=8  
2607 systemID=3  
2608 streamID=49  
2609 underlyingIndex=2620  
2610 contractMultiplier=100  
2611 expiry=160115  
2612 putOrCall=0  
2613 strikePrice=145  
2614 underlyingSymbol=ZVZZT  
2615 OCCRootCode=ZVZZT  
2616 groupID=52400  
2617 priceScale=4}  
2618 Series:{size=60  
2619 type=437  
2620 seriesIndex=20693857  
2621 channelID=57  
2622 marketID=8  
2623 systemID=3  
2624 streamID=49  
2625 underlyingIndex=2620  
2626 contractMultiplier=100  
2627 expiry=160115  
2628 putOrCall=0  
2629 strikePrice=140  
2630 underlyingSymbol=ZVZZT  
2631 OCCRootCode=ZVZZT  
2632 groupID=52400  
2633 priceScale=4}  
2634 Series:{size=60  
2635 type=437  
2636 seriesIndex=20693856  
2637 channelID=57  
2638 marketID=8  
2639 systemID=3  
2640 streamID=49  
2641 underlyingIndex=2620  
2642 contractMultiplier=100  
2643 expiry=160115  
2644 putOrCall=0  
2645 strikePrice=135  
2646 underlyingSymbol=ZVZZT

```
2647     OCCRootCode=ZVZZT
2648     groupID=52400
2649     priceScale=4}
2650 Series:{size=60
2651     type=437
2652     seriesIndex=20693855
2653     channelID=57
2654     marketID=8
2655     systemID=3
2656     streamID=49
2657     underlyingIndex=2620
2658     contractMultiplier=100
2659     expiry=160115
2660     putOrCall=0
2661     strikePrice=130
2662     underlyingSymbol=ZVZZT
2663     OCCRootCode=ZVZZT
2664     groupID=52400
2665     priceScale=4}
2666 Series:{size=60
2667     type=437
2668     seriesIndex=20693854
2669     channelID=57
2670     marketID=8
2671     systemID=3
2672     streamID=49
2673     underlyingIndex=2620
2674     contractMultiplier=100
2675     expiry=160115
2676     putOrCall=0
2677     strikePrice=125
2678     underlyingSymbol=ZVZZT
2679     OCCRootCode=ZVZZT
2680     groupID=52400
2681     priceScale=4}
2682 Series:{size=60
2683     type=437
2684     seriesIndex=20693853
2685     channelID=57
2686     marketID=8
2687     systemID=3
2688     streamID=49
2689     underlyingIndex=2620
2690     contractMultiplier=100
2691     expiry=160115
2692     putOrCall=0
2693     strikePrice=120
2694     underlyingSymbol=ZVZZT
2695     OCCRootCode=ZVZZT
2696     groupID=52400
2697     priceScale=4}
2698 Series:{size=60
2699     type=437
2700     seriesIndex=20693852
```

2701 channelID=57  
2702 marketID=8  
2703 systemID=3  
2704 streamID=49  
2705 underlyingIndex=2620  
2706 contractMultiplier=100  
2707 expiry=160115  
2708 putOrCall=0  
2709 strikePrice=115  
2710 underlyingSymbol=ZVZZT  
2711 OCCRootCode=ZVZZT  
2712 groupID=52400  
2713 priceScale=4}  
2714 Series:{size=60  
2715 type=437  
2716 seriesIndex=20693851  
2717 channelID=57  
2718 marketID=8  
2719 systemID=3  
2720 streamID=49  
2721 underlyingIndex=2620  
2722 contractMultiplier=100  
2723 expiry=160115  
2724 putOrCall=0  
2725 strikePrice=110  
2726 underlyingSymbol=ZVZZT  
2727 OCCRootCode=ZVZZT  
2728 groupID=52400  
2729 priceScale=4}  
2730 Series:{size=60  
2731 type=437  
2732 seriesIndex=20693850  
2733 channelID=57  
2734 marketID=8  
2735 systemID=3  
2736 streamID=49  
2737 underlyingIndex=2620  
2738 contractMultiplier=100  
2739 expiry=160115  
2740 putOrCall=0  
2741 strikePrice=105  
2742 underlyingSymbol=ZVZZT  
2743 OCCRootCode=ZVZZT  
2744 groupID=52400  
2745 priceScale=4}  
2746 Series:{size=60  
2747 type=437  
2748 seriesIndex=20693849  
2749 channelID=57  
2750 marketID=8  
2751 systemID=3  
2752 streamID=49  
2753 underlyingIndex=2620  
2754 contractMultiplier=100

```
2755         expiry=160115
2756         putOrCall=0
2757         strikePrice=100
2758         underlyingSymbol=ZVZZT
2759         OCCRootCode=ZVZZT
2760         groupID=52400
2761         priceScale=4}
2762     Series:{size=60
2763         type=437
2764         seriesIndex=20693848
2765         channelID=57
2766         marketID=8
2767         systemID=3
2768         streamID=49
2769         underlyingIndex=2620
2770         contractMultiplier=100
2771         expiry=160115
2772         putOrCall=1
2773         strikePrice=1000
2774         underlyingSymbol=ZVZZT
2775         OCCRootCode=ZVZZT
2776         groupID=52400
2777         priceScale=4}
2778     Series:{size=60
2779         type=437
2780         seriesIndex=20693847
2781         channelID=57
2782         marketID=8
2783         systemID=3
2784         streamID=49
2785         underlyingIndex=2620
2786         contractMultiplier=100
2787         expiry=160115
2788         putOrCall=1
2789         strikePrice=995
2790         underlyingSymbol=ZVZZT
2791         OCCRootCode=ZVZZT
2792         groupID=52400
2793         priceScale=4}
2794
2795
2796     =====PACKET
2797
2798     Header={pktSize=1344
2799         numberMsgs=23
2800         deliveryFlag=11
2801         seqNum=50
2802         sendTime=1445358941
2803         sendTimeNS=363052000 (2015/10/20 12:35:41.363052)}
2804     StreamID:{size=8
2805         type=455
2806         streamID=49}
2807     Series:{size=60
2808         type=437
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2809 seriesIndex=20693846  
2810 channelID=57  
2811 marketID=8  
2812 systemID=3  
2813 streamID=49  
2814 underlyingIndex=2620  
2815 contractMultiplier=100  
2816 expiry=160115  
2817 putOrCall=1  
2818 strikePrice=990  
2819 underlyingSymbol=ZVZZT  
2820 OCCRootCode=ZVZZT  
2821 groupID=52400  
2822 priceScale=4}  
2823 Series:{size=60  
2824 type=437  
2825 seriesIndex=20693845  
2826 channelID=57  
2827 marketID=8  
2828 systemID=3  
2829 streamID=49  
2830 underlyingIndex=2620  
2831 contractMultiplier=100  
2832 expiry=160115  
2833 putOrCall=1  
2834 strikePrice=985  
2835 underlyingSymbol=ZVZZT  
2836 OCCRootCode=ZVZZT  
2837 groupID=52400  
2838 priceScale=4}  
2839 Series:{size=60  
2840 type=437  
2841 seriesIndex=20693844  
2842 channelID=57  
2843 marketID=8  
2844 systemID=3  
2845 streamID=49  
2846 underlyingIndex=2620  
2847 contractMultiplier=100  
2848 expiry=160115  
2849 putOrCall=1  
2850 strikePrice=980  
2851 underlyingSymbol=ZVZZT  
2852 OCCRootCode=ZVZZT  
2853 groupID=52400  
2854 priceScale=4}  
2855 Series:{size=60  
2856 type=437  
2857 seriesIndex=20693843  
2858 channelID=57  
2859 marketID=8  
2860 systemID=3  
2861 streamID=49  
2862 underlyingIndex=2620

2863 contractMultiplier=100  
2864 expiry=160115  
2865 putOrCall=1  
2866 strikePrice=975  
2867 underlyingSymbol=ZVZZT  
2868 OCCRootCode=ZVZZT  
2869 groupID=52400  
2870 priceScale=4}  
2871 Series:{size=60  
2872 type=437  
2873 seriesIndex=20693842  
2874 channelID=57  
2875 marketID=8  
2876 systemID=3  
2877 streamID=49  
2878 underlyingIndex=2620  
2879 contractMultiplier=100  
2880 expiry=160115  
2881 putOrCall=1  
2882 strikePrice=970  
2883 underlyingSymbol=ZVZZT  
2884 OCCRootCode=ZVZZT  
2885 groupID=52400  
2886 priceScale=4}  
2887 Series:{size=60  
2888 type=437  
2889 seriesIndex=20693841  
2890 channelID=57  
2891 marketID=8  
2892 systemID=3  
2893 streamID=49  
2894 underlyingIndex=2620  
2895 contractMultiplier=100  
2896 expiry=160115  
2897 putOrCall=1  
2898 strikePrice=965  
2899 underlyingSymbol=ZVZZT  
2900 OCCRootCode=ZVZZT  
2901 groupID=52400  
2902 priceScale=4}  
2903 Series:{size=60  
2904 type=437  
2905 seriesIndex=20693840  
2906 channelID=57  
2907 marketID=8  
2908 systemID=3  
2909 streamID=49  
2910 underlyingIndex=2620  
2911 contractMultiplier=100  
2912 expiry=160115  
2913 putOrCall=1  
2914 strikePrice=960  
2915 underlyingSymbol=ZVZZT  
2916 OCCRootCode=ZVZZT

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2917         groupID=52400
2918         priceScale=4}
2919 Series:{size=60
2920         type=437
2921         seriesIndex=20693839
2922         channelID=57
2923         marketID=8
2924         systemID=3
2925         streamID=49
2926         underlyingIndex=2620
2927         contractMultiplier=100
2928         expiry=160115
2929         putOrCall=1
2930         strikePrice=955
2931         underlyingSymbol=ZVZZT
2932         OCCRootCode=ZVZZT
2933         groupID=52400
2934         priceScale=4}
2935 Series:{size=60
2936         type=437
2937         seriesIndex=20693838
2938         channelID=57
2939         marketID=8
2940         systemID=3
2941         streamID=49
2942         underlyingIndex=2620
2943         contractMultiplier=100
2944         expiry=160115
2945         putOrCall=1
2946         strikePrice=950
2947         underlyingSymbol=ZVZZT
2948         OCCRootCode=ZVZZT
2949         groupID=52400
2950         priceScale=4}
2951 Series:{size=60
2952         type=437
2953         seriesIndex=20693837
2954         channelID=57
2955         marketID=8
2956         systemID=3
2957         streamID=49
2958         underlyingIndex=2620
2959         contractMultiplier=100
2960         expiry=160115
2961         putOrCall=1
2962         strikePrice=945
2963         underlyingSymbol=ZVZZT
2964         OCCRootCode=ZVZZT
2965         groupID=52400
2966         priceScale=4}
2967 Series:{size=60
2968         type=437
2969         seriesIndex=20693836
2970         channelID=57
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2971 marketID=8  
2972 systemID=3  
2973 streamID=49  
2974 underlyingIndex=2620  
2975 contractMultiplier=100  
2976 expiry=160115  
2977 putOrCall=1  
2978 strikePrice=940  
2979 underlyingSymbol=ZVZZT  
2980 OCCRootCode=ZVZZT  
2981 groupID=52400  
2982 priceScale=4}  
2983 Series:{size=60  
2984 type=437  
2985 seriesIndex=20693835  
2986 channelID=57  
2987 marketID=8  
2988 systemID=3  
2989 streamID=49  
2990 underlyingIndex=2620  
2991 contractMultiplier=100  
2992 expiry=160115  
2993 putOrCall=1  
2994 strikePrice=935  
2995 underlyingSymbol=ZVZZT  
2996 OCCRootCode=ZVZZT  
2997 groupID=52400  
2998 priceScale=4}  
2999 Series:{size=60  
3000 type=437  
3001 seriesIndex=20693834  
3002 channelID=57  
3003 marketID=8  
3004 systemID=3  
3005 streamID=49  
3006 underlyingIndex=2620  
3007 contractMultiplier=100  
3008 expiry=160115  
3009 putOrCall=1  
3010 strikePrice=930  
3011 underlyingSymbol=ZVZZT  
3012 OCCRootCode=ZVZZT  
3013 groupID=52400  
3014 priceScale=4}  
3015 Series:{size=60  
3016 type=437  
3017 seriesIndex=20693833  
3018 channelID=57  
3019 marketID=8  
3020 systemID=3  
3021 streamID=49  
3022 underlyingIndex=2620  
3023 contractMultiplier=100  
3024 expiry=160115

3025 putOrCall=1  
3026 strikePrice=925  
3027 underlyingSymbol=ZVZZT  
3028 OCCRootCode=ZVZZT  
3029 groupID=52400  
3030 priceScale=4}  
3031 Series:{size=60  
3032 type=437  
3033 seriesIndex=20693832  
3034 channelID=57  
3035 marketID=8  
3036 systemID=3  
3037 streamID=49  
3038 underlyingIndex=2620  
3039 contractMultiplier=100  
3040 expiry=160115  
3041 putOrCall=1  
3042 strikePrice=920  
3043 underlyingSymbol=ZVZZT  
3044 OCCRootCode=ZVZZT  
3045 groupID=52400  
3046 priceScale=4}  
3047 Series:{size=60  
3048 type=437  
3049 seriesIndex=20693831  
3050 channelID=57  
3051 marketID=8  
3052 systemID=3  
3053 streamID=49  
3054 underlyingIndex=2620  
3055 contractMultiplier=100  
3056 expiry=160115  
3057 putOrCall=1  
3058 strikePrice=915  
3059 underlyingSymbol=ZVZZT  
3060 OCCRootCode=ZVZZT  
3061 groupID=52400  
3062 priceScale=4}  
3063 Series:{size=60  
3064 type=437  
3065 seriesIndex=20693830  
3066 channelID=57  
3067 marketID=8  
3068 systemID=3  
3069 streamID=49  
3070 underlyingIndex=2620  
3071 contractMultiplier=100  
3072 expiry=160115  
3073 putOrCall=1  
3074 strikePrice=910  
3075 underlyingSymbol=ZVZZT  
3076 OCCRootCode=ZVZZT  
3077 groupID=52400  
3078 priceScale=4}

3079 Series:{size=60  
3080 type=437  
3081 seriesIndex=20693829  
3082 channelID=57  
3083 marketID=8  
3084 systemID=3  
3085 streamID=49  
3086 underlyingIndex=2620  
3087 contractMultiplier=100  
3088 expiry=160115  
3089 putOrCall=1  
3090 strikePrice=905  
3091 underlyingSymbol=ZVZZT  
3092 OCCRootCode=ZVZZT  
3093 groupID=52400  
3094 priceScale=4}  
3095 Series:{size=60  
3096 type=437  
3097 seriesIndex=20693828  
3098 channelID=57  
3099 marketID=8  
3100 systemID=3  
3101 streamID=49  
3102 underlyingIndex=2620  
3103 contractMultiplier=100  
3104 expiry=160115  
3105 putOrCall=1  
3106 strikePrice=900  
3107 underlyingSymbol=ZVZZT  
3108 OCCRootCode=ZVZZT  
3109 groupID=52400  
3110 priceScale=4}  
3111 Series:{size=60  
3112 type=437  
3113 seriesIndex=20693827  
3114 channelID=57  
3115 marketID=8  
3116 systemID=3  
3117 streamID=49  
3118 underlyingIndex=2620  
3119 contractMultiplier=100  
3120 expiry=160115  
3121 putOrCall=1  
3122 strikePrice=200  
3123 underlyingSymbol=ZVZZT  
3124 OCCRootCode=ZVZZT  
3125 groupID=52400  
3126 priceScale=4}  
3127 Series:{size=60  
3128 type=437  
3129 seriesIndex=20693826  
3130 channelID=57  
3131 marketID=8  
3132 systemID=3

