



## Airworthiness Directive

**AD No.:** 2024-0024

**Issued:** 24 January 2024

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I Part M.A.301, or Annex Vb Part ML.A.301, as applicable, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I Part M.A.303, or Annex Vb Part ML.A.303, as applicable] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

### Design Approval Holder's Name:

THOMMEN AIRCRAFT EQUIPMENT AG

### Type/Model designation(s):

AC32 Digital Air Data Computers

**Effective Date:** 07 February 2024

**ETSO Authorisation:** AC32 Z 34-17-01 issue 2, issued by FOCA in 2005

**Foreign AD:** Not applicable

**Supersedure:** None

## ATA 34 – Navigation – Digital Air Data Computer – Replacement

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### Manufacturer(s):

Thommen Aircraft Equipment AG (Thommen)

### Applicability:

AC32.(.) digital air data computers (ADC) defined as affected part in this AD.

These ADC are known to be installed on, but not limited to AW 189, Pilatus PC-21, Cessna 550, and aircraft having Supplemental Type Certificate (STC) embodied.

### Definitions:

For the purpose of this AD, the following definitions apply:

**The SB:** Thommen Service Bulletin (SB) AC32/07.

**Affected part:** AC32.(.) digital ADC units, having Part Number (P/N) AC32.10.21.10.XX, AC32.10.21.11.XX, AC32.11.21.XX.XX (where 'XX' represents any alpha/numerical sequence), and having a serial number (s/n) listed in Appendix A of the SB.

**Serviceable part:** Any AC32.(.) digital ADC that is not an affected part; or an affected part where the power module has been replaced by Thommen, in accordance with the instructions of Thommen SB AC32/07.



**Groups:** Group 1 aircraft are those that have an affected part installed. Group 2 aircraft are those for which AC32.() digital ADC units are eligible for installation, that do not have an affected part installed.

**Reason:**

Occurrences have been reported of AC32.() ADC that stopped functioning at temperatures below -20°C. The error is detectable and there is no transmission of erroneous data. The problem is caused by the power module and the affected units have been identified.

This condition, if not corrected, could lead to insufficient navigational data provided to the flight crew, possibly resulting in reduced control of the aircraft.

To address this potential unsafe condition Thommen identified the affected parts, and issued the SB to provide instructions to remove the affected part from service and return to Thommen for rectification.

For the reasons described above, this AD requires removal from service of each affected part. This AD also regulates (re)installation of affected parts.

**Required Action(s) and Compliance Time(s):**

Required as indicated by this AD, unless the actions required by this AD have been already accomplished:

**Removal / Replacement:**

- (1) For Group 1 aircraft: Within 12 months after the effective date of this AD, remove each affected part from service and replace it with a serviceable part in accordance with the instructions of the SB.

**Part(s) Installation:**

- (2) For Group 1 and Group 2 aircraft: From the effective date of this AD, it is allowed to install on any aircraft a Thommen AC32.() digital ADC, provided it is a serviceable part, as defined in this AD.

**Ref. Publications:**

Thommen SB AC32/07 revision 1.0 dated 31 August 2023.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.

**Remarks:**

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.



3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu).
4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the [EU aviation safety reporting system](#). This may include reporting on the same or similar components, other than those covered by the design to which this AD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.
5. For any question concerning the technical content of the requirements in this AD, please contact: Thommen Aircraft Equipment AG, Sales Department , Hofackerstrasse 48, CH-4132 Muttenz, Switzerland, telephone: +41 61 965 22 22, E-mail: [sales@thommen.aero](mailto:sales@thommen.aero).





# Service Bulletin

**SB AC32/07**




Revision: 1.0

TITLE:	Power Module Replacement
DOCUMENT NUMBER:	SB AC32/07
EQUIPMENT:	AC32 Digital Air Data Computer
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**RECORD OF REVISIONS**

Rev.	Date	Reason for Revision	Prepared	Checked	Approved
1.0	2023-08-31	Initial Release	 S. Al-Duri.	 A. Siva	 G. Schaffner

## SERVICE BULLETIN

### 1. Planning Information

#### A. Effectivity

This service bulletin applies to the AC32 Digital Air Data Computer. It only applies to units manufactured or maintained between August 2014 and December 2016 as listed in Appendix A.

#### B. Concurrent Requirements

None required.

#### C. Reason

This document is issued to provide information about the replacement of the power module on the AC32 Digital Air Data Computer.

Units identified in Appendix A could stop functioning at operating temperatures below -20°C and return the error code FC025. The error is detectable. It leads to a clear error condition (discontinuation of operation). There is no transmission of erroneous data like last good value.

#### D. Description

This service bulletin provides the instruction to the operator to remove the affected AC32 Digital Air Data Computer.

The affected equipment must be returned to THOMMEN for replacement of the power module, which can ONLY be done by THOMMEN AIRCRAFT EQUIPMENT AG Maintenance organisation.

#### E. Compliance Recommendation

This service bulletin shall be incorporated within 12 months.

#### F. Approval

The AC32 Digital Air Data Computer conforms to TSO-C106, and TSO-C88a.

This service bulletin contains no modification information that revises the approved configuration and therefore does not require any implementation of