```
3133         streamID=49
3134         underlyingIndex=2620
3135         contractMultiplier=100
3136         expiry=160115
3137         putOrCall=1
3138         strikePrice=195
3139         underlyingSymbol=ZVZZT
3140         OCCRootCode=ZVZZT
3141         groupID=52400
3142         priceScale=4}
3143     Series:{size=60
3144         type=437
3145         seriesIndex=20693825
3146         channelID=57
3147         marketID=8
3148         systemID=3
3149         streamID=49
3150         underlyingIndex=2620
3151         contractMultiplier=100
3152         expiry=160115
3153         putOrCall=1
3154         strikePrice=190
3155         underlyingSymbol=ZVZZT
3156         OCCRootCode=ZVZZT
3157         groupID=52400
3158         priceScale=4}
3159
3160
3161     =====PACKET
3162
3163     Header={pktSize=1104
3164         numberMsgs=19
3165         deliveryFlag=11
3166         seqNum=73
3167         sendTime=1445358941
3168         sendTimeNS=364062000 (2015/10/20 12:35:41.364062)}
3169     StreamID:{size=8
3170         type=455
3171         streamID=49}
3172     Series:{size=60
3173         type=437
3174         seriesIndex=20693824
3175         channelID=57
3176         marketID=8
3177         systemID=3
3178         streamID=49
3179         underlyingIndex=2620
3180         contractMultiplier=100
3181         expiry=160115
3182         putOrCall=1
3183         strikePrice=185
3184         underlyingSymbol=ZVZZT
3185         OCCRootCode=ZVZZT
3186         groupID=52400
```

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3187     priceScale=4}
3188 Series:{size=60
3189     type=437
3190     seriesIndex=20693823
3191     channelID=57
3192     marketID=8
3193     systemID=3
3194     streamID=49
3195     underlyingIndex=2620
3196     contractMultiplier=100
3197     expiry=160115
3198     putOrCall=1
3199     strikePrice=180
3200     underlyingSymbol=ZVZZT
3201     OCCRootCode=ZVZZT
3202     groupID=52400
3203     priceScale=4}
3204 Series:{size=60
3205     type=437
3206     seriesIndex=20693822
3207     channelID=57
3208     marketID=8
3209     systemID=3
3210     streamID=49
3211     underlyingIndex=2620
3212     contractMultiplier=100
3213     expiry=160115
3214     putOrCall=1
3215     strikePrice=175
3216     underlyingSymbol=ZVZZT
3217     OCCRootCode=ZVZZT
3218     groupID=52400
3219     priceScale=4}
3220 Series:{size=60
3221     type=437
3222     seriesIndex=20693821
3223     channelID=57
3224     marketID=8
3225     systemID=3
3226     streamID=49
3227     underlyingIndex=2620
3228     contractMultiplier=100
3229     expiry=160115
3230     putOrCall=1
3231     strikePrice=170
3232     underlyingSymbol=ZVZZT
3233     OCCRootCode=ZVZZT
3234     groupID=52400
3235     priceScale=4}
3236 Series:{size=60
3237     type=437
3238     seriesIndex=20693820
3239     channelID=57
3240     marketID=8
```

```
3241         systemID=3
3242         streamID=49
3243         underlyingIndex=2620
3244         contractMultiplier=100
3245         expiry=160115
3246         putOrCall=1
3247         strikePrice=165
3248         underlyingSymbol=ZVZZT
3249         OCCRootCode=ZVZZT
3250         groupID=52400
3251         priceScale=4}
3252     Series:{size=60
3253         type=437
3254         seriesIndex=20693819
3255         channelID=57
3256         marketID=8
3257         systemID=3
3258         streamID=49
3259         underlyingIndex=2620
3260         contractMultiplier=100
3261         expiry=160115
3262         putOrCall=1
3263         strikePrice=160
3264         underlyingSymbol=ZVZZT
3265         OCCRootCode=ZVZZT
3266         groupID=52400
3267         priceScale=4}
3268     Series:{size=60
3269         type=437
3270         seriesIndex=20693818
3271         channelID=57
3272         marketID=8
3273         systemID=3
3274         streamID=49
3275         underlyingIndex=2620
3276         contractMultiplier=100
3277         expiry=160115
3278         putOrCall=1
3279         strikePrice=155
3280         underlyingSymbol=ZVZZT
3281         OCCRootCode=ZVZZT
3282         groupID=52400
3283         priceScale=4}
3284     Series:{size=60
3285         type=437
3286         seriesIndex=20693817
3287         channelID=57
3288         marketID=8
3289         systemID=3
3290         streamID=49
3291         underlyingIndex=2620
3292         contractMultiplier=100
3293         expiry=160115
3294         putOrCall=1
```

```
3295         strikePrice=150
3296         underlyingSymbol=ZVZZT
3297         OCCRootCode=ZVZZT
3298         groupID=52400
3299         priceScale=4}
3300     Series:{size=60
3301         type=437
3302         seriesIndex=20693816
3303         channelID=57
3304         marketID=8
3305         systemID=3
3306         streamID=49
3307         underlyingIndex=2620
3308         contractMultiplier=100
3309         expiry=160115
3310         putOrCall=1
3311         strikePrice=145
3312         underlyingSymbol=ZVZZT
3313         OCCRootCode=ZVZZT
3314         groupID=52400
3315         priceScale=4}
3316     Series:{size=60
3317         type=437
3318         seriesIndex=20693815
3319         channelID=57
3320         marketID=8
3321         systemID=3
3322         streamID=49
3323         underlyingIndex=2620
3324         contractMultiplier=100
3325         expiry=160115
3326         putOrCall=1
3327         strikePrice=140
3328         underlyingSymbol=ZVZZT
3329         OCCRootCode=ZVZZT
3330         groupID=52400
3331         priceScale=4}
3332     Series:{size=60
3333         type=437
3334         seriesIndex=20693814
3335         channelID=57
3336         marketID=8
3337         systemID=3
3338         streamID=49
3339         underlyingIndex=2620
3340         contractMultiplier=100
3341         expiry=160115
3342         putOrCall=1
3343         strikePrice=135
3344         underlyingSymbol=ZVZZT
3345         OCCRootCode=ZVZZT
3346         groupID=52400
3347         priceScale=4}
3348     Series:{size=60
```

```
3349     type=437
3350     seriesIndex=20693813
3351     channelID=57
3352     marketID=8
3353     systemID=3
3354     streamID=49
3355     underlyingIndex=2620
3356     contractMultiplier=100
3357     expiry=160115
3358     putOrCall=1
3359     strikePrice=130
3360     underlyingSymbol=ZVZZT
3361     OCCRootCode=ZVZZT
3362     groupID=52400
3363     priceScale=4}
3364 Series:{size=60
3365     type=437
3366     seriesIndex=20693812
3367     channelID=57
3368     marketID=8
3369     systemID=3
3370     streamID=49
3371     underlyingIndex=2620
3372     contractMultiplier=100
3373     expiry=160115
3374     putOrCall=1
3375     strikePrice=125
3376     underlyingSymbol=ZVZZT
3377     OCCRootCode=ZVZZT
3378     groupID=52400
3379     priceScale=4}
3380 Series:{size=60
3381     type=437
3382     seriesIndex=20693811
3383     channelID=57
3384     marketID=8
3385     systemID=3
3386     streamID=49
3387     underlyingIndex=2620
3388     contractMultiplier=100
3389     expiry=160115
3390     putOrCall=1
3391     strikePrice=120
3392     underlyingSymbol=ZVZZT
3393     OCCRootCode=ZVZZT
3394     groupID=52400
3395     priceScale=4}
3396 Series:{size=60
3397     type=437
3398     seriesIndex=20693810
3399     channelID=57
3400     marketID=8
3401     systemID=3
3402     streamID=49
```

```
3403     underlyingIndex=2620
3404     contractMultiplier=100
3405     expiry=160115
3406     putOrCall=1
3407     strikePrice=115
3408     underlyingSymbol=ZVZZT
3409     OCCRootCode=ZVZZT
3410     groupID=52400
3411     priceScale=4}
3412 Series:{size=60
3413     type=437
3414     seriesIndex=20693809
3415     channelID=57
3416     marketID=8
3417     systemID=3
3418     streamID=49
3419     underlyingIndex=2620
3420     contractMultiplier=100
3421     expiry=160115
3422     putOrCall=1
3423     strikePrice=110
3424     underlyingSymbol=ZVZZT
3425     OCCRootCode=ZVZZT
3426     groupID=52400
3427     priceScale=4}
3428 Series:{size=60
3429     type=437
3430     seriesIndex=20693808
3431     channelID=57
3432     marketID=8
3433     systemID=3
3434     streamID=49
3435     underlyingIndex=2620
3436     contractMultiplier=100
3437     expiry=160115
3438     putOrCall=1
3439     strikePrice=105
3440     underlyingSymbol=ZVZZT
3441     OCCRootCode=ZVZZT
3442     groupID=52400
3443     priceScale=4}
3444 Series:{size=60
3445     type=437
3446     seriesIndex=20693807
3447     channelID=57
3448     marketID=8
3449     systemID=3
3450     streamID=49
3451     underlyingIndex=2620
3452     contractMultiplier=100
3453     expiry=160115
3454     putOrCall=1
3455     strikePrice=100
3456     underlyingSymbol=ZVZZT
```

```
3457         OCCRootCode=ZVZZT
3458         groupID=52400
3459         priceScale=4}
3460
3461
3462 # =====
3463 # HEARTBEATS =====
3464 # =====
3465
3466
3467
3468 =====PACKET
3469
3470     Header={pktSize=24
3471             numberMsgs=1
3472             deliveryFlag=1
3473             seqNum=3
3474             sendTime=1445359452
3475             sendTimeNS=597000 (2015/10/20 12:44:12.597)}
3476     StreamID:{size=8
3477               type=455
3478               streamID=48}
3479
3480
3481 =====PACKET
3482
3483     Header={pktSize=24
3484             numberMsgs=1
3485             deliveryFlag=1
3486             seqNum=127
3487             sendTime=1445359452
3488             sendTimeNS=289960000 (2015/10/20 12:44:12.289960)}
3489     StreamID:{size=8
3490               type=455
3491               streamID=50}
3492
3493
3494 =====PACKET
3495
3496     Header={pktSize=24
3497             numberMsgs=1
3498             deliveryFlag=1
3499             seqNum=92
3500             sendTime=1445359452
3501             sendTimeNS=364287000 (2015/10/20 12:44:12.364287)}
3502     StreamID:{size=8
3503               type=455
3504               streamID=49}
3505
3506
3507 =====PACKET
3508
3509     Header={pktSize=24
3510             numberMsgs=1
```

```
3511         deliveryFlag=1
3512         seqNum=3
3513         sendTime=1445359482
3514         sendTimeNS=600000 (2015/10/20 12:44:42.600)}
3515     StreamID:{size=8
3516         type=455
3517         streamID=48}
3518
3519
3520     =====PACKET
3521
3522     Header={pktSize=24
3523         numberMsgs=1
3524         deliveryFlag=1
3525         seqNum=127
3526         sendTime=1445359482
3527         sendTimeNS=289962000 (2015/10/20 12:44:42.289962)}
3528     StreamID:{size=8
3529         type=455
3530         streamID=50}
3531
3532
3533     =====PACKET
3534
3535     Header={pktSize=24
3536         numberMsgs=1
3537         deliveryFlag=1
3538         seqNum=92
3539         sendTime=1445359482
3540         sendTimeNS=364293000 (2015/10/20 12:44:42.364293)}
3541     StreamID:{size=8
3542         type=455
3543         streamID=49}
3544
3545
3546     # =====
3547     # SCENARIO MESSAGES =====
3548     # =====
3549
3550     =====PACKET
3551
3552     Header={pktSize=48
3553         numberMsgs=2
3554         deliveryFlag=11
3555         seqNum=92
3556         sendTime=1445359502
3557         sendTimeNS=159330000 (2015/10/20 12:45:02.159330)}
3558     StreamID:{size=8
3559         type=455
3560         streamID=49}
3561     Underlying Status:{size=24
3562         type=419
3563         sourceTime=1445359502
3564         sourceTimeNS=159190000 (2015/10/20 12:45:02.159190)}
```

```
3565         symbolSeqNum=0
3566         UnderlyingIndex=2620
3567         Status=0}
3568
3569
3570 =====PACKET
3571
3572     Header={pktSize=24
3573             numberMsgs=1
3574             deliveryFlag=1
3575             seqNum=127
3576             sendTime=1445359512
3577             sendTimeNS=289966000 (2015/10/20 12:45:12.289966) }
3578     StreamID:{size=8
3579              type=455
3580              streamID=50}
3581
3582
3583 =====PACKET
3584
3585     Header={pktSize=24
3586             numberMsgs=1
3587             deliveryFlag=1
3588             seqNum=94
3589             sendTime=1445359532
3590             sendTimeNS=159334000 (2015/10/20 12:45:32.159334) }
3591     StreamID:{size=8
3592              type=455
3593              streamID=49}
3594
3595
3596 =====PACKET
3597
3598     Header={pktSize=24
3599             numberMsgs=1
3600             deliveryFlag=1
3601             seqNum=3
3602             sendTime=1445359542
3603             sendTimeNS=606000 (2015/10/20 12:45:42.606) }
3604     StreamID:{size=8
3605              type=455
3606              streamID=48}
3607
3608
3609 =====PACKET
3610
3611     Header={pktSize=24
3612             numberMsgs=1
3613             deliveryFlag=1
3614             seqNum=127
3615             sendTime=1445359542
3616             sendTimeNS=289970000 (2015/10/20 12:45:42.289970) }
3617     StreamID:{size=8
3618              type=455
```

```
3619         streamID=50}
3620
3621
3622 =====PACKET
3623
3624     Header={pktSize=24
3625             numberMsgs=1
3626             deliveryFlag=1
3627             seqNum=94
3628             sendTime=1445359562
3629             sendTimeNS=159337000 (2015/10/20 12:46:02.159337)}
3630     StreamID:{size=8
3631               type=455
3632               streamID=49}
3633
3634
3635 =====PACKET
3636
3637     Header={pktSize=24
3638             numberMsgs=1
3639             deliveryFlag=1
3640             seqNum=3
3641             sendTime=1445359572
3642             sendTimeNS=611000 (2015/10/20 12:46:12.611)}
3643     StreamID:{size=8
3644               type=455
3645               streamID=48}
3646
3647
3648 =====PACKET
3649
3650     Header={pktSize=104
3651             numberMsgs=3
3652             deliveryFlag=11
3653             seqNum=127
3654             sendTime=1445359608
3655             sendTimeNS=282000 (2015/10/20 12:46:48.282)}
3656     StreamID:{size=8
3657               type=455
3658               streamID=50}
3659     Top:{size=40
3660           type=401
3661           sourceTime=1445359608
3662           sourceTimeNS=139000 (2015/10/20 12:46:48.139)
3663           symbolSeqNum=1
3664           series=20693761
3665           askPrice=53000
3666           bidPrice=50000
3667           askShares=1
3668           bidShares=1
3669           askCustomerShares=0
3670           bidCustomerShares=0
3671           quoteCondition=4}
3672     Top:{size=40
```

```
3673         type=401
3674         sourceTime=1445359608
3675         sourceTimeNS=168000 (2015/10/20 12:46:48.168)
3676         symbolSeqNum=1
3677         series=20693763
3678         askPrice=53000
3679         bidPrice=50000
3680         askShares=1
3681         bidShares=1
3682         askCustomerShares=0
3683         bidCustomerShares=0
3684         quoteCondition=4}
3685
3686
3687  =====PACKET
3688
3689     Header={pktSize=184
3690             numberMsgs=5
3691             deliveryFlag=11
3692             seqNum=130
3693             sendTime=1445359608
3694             sendTimeNS=420000 (2015/10/20 12:46:48.420)}
3695     StreamID:{size=8
3696               type=455
3697               streamID=50}
3698     Top:{size=40
3699          type=401
3700          sourceTime=1445359608
3701          sourceTimeNS=194000 (2015/10/20 12:46:48.194)
3702          symbolSeqNum=1
3703          series=20693719
3704          askPrice=53000
3705          bidPrice=50000
3706          askShares=1
3707          bidShares=1
3708          askCustomerShares=0
3709          bidCustomerShares=0
3710          quoteCondition=4}
3711     Top:{size=40
3712          type=401
3713          sourceTime=1445359608
3714          sourceTimeNS=224000 (2015/10/20 12:46:48.224)
3715          symbolSeqNum=1
3716          series=20693720
3717          askPrice=53000
3718          bidPrice=50000
3719          askShares=1
3720          bidShares=1
3721          askCustomerShares=0
3722          bidCustomerShares=0
3723          quoteCondition=4}
3724     Top:{size=40
3725          type=401
3726          sourceTime=1445359608
```

```
3727         sourceTimeNS=257000 (2015/10/20 12:46:48.257)
3728         symbolSeqNum=1
3729         series=20693721
3730         askPrice=53000
3731         bidPrice=50000
3732         askShares=1
3733         bidShares=1
3734         askCustomerShares=0
3735         bidCustomerShares=0
3736         quoteCondition=4}
3737     Top:{size=40
3738         type=401
3739         sourceTime=1445359608
3740         sourceTimeNS=288000 (2015/10/20 12:46:48.288)
3741         symbolSeqNum=1
3742         series=20693722
3743         askPrice=53000
3744         bidPrice=50000
3745         askShares=1
3746         bidShares=1
3747         askCustomerShares=0
3748         bidCustomerShares=0
3749         quoteCondition=4}
3750
3751
3752     =====PACKET
3753
3754     Header={pktSize=768
3755         numberMsgs=24
3756         deliveryFlag=11
3757         seqNum=135
3758         sendTime=1445359608
3759         sendTimeNS=987422000 (2015/10/20 12:46:48.987422) }
3760     StreamID:{size=8
3761         type=455
3762         streamID=50}
3763     Underlying Status:{size=24
3764         type=419
3765         sourceTime=1445359608
3766         sourceTimeNS=987081000 (2015/10/20 12:46:48.987081)
3767         symbolSeqNum=0
3768         UnderlyingIndex=2619
3769         Status=0}
3770     Top:{size=40
3771         type=401
3772         sourceTime=1445359608
3773         sourceTimeNS=987194000 (2015/10/20 12:46:48.987194)
3774         symbolSeqNum=2
3775         series=20693763
3776         askPrice=53000
3777         bidPrice=50000
3778         askShares=1
3779         bidShares=1
3780         askCustomerShares=0
```

3781 bidCustomerShares=0  
3782 quoteCondition=2}  
3783 Top:{size=40  
3784 type=401  
3785 sourceTime=1445359608  
3786 sourceTimeNS=987208000 (2015/10/20 12:46:48.987208)  
3787 symbolSeqNum=2  
3788 series=20693761  
3789 askPrice=53000  
3790 bidPrice=50000  
3791 askShares=1  
3792 bidShares=1  
3793 askCustomerShares=0  
3794 bidCustomerShares=0  
3795 quoteCondition=2}  
3796 Top:{size=40  
3797 type=401  
3798 sourceTime=1445359608  
3799 sourceTimeNS=987276000 (2015/10/20 12:46:48.987276)  
3800 symbolSeqNum=2  
3801 series=20693722  
3802 askPrice=53000  
3803 bidPrice=50000  
3804 askShares=1  
3805 bidShares=1  
3806 askCustomerShares=0  
3807 bidCustomerShares=0  
3808 quoteCondition=2}  
3809 Top:{size=40  
3810 type=401  
3811 sourceTime=1445359608  
3812 sourceTimeNS=987280000 (2015/10/20 12:46:48.987280)  
3813 symbolSeqNum=2  
3814 series=20693721  
3815 askPrice=53000  
3816 bidPrice=50000  
3817 askShares=1  
3818 bidShares=1  
3819 askCustomerShares=0  
3820 bidCustomerShares=0  
3821 quoteCondition=2}  
3822 Top:{size=40  
3823 type=401  
3824 sourceTime=1445359608  
3825 sourceTimeNS=987285000 (2015/10/20 12:46:48.987285)  
3826 symbolSeqNum=2  
3827 series=20693720  
3828 askPrice=53000  
3829 bidPrice=50000  
3830 askShares=1  
3831 bidShares=1  
3832 askCustomerShares=0  
3833 bidCustomerShares=0  
3834 quoteCondition=2}

3835 Top:{size=40  
3836 type=401  
3837 sourceTime=1445359608  
3838 sourceTimeNS=987289000 (2015/10/20 12:46:48.987289)  
3839 symbolSeqNum=2  
3840 series=20693719  
3841 askPrice=53000  
3842 bidPrice=50000  
3843 askShares=1  
3844 bidShares=1  
3845 askCustomerShares=0  
3846 bidCustomerShares=0  
3847 quoteCondition=2}  
3848 Series Status:{size=24  
3849 type=421  
3850 sourceTime=1445359608  
3851 sourceTimeNS=987089000 (2015/10/20 12:46:48.987089)  
3852 symbolSeqNum=3  
3853 series=20693761  
3854 Status=0}  
3855 Top:{size=40  
3856 type=401  
3857 sourceTime=1445359608  
3858 sourceTimeNS=987087000 (2015/10/20 12:46:48.987087)  
3859 symbolSeqNum=4  
3860 series=20693761  
3861 askPrice=53000  
3862 bidPrice=50000  
3863 askShares=1  
3864 bidShares=1  
3865 askCustomerShares=0  
3866 bidCustomerShares=0  
3867 quoteCondition=1}  
3868 Series Status:{size=24  
3869 type=421  
3870 sourceTime=1445359608  
3871 sourceTimeNS=987101000 (2015/10/20 12:46:48.987101)  
3872 symbolSeqNum=3  
3873 series=20693763  
3874 Status=0}  
3875 Top:{size=40  
3876 type=401  
3877 sourceTime=1445359608  
3878 sourceTimeNS=987098000 (2015/10/20 12:46:48.987098)  
3879 symbolSeqNum=4  
3880 series=20693763  
3881 askPrice=53000  
3882 bidPrice=50000  
3883 askShares=1  
3884 bidShares=1  
3885 askCustomerShares=0  
3886 bidCustomerShares=0  
3887 quoteCondition=1}  
3888 Series Status:{size=24

3889           type=421  
3890           sourceTime=1445359608  
3891           sourceTimeNS=987120000 (2015/10/20 12:46:48.987120)  
3892           symbolSeqNum=1  
3893           series=20693806  
3894           Status=N}  
3895       Series Status:{size=24  
3896           type=421  
3897           sourceTime=1445359608  
3898           sourceTimeNS=987130000 (2015/10/20 12:46:48.987130)  
3899           symbolSeqNum=1  
3900           series=20693717  
3901           Status=N}  
3902       Series Status:{size=24  
3903           type=421  
3904           sourceTime=1445359608  
3905           sourceTimeNS=987138000 (2015/10/20 12:46:48.987138)  
3906           symbolSeqNum=3  
3907           series=20693719  
3908           Status=O}  
3909       Top:{size=40  
3910           type=401  
3911           sourceTime=1445359608  
3912           sourceTimeNS=987136000 (2015/10/20 12:46:48.987136)  
3913           symbolSeqNum=4  
3914           series=20693719  
3915           askPrice=53000  
3916           bidPrice=50000  
3917           askShares=1  
3918           bidShares=1  
3919           askCustomerShares=0  
3920           bidCustomerShares=0  
3921           quoteCondition=1}  
3922       Series Status:{size=24  
3923           type=421  
3924           sourceTime=1445359608  
3925           sourceTimeNS=987145000 (2015/10/20 12:46:48.987145)  
3926           symbolSeqNum=3  
3927           series=20693720  
3928           Status=O}  
3929       Top:{size=40  
3930           type=401  
3931           sourceTime=1445359608  
3932           sourceTimeNS=987143000 (2015/10/20 12:46:48.987143)  
3933           symbolSeqNum=4  
3934           series=20693720  
3935           askPrice=53000  
3936           bidPrice=50000  
3937           askShares=1  
3938           bidShares=1  
3939           askCustomerShares=0  
3940           bidCustomerShares=0  
3941           quoteCondition=1}  
3942       Series Status:{size=24

3943 type=421  
3944 sourceTime=1445359608  
3945 sourceTimeNS=987149000 (2015/10/20 12:46:48.987149)  
3946 symbolSeqNum=3  
3947 series=20693721  
3948 Status=0}  
3949 Top:{size=40  
3950 type=401  
3951 sourceTime=1445359608  
3952 sourceTimeNS=987149000 (2015/10/20 12:46:48.987149)  
3953 symbolSeqNum=4  
3954 series=20693721  
3955 askPrice=53000  
3956 bidPrice=50000  
3957 askShares=1  
3958 bidShares=1  
3959 askCustomerShares=0  
3960 bidCustomerShares=0  
3961 quoteCondition=1}  
3962 Series Status:{size=24  
3963 type=421  
3964 sourceTime=1445359608  
3965 sourceTimeNS=987156000 (2015/10/20 12:46:48.987156)  
3966 symbolSeqNum=3  
3967 series=20693722  
3968 Status=0}  
3969 Top:{size=40  
3970 type=401  
3971 sourceTime=1445359608  
3972 sourceTimeNS=987153000 (2015/10/20 12:46:48.987153)  
3973 symbolSeqNum=4  
3974 series=20693722  
3975 askPrice=53000  
3976 bidPrice=50000  
3977 askShares=1  
3978 bidShares=1  
3979 askCustomerShares=0  
3980 bidCustomerShares=0  
3981 quoteCondition=1}  
3982 Series Status:{size=24  
3983 type=421  
3984 sourceTime=1445359608  
3985 sourceTimeNS=987173000 (2015/10/20 12:46:48.987173)  
3986 symbolSeqNum=1  
3987 series=20693759  
3988 Status=N}  
3989 Series Status:{size=24  
3990 type=421  
3991 sourceTime=1445359608  
3992 sourceTimeNS=987179000 (2015/10/20 12:46:48.987179)  
3993 symbolSeqNum=1  
3994 series=20693760  
3995 Status=N}  
3996

```
3997
3998 =====PACKET
3999
4000     Header={pktSize=48
4001             numberMsgs=2
4002             deliveryFlag=11
4003             seqNum=159
4004             sendTime=1445359608
4005             sendTimeNS=990572000 (2015/10/20 12:46:48.990572)}
4006     StreamID:{size=8
4007             type=455
4008             streamID=50}
4009     Underlying Status:{size=24
4010             type=419
4011             sourceTime=1445359608
4012             sourceTimeNS=990511000 (2015/10/20 12:46:48.990511)
4013             symbolSeqNum=0
4014             UnderlyingIndex=2610
4015             Status=0}
4016
4017
4018 =====PACKET
4019
4020     Header={pktSize=48
4021             numberMsgs=2
4022             deliveryFlag=11
4023             seqNum=161
4024             sendTime=1445359617
4025             sendTimeNS=393193000 (2015/10/20 12:46:57.393193)}
4026     StreamID:{size=8
4027             type=455
4028             streamID=50}
4029     Series Status:{size=24
4030             type=421
4031             sourceTime=1445359617
4032             sourceTimeNS=393181000 (2015/10/20 12:46:57.393181)
4033             symbolSeqNum=1
4034             series=20691685
4035             Status=0}
4036
4037
4038 =====PACKET
4039
4040     Header={pktSize=72
4041             numberMsgs=3
4042             deliveryFlag=11
4043             seqNum=163
4044             sendTime=1445359618
4045             sendTimeNS=37865000 (2015/10/20 12:46:58.37865)}
4046     StreamID:{size=8
4047             type=455
4048             streamID=50}
4049     Series Status:{size=24
4050             type=421
```

```
4051         sourceTime=1445359618
4052         sourceTimeNS=37824000 (2015/10/20 12:46:58.37824)
4053         symbolSeqNum=1
4054         series=20691701
4055         Status=0}
4056     Series Status:{size=24
4057         type=421
4058         sourceTime=1445359618
4059         sourceTimeNS=37824000 (2015/10/20 12:46:58.37842)
4060         symbolSeqNum=1
4061         series=20691686
4062         Status=0}
4063
4064
4065     =====PACKET
4066
4067     Header={pktSize=48
4068         numberMsgs=2
4069         deliveryFlag=11
4070         seqNum=166
4071         sendTime=1445359618
4072         sendTimeNS=41555000 (2015/10/20 12:46:58.41555)}
4073     StreamID:{size=8
4074         type=455
4075         streamID=50}
4076     Series Status:{size=24
4077         type=421
4078         sourceTime=1445359618
4079         sourceTimeNS=41541000 (2015/10/20 12:46:58.41541)
4080         symbolSeqNum=1
4081         series=20691695
4082         Status=0}
4083
4084
4085     =====PACKET
4086
4087     Header={pktSize=48
4088         numberMsgs=2
4089         deliveryFlag=11
4090         seqNum=168
4091         sendTime=1445359619
4092         sendTimeNS=15039000 (2015/10/20 12:46:59.15039)}
4093     StreamID:{size=8
4094         type=455
4095         streamID=50}
4096     Series Status:{size=24
4097         type=421
4098         sourceTime=1445359619
4099         sourceTimeNS=15009000 (2015/10/20 12:46:59.15009)
4100         symbolSeqNum=2
4101         series=20693759
4102         Status=L}
4103
4104
```

```
4105 =====PACKET
4106
4107     Header={pktSize=60
4108           numberMsgs=2
4109           deliveryFlag=11
4110           seqNum=170
4111           sendTime=1445359619
4112           sendTimeNS=27704000 (2015/10/20 12:46:59.27704)}
4113     StreamID:{size=8
4114             type=455
4115             streamID=50}
4116     Trade:{size=36
4117           type=407
4118           sourceTime=1445359619
4119           sourceTimeNS=27641000 (2015/10/20 12:46:59.27641)
4120           symbolSeqNum=3
4121           series=20693759
4122           tradeID=1
4123           tradePrice=53000
4124           tradeVolume=1
4125           tradeCondition_1=' '
4126           tradeCondition_2=' '}
```

```
4127
4128
4129 =====PACKET
4130
4131     Header={pktSize=64
4132           numberMsgs=2
4133           deliveryFlag=11
4134           seqNum=172
4135           sendTime=1445359619
4136           sendTimeNS=27882000 (2015/10/20 12:46:59.27882)}
4137     StreamID:{size=8
4138             type=455
4139             streamID=50}
4140     Top:{size=40
4141         type=401
4142         sourceTime=1445359619
4143         sourceTimeNS=27799000 (2015/10/20 12:46:59.27799)
4144         symbolSeqNum=4
4145         series=20693759
4146         askPrice=0
4147         bidPrice=50000
4148         askShares=0
4149         bidShares=1
4150         askCustomerShares=0
4151         bidCustomerShares=0
4152         quoteCondition=1}
```

```
4153
4154
4155 =====PACKET
4156
4157     Header={pktSize=24
4158           numberMsgs=1
```

```
4159         deliveryFlag=1
4160         seqNum=94
4161         sendTime=1445359622
4162         sendTimeNS=159344000 (2015/10/20 12:47:02.159344) }
4163     StreamID:{size=8
4164         type=455
4165         streamID=49}
4166
4167
4168     =====PACKET
4169
4170     Header={pktSize=48
4171         numberMsgs=2
4172         deliveryFlag=11
4173         seqNum=174
4174         sendTime=1445359627
4175         sendTimeNS=392913000 (2015/10/20 12:47:07.392913) }
4176     StreamID:{size=8
4177         type=455
4178         streamID=50}
4179     Series Status:{size=24
4180         type=421
4181         sourceTime=1445359627
4182         sourceTimeNS=392885000 (2015/10/20 12:47:07.392885)
4183         symbolSeqNum=1
4184         series=20691691
4185         Status=0}
4186
4187
4188     =====PACKET
4189
4190     Header={pktSize=48
4191         numberMsgs=2
4192         deliveryFlag=11
4193         seqNum=176
4194         sendTime=1445359628
4195         sendTimeNS=17795000 (2015/10/20 12:47:08.17795) }
4196     StreamID:{size=8
4197         type=455
4198         streamID=50}
4199     Series Status:{size=24
4200         type=421
4201         sourceTime=1445359628
4202         sourceTimeNS=17763000 (2015/10/20 12:47:08.17763)
4203         symbolSeqNum=1
4204         series=20691706
4205         Status=0}
4206
4207
4208     =====PACKET
4209
4210     Header={pktSize=24
4211         numberMsgs=1
4212         deliveryFlag=1
```

```
4213         seqNum=3
4214         sendTime=1445359632
4215         sendTimeNS=620000 (2015/10/20 12:47:12.620)}
4216     StreamID:{size=8
4217         type=455
4218         streamID=48}
4219
4220
4221     =====PACKET
4222
4223     Header={pktSize=224
4224         numberMsgs=6
4225         deliveryFlag=11
4226         seqNum=178
4227         sendTime=1445359635
4228         sendTimeNS=406499000 (2015/10/20 12:47:15.406499)}
4229     StreamID:{size=8
4230         type=455
4231         streamID=50}
4232     Top:{size=40
4233         type=401
4234         sourceTime=1445359635
4235         sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
4236         symbolSeqNum=5
4237         series=20693719
4238         askPrice=0
4239         bidPrice=0
4240         askShares=0
4241         bidShares=0
4242         askCustomerShares=0
4243         bidCustomerShares=0
4244         quoteCondition=1}
4245     Top:{size=40
4246         type=401
4247         sourceTime=1445359635
4248         sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
4249         symbolSeqNum=5
4250         series=20693720
4251         askPrice=0
4252         bidPrice=0
4253         askShares=0
4254         bidShares=0
4255         askCustomerShares=0
4256         bidCustomerShares=0
4257         quoteCondition=1}
4258     Top:{size=40
4259         type=401
4260         sourceTime=1445359635
4261         sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
4262         symbolSeqNum=5
4263         series=20693759
4264         askPrice=0
4265         bidPrice=0
4266         askShares=0
```

```
4267         bidShares=0
4268         askCustomerShares=0
4269         bidCustomerShares=0
4270         quoteCondition=1}
4271     Top:{size=40
4272         type=401
4273         sourceTime=1445359635
4274         sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
4275         symbolSeqNum=5
4276         series=20693761
4277         askPrice=0
4278         bidPrice=0
4279         askShares=0
4280         bidShares=0
4281         askCustomerShares=0
4282         bidCustomerShares=0
4283         quoteCondition=1}
4284     Top:{size=40
4285         type=401
4286         sourceTime=1445359635
4287         sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
4288         symbolSeqNum=5
4289         series=20693763
4290         askPrice=0
4291         bidPrice=0
4292         askShares=0
4293         bidShares=0
4294         askCustomerShares=0
4295         bidCustomerShares=0
4296         quoteCondition=1}
4297
4298
4299     =====PACKET
4300
4301     Header={pktSize=104
4302         numberMsgs=3
4303         deliveryFlag=11
4304         seqNum=184
4305         sendTime=1445359635
4306         sendTimeNS=406586000 (2015/10/20 12:47:15.406586)}
4307     StreamID:{size=8
4308         type=455
4309         streamID=50}
4310     Top:{size=40
4311         type=401
4312         sourceTime=1445359635
4313         sourceTimeNS=406445000 (2015/10/20 12:47:15.406445)
4314         symbolSeqNum=5
4315         series=20693721
4316         askPrice=0
4317         bidPrice=0
4318         askShares=0
4319         bidShares=0
4320         askCustomerShares=0
```

```
4321         bidCustomerShares=0
4322         quoteCondition=1}
4323     Top:{size=40
4324         type=401
4325         sourceTime=1445359635
4326         sourceTimeNS=406445000 (2015/10/20 12:47:15.406445)
4327         symbolSeqNum=5
4328         series=20693722
4329         askPrice=0
4330         bidPrice=0
4331         askShares=0
4332         bidShares=0
4333         askCustomerShares=0
4334         bidCustomerShares=0
4335         quoteCondition=1}
4336
4337
4338     =====PACKET
4339
4340         Header={pktSize=24
4341             numberMsgs=1
4342             deliveryFlag=1
4343             seqNum=94
4344             sendTime=1445359652
4345             sendTimeNS=159346000 (2015/10/20 12:47:32.159346) }
4346         StreamID:{size=8
4347             type=455
4348             streamID=49}
4349
4350
4351     =====PACKET
4352
4353         Header={pktSize=24
4354             numberMsgs=1
4355             deliveryFlag=1
4356             seqNum=3
4357             sendTime=1445359662
4358             sendTimeNS=622000 (2015/10/20 12:47:42.622) }
4359         StreamID:{size=8
4360             type=455
4361             streamID=48}
4362
4363
4364     =====PACKET
4365
4366         Header={pktSize=24
4367             numberMsgs=1
4368             deliveryFlag=1
4369             seqNum=187
4370             sendTime=1445359665
4371             sendTimeNS=406669000 (2015/10/20 12:47:45.406669) }
4372         StreamID:{size=8
4373             type=455
4374             streamID=50}
```

```
4375
4376
4377 =====PACKET
4378
4379     Header={pktSize=48
4380             numberMsgs=2
4381             deliveryFlag=11
4382             seqNum=187
4383             sendTime=1445359680
4384             sendTimeNS=111460000 (2015/10/20 12:48:00.111460)}
4385     StreamID:{size=8
4386             type=455
4387             streamID=50}
4388     Series Status:{size=24
4389             type=421
4390             sourceTime=1445359680
4391             sourceTimeNS=111446000 (2015/10/20 12:48:00.111446)
4392             symbolSeqNum=1
4393             series=20691702
4394             Status=0}
4395
4396
4397 =====PACKET
4398
4399     Header={pktSize=24
4400             numberMsgs=1
4401             deliveryFlag=1
4402             seqNum=94
4403             sendTime=1445359682
4404             sendTimeNS=159350000 (2015/10/20 12:48:02.159350)}
4405     StreamID:{size=8
4406             type=455
4407             streamID=49}
4408
4409
4410 =====PACKET
4411
4412     Header={pktSize=72
4413             numberMsgs=3
4414             deliveryFlag=11
4415             seqNum=189
4416             sendTime=1445359685
4417             sendTimeNS=18984000 (2015/10/20 12:48:05.18984)}
4418     StreamID:{size=8
4419             type=455
4420             streamID=50}
4421     Series Status:{size=24
4422             type=421
4423             sourceTime=1445359685
4424             sourceTimeNS=18950000 (2015/10/20 12:48:05.18950)
4425             symbolSeqNum=1
4426             series=20691689
4427             Status=0}
4428     Series Status:{size=24
```

```
4429         type=421
4430         sourceTime=1445359685
4431         sourceTimeNS=18963000 (2015/10/20 12:48:05.18963)
4432         symbolSeqNum=1
4433         series=20691690
4434         Status=0}
4435
4436
4437 =====PACKET
4438
4439     Header={pktSize=72
4440             numberMsgs=3
4441             deliveryFlag=11
4442             seqNum=192
4443             sendTime=1445359686
4444             sendTimeNS=512872000 (2015/10/20 12:48:06.512872)}
4445     StreamID:{size=8
4446               type=455
4447               streamID=50}
4448     Series Status:{size=24
4449                   type=421
4450                   sourceTime=1445359686
4451                   sourceTimeNS=512833000 (2015/10/20 12:48:06.512833)
4452                   symbolSeqNum=1
4453                   series=20691708
4454                   Status=0}
4455     Series Status:{size=24
4456                   type=421
4457                   sourceTime=1445359686
4458                   sourceTimeNS=512855000 (2015/10/20 12:48:06.512855)
4459                   symbolSeqNum=1
4460                   series=20691698
4461                   Status=0}
4462
4463
4464 =====PACKET
4465
4466     Header={pktSize=24
4467             numberMsgs=1
4468             deliveryFlag=1
4469             seqNum=3
4470             sendTime=1445359692
4471             sendTimeNS=629000 (2015/10/20 12:48:12.629)}
4472     StreamID:{size=8
4473               type=455
4474               streamID=48}
4475
4476
4477 =====PACKET
4478
4479     Header={pktSize=24
4480             numberMsgs=1
4481             deliveryFlag=1
4482             seqNum=94
```

```
4483         sendTime=1445359712
4484         sendTimeNS=159354000 (2015/10/20 12:48:32.159354) }
4485     StreamID:{size=8
4486         type=455
4487         streamID=49}
4488
4489
4490     =====PACKET
4491
4492     Header={pktSize=24
4493         numberMsgs=1
4494         deliveryFlag=1
4495         seqNum=195
4496         sendTime=1445359716
4497         sendTimeNS=512878000 (2015/10/20 12:48:36.512878) }
4498     StreamID:{size=8
4499         type=455
4500         streamID=50}
4501
4502
4503     =====PACKET
4504
4505     Header={pktSize=24
4506         numberMsgs=1
4507         deliveryFlag=1
4508         seqNum=3
4509         sendTime=1445359722
4510         sendTimeNS=631000 (2015/10/20 12:48:42.631) }
4511     StreamID:{size=8
4512         type=455
4513         streamID=48}
4514
4515
4516     =====PACKET
4517
4518     Header={pktSize=72
4519         numberMsgs=3
4520         deliveryFlag=11
4521         seqNum=195
4522         sendTime=1445359727
4523         sendTimeNS=48550000 (2015/10/20 12:48:47.48550) }
4524     StreamID:{size=8
4525         type=455
4526         streamID=50}
4527     Series Status:{size=24
4528         type=421
4529         sourceTime=1445359727
4530         sourceTimeNS=48512000 (2015/10/20 12:48:47.48512)
4531         symbolSeqNum=1
4532         series=20691687
4533         Status=0}
4534     Series Status:{size=24
4535         type=421
4536         sourceTime=1445359727
```

```
4537         sourceTimeNS=48528000 (2015/10/20 12:48:47.48528)
4538         symbolSeqNum=1
4539         series=20691699
4540         Status=0}
```

```
4541
4542
4543 # =====
4544 # REFRESH MESSAGES =====
4545 # =====
```

```
4546
4547 =====PACKET
4548
4549     Header={pktSize=60
4550             numberMsgs=2
4551             deliveryFlag=3
4552             seqNum=198
4553             sendTime=1445359739
4554             sendTimeNS=27712000 (2015/10/20 12:48:59.27712) }
4555     StreamID:{size=8
4556              type=455
4557              streamID=50}
4558     Trade:{size=36
4559           type=507
4560           sourceTime=1445359619
4561           sourceTimeNS=27641000 (2015/10/20 12:46:59.27641)
4562           symbolSeqNum=5
4563           series=20693759
4564           tradeID=1
4565           tradePrice=53000
4566           tradeVolume=1
4567           tradeCondition_1=' '
4568           tradeCondition_2=' '}
```

```
4569
4570
4571 =====PACKET
4572
4573     Header={pktSize=24
4574             numberMsgs=1
4575             deliveryFlag=1
4576             seqNum=94
4577             sendTime=1445359742
4578             sendTimeNS=159358000 (2015/10/20 12:49:02.159358) }
4579     StreamID:{size=8
4580              type=455
4581              streamID=49}
```

```
4582
4583
4584 =====PACKET
4585
4586     Header={pktSize=24
4587             numberMsgs=1
4588             deliveryFlag=1
4589             seqNum=3
4590             sendTime=1445359752
```

```
4591         sendTimeNS=635000 (2015/10/20 12:49:12.635)}
4592     StreamID:{size=8
4593         type=455
4594         streamID=48}
4595
4596
4597     =====PACKET
4598
4599     Header={pktSize=64
4600         numberMsgs=2
4601         deliveryFlag=3
4602         seqNum=200
4603         sendTime=1445359755
4604         sendTimeNS=406487000 (2015/10/20 12:49:15.406487)}
4605     StreamID:{size=8
4606         type=455
4607         streamID=50}
4608     Top:{size=40
4609         type=501
4610         sourceTime=1445359635
4611         sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
4612         symbolSeqNum=5
4613         series=20693719
4614         askPrice=0
4615         bidPrice=0
4616         askShares=0
4617         bidShares=0
4618         askCustomerShares=0
4619         bidCustomerShares=0
4620         quoteCondition=1}
4621
4622
4623     =====PACKET
4624
4625     Header={pktSize=184
4626         numberMsgs=5
4627         deliveryFlag=3
4628         seqNum=202
4629         sendTime=1445359755
4630         sendTimeNS=406554000 (2015/10/20 12:49:15.406554)}
4631     StreamID:{size=8
4632         type=455
4633         streamID=50}
4634     Top:{size=40
4635         type=501
4636         sourceTime=1445359635
4637         sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
4638         symbolSeqNum=5
4639         series=20693720
4640         askPrice=0
4641         bidPrice=0
4642         askShares=0
4643         bidShares=0
4644         askCustomerShares=0
```

```
4645         bidCustomerShares=0
4646         quoteCondition=1}
4647     Top:{size=40
4648         type=501
4649         sourceTime=1445359635
4650         sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
4651         symbolSeqNum=5
4652         series=20693759
4653         askPrice=0
4654         bidPrice=0
4655         askShares=0
4656         bidShares=0
4657         askCustomerShares=0
4658         bidCustomerShares=0
4659         quoteCondition=1}
4660     Top:{size=40
4661         type=501
4662         sourceTime=1445359635
4663         sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
4664         symbolSeqNum=5
4665         series=20693761
4666         askPrice=0
4667         bidPrice=0
4668         askShares=0
4669         bidShares=0
4670         askCustomerShares=0
4671         bidCustomerShares=0
4672         quoteCondition=1}
4673     Top:{size=40
4674         type=501
4675         sourceTime=1445359635
4676         sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
4677         symbolSeqNum=5
4678         series=20693763
4679         askPrice=0
4680         bidPrice=0
4681         askShares=0
4682         bidShares=0
4683         askCustomerShares=0
4684         bidCustomerShares=0
4685         quoteCondition=1}
4686
4687
4688     =====PACKET
4689
4690     Header={pktSize=104
4691         numberMsgs=3
4692         deliveryFlag=3
4693         seqNum=207
4694         sendTime=1445359755
4695         sendTimeNS=406606000 (2015/10/20 12:49:15.406606)}
4696     StreamID:{size=8
4697         type=455
4698         streamID=50}
```

```
4699     Top:{size=40
4700         type=501
4701         sourceTime=1445359635
4702         sourceTimeNS=406445000 (2015/10/20 12:47:15.406445)
4703         symbolSeqNum=5
4704         series=20693721
4705         askPrice=0
4706         bidPrice=0
4707         askShares=0
4708         bidShares=0
4709         askCustomerShares=0
4710         bidCustomerShares=0
4711         quoteCondition=1}
4712     Top:{size=40
4713         type=501
4714         sourceTime=1445359635
4715         sourceTimeNS=406445000 (2015/10/20 12:47:15.406445)
4716         symbolSeqNum=5
4717         series=20693722
4718         askPrice=0
4719         bidPrice=0
4720         askShares=0
4721         bidShares=0
4722         askCustomerShares=0
4723         bidCustomerShares=0
4724         quoteCondition=1}
4725
4726
4727     =====PACKET
4728
4729     Header={pktSize=64
4730         numberMsgs=2
4731         deliveryFlag=11
4732         seqNum=210
4733         sendTime=1445359767
4734         sendTimeNS=53183000 (2015/10/20 12:49:27.53183)}
4735     StreamID:{size=8
4736         type=455
4737         streamID=50}
4738     Top:{size=40
4739         type=401
4740         sourceTime=1445359767
4741         sourceTimeNS=53078000 (2015/10/20 12:49:27.53078)
4742         symbolSeqNum=6
4743         series=20693719
4744         askPrice=0
4745         bidPrice=54000
4746         askShares=0
4747         bidShares=1
4748         askCustomerShares=0
4749         bidCustomerShares=1
4750         quoteCondition=1}
4751
4752
```

```
4753 =====PACKET
4754
4755     Header={pktSize=60
4756           numberMsgs=2
4757           deliveryFlag=11
4758           seqNum=212
4759           sendTime=1445359767
4760           sendTimeNS=61284000 (2015/10/20 12:49:27.61284)}
4761     StreamID:{size=8
4762             type=455
4763             streamID=50}
4764     Trade:{size=36
4765           type=407
4766           sourceTime=1445359767
4767           sourceTimeNS=61253000 (2015/10/20 12:49:27.61253)
4768           symbolSeqNum=7
4769           series=20693719
4770           tradeID=2
4771           tradePrice=54000
4772           tradeVolume=1
4773           tradeCondition_1=' '
4774           tradeCondition_2=' '}
```

```
4775
4776 =====PACKET
4777
4778     Header={pktSize=60
4779           numberMsgs=2
4780           deliveryFlag=11
4781           seqNum=214
4782           sendTime=1445359767
4783           sendTimeNS=61393000 (2015/10/20 12:49:27.61393)}
4784     StreamID:{size=8
4785             type=455
4786             streamID=50}
4787     Trade:{size=36
4788           type=407
4789           sourceTime=1445359767
4790           sourceTimeNS=61371000 (2015/10/20 12:49:27.61371)
4791           symbolSeqNum=8
4792           series=20693719
4793           tradeID=3
4794           tradePrice=54000
4795           tradeVolume=1
4796           tradeCondition_1=' '
4797           tradeCondition_2=' '}
```

```
4798
4799 =====PACKET
4800
4801     Header={pktSize=64
4802           numberMsgs=2
4803           deliveryFlag=11
4804           seqNum=216
```

```
4807         sendTime=1445359767
4808         sendTimeNS=61485000 (2015/10/20 12:49:27.61485)}
4809     StreamID:{size=8
4810         type=455
4811         streamID=50}
4812     Top:{size=40
4813         type=401
4814         sourceTime=1445359767
4815         sourceTimeNS=61415000 (2015/10/20 12:49:27.61415)
4816         symbolSeqNum=9
4817         series=20693719
4818         askPrice=54000
4819         bidPrice=50000
4820         askShares=8
4821         bidShares=10
4822         askCustomerShares=0
4823         bidCustomerShares=0
4824         quoteCondition=1}
4825
```

```
4826
4827 =====PACKET
```

```
4828
4829     Header={pktSize=60
4830         numberMsgs=2
4831         deliveryFlag=11
4832         seqNum=218
4833         sendTime=1445359767
4834         sendTimeNS=61784000 (2015/10/20 12:49:27.61784)}
4835     StreamID:{size=8
4836         type=455
4837         streamID=50}
4838     Trade:{size=36
4839         type=407
4840         sourceTime=1445359767
4841         sourceTimeNS=61771000 (2015/10/20 12:49:27.61771)
4842         symbolSeqNum=10
4843         series=20693719
4844         tradeID=4
4845         tradePrice=54000
4846         tradeVolume=2
4847         tradeCondition_1=' '
4848         tradeCondition_2=' '}
```

```
4849
4850
4851 =====PACKET
```

```
4852
4853     Header={pktSize=64
4854         numberMsgs=2
4855         deliveryFlag=11
4856         seqNum=220
4857         sendTime=1445359767
4858         sendTimeNS=61852000 (2015/10/20 12:49:27.61852)}
4859     StreamID:{size=8
4860         type=455
```

```
4861         streamID=50}
4862     Top:{size=40
4863         type=401
4864         sourceTime=1445359767
4865         sourceTimeNS=61805000 (2015/10/20 12:49:27.61805)
4866         symbolSeqNum=11
4867         series=20693719
4868         askPrice=54000
4869         bidPrice=50000
4870         askShares=6
4871         bidShares=10
4872         askCustomerShares=0
4873         bidCustomerShares=0
4874         quoteCondition=1}
4875
4876
4877     =====PACKET
4878
4879     Header={pktSize=60
4880         numberMsgs=2
4881         deliveryFlag=11
4882         seqNum=222
4883         sendTime=1445359767
4884         sendTimeNS=62446000 (2015/10/20 12:49:27.62446) }
4885     StreamID:{size=8
4886         type=455
4887         streamID=50}
4888     Trade:{size=36
4889         type=407
4890         sourceTime=1445359767
4891         sourceTimeNS=62437000 (2015/10/20 12:49:27.62437)
4892         symbolSeqNum=12
4893         series=20693719
4894         tradeID=5
4895         tradePrice=54000
4896         tradeVolume=3
4897         tradeCondition_1=' '
4898         tradeCondition_2=' '}
4899
4900
4901     =====PACKET
4902
4903     Header={pktSize=64
4904         numberMsgs=2
4905         deliveryFlag=11
4906         seqNum=224
4907         sendTime=1445359767
4908         sendTimeNS=62514000 (2015/10/20 12:49:27.62514) }
4909     StreamID:{size=8
4910         type=455
4911         streamID=50}
4912     Top:{size=40
4913         type=401
4914         sourceTime=1445359767
```

```
4915         sourceTimeNS=62467000 (2015/10/20 12:49:27.62467)
4916         symbolSeqNum=13
4917         series=20693719
4918         askPrice=54000
4919         bidPrice=50000
4920         askShares=3
4921         bidShares=10
4922         askCustomerShares=0
4923         bidCustomerShares=0
4924         quoteCondition=1}
4925
4926
4927 =====PACKET
4928
4929         Header={pktSize=48
4930                 numberMsgs=2
4931                 deliveryFlag=11
4932                 seqNum=226
4933                 sendTime=1445359768
4934                 sendTimeNS=71152000 (2015/10/20 12:49:28.71152)}
4935         StreamID:{size=8
4936                 type=455
4937                 streamID=50}
4938         TradeCancel:{size=24
4939                 type=409
4940                 sourceTime=1445359767
4941                 sourceTimeNS=61371000 (2015/10/20 12:49:27.61371)
4942                 symbolSeqNum=14
4943                 series=20693719
4944                 originalTradeID=3}
4945
4946
4947 =====PACKET
4948
4949         Header={pktSize=64
4950                 numberMsgs=2
4951                 deliveryFlag=11
4952                 seqNum=228
4953                 sendTime=1445359768
4954                 sendTimeNS=71244000 (2015/10/20 12:49:28.71244)}
4955         StreamID:{size=8
4956                 type=455
4957                 streamID=50}
4958         TradeCorrection:{size=40
4959                 type=411
4960                 sourceTime=1445359768
4961                 sourceTimeNS=71227000 (2015/10/20 12:49:28.71227)
4962                 symbolSeqNum=15
4963                 series=20693719
4964                 originalTradeID=2
4965                 tradeID=6
4966                 tradePrice=54000
4967                 tradeVolume=5
4968                 tradeCondition_1=' ' }
```

```
4969         tradeCondition_2=' '}
4970
4971
4972 =====PACKET
4973
4974     Header={pktSize=64
4975             numberMsgs=2
4976             deliveryFlag=11
4977             seqNum=230
4978             sendTime=1445359769
4979             sendTimeNS=107766000 (2015/10/20 12:49:29.107766)}
4980     StreamID:{size=8
4981               type=455
4982               streamID=50}
4983     Top:{size=40
4984          type=401
4985          sourceTime=1445359769
4986          sourceTimeNS=107642000 (2015/10/20 12:49:29.107642)
4987          symbolSeqNum=16
4988          series=20693719
4989          askPrice=0
4990          bidPrice=0
4991          askShares=0
4992          bidShares=0
4993          askCustomerShares=0
4994          bidCustomerShares=0
4995          quoteCondition=1}
4996
4997
4998 =====PACKET
4999
5000     Header={pktSize=64
5001             numberMsgs=2
5002             deliveryFlag=11
5003             seqNum=94
5004             sendTime=1445359769
5005             sendTimeNS=647035000 (2015/10/20 12:49:29.647035)}
5006     StreamID:{size=8
5007               type=455
5008               streamID=49}
5009     Top:{size=40
5010          type=401
5011          sourceTime=1445359769
5012          sourceTimeNS=646943000 (2015/10/20 12:49:29.646943)
5013          symbolSeqNum=1
5014          series=20693809
5015          askPrice=53000
5016          bidPrice=50000
5017          askShares=1
5018          bidShares=1
5019          askCustomerShares=0
5020          bidCustomerShares=0
5021          quoteCondition=2}
5022
```

```
5023
5024 =====PACKET
5025
5026     Header={pktSize=60
5027             numberMsgs=2
5028             deliveryFlag=11
5029             seqNum=96
5030             sendTime=1445359769
5031             sendTimeNS=647690000 (2015/10/20 12:49:29.647690) }
5032     StreamID:{size=8
5033             type=455
5034             streamID=49}
5035     Imbalance:{size=36
5036             type=413
5037             sourceTime=1445359769
5038             sourceTimeNS=647671000 (2015/10/20 12:49:29.647671)
5039             symbolSeqNum=2
5040             series=20693809
5041             referencePrice=50000
5042             auctionType=0
5043             pairedQty=1
5044             totalImbalanceQty=11
5045             totalImbalanceSide=S
5046             mktImbalanceSide=S}
5047
5048
5049 =====PACKET
5050
5051     Header={pktSize=60
5052             numberMsgs=2
5053             deliveryFlag=11
5054             seqNum=98
5055             sendTime=1445359774
5056             sendTimeNS=661059000 (2015/10/20 12:49:34.661059) }
5057     StreamID:{size=8
5058             type=455
5059             streamID=49}
5060     Imbalance:{size=36
5061             type=413
5062             sourceTime=1445359774
5063             sourceTimeNS=661033000 (2015/10/20 12:49:34.661033)
5064             symbolSeqNum=3
5065             series=20693809
5066             referencePrice=50000
5067             auctionType=0
5068             pairedQty=1
5069             totalImbalanceQty=34
5070             totalImbalanceSide=S
5071             mktImbalanceSide=S}
5072
5073
5074 =====PACKET
5075
5076     Header={pktSize=64
```

```
5077         numberMsgs=2
5078         deliveryFlag=11
5079         seqNum=100
5080         sendTime=1445359779
5081         sendTimeNS=653988000 (2015/10/20 12:49:39.653988) }
5082     StreamID:{size=8
5083         type=455
5084         streamID=49}
5085     Top:{size=40
5086         type=401
5087         sourceTime=1445359779
5088         sourceTimeNS=653906000 (2015/10/20 12:49:39.653906)
5089         symbolSeqNum=4
5090         series=20693809
5091         askPrice=0
5092         bidPrice=0
5093         askShares=0
5094         bidShares=0
5095         askCustomerShares=0
5096         bidCustomerShares=0
5097         quoteCondition=2}
5098
5099
```

```
5100 =====PACKET
```

```
5101
5102     Header={pktSize=60
5103         numberMsgs=2
5104         deliveryFlag=11
5105         seqNum=102
5106         sendTime=1445359779
5107         sendTimeNS=658963000 (2015/10/20 12:49:39.658963) }
5108     StreamID:{size=8
5109         type=455
5110         streamID=49}
5111     Imbalance:{size=36
5112         type=413
5113         sourceTime=1445359779
5114         sourceTimeNS=658938000 (2015/10/20 12:49:39.658938)
5115         symbolSeqNum=5
5116         series=20693809
5117         referencePrice=0
5118         auctionType=0
5119         pairedQty=0
5120         totalImbalanceQty=0
5121         totalImbalanceSide=
5122         mktImbalanceSide=S}
5123
```

```
5124 =====PACKET
```

```
5125
5126     Header={pktSize=48
5127         numberMsgs=2
5128         deliveryFlag=11
5129         seqNum=232
```

```
5131         sendTime=1445359780
5132         sendTimeNS=990896000 (2015/10/20 12:49:40.990896) }
5133     StreamID:{size=8
5134         type=455
5135         streamID=50}
5136     Series Status:{size=24
5137         type=421
5138         sourceTime=1445359780
5139         sourceTimeNS=990866000 (2015/10/20 12:49:40.990866)
5140         symbolSeqNum=2
5141         series=20693760
5142         Status=S}
5143
5144
5145     =====PACKET
5146
5147     Header={pktSize=24
5148         numberMsgs=1
5149         deliveryFlag=1
5150         seqNum=3
5151         sendTime=1445359782
5152         sendTimeNS=640000 (2015/10/20 12:49:42.640) }
5153     StreamID:{size=8
5154         type=455
5155         streamID=48}
5156
5157
5158     =====PACKET
5159
5160     Header={pktSize=72
5161         numberMsgs=3
5162         deliveryFlag=11
5163         seqNum=234
5164         sendTime=1445359786
5165         sendTimeNS=2911000 (2015/10/20 12:49:46.2911) }
5166     StreamID:{size=8
5167         type=455
5168         streamID=50}
5169     Series Status:{size=24
5170         type=421
5171         sourceTime=1445359786
5172         sourceTimeNS=2878000 (2015/10/20 12:49:46.2878)
5173         symbolSeqNum=3
5174         series=20693760
5175         Status=T}
5176     Series Status:{size=24
5177         type=421
5178         sourceTime=1445359786
5179         sourceTimeNS=2882000 (2015/10/20 12:49:46.2882)
5180         symbolSeqNum=4
5181         series=20693760
5182         Status=N}
5183
5184
```

```
5185 =====PACKET
5186
5187     Header={pktSize=64
5188           numberMsgs=2
5189           deliveryFlag=11
5190           seqNum=237
5191           sendTime=1445359787
5192           sendTimeNS=716792000 (2015/10/20 12:49:47.716792)}
5193     StreamID:{size=8
5194             type=455
5195             streamID=50}
5196     Top:{size=40
5197         type=401
5198         sourceTime=1445359787
5199         sourceTimeNS=716686000 (2015/10/20 12:49:47.716686)
5200         symbolSeqNum=6
5201         series=20693761
5202         askPrice=0
5203         bidPrice=50000
5204         askShares=0
5205         bidShares=10
5206         askCustomerShares=0
5207         bidCustomerShares=10
5208         quoteCondition=1}
5209
```

```
5210
5211 =====PACKET
5212
5213     Header={pktSize=64
5214           numberMsgs=2
5215           deliveryFlag=11
5216           seqNum=239
5217           sendTime=1445359788
5218           sendTimeNS=219290000 (2015/10/20 12:49:48.219290)}
5219     StreamID:{size=8
5220             type=455
5221             streamID=50}
5222     Top:{size=40
5223         type=401
5224         sourceTime=1445359788
5225         sourceTimeNS=219184000 (2015/10/20 12:49:48.219184)
5226         symbolSeqNum=7
5227         series=20693761
5228         askPrice=54000
5229         bidPrice=50000
5230         askShares=10
5231         bidShares=20
5232         askCustomerShares=0
5233         bidCustomerShares=10
5234         quoteCondition=1}
5235
```

```
5236
5237 =====PACKET
5238
```

```
5239 Header={pktSize=64
5240     numberMsgs=2
5241     deliveryFlag=11
5242     seqNum=241
5243     sendTime=1445359788
5244     sendTimeNS=722080000 (2015/10/20 12:49:48.722080)}
5245 StreamID:{size=8
5246     type=455
5247     streamID=50}
5248 Top:{size=40
5249     type=401
5250     sourceTime=1445359788
5251     sourceTimeNS=721984000 (2015/10/20 12:49:48.721984)
5252     symbolSeqNum=6
5253     series=20693763
5254     askPrice=0
5255     bidPrice=25000
5256     askShares=0
5257     bidShares=10
5258     askCustomerShares=0
5259     bidCustomerShares=10
5260     quoteCondition=1}
```

```
5261
5262
5263 =====PACKET
```

```
5265 Header={pktSize=64
5266     numberMsgs=2
5267     deliveryFlag=11
5268     seqNum=243
5269     sendTime=1445359789
5270     sendTimeNS=225011000 (2015/10/20 12:49:49.225011)}
5271 StreamID:{size=8
5272     type=455
5273     streamID=50}
5274 Top:{size=40
5275     type=401
5276     sourceTime=1445359789
5277     sourceTimeNS=224913000 (2015/10/20 12:49:49.224913)
5278     symbolSeqNum=7
5279     series=20693763
5280     askPrice=28000
5281     bidPrice=25000
5282     askShares=10
5283     bidShares=20
5284     askCustomerShares=0
5285     bidCustomerShares=10
5286     quoteCondition=1}
```

```
5287
5288
5289 =====PACKET
```

```
5291 Header={pktSize=64
5292     numberMsgs=2
```

```
5293         deliveryFlag=11
5294         seqNum=245
5295         sendTime=1445359791
5296         sendTimeNS=236412000 (2015/10/20 12:49:51.236412) }
5297     StreamID:{size=8
5298         type=455
5299         streamID=50}
5300     Top:{size=40
5301         type=401
5302         sourceTime=1445359791
5303         sourceTimeNS=236319000 (2015/10/20 12:49:51.236319)
5304         symbolSeqNum=8
5305         series=20693761
5306         askPrice=54000
5307         bidPrice=50000
5308         askShares=100
5309         bidShares=20
5310         askCustomerShares=90
5311         bidCustomerShares=10
5312         quoteCondition=1}
5313
5314
5315     =====PACKET
5316
5317     Header={pktSize=60
5318         numberMsgs=2
5319         deliveryFlag=11
5320         seqNum=247
5321         sendTime=1445359791
5322         sendTimeNS=238958000 (2015/10/20 12:49:51.238958) }
5323     StreamID:{size=8
5324         type=455
5325         streamID=50}
5326     Trade:{size=36
5327         type=407
5328         sourceTime=1445359791
5329         sourceTimeNS=238937000 (2015/10/20 12:49:51.238937)
5330         symbolSeqNum=9
5331         series=20693761
5332         tradeID=7
5333         tradePrice=53500
5334         tradeVolume=100
5335         tradeCondition_1=' '
5336         tradeCondition_2='L'}
5337
5338
5339     =====PACKET
5340
5341     Header={pktSize=96
5342         numberMsgs=3
5343         deliveryFlag=11
5344         seqNum=249
5345         sendTime=1445359791
5346         sendTimeNS=238994000 (2015/10/20 12:49:51.238994) }
```

```
5347 StreamID:{size=8
5348     type=455
5349     streamID=50}
5350 Trade:{size=36
5351     type=407
5352     sourceTime=1445359791
5353     sourceTimeNS=238958000 (2015/10/20 12:49:51.238958)
5354     symbolSeqNum=8
5355     series=20693763
5356     tradeID=8
5357     tradePrice=25200
5358     tradeVolume=100
5359     tradeCondition_1=' '
5360     tradeCondition_2='L'}
5361 Trade:{size=36
5362     type=407
5363     sourceTime=1445359791
5364     sourceTimeNS=238968000 (2015/10/20 12:49:51.238968)
5365     symbolSeqNum=9
5366     series=20693763
5367     tradeID=9
5368     tradePrice=25300
5369     tradeVolume=100
5370     tradeCondition_1=' '
5371     tradeCondition_2='L'}
5372
5373
5374 =====PACKET
5375
5376 Header={pktSize=64
5377     numberMsgs=2
5378     deliveryFlag=11
5379     seqNum=252
5380     sendTime=1445359791
5381     sendTimeNS=739413000 (2015/10/20 12:49:51.739413)}
5382 StreamID:{size=8
5383     type=455
5384     streamID=50}
5385 Top:{size=40
5386     type=401
5387     sourceTime=1445359791
5388     sourceTimeNS=739308000 (2015/10/20 12:49:51.739308)
5389     symbolSeqNum=10
5390     series=20693763
5391     askPrice=28000
5392     bidPrice=25000
5393     askShares=10
5394     bidShares=200
5395     askCustomerShares=0
5396     bidCustomerShares=190
5397     quoteCondition=1}
5398
5399
5400 =====PACKET
```

```
5401
5402 Header={pktSize=100
5403         numberMsgs=3
5404         deliveryFlag=11
5405         seqNum=254
5406         sendTime=1445359792
5407         sendTimeNS=242433000 (2015/10/20 12:49:52.242433)}
5408 StreamID:{size=8
5409         type=455
5410         streamID=50}
5411 Trade:{size=36
5412         type=407
5413         sourceTime=1445359792
5414         sourceTimeNS=242317000 (2015/10/20 12:49:52.242317)
5415         symbolSeqNum=10
5416         series=20693761
5417         tradeID=10
5418         tradePrice=50000
5419         tradeVolume=10
5420         tradeCondition_1=' '
5421         tradeCondition_2=' '}
5422 Top:{size=40
5423         type=401
5424         sourceTime=1445359792
5425         sourceTimeNS=242350000 (2015/10/20 12:49:52.242350)
5426         symbolSeqNum=11
5427         series=20693761
5428         askPrice=54000
5429         bidPrice=50000
5430         askShares=100
5431         bidShares=10
5432         askCustomerShares=90
5433         bidCustomerShares=0
5434         quoteCondition=1}
5435
5436
```

=====PACKET

```
5437
5438
5439 Header={pktSize=64
5440         numberMsgs=2
5441         deliveryFlag=11
5442         seqNum=257
5443         sendTime=1445359792
5444         sendTimeNS=745156000 (2015/10/20 12:49:52.745156)}
5445 StreamID:{size=8
5446         type=455
5447         streamID=50}
5448 Top:{size=40
5449         type=401
5450         sourceTime=1445359792
5451         sourceTimeNS=745064000 (2015/10/20 12:49:52.745064)
5452         symbolSeqNum=12
5453         series=20693761
5454         askPrice=54000
```

```
5455         bidPrice=0
5456         askShares=90
5457         bidShares=0
5458         askCustomerShares=90
5459         bidCustomerShares=0
5460         quoteCondition=1}
5461
5462
5463 =====PACKET
5464
5465     Header={pktSize=64
5466             numberMsgs=2
5467             deliveryFlag=11
5468             seqNum=259
5469             sendTime=1445359793
5470             sendTimeNS=248048000 (2015/10/20 12:49:53.248048) }
5471     StreamID:{size=8
5472               type=455
5473               streamID=50}
5474     Top:{size=40
5475          type=401
5476          sourceTime=1445359793
5477          sourceTimeNS=247958000 (2015/10/20 12:49:53.247958)
5478          symbolSeqNum=11
5479          series=20693763
5480          askPrice=0
5481          bidPrice=25000
5482          askShares=0
5483          bidShares=190
5484          askCustomerShares=0
5485          bidCustomerShares=190
5486          quoteCondition=1}
```

```
5488
5489 # =====
5490 #     STATUS MESSAGES     =====
5491 # =====
```

```
5492
5493 =====PACKET
5494
5495     Header={pktSize=600
5496             numberMsgs=25
5497             deliveryFlag=11
5498             seqNum=261
5499             sendTime=1445359795
5500             sendTimeNS=45696000 (2015/10/20 12:49:55.45696) }
5501     StreamID:{size=8
5502               type=455
5503               streamID=50}
5504     Underlying Status:{size=24
5505                        type=419
5506                        sourceTime=1445359795
5507                        sourceTimeNS=45592000 (2015/10/20 12:49:55.45592)
5508                        symbolSeqNum=0
```

5509 UnderlyingIndex=2610  
5510 Status=S}  
5511 Series Status:{size=24  
5512 type=421  
5513 sourceTime=1445359795  
5514 sourceTimeNS=45598000 (2015/10/20 12:49:55.45598)  
5515 symbolSeqNum=1  
5516 series=20691697  
5517 Status=S}  
5518 Series Status:{size=24  
5519 type=421  
5520 sourceTime=1445359795  
5521 sourceTimeNS=45606000 (2015/10/20 12:49:55.45606)  
5522 symbolSeqNum=2  
5523 series=20691698  
5524 Status=S}  
5525 Series Status:{size=24  
5526 type=421  
5527 sourceTime=1445359795  
5528 sourceTimeNS=45608000 (2015/10/20 12:49:55.45608)  
5529 symbolSeqNum=2  
5530 series=20691699  
5531 Status=S}  
5532 Series Status:{size=24  
5533 type=421  
5534 sourceTime=1445359795  
5535 sourceTimeNS=45610000 (2015/10/20 12:49:55.45610)  
5536 symbolSeqNum=1  
5537 series=20691700  
5538 Status=S}  
5539 Series Status:{size=24  
5540 type=421  
5541 sourceTime=1445359795  
5542 sourceTimeNS=45612000 (2015/10/20 12:49:55.45612)  
5543 symbolSeqNum=2  
5544 series=20691701  
5545 Status=S}  
5546 Series Status:{size=24  
5547 type=421  
5548 sourceTime=1445359795  
5549 sourceTimeNS=45614000 (2015/10/20 12:49:55.45614)  
5550 symbolSeqNum=2  
5551 series=20691702  
5552 Status=S}  
5553 Series Status:{size=24  
5554 type=421  
5555 sourceTime=1445359795  
5556 sourceTimeNS=45615000 (2015/10/20 12:49:55.45615)  
5557 symbolSeqNum=1  
5558 series=20691703  
5559 Status=S}  
5560 Series Status:{size=24  
5561 type=421  
5562 sourceTime=1445359795

5563 sourceTimeNS=45617000 (2015/10/20 12:49:55.45617)  
5564 symbolSeqNum=1  
5565 series=20691704  
5566 Status=S}  
5567 Series Status:{size=24  
5568 type=421  
5569 sourceTime=1445359795  
5570 sourceTimeNS=45618000 (2015/10/20 12:49:55.45618)  
5571 symbolSeqNum=1  
5572 series=20691705  
5573 Status=S}  
5574 Series Status:{size=24  
5575 type=421  
5576 sourceTime=1445359795  
5577 sourceTimeNS=45622000 (2015/10/20 12:49:55.45622)  
5578 symbolSeqNum=2  
5579 series=20691706  
5580 Status=S}  
5581 Series Status:{size=24  
5582 type=421  
5583 sourceTime=1445359795  
5584 sourceTimeNS=45624000 (2015/10/20 12:49:55.45624)  
5585 symbolSeqNum=1  
5586 series=20691707  
5587 Status=S}  
5588 Series Status:{size=24  
5589 type=421  
5590 sourceTime=1445359795  
5591 sourceTimeNS=45626000 (2015/10/20 12:49:55.45626)  
5592 symbolSeqNum=2  
5593 series=20691708  
5594 Status=S}  
5595 Series Status:{size=24  
5596 type=421  
5597 sourceTime=1445359795  
5598 sourceTimeNS=45628000 (2015/10/20 12:49:55.45628)  
5599 symbolSeqNum=2  
5600 series=20691685  
5601 Status=S}  
5602 Series Status:{size=24  
5603 type=421  
5604 sourceTime=1445359795  
5605 sourceTimeNS=45630000 (2015/10/20 12:49:55.45630)  
5606 symbolSeqNum=2  
5607 series=20691686  
5608 Status=S}  
5609 Series Status:{size=24  
5610 type=421  
5611 sourceTime=1445359795  
5612 sourceTimeNS=45634000 (2015/10/20 12:49:55.45634)  
5613 symbolSeqNum=2  
5614 series=20691687  
5615 Status=S}  
5616 Series Status:{size=24

5617 type=421  
5618 sourceTime=1445359795  
5619 sourceTimeNS=45635000 (2015/10/20 12:49:55.45635)  
5620 symbolSeqNum=1  
5621 series=20691688  
5622 Status=S}  
5623 Series Status:{size=24  
5624 type=421  
5625 sourceTime=1445359795  
5626 sourceTimeNS=45637000 (2015/10/20 12:49:55.45637)  
5627 symbolSeqNum=2  
5628 series=20691689  
5629 Status=S}  
5630 Series Status:{size=24  
5631 type=421  
5632 sourceTime=1445359795  
5633 sourceTimeNS=45641000 (2015/10/20 12:49:55.45641)  
5634 symbolSeqNum=2  
5635 series=20691690  
5636 Status=S}  
5637 Series Status:{size=24  
5638 type=421  
5639 sourceTime=1445359795  
5640 sourceTimeNS=45643000 (2015/10/20 12:49:55.45643)  
5641 symbolSeqNum=2  
5642 series=20691691  
5643 Status=S}  
5644 Series Status:{size=24  
5645 type=421  
5646 sourceTime=1445359795  
5647 sourceTimeNS=45645000 (2015/10/20 12:49:55.45645)  
5648 symbolSeqNum=1  
5649 series=20691692  
5650 Status=S}  
5651 Series Status:{size=24  
5652 type=421  
5653 sourceTime=1445359795  
5654 sourceTimeNS=45648000 (2015/10/20 12:49:55.45648)  
5655 symbolSeqNum=1  
5656 series=20691693  
5657 Status=S}  
5658 Series Status:{size=24  
5659 type=421  
5660 sourceTime=1445359795  
5661 sourceTimeNS=45651000 (2015/10/20 12:49:55.45651)  
5662 symbolSeqNum=1  
5663 series=20691694  
5664 Status=S}  
5665 Series Status:{size=24  
5666 type=421  
5667 sourceTime=1445359795  
5668 sourceTimeNS=45652000 (2015/10/20 12:49:55.45652)  
5669 symbolSeqNum=2  
5670 series=20691695

```
5671         Status=S}
5672
5673
5674 =====PACKET
5675
5676     Header={pktSize=48
5677             numberMsgs=2
5678             deliveryFlag=11
5679             seqNum=286
5680             sendTime=1445359795
5681             sendTimeNS=45791000 (2015/10/20 12:49:55.45791)}
5682     StreamID:{size=8
5683             type=455
5684             streamID=50}
5685     Series Status:{size=24
5686                 type=421
5687                 sourceTime=1445359795
5688                 sourceTimeNS=45654000 (2015/10/20 12:49:55.45654)
5689                 symbolSeqNum=1
5690                 series=20691696
5691                 Status=S}
5692
5693
5694 =====PACKET
5695
5696     Header={pktSize=336
5697             numberMsgs=14
5698             deliveryFlag=11
5699             seqNum=288
5700             sendTime=1445359800
5701             sendTimeNS=47936000 (2015/10/20 12:50:00.47936)}
5702     StreamID:{size=8
5703             type=455
5704             streamID=50}
5705     Underlying Status:{size=24
5706                       type=419
5707                       sourceTime=1445359800
5708                       sourceTimeNS=47803000 (2015/10/20 12:50:00.47803)
5709                       symbolSeqNum=0
5710                       UnderlyingIndex=2610
5711                       Status=U}
5712     Underlying Status:{size=24
5713                       type=419
5714                       sourceTime=1445359800
5715                       sourceTimeNS=47809000 (2015/10/20 12:50:00.47809)
5716                       symbolSeqNum=0
5717                       UnderlyingIndex=2610
5718                       Status=O}
5719     Series Status:{size=24
5720                   type=421
5721                   sourceTime=1445359800
5722                   sourceTimeNS=47811000 (2015/10/20 12:50:00.47811)
5723                   symbolSeqNum=2
5724                   series=20691697
```

5725           Status=U}  
5726       Series Status:{size=24  
5727           type=421  
5728           sourceTime=1445359800  
5729           sourceTimeNS=47822000 (2015/10/20 12:50:00.47822)  
5730           symbolSeqNum=2  
5731           series=20691700  
5732           Status=U}  
5733       Series Status:{size=24  
5734           type=421  
5735           sourceTime=1445359800  
5736           sourceTimeNS=47831000 (2015/10/20 12:50:00.47831)  
5737           symbolSeqNum=2  
5738           series=20691703  
5739           Status=U}  
5740       Series Status:{size=24  
5741           type=421  
5742           sourceTime=1445359800  
5743           sourceTimeNS=47833000 (2015/10/20 12:50:00.47833)  
5744           symbolSeqNum=2  
5745           series=20691704  
5746           Status=U}  
5747       Series Status:{size=24  
5748           type=421  
5749           sourceTime=1445359800  
5750           sourceTimeNS=47834000 (2015/10/20 12:50:00.47834)  
5751           symbolSeqNum=2  
5752           series=20691705  
5753           Status=U}  
5754       Series Status:{size=24  
5755           type=421  
5756           sourceTime=1445359800  
5757           sourceTimeNS=47843000 (2015/10/20 12:50:00.47843)  
5758           symbolSeqNum=2  
5759           series=20691707  
5760           Status=U}  
5761       Series Status:{size=24  
5762           type=421  
5763           sourceTime=1445359800  
5764           sourceTimeNS=47851000 (2015/10/20 12:50:00.47851)  
5765           symbolSeqNum=2  
5766           series=20691688  
5767           Status=U}  
5768       Series Status:{size=24  
5769           type=421  
5770           sourceTime=1445359800  
5771           sourceTimeNS=47858000 (2015/10/20 12:50:00.47858)  
5772           symbolSeqNum=2  
5773           series=20691692  
5774           Status=U}  
5775       Series Status:{size=24  
5776           type=421  
5777           sourceTime=1445359800  
5778           sourceTimeNS=47860000 (2015/10/20 12:50:00.47860)

```
5779         symbolSeqNum=2
5780         series=20691693
5781         Status=U}
5782     Series Status:{size=24
5783         type=421
5784         sourceTime=1445359800
5785         sourceTimeNS=47862000 (2015/10/20 12:50:00.47862)
5786         symbolSeqNum=2
5787         series=20691694
5788         Status=U}
5789     Series Status:{size=24
5790         type=421
5791         sourceTime=1445359800
5792         sourceTimeNS=47866000 (2015/10/20 12:50:00.47866)
5793         symbolSeqNum=2
5794         series=20691696
5795         Status=U}
5796
5797
5798     =====PACKET
5799
5800     Header={pktSize=72
5801         numberMsgs=3
5802         deliveryFlag=11
5803         seqNum=302
5804         sendTime=1445359805
5805         sendTimeNS=60188000 (2015/10/20 12:50:05.60188)}
5806     StreamID:{size=8
5807         type=455
5808         streamID=50}
5809     Series Status:{size=24
5810         type=421
5811         sourceTime=1445359805
5812         sourceTimeNS=60151000 (2015/10/20 12:50:05.60151)
5813         symbolSeqNum=3
5814         series=20691685
5815         Status=U}
5816     Series Status:{size=24
5817         type=421
5818         sourceTime=1445359805
5819         sourceTimeNS=60156000 (2015/10/20 12:50:05.60156)
5820         symbolSeqNum=4
5821         series=20691685
5822         Status=O}
5823
5824
5825     =====PACKET
5826
5827     Header={pktSize=72
5828         numberMsgs=3
5829         deliveryFlag=11
5830         seqNum=305
5831         sendTime=1445359805
5832         sendTimeNS=60292000 (2015/10/20 12:50:05.60292)}
```

```
5833 StreamID:{size=8
5834     type=455
5835     streamID=50}
5836 Series Status:{size=24
5837     type=421
5838     sourceTime=1445359805
5839     sourceTimeNS=60240000 (2015/10/20 12:50:05.60240)
5840     symbolSeqNum=3
5841     series=20691686
5842     Status=U}
5843 Series Status:{size=24
5844     type=421
5845     sourceTime=1445359805
5846     sourceTimeNS=60243000 (2015/10/20 12:50:05.60243)
5847     symbolSeqNum=4
5848     series=20691686
5849     Status=O}
5850
5851
5852 =====PACKET
5853
5854     Header={pktSize=72
5855         numberMsgs=3
5856         deliveryFlag=11
5857         seqNum=308
5858         sendTime=1445359805
5859         sendTimeNS=60341000 (2015/10/20 12:50:05.60341)}
5860 StreamID:{size=8
5861     type=455
5862     streamID=50}
5863 Series Status:{size=24
5864     type=421
5865     sourceTime=1445359805
5866     sourceTimeNS=60306000 (2015/10/20 12:50:05.60306)
5867     symbolSeqNum=3
5868     series=20691687
5869     Status=U}
5870 Series Status:{size=24
5871     type=421
5872     sourceTime=1445359805
5873     sourceTimeNS=60309000 (2015/10/20 12:50:05.60309)
5874     symbolSeqNum=4
5875     series=20691687
5876     Status=O}
5877
5878
5879 =====PACKET
5880
5881     Header={pktSize=64
5882         numberMsgs=2
5883         deliveryFlag=11
5884         seqNum=311
5885         sendTime=1445359806
5886         sendTimeNS=695504000 (2015/10/20 12:50:06.695504)}
```

```
5887 StreamID:{size=8
5888     type=455
5889     streamID=50}
5890 Top:{size=40
5891     type=401
5892     sourceTime=1445359806
5893     sourceTimeNS=695379000 (2015/10/20 12:50:06.695379)
5894     symbolSeqNum=6
5895     series=20693720
5896     askPrice=55000
5897     bidPrice=50000
5898     askShares=1
5899     bidShares=1
5900     askCustomerShares=0
5901     bidCustomerShares=0
5902     quoteCondition=1}
5903
5904
5905 =====PACKET
5906
5907     Header={pktSize=64
5908         numberMsgs=2
5909         deliveryFlag=11
5910         seqNum=313
5911         sendTime=1445359806
5912         sendTimeNS=695664000 (2015/10/20 12:50:06.695664) }
5913 StreamID:{size=8
5914     type=455
5915     streamID=50}
5916 Top:{size=40
5917     type=401
5918     sourceTime=1445359806
5919     sourceTimeNS=695631000 (2015/10/20 12:50:06.695631)
5920     symbolSeqNum=7
5921     series=20693720
5922     askPrice=54000
5923     bidPrice=51000
5924     askShares=1
5925     bidShares=1
5926     askCustomerShares=0
5927     bidCustomerShares=0
5928     quoteCondition=1}
5929
5930
5931 =====PACKET
5932
5933     Header={pktSize=64
5934         numberMsgs=2
5935         deliveryFlag=11
5936         seqNum=315
5937         sendTime=1445359806
5938         sendTimeNS=695932000 (2015/10/20 12:50:06.695932) }
5939 StreamID:{size=8
5940     type=455
```

```
5941     streamID=50}
5942 Top:{size=40
5943     type=401
5944     sourceTime=1445359806
5945     sourceTimeNS=695896000 (2015/10/20 12:50:06.695896)
5946     symbolSeqNum=8
5947     series=20693720
5948     askPrice=53000
5949     bidPrice=52000
5950     askShares=1
5951     bidShares=1
5952     askCustomerShares=0
5953     bidCustomerShares=0
5954     quoteCondition=1}
5955
```

```
5956 =====PACKET
```

```
5959     Header={pktSize=64
5960         numberMsgs=2
5961         deliveryFlag=11
5962         seqNum=317
5963         sendTime=1445359807
5964         sendTimeNS=537684000 (2015/10/20 12:50:07.537684)}
5965     StreamID:{size=8
5966         type=455
5967         streamID=50}
5968 Top:{size=40
5969     type=401
5970     sourceTime=1445359807
5971     sourceTimeNS=537564000 (2015/10/20 12:50:07.537564)
5972     symbolSeqNum=9
5973     series=20693720
5974     askPrice=54000
5975     bidPrice=51000
5976     askShares=1
5977     bidShares=1
5978     askCustomerShares=0
5979     bidCustomerShares=0
5980     quoteCondition=1}
5981
```

```
5982 =====PACKET
```

```
5985     Header={pktSize=64
5986         numberMsgs=2
5987         deliveryFlag=11
5988         seqNum=319
5989         sendTime=1445359807
5990         sendTimeNS=550566000 (2015/10/20 12:50:07.550566)}
5991     StreamID:{size=8
5992         type=455
5993         streamID=50}
5994 Top:{size=40
```

5995 type=401  
5996 sourceTime=1445359807  
5997 sourceTimeNS=550434000 (2015/10/20 12:50:07.550434)  
5998 symbolSeqNum=10  
5999 series=20693720  
6000 askPrice=0  
6001 bidPrice=0  
6002 askShares=0  
6003 bidShares=0  
6004 askCustomerShares=0  
6005 bidCustomerShares=0  
6006 quoteCondition=1}

6007  
6008  
6009 =====PACKET

6010 Header={pktSize=48  
6011 numberMsgs=2  
6012 deliveryFlag=11  
6013 seqNum=321  
6014 sendTime=1445359808  
6015 sendTimeNS=46262000 (2015/10/20 12:50:08.46262)}  
6016 StreamID:{size=8  
6017 type=455  
6018 streamID=50}  
6019 Series Status:{size=24  
6020 type=421  
6021 sourceTime=1445359808  
6022 sourceTimeNS=46229000 (2015/10/20 12:50:08.46229)  
6023 symbolSeqNum=2  
6024 series=20693717  
6025 Status=L}

6026  
6027  
6028  
6029 =====PACKET

6030 Header={pktSize=64  
6031 numberMsgs=2  
6032 deliveryFlag=11  
6033 seqNum=323  
6034 sendTime=1445359808  
6035 sendTimeNS=46431000 (2015/10/20 12:50:08.46431)}  
6036 StreamID:{size=8  
6037 type=455  
6038 streamID=50}  
6039 Top:{size=40  
6040 type=401  
6041 sourceTime=1445359808  
6042 sourceTimeNS=46263000 (2015/10/20 12:50:08.46263)  
6043 symbolSeqNum=3  
6044 series=20693717  
6045 askPrice=0  
6046 bidPrice=50000  
6047 askShares=0  
6048

```
6049         bidShares=1
6050         askCustomerShares=0
6051         bidCustomerShares=1
6052         quoteCondition=1}
6053
6054
6055 =====PACKET
6056
6057     Header={pktSize=64
6058             numberMsgs=2
6059             deliveryFlag=11
6060             seqNum=325
6061             sendTime=1445359808
6062             sendTimeNS=53716000 (2015/10/20 12:50:08.53716)}
6063     StreamID:{size=8
6064               type=455
6065               streamID=50}
6066     Top:{size=40
6067          type=401
6068          sourceTime=1445359808
6069          sourceTimeNS=53619000 (2015/10/20 12:50:08.53619)
6070          symbolSeqNum=4
6071          series=20693717
6072          askPrice=53000
6073          bidPrice=50000
6074          askShares=2
6075          bidShares=3
6076          askCustomerShares=0
6077          bidCustomerShares=1
6078          quoteCondition=1}
6079
6080
6081 =====PACKET
6082
6083     Header={pktSize=52
6084             numberMsgs=2
6085             deliveryFlag=11
6086             seqNum=327
6087             sendTime=1445359808
6088             sendTimeNS=54575000 (2015/10/20 12:50:08.54575)}
6089     StreamID:{size=8
6090               type=455
6091               streamID=50}
6092     RFQ:{size=28
6093          type=415
6094          sourceTime=1445359808
6095          sourceTimeNS=54564000 (2015/10/20 12:50:08.54564)
6096          symbolSeqNum=5
6097          series=20693717
6098          side=S
6099          Shares=50
6100          Price=51000}
6101
6102
```

```
6103 =====PACKET
6104
6105     Header={pktSize=64
6106           numberMsgs=2
6107           deliveryFlag=11
6108           seqNum=329
6109           sendTime=1445359809
6110           sendTimeNS=124206000 (2015/10/20 12:50:09.124206)}
6111     StreamID:{size=8
6112             type=455
6113             streamID=50}
6114     Top:{size=40
6115         type=401
6116         sourceTime=1445359809
6117         sourceTimeNS=124057000 (2015/10/20 12:50:09.124057)
6118         symbolSeqNum=6
6119         series=20693717
6120         askPrice=0
6121         bidPrice=50000
6122         askShares=0
6123         bidShares=1
6124         askCustomerShares=0
6125         bidCustomerShares=1
6126         quoteCondition=1}
6127
6128
6129 =====PACKET
6130
6131     Header={pktSize=24
6132           numberMsgs=1
6133           deliveryFlag=1
6134           seqNum=104
6135           sendTime=1445359809
6136           sendTimeNS=658966000 (2015/10/20 12:50:09.658966)}
6137     StreamID:{size=8
6138             type=455
6139             streamID=49}
6140
6141
6142 =====PACKET
6143
6144     Header={pktSize=24
6145           numberMsgs=1
6146           deliveryFlag=1
6147           seqNum=3
6148           sendTime=1445359812
6149           sendTimeNS=643000 (2015/10/20 12:50:12.643)}
6150     StreamID:{size=8
6151             type=455
6152             streamID=48}
6153
6154
6155 =====PACKET
6156
```

```
6157     Header={pktSize=84
6158         numberMsgs=3
6159         deliveryFlag=11
6160         seqNum=331
6161         sendTime=1445359838
6162         sendTimeNS=47465000 (2015/10/20 12:50:38.47465)}
6163     StreamID:{size=8
6164         type=455
6165         streamID=50}
6166     Trade:{size=36
6167         type=407
6168         sourceTime=1445359838
6169         sourceTimeNS=47419000 (2015/10/20 12:50:38.47419)
6170         symbolSeqNum=7
6171         series=20693717
6172         tradeID=11
6173         tradePrice=51000
6174         tradeVolume=50
6175         tradeCondition_1='R'
6176         tradeCondition_2=' '}
6177     Series Status:{size=24
6178         type=421
6179         sourceTime=1445359838
6180         sourceTimeNS=47449000 (2015/10/20 12:50:38.47449)
6181         symbolSeqNum=8
6182         series=20693717
6183         Status=Q}
6184
6185
6186     =====PACKET
6187
6188     Header={pktSize=24
6189         numberMsgs=1
6190         deliveryFlag=1
6191         seqNum=104
6192         sendTime=1445359839
6193         sendTimeNS=658971000 (2015/10/20 12:50:39.658971)}
6194     StreamID:{size=8
6195         type=455
6196         streamID=49}
6197
6198
6199     =====PACKET
6200
6201     Header={pktSize=24
6202         numberMsgs=1
6203         deliveryFlag=1
6204         seqNum=3
6205         sendTime=1445359842
6206         sendTimeNS=647000 (2015/10/20 12:50:42.647)}
6207     StreamID:{size=8
6208         type=455
6209         streamID=48}
6210
```

```
6211
6212 =====PACKET
6213
6214     Header={pktSize=60
6215             numberMsgs=2
6216             deliveryFlag=3
6217             seqNum=334
6218             sendTime=1445359859
6219             sendTimeNS=27716000 (2015/10/20 12:50:59.27716)}
6220     StreamID:{size=8
6221             type=455
6222             streamID=50}
6223     Trade:{size=36
6224           type=507
6225           sourceTime=1445359619
6226           sourceTimeNS=27641000 (2015/10/20 12:46:59.27641)
6227           symbolSeqNum=5
6228           series=20693759
6229           tradeID=1
6230           tradePrice=53000
6231           tradeVolume=1
6232           tradeCondition_1=' '
6233           tradeCondition_2=' '}
6234
6235
6236 =====PACKET
6237
6238     Header={pktSize=24
6239             numberMsgs=1
6240             deliveryFlag=1
6241             seqNum=104
6242             sendTime=1445359869
6243             sendTimeNS=658974000 (2015/10/20 12:51:09.658974)}
6244     StreamID:{size=8
6245             type=455
6246             streamID=49}
6247
6248
6249 =====PACKET
6250
6251     Header={pktSize=24
6252             numberMsgs=1
6253             deliveryFlag=1
6254             seqNum=3
6255             sendTime=1445359872
6256             sendTimeNS=650000 (2015/10/20 12:51:12.650)}
6257     StreamID:{size=8
6258             type=455
6259             streamID=48}
6260
6261
6262 =====PACKET
6263
6264     Header={pktSize=64
```

```
6265         numberMsgs=2
6266         deliveryFlag=3
6267         seqNum=336
6268         sendTime=1445359875
6269         sendTimeNS=406496000 (2015/10/20 12:51:15.406496) }
6270     StreamID:{size=8
6271         type=455
6272         streamID=50}
6273     Top:{size=40
6274         type=501
6275         sourceTime=1445359635
6276         sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
6277         symbolSeqNum=5
6278         series=20693759
6279         askPrice=0
6280         bidPrice=0
6281         askShares=0
6282         bidShares=0
6283         askCustomerShares=0
6284         bidCustomerShares=0
6285         quoteCondition=1}
6286
6287
6288     =====PACKET
6289
6290     Header={pktSize=64
6291         numberMsgs=2
6292         deliveryFlag=3
6293         seqNum=338
6294         sendTime=1445359875
6295         sendTimeNS=406596000 (2015/10/20 12:51:15.406596) }
6296     StreamID:{size=8
6297         type=455
6298         streamID=50}
6299     Top:{size=40
6300         type=501
6301         sourceTime=1445359635
6302         sourceTimeNS=406445000 (2015/10/20 12:47:15.406445)
6303         symbolSeqNum=5
6304         series=20693721
6305         askPrice=0
6306         bidPrice=0
6307         askShares=0
6308         bidShares=0
6309         askCustomerShares=0
6310         bidCustomerShares=0
6311         quoteCondition=1}
6312
6313
6314     =====PACKET
6315
6316     Header={pktSize=64
6317         numberMsgs=2
6318         deliveryFlag=3
```

```
6319         seqNum=340
6320         sendTime=1445359875
6321         sendTimeNS=406628000 (2015/10/20 12:51:15.406628)}
6322     StreamID:{size=8
6323         type=455
6324         streamID=50}
6325     Top:{size=40
6326         type=501
6327         sourceTime=1445359635
6328         sourceTimeNS=406445000 (2015/10/20 12:47:15.406445)
6329         symbolSeqNum=5
6330         series=20693722
6331         askPrice=0
6332         bidPrice=0
6333         askShares=0
6334         bidShares=0
6335         askCustomerShares=0
6336         bidCustomerShares=0
6337         quoteCondition=1}
6338
6339
```

```
6340     =====PACKET
```

```
6341
6342     Header={pktSize=60
6343         numberMsgs=2
6344         deliveryFlag=3
6345         seqNum=342
6346         sendTime=1445359888
6347         sendTimeNS=71263000 (2015/10/20 12:51:28.71263)}
6348     StreamID:{size=8
6349         type=455
6350         streamID=50}
6351     Trade:{size=36
6352         type=507
6353         sourceTime=1445359767
6354         sourceTimeNS=62437000 (2015/10/20 12:49:27.62437)
6355         symbolSeqNum=16
6356         series=20693719
6357         tradeID=5
6358         tradePrice=54000
6359         tradeVolume=3
6360         tradeCondition_1=' '
6361         tradeCondition_2=' '}
```

```
6362
6363
6364     =====PACKET
```

```
6365
6366     Header={pktSize=64
6367         numberMsgs=2
6368         deliveryFlag=3
6369         seqNum=344
6370         sendTime=1445359889
6371         sendTimeNS=107768000 (2015/10/20 12:51:29.107768)}
6372     StreamID:{size=8
```

```
6373         type=455
6374         streamID=50}
6375     Top:{size=40
6376         type=501
6377         sourceTime=1445359769
6378         sourceTimeNS=107642000 (2015/10/20 12:49:29.107642)
6379         symbolSeqNum=16
6380         series=20693719
6381         askPrice=0
6382         bidPrice=0
6383         askShares=0
6384         bidShares=0
6385         askCustomerShares=0
6386         bidCustomerShares=0
6387         quoteCondition=1}
6388
6389
```

```
6390 =====PACKET
```

```
6391
6392     Header={pktSize=64
6393         numberMsgs=2
6394         deliveryFlag=3
6395         seqNum=104
6396         sendTime=1445359899
6397         sendTimeNS=653983000 (2015/10/20 12:51:39.653983)}
6398     StreamID:{size=8
6399         type=455
6400         streamID=49}
6401     Top:{size=40
6402         type=501
6403         sourceTime=1445359779
6404         sourceTimeNS=653906000 (2015/10/20 12:49:39.653906)
6405         symbolSeqNum=5
6406         series=20693809
6407         askPrice=0
6408         bidPrice=0
6409         askShares=0
6410         bidShares=0
6411         askCustomerShares=0
6412         bidCustomerShares=0
6413         quoteCondition=2}
6414
```

```
6415 =====PACKET
```

```
6416
6417     Header={pktSize=60
6418         numberMsgs=2
6419         deliveryFlag=11
6420         seqNum=106
6421         sendTime=1445359899
6422         sendTimeNS=686642000 (2015/10/20 12:51:39.686642)}
6423     StreamID:{size=8
6424         type=455
6425         streamID=49}
6426
```

```
6427     Imbalance:{size=36
6428         type=509
6429         sourceTime=1445359779
6430         sourceTimeNS=658938000 (2015/10/20 12:49:39.658938)
6431         symbolSeqNum=5
6432         series=20693809
6433         referencePrice=0
6434         auctionType=0
6435         pairedQty=0
6436         totalImbalanceQty=0
6437         totalImbalanceSide=
6438         mktImbalanceSide=S}
6439
6440
6441     =====PACKET
6442
6443     Header={pktSize=24
6444         numberMsgs=1
6445         deliveryFlag=1
6446         seqNum=3
6447         sendTime=1445359902
6448         sendTimeNS=655000 (2015/10/20 12:51:42.655)}
6449     StreamID:{size=8
6450         type=455
6451         streamID=48}
6452
6453
6454     =====PACKET
6455
6456     Header={pktSize=60
6457         numberMsgs=2
6458         deliveryFlag=3
6459         seqNum=346
6460         sendTime=1445359911
6461         sendTimeNS=239013000 (2015/10/20 12:51:51.239013)}
6462     StreamID:{size=8
6463         type=455
6464         streamID=50}
6465     Trade:{size=36
6466         type=507
6467         sourceTime=1445359791
6468         sourceTimeNS=238968000 (2015/10/20 12:49:51.238968)
6469         symbolSeqNum=11
6470         series=20693763
6471         tradeID=9
6472         tradePrice=25300
6473         tradeVolume=100
6474         tradeCondition_1=' '
6475         tradeCondition_2='L'}
6476
6477
6478     =====PACKET
6479
6480     Header={pktSize=60
```

```
6481         numberMsgs=2
6482         deliveryFlag=3
6483         seqNum=348
6484         sendTime=1445359912
6485         sendTimeNS=242365000 (2015/10/20 12:51:52.242365) }
6486     StreamID:{size=8
6487         type=455
6488         streamID=50}
6489     Trade:{size=36
6490         type=507
6491         sourceTime=1445359792
6492         sourceTimeNS=242317000 (2015/10/20 12:49:52.242317)
6493         symbolSeqNum=12
6494         series=20693761
6495         tradeID=10
6496         tradePrice=50000
6497         tradeVolume=10
6498         tradeCondition_1=' '
6499         tradeCondition_2=' '}
```

```
6500
6501
6502 =====PACKET
```

```
6503
6504     Header={pktSize=64
6505         numberMsgs=2
6506         deliveryFlag=3
6507         seqNum=350
6508         sendTime=1445359912
6509         sendTimeNS=745178000 (2015/10/20 12:51:52.745178) }
6510     StreamID:{size=8
6511         type=455
6512         streamID=50}
6513     Top:{size=40
6514         type=501
6515         sourceTime=1445359792
6516         sourceTimeNS=745064000 (2015/10/20 12:49:52.745064)
6517         symbolSeqNum=12
6518         series=20693761
6519         askPrice=54000
6520         bidPrice=0
6521         askShares=90
6522         bidShares=0
6523         askCustomerShares=90
6524         bidCustomerShares=0
6525         quoteCondition=1}
```

```
6526
6527
6528 =====PACKET
```

```
6529
6530     Header={pktSize=64
6531         numberMsgs=2
6532         deliveryFlag=3
6533         seqNum=352
6534         sendTime=1445359913
```

```
6535         sendTimeNS=248068000 (2015/10/20 12:51:53.248068) }
6536 StreamID:{size=8
6537         type=455
6538         streamID=50}
6539 Top:{size=40
6540         type=501
6541         sourceTime=1445359793
6542         sourceTimeNS=247958000 (2015/10/20 12:49:53.247958)
6543         symbolSeqNum=11
6544         series=20693763
6545         askPrice=0
6546         bidPrice=25000
6547         askShares=0
6548         bidShares=190
6549         askCustomerShares=0
6550         bidCustomerShares=190
6551         quoteCondition=1}
6552
```

```
6553
6554 =====PACKET
6555
```

```
6556         Header={pktSize=64
6557                 numberMsgs=2
6558                 deliveryFlag=3
6559                 seqNum=354
6560                 sendTime=1445359927
6561                 sendTimeNS=550579000 (2015/10/20 12:52:07.550579) }
6562 StreamID:{size=8
6563         type=455
6564         streamID=50}
6565 Top:{size=40
6566         type=501
6567         sourceTime=1445359807
6568         sourceTimeNS=550434000 (2015/10/20 12:50:07.550434)
6569         symbolSeqNum=10
6570         series=20693720
6571         askPrice=0
6572         bidPrice=0
6573         askShares=0
6574         bidShares=0
6575         askCustomerShares=0
6576         bidCustomerShares=0
6577         quoteCondition=1}
6578
```

```
6579
6580 =====PACKET
6581
```

```
6582         Header={pktSize=64
6583                 numberMsgs=2
6584                 deliveryFlag=3
6585                 seqNum=356
6586                 sendTime=1445359929
6587                 sendTimeNS=124201000 (2015/10/20 12:52:09.124201) }
6588 StreamID:{size=8
```

```
6589         type=455
6590         streamID=50}
6591     Top:{size=40
6592         type=501
6593         sourceTime=1445359809
6594         sourceTimeNS=124057000 (2015/10/20 12:50:09.124057)
6595         symbolSeqNum=8
6596         series=20693717
6597         askPrice=0
6598         bidPrice=50000
6599         askShares=0
6600         bidShares=1
6601         askCustomerShares=0
6602         bidCustomerShares=1
6603         quoteCondition=1}
6604
6605
6606     =====PACKET
6607
6608         Header={pktSize=24
6609             numberMsgs=1
6610             deliveryFlag=1
6611             seqNum=108
6612             sendTime=1445359929
6613             sendTimeNS=686646000 (2015/10/20 12:52:09.686646)}
6614         StreamID:{size=8
6615             type=455
6616             streamID=49}
6617
6618
6619     =====PACKET
6620
6621         Header={pktSize=24
6622             numberMsgs=1
6623             deliveryFlag=1
6624             seqNum=3
6625             sendTime=1445359932
6626             sendTimeNS=660000 (2015/10/20 12:52:12.660)}
6627         StreamID:{size=8
6628             type=455
6629             streamID=48}
6630
6631
6632     =====PACKET
6633
6634         Header={pktSize=184
6635             numberMsgs=5
6636             deliveryFlag=11
6637             seqNum=358
6638             sendTime=1445359939
6639             sendTimeNS=630887000 (2015/10/20 12:52:19.630887)}
6640         StreamID:{size=8
6641             type=455
6642             streamID=50}
```

6643 Top:{size=40  
6644 type=401  
6645 sourceTime=1445359939  
6646 sourceTimeNS=630723000 (2015/10/20 12:52:19.630723)  
6647 symbolSeqNum=13  
6648 series=20693761  
6649 askPrice=0  
6650 bidPrice=0  
6651 askShares=0  
6652 bidShares=0  
6653 askCustomerShares=0  
6654 bidCustomerShares=0  
6655 quoteCondition=1}  
6656 Top:{size=40  
6657 type=401  
6658 sourceTime=1445359939  
6659 sourceTimeNS=630747000 (2015/10/20 12:52:19.630747)  
6660 symbolSeqNum=12  
6661 series=20693763  
6662 askPrice=0  
6663 bidPrice=25000  
6664 askShares=0  
6665 bidShares=180  
6666 askCustomerShares=0  
6667 bidCustomerShares=180  
6668 quoteCondition=1}  
6669 Top:{size=40  
6670 type=401  
6671 sourceTime=1445359939  
6672 sourceTimeNS=630756000 (2015/10/20 12:52:19.630756)  
6673 symbolSeqNum=13  
6674 series=20693763  
6675 askPrice=0  
6676 bidPrice=0  
6677 askShares=0  
6678 bidShares=0  
6679 askCustomerShares=0  
6680 bidCustomerShares=0  
6681 quoteCondition=1}  
6682 Top:{size=40  
6683 type=401  
6684 sourceTime=1445359939  
6685 sourceTimeNS=630761000 (2015/10/20 12:52:19.630761)  
6686 symbolSeqNum=9  
6687 series=20693717  
6688 askPrice=0  
6689 bidPrice=0  
6690 askShares=0  
6691 bidShares=0  
6692 askCustomerShares=0  
6693 bidCustomerShares=0  
6694 quoteCondition=1}  
6695  
6696

```
6697 =====PACKET
6698
6699     Header={pktSize=60
6700           numberMsgs=2
6701           deliveryFlag=11
6702           seqNum=108
6703           sendTime=1445359939
6704           sendTimeNS=637702000 (2015/10/20 12:52:19.637702)}
6705     StreamID:{size=8
6706             type=455
6707             streamID=49}
6708     Imbalance:{size=36
6709             type=413
6710             sourceTime=1445359939
6711             sourceTimeNS=637677000 (2015/10/20 12:52:19.637677)
6712             symbolSeqNum=6
6713             series=20693809
6714             referencePrice=0
6715             auctionType=0
6716             pairedQty=0
6717             totalImbalanceQty=0
6718             totalImbalanceSide=
6719             mktImbalanceSide= }
6720
6721
6722 =====PACKET
6723
6724     Header={pktSize=60
6725           numberMsgs=2
6726           deliveryFlag=3
6727           seqNum=363
6728           sendTime=1445359958
6729           sendTimeNS=47478000 (2015/10/20 12:52:38.47478)}
6730     StreamID:{size=8
6731             type=455
6732             streamID=50}
6733     Trade:{size=36
6734           type=507
6735           sourceTime=1445359838
6736           sourceTimeNS=47419000 (2015/10/20 12:50:38.47419)
6737           symbolSeqNum=9
6738           series=20693717
6739           tradeID=11
6740           tradePrice=51000
6741           tradeVolume=50
6742           tradeCondition_1='R'
6743           tradeCondition_2=' '}
6744
6745
6746 =====PACKET
6747
6748     Header={pktSize=24
6749           numberMsgs=1
6750           deliveryFlag=1
```

```
6751         seqNum=3
6752         sendTime=1445359962
6753         sendTimeNS=667000 (2015/10/20 12:52:42.667)}
6754     StreamID:{size=8
6755         type=455
6756         streamID=48}
6757
6758
6759     =====PACKET
6760
6761     Header={pktSize=24
6762         numberMsgs=1
6763         deliveryFlag=1
6764         seqNum=110
6765         sendTime=1445359969
6766         sendTimeNS=637707000 (2015/10/20 12:52:49.637707)}
6767     StreamID:{size=8
6768         type=455
6769         streamID=49}
6770
6771
6772     =====PACKET
6773
6774     Header={pktSize=60
6775         numberMsgs=2
6776         deliveryFlag=3
6777         seqNum=365
6778         sendTime=1445359979
6779         sendTimeNS=27712000 (2015/10/20 12:52:59.27712)}
6780     StreamID:{size=8
6781         type=455
6782         streamID=50}
6783     Trade:{size=36
6784         type=507
6785         sourceTime=1445359619
6786         sourceTimeNS=27641000 (2015/10/20 12:46:59.27641)
6787         symbolSeqNum=5
6788         series=20693759
6789         tradeID=1
6790         tradePrice=53000
6791         tradeVolume=1
6792         tradeCondition_1=' '
6793         tradeCondition_2=' '}
6794
6795
6796     =====PACKET
6797
6798     Header={pktSize=24
6799         numberMsgs=1
6800         deliveryFlag=1
6801         seqNum=3
6802         sendTime=1445359992
6803         sendTimeNS=672000 (2015/10/20 12:53:12.672)}
6804     StreamID:{size=8
```

```
6805         type=455
6806         streamID=48}
6807
6808
6809 =====PACKET
6810
6811     Header={pktSize=64
6812             numberMsgs=2
6813             deliveryFlag=3
6814             seqNum=367
6815             sendTime=1445359995
6816             sendTimeNS=406499000 (2015/10/20 12:53:15.406499)}
6817     StreamID:{size=8
6818               type=455
6819               streamID=50}
6820     Top:{size=40
6821          type=501
6822          sourceTime=1445359635
6823          sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
6824          symbolSeqNum=5
6825          series=20693759
6826          askPrice=0
6827          bidPrice=0
6828          askShares=0
6829          bidShares=0
6830          askCustomerShares=0
6831          bidCustomerShares=0
6832          quoteCondition=1}
6833
6834
6835 =====PACKET
6836
6837     Header={pktSize=64
6838             numberMsgs=2
6839             deliveryFlag=3
6840             seqNum=369
6841             sendTime=1445359995
6842             sendTimeNS=406593000 (2015/10/20 12:53:15.406593)}
6843     StreamID:{size=8
6844               type=455
6845               streamID=50}
6846     Top:{size=40
6847          type=501
6848          sourceTime=1445359635
6849          sourceTimeNS=406445000 (2015/10/20 12:47:15.406445)
6850          symbolSeqNum=5
6851          series=20693721
6852          askPrice=0
6853          bidPrice=0
6854          askShares=0
6855          bidShares=0
6856          askCustomerShares=0
6857          bidCustomerShares=0
6858          quoteCondition=1}
```

```
6859
6860
6861 =====PACKET
6862
6863     Header={pktSize=64
6864             numberMsgs=2
6865             deliveryFlag=3
6866             seqNum=371
6867             sendTime=1445359995
6868             sendTimeNS=406660000 (2015/10/20 12:53:15.406660) }
6869     StreamID:{size=8
6870             type=455
6871             streamID=50}
6872     Top:{size=40
6873         type=501
6874         sourceTime=1445359635
6875         sourceTimeNS=406445000 (2015/10/20 12:47:15.406445)
6876         symbolSeqNum=5
6877         series=20693722
6878         askPrice=0
6879         bidPrice=0
6880         askShares=0
6881         bidShares=0
6882         askCustomerShares=0
6883         bidCustomerShares=0
6884         quoteCondition=1}
6885
6886
6887 =====PACKET
6888
6889     Header={pktSize=24
6890             numberMsgs=1
6891             deliveryFlag=1
6892             seqNum=110
6893             sendTime=1445359999
6894             sendTimeNS=637711000 (2015/10/20 12:53:19.637711) }
6895     StreamID:{size=8
6896             type=455
6897             streamID=49}
6898
6899
6900 =====PACKET
6901
6902     Header={pktSize=60
6903             numberMsgs=2
6904             deliveryFlag=3
6905             seqNum=373
6906             sendTime=1445360008
6907             sendTimeNS=71264000 (2015/10/20 12:53:28.71264) }
6908     StreamID:{size=8
6909             type=455
6910             streamID=50}
6911     Trade:{size=36
6912            type=507
```

```
6913         sourceTime=1445359767
6914         sourceTimeNS=62437000 (2015/10/20 12:49:27.62437)
6915         symbolSeqNum=16
6916         series=20693719
6917         tradeID=5
6918         tradePrice=54000
6919         tradeVolume=3
6920         tradeCondition_1=' '
6921         tradeCondition_2=' '
6922
6923
6924 =====PACKET
6925
6926         Header={pktSize=64
6927                 numberMsgs=2
6928                 deliveryFlag=3
6929                 seqNum=375
6930                 sendTime=1445360009
6931                 sendTimeNS=107764000 (2015/10/20 12:53:29.107764) }
6932         StreamID:{size=8
6933                 type=455
6934                 streamID=50}
6935         Top:{size=40
6936                 type=501
6937                 sourceTime=1445359769
6938                 sourceTimeNS=107642000 (2015/10/20 12:49:29.107642)
6939                 symbolSeqNum=16
6940                 series=20693719
6941                 askPrice=0
6942                 bidPrice=0
6943                 askShares=0
6944                 bidShares=0
6945                 askCustomerShares=0
6946                 bidCustomerShares=0
6947                 quoteCondition=1}
6948
6949
6950 =====PACKET
6951
6952         Header={pktSize=64
6953                 numberMsgs=2
6954                 deliveryFlag=3
6955                 seqNum=110
6956                 sendTime=1445360019
6957                 sendTimeNS=654003000 (2015/10/20 12:53:39.654003) }
6958         StreamID:{size=8
6959                 type=455
6960                 streamID=49}
6961         Top:{size=40
6962                 type=501
6963                 sourceTime=1445359779
6964                 sourceTimeNS=653906000 (2015/10/20 12:49:39.653906)
6965                 symbolSeqNum=6
6966                 series=20693809
```

```
6967         askPrice=0
6968         bidPrice=0
6969         askShares=0
6970         bidShares=0
6971         askCustomerShares=0
6972         bidCustomerShares=0
6973         quoteCondition=2}
6974
6975
6976 =====PACKET
6977
6978     Header={pktSize=24
6979             numberMsgs=1
6980             deliveryFlag=1
6981             seqNum=3
6982             sendTime=1445360022
6983             sendTimeNS=675000 (2015/10/20 12:53:42.675)}
6984     StreamID:{size=8
6985              type=455
6986              streamID=48}
6987
6988
6989 =====PACKET
6990
6991     Header={pktSize=60
6992             numberMsgs=2
6993             deliveryFlag=3
6994             seqNum=377
6995             sendTime=1445360031
6996             sendTimeNS=239013000 (2015/10/20 12:53:51.239013)}
6997     StreamID:{size=8
6998              type=455
6999              streamID=50}
7000     Trade:{size=36
7001            type=507
7002            sourceTime=1445359791
7003            sourceTimeNS=238968000 (2015/10/20 12:49:51.238968)
7004            symbolSeqNum=13
7005            series=20693763
7006            tradeID=9
7007            tradePrice=25300
7008            tradeVolume=100
7009            tradeCondition_1=' '
7010            tradeCondition_2='L'}
7011
7012
7013 =====PACKET
7014
7015     Header={pktSize=60
7016             numberMsgs=2
7017             deliveryFlag=3
7018             seqNum=379
7019             sendTime=1445360032
7020             sendTimeNS=242368000 (2015/10/20 12:53:52.242368)}
```

```
7021     StreamID:{size=8
7022         type=455
7023         streamID=50}
7024     Trade:{size=36
7025         type=507
7026         sourceTime=1445359792
7027         sourceTimeNS=242317000 (2015/10/20 12:49:52.242317)
7028         symbolSeqNum=13
7029         series=20693761
7030         tradeID=10
7031         tradePrice=50000
7032         tradeVolume=10
7033         tradeCondition_1=' '
7034         tradeCondition_2=' '}
7035
7036
7037     =====PACKET
7038
7039     Header={pktSize=64
7040         numberMsgs=2
7041         deliveryFlag=3
7042         seqNum=381
7043         sendTime=1445360047
7044         sendTimeNS=550559000 (2015/10/20 12:54:07.550559)}
7045     StreamID:{size=8
7046         type=455
7047         streamID=50}
7048     Top:{size=40
7049         type=501
7050         sourceTime=1445359807
7051         sourceTimeNS=550434000 (2015/10/20 12:50:07.550434)
7052         symbolSeqNum=10
7053         series=20693720
7054         askPrice=0
7055         bidPrice=0
7056         askShares=0
7057         bidShares=0
7058         askCustomerShares=0
7059         bidCustomerShares=0
7060         quoteCondition=1}
7061
7062
7063     =====PACKET
7064
7065     Header={pktSize=24
7066         numberMsgs=1
7067         deliveryFlag=1
7068         seqNum=112
7069         sendTime=1445360049
7070         sendTimeNS=654009000 (2015/10/20 12:54:09.654009)}
7071     StreamID:{size=8
7072         type=455
7073         streamID=49}
7074
```

```
7075
7076 =====PACKET
7077
7078     Header={pktSize=72
7079             numberMsgs=3
7080             deliveryFlag=11
7081             seqNum=383
7082             sendTime=1445360049
7083             sendTimeNS=809048000 (2015/10/20 12:54:09.809048)}
7084     StreamID:{size=8
7085             type=455
7086             streamID=50}
7087     Series Status:{size=24
7088             type=421
7089             sourceTime=1445360049
7090             sourceTimeNS=809010000 (2015/10/20 12:54:09.809010)
7091             symbolSeqNum=3
7092             series=20691688
7093             Status=0}
7094     Series Status:{size=24
7095             type=421
7096             sourceTime=1445360049
7097             sourceTimeNS=809025000 (2015/10/20 12:54:09.809025)
7098             symbolSeqNum=3
7099             series=20691703
7100             Status=0}
7101
7102
7103 =====PACKET
7104
7105     Header={pktSize=48
7106             numberMsgs=2
7107             deliveryFlag=11
7108             seqNum=386
7109             sendTime=1445360049
7110             sendTimeNS=809144000 (2015/10/20 12:54:09.809144)}
7111     StreamID:{size=8
7112             type=455
7113             streamID=50}
7114     Series Status:{size=24
7115             type=421
7116             sourceTime=1445360049
7117             sourceTimeNS=809048000 (2015/10/20 12:54:09.809048)
7118             symbolSeqNum=3
7119             series=20691705
7120             Status=0}
7121
7122
7123 =====PACKET
7124
7125     Header={pktSize=48
7126             numberMsgs=2
7127             deliveryFlag=11
7128             seqNum=388
```

```
7129         sendTime=1445360049
7130         sendTimeNS=809982000 (2015/10/20 12:54:09.809982)}
7131     StreamID:{size=8
7132         type=455
7133         streamID=50}
7134     Series Status:{size=24
7135         type=421
7136         sourceTime=1445360049
7137         sourceTimeNS=809968000 (2015/10/20 12:54:09.809968)
7138         symbolSeqNum=3
7139         series=20691707
7140         Status=0}
7141
7142
7143     =====PACKET
7144
7145     Header={pktSize=48
7146         numberMsgs=2
7147         deliveryFlag=11
7148         seqNum=390
7149         sendTime=1445360049
7150         sendTimeNS=810182000 (2015/10/20 12:54:09.810182)}
7151     StreamID:{size=8
7152         type=455
7153         streamID=50}
7154     Series Status:{size=24
7155         type=421
7156         sourceTime=1445360049
7157         sourceTimeNS=810168000 (2015/10/20 12:54:09.810168)
7158         symbolSeqNum=3
7159         series=20691697
7160         Status=0}
7161
7162
7163     =====PACKET
7164
7165     Header={pktSize=48
7166         numberMsgs=2
7167         deliveryFlag=11
7168         seqNum=392
7169         sendTime=1445360049
7170         sendTimeNS=812832000 (2015/10/20 12:54:09.812832)}
7171     StreamID:{size=8
7172         type=455
7173         streamID=50}
7174     Series Status:{size=24
7175         type=421
7176         sourceTime=1445360049
7177         sourceTimeNS=812820000 (2015/10/20 12:54:09.812820)
7178         symbolSeqNum=3
7179         series=20691704
7180         Status=0}
7181
7182
```

```
7183 =====PACKET
7184
7185     Header={pktSize=24
7186           numberMsgs=1
7187           deliveryFlag=1
7188           seqNum=3
7189           sendTime=1445360052
7190           sendTimeNS=677000 (2015/10/20 12:54:12.677)}
7191     StreamID:{size=8
7192             type=455
7193             streamID=48}
7194
7195
7196 =====PACKET
7197
7198     Header={pktSize=64
7199           numberMsgs=2
7200           deliveryFlag=3
7201           seqNum=394
7202           sendTime=1445360059
7203           sendTimeNS=630860000 (2015/10/20 12:54:19.630860)}
7204     StreamID:{size=8
7205             type=455
7206             streamID=50}
7207     Top:{size=40
7208         type=501
7209         sourceTime=1445359939
7210         sourceTimeNS=630723000 (2015/10/20 12:52:19.630723)
7211         symbolSeqNum=13
7212         series=20693761
7213         askPrice=0
7214         bidPrice=0
7215         askShares=0
7216         bidShares=0
7217         askCustomerShares=0
7218         bidCustomerShares=0
7219         quoteCondition=1}
7220
7221
7222 =====PACKET
7223
7224     Header={pktSize=104
7225           numberMsgs=3
7226           deliveryFlag=3
7227           seqNum=396
7228           sendTime=1445360059
7229           sendTimeNS=630941000 (2015/10/20 12:54:19.630941)}
7230     StreamID:{size=8
7231             type=455
7232             streamID=50}
7233     Top:{size=40
7234         type=501
7235         sourceTime=1445359939
7236         sourceTimeNS=630756000 (2015/10/20 12:52:19.630756)}
```

```
7237     symbolSeqNum=13
7238     series=20693763
7239     askPrice=0
7240     bidPrice=0
7241     askShares=0
7242     bidShares=0
7243     askCustomerShares=0
7244     bidCustomerShares=0
7245     quoteCondition=1}
7246 Top:{size=40
7247     type=501
7248     sourceTime=1445359939
7249     sourceTimeNS=630761000 (2015/10/20 12:52:19.630761)
7250     symbolSeqNum=9
7251     series=20693717
7252     askPrice=0
7253     bidPrice=0
7254     askShares=0
7255     bidShares=0
7256     askCustomerShares=0
7257     bidCustomerShares=0
7258     quoteCondition=1}
7259
7260
7261 =====PACKET
7262
7263     Header={pktSize=60
7264         numberMsgs=2
7265         deliveryFlag=11
7266         seqNum=112
7267         sendTime=1445360059
7268         sendTimeNS=665203000 (2015/10/20 12:54:19.665203) }
7269     StreamID:{size=8
7270         type=455
7271         streamID=49}
7272     Imbalance:{size=36
7273         type=509
7274         sourceTime=1445359939
7275         sourceTimeNS=637677000 (2015/10/20 12:52:19.637677)
7276         symbolSeqNum=6
7277         series=20693809
7278         referencePrice=0
7279         auctionType=0
7280         pairedQty=0
7281         totalImbalanceQty=0
7282         totalImbalanceSide=
7283         mktImbalanceSide= }
7284
7285
7286 =====PACKET
7287
7288     Header={pktSize=60
7289         numberMsgs=2
7290         deliveryFlag=3
```

```
7291         seqNum=399
7292         sendTime=1445360078
7293         sendTimeNS=47473000 (2015/10/20 12:54:38.47473)}
7294     StreamID:{size=8
7295         type=455
7296         streamID=50}
7297     Trade:{size=36
7298         type=507
7299         sourceTime=1445359838
7300         sourceTimeNS=47419000 (2015/10/20 12:50:38.47419)
7301         symbolSeqNum=9
7302         series=20693717
7303         tradeID=11
7304         tradePrice=51000
7305         tradeVolume=50
7306         tradeCondition_1='R'
7307         tradeCondition_2=' '}
7308
7309
7310     =====PACKET
7311
7312         Header={pktSize=24
7313             numberMsgs=1
7314             deliveryFlag=1
7315             seqNum=3
7316             sendTime=1445360082
7317             sendTimeNS=680000 (2015/10/20 12:54:42.680)}
7318     StreamID:{size=8
7319         type=455
7320         streamID=48}
7321
7322
7323     =====PACKET
7324
7325         Header={pktSize=24
7326             numberMsgs=1
7327             deliveryFlag=1
7328             seqNum=114
7329             sendTime=1445360089
7330             sendTimeNS=665209000 (2015/10/20 12:54:49.665209)}
7331     StreamID:{size=8
7332         type=455
7333         streamID=49}
7334
7335
7336     =====PACKET
7337
7338         Header={pktSize=60
7339             numberMsgs=2
7340             deliveryFlag=3
7341             seqNum=401
7342             sendTime=1445360099
7343             sendTimeNS=27712000 (2015/10/20 12:54:59.27712)}
7344     StreamID:{size=8
```

```
7345         type=455
7346         streamID=50}
7347 Trade:{size=36
7348         type=507
7349         sourceTime=1445359619
7350         sourceTimeNS=27641000 (2015/10/20 12:46:59.27641)
7351         symbolSeqNum=5
7352         series=20693759
7353         tradeID=1
7354         tradePrice=53000
7355         tradeVolume=1
7356         tradeCondition_1=' '
7357         tradeCondition_2=' '}
7358
7359
7360 =====PACKET
7361
7362 Header={pktSize=24
7363         numberMsgs=1
7364         deliveryFlag=1
7365         seqNum=3
7366         sendTime=1445360112
7367         sendTimeNS=684000 (2015/10/20 12:55:12.684)}
7368 StreamID:{size=8
7369         type=455
7370         streamID=48}
7371
7372
7373 =====PACKET
7374
7375 Header={pktSize=64
7376         numberMsgs=2
7377         deliveryFlag=3
7378         seqNum=403
7379         sendTime=1445360115
7380         sendTimeNS=406503000 (2015/10/20 12:55:15.406503)}
7381 StreamID:{size=8
7382         type=455
7383         streamID=50}
7384 Top:{size=40
7385         type=501
7386         sourceTime=1445359635
7387         sourceTimeNS=406360000 (2015/10/20 12:47:15.406360)
7388         symbolSeqNum=5
7389         series=20693759
7390         askPrice=0
7391         bidPrice=0
7392         askShares=0
7393         bidShares=0
7394         askCustomerShares=0
7395         bidCustomerShares=0
7396         quoteCondition=1}
7397
7398
```

```
7399 =====PACKET
7400
7401     Header={pktSize=104
7402           numberMsgs=3
7403           deliveryFlag=3
7404           seqNum=405
7405           sendTime=1445360115
7406           sendTimeNS=406602000 (2015/10/20 12:55:15.406602)}
7407     StreamID:{size=8
7408             type=455
7409             streamID=50}
7410     Top:{size=40
7411         type=501
7412         sourceTime=1445359635
7413         sourceTimeNS=406445000 (2015/10/20 12:47:15.406445)
7414         symbolSeqNum=5
7415         series=20693721
7416         askPrice=0
7417         bidPrice=0
7418         askShares=0
7419         bidShares=0
7420         askCustomerShares=0
7421         bidCustomerShares=0
7422         quoteCondition=1}
7423     Top:{size=40
7424         type=501
7425         sourceTime=1445359635
7426         sourceTimeNS=406445000 (2015/10/20 12:47:15.406445)
7427         symbolSeqNum=5
7428         series=20693722
7429         askPrice=0
7430         bidPrice=0
7431         askShares=0
7432         bidShares=0
7433         askCustomerShares=0
7434         bidCustomerShares=0
7435         quoteCondition=1}
7436
7437
7438 =====PACKET
7439
7440     Header={pktSize=24
7441           numberMsgs=1
7442           deliveryFlag=1
7443           seqNum=114
7444           sendTime=1445360119
7445           sendTimeNS=665214000 (2015/10/20 12:55:19.665214)}
7446     StreamID:{size=8
7447             type=455
7448             streamID=49}
7449
7450
7451 =====PACKET
7452
```

```
7453 Header={pktSize=60
7454     numberMsgs=2
7455     deliveryFlag=3
7456     seqNum=408
7457     sendTime=1445360128
7458     sendTimeNS=71261000 (2015/10/20 12:55:28.71261)}
7459 StreamID:{size=8
7460     type=455
7461     streamID=50}
7462 Trade:{size=36
7463     type=507
7464     sourceTime=1445359767
7465     sourceTimeNS=62437000 (2015/10/20 12:49:27.62437)
7466     symbolSeqNum=16
7467     series=20693719
7468     tradeID=5
7469     tradePrice=54000
7470     tradeVolume=3
7471     tradeCondition_1=' '
7472     tradeCondition_2=' '}
7473
7474
7475 =====PACKET
7476
7477 Header={pktSize=64
7478     numberMsgs=2
7479     deliveryFlag=3
7480     seqNum=410
7481     sendTime=1445360129
7482     sendTimeNS=107758000 (2015/10/20 12:55:29.107758)}
7483 StreamID:{size=8
7484     type=455
7485     streamID=50}
7486 Top:{size=40
7487     type=501
7488     sourceTime=1445359769
7489     sourceTimeNS=107642000 (2015/10/20 12:49:29.107642)
7490     symbolSeqNum=16
7491     series=20693719
7492     askPrice=0
7493     bidPrice=0
7494     askShares=0
7495     bidShares=0
7496     askCustomerShares=0
7497     bidCustomerShares=0
7498     quoteCondition=1}
7499
7500
7501 =====PACKET
7502
7503 Header={pktSize=64
7504     numberMsgs=2
7505     deliveryFlag=3
7506     seqNum=114
```

```
7507         sendTime=1445360139
7508         sendTimeNS=653988000 (2015/10/20 12:55:39.653988) }
7509     StreamID:{size=8
7510         type=455
7511         streamID=49}
7512     Top:{size=40
7513         type=501
7514         sourceTime=1445359779
7515         sourceTimeNS=653906000 (2015/10/20 12:49:39.653906)
7516         symbolSeqNum=6
7517         series=20693809
7518         askPrice=0
7519         bidPrice=0
7520         askShares=0
7521         bidShares=0
7522         askCustomerShares=0
7523         bidCustomerShares=0
7524         quoteCondition=2}
7525
7526
7527     =====PACKET
7528
7529     Header={pktSize=24
7530         numberMsgs=1
7531         deliveryFlag=1
7532         seqNum=3
7533         sendTime=1445360142
7534         sendTimeNS=686000 (2015/10/20 12:55:42.686) }
7535     StreamID:{size=8
7536         type=455
7537         streamID=48}
7538
7539
7540     =====PACKET
7541
7542     Header={pktSize=60
7543         numberMsgs=2
7544         deliveryFlag=3
7545         seqNum=412
7546         sendTime=1445360151
7547         sendTimeNS=239014000 (2015/10/20 12:55:51.239014) }
7548     StreamID:{size=8
7549         type=455
7550         streamID=50}
7551     Trade:{size=36
7552         type=507
7553         sourceTime=1445359791
7554         sourceTimeNS=238968000 (2015/10/20 12:49:51.238968)
7555         symbolSeqNum=13
7556         series=20693763
7557         tradeID=9
7558         tradePrice=25300
7559         tradeVolume=100
7560         tradeCondition_1=' ' }
```

```
7561         tradeCondition_2='L'}
7562
7563
7564 =====PACKET
7565
7566     Header={pktSize=60
7567             numberMsgs=2
7568             deliveryFlag=3
7569             seqNum=414
7570             sendTime=1445360152
7571             sendTimeNS=242368000 (2015/10/20 12:55:52.242368)}
7572     StreamID:{size=8
7573               type=455
7574               streamID=50}
7575     Trade:{size=36
7576            type=507
7577            sourceTime=1445359792
7578            sourceTimeNS=242317000 (2015/10/20 12:49:52.242317)
7579            symbolSeqNum=13
7580            series=20693761
7581            tradeID=10
7582            tradePrice=50000
7583            tradeVolume=10
7584            tradeCondition_1=' '
7585            tradeCondition_2=' '}
7586
7587
7588 =====PACKET
7589
7590     Header={pktSize=64
7591             numberMsgs=2
7592             deliveryFlag=3
7593             seqNum=416
7594             sendTime=1445360167
7595             sendTimeNS=550545000 (2015/10/20 12:56:07.550545)}
7596     StreamID:{size=8
7597               type=455
7598               streamID=50}
7599     Top:{size=40
7600          type=501
7601          sourceTime=1445359807
7602          sourceTimeNS=550434000 (2015/10/20 12:50:07.550434)
7603          symbolSeqNum=10
7604          series=20693720
7605          askPrice=0
7606          bidPrice=0
7607          askShares=0
7608          bidShares=0
7609          askCustomerShares=0
7610          bidCustomerShares=0
7611          quoteCondition=1}
7612
7613
7614 =====PACKET
```

```
7615
7616     Header={pktSize=24
7617         numberMsgs=1
7618         deliveryFlag=1
7619         seqNum=116
7620         sendTime=1445360169
7621         sendTimeNS=653996000 (2015/10/20 12:56:09.653996) }
7622     StreamID:{size=8
7623         type=455
7624         streamID=49}
7625
7626
7627     =====PACKET
7628
7629     Header={pktSize=24
7630         numberMsgs=1
7631         deliveryFlag=1
7632         seqNum=3
7633         sendTime=1445360172
7634         sendTimeNS=688000 (2015/10/20 12:56:12.688) }
7635     StreamID:{size=8
7636         type=455
7637         streamID=48}
7638
7639
7640     =====PACKET
7641
7642     Header={pktSize=64
7643         numberMsgs=2
7644         deliveryFlag=3
7645         seqNum=418
7646         sendTime=1445360179
7647         sendTimeNS=630836000 (2015/10/20 12:56:19.630836) }
7648     StreamID:{size=8
7649         type=455
7650         streamID=50}
7651     Top:{size=40
7652         type=501
7653         sourceTime=1445359939
7654         sourceTimeNS=630723000 (2015/10/20 12:52:19.630723)
7655         symbolSeqNum=13
7656         series=20693761
7657         askPrice=0
7658         bidPrice=0
7659         askShares=0
7660         bidShares=0
7661         askCustomerShares=0
7662         bidCustomerShares=0
7663         quoteCondition=1}
7664
7665
7666     =====PACKET
7667
7668     Header={pktSize=104
```

```
7669         numberMsgs=3
7670         deliveryFlag=3
7671         seqNum=420
7672         sendTime=1445360179
7673         sendTimeNS=630898000 (2015/10/20 12:56:19.630898) }
7674     StreamID:{size=8
7675         type=455
7676         streamID=50}
7677     Top:{size=40
7678         type=501
7679         sourceTime=1445359939
7680         sourceTimeNS=630756000 (2015/10/20 12:52:19.630756)
7681         symbolSeqNum=13
7682         series=20693763
7683         askPrice=0
7684         bidPrice=0
7685         askShares=0
7686         bidShares=0
7687         askCustomerShares=0
7688         bidCustomerShares=0
7689         quoteCondition=1}
7690     Top:{size=40
7691         type=501
7692         sourceTime=1445359939
7693         sourceTimeNS=630761000 (2015/10/20 12:52:19.630761)
7694         symbolSeqNum=9
7695         series=20693717
7696         askPrice=0
7697         bidPrice=0
7698         askShares=0
7699         bidShares=0
7700         askCustomerShares=0
7701         bidCustomerShares=0
7702         quoteCondition=1}
7703
7704
7705     =====PACKET
7706
7707     Header={pktSize=60
7708         numberMsgs=2
7709         deliveryFlag=11
7710         seqNum=116
7711         sendTime=1445360179
7712         sendTimeNS=685624000 (2015/10/20 12:56:19.685624) }
7713     StreamID:{size=8
7714         type=455
7715         streamID=49}
7716     Imbalance:{size=36
7717         type=509
7718         sourceTime=1445359939
7719         sourceTimeNS=637677000 (2015/10/20 12:52:19.637677)
7720         symbolSeqNum=6
7721         series=20693809
7722         referencePrice=0
```

```
7723     auctionType=0
7724     pairedQty=0
7725     totalImbalanceQty=0
7726     totalImbalanceSide=
7727     mktImbalanceSide= }
7728
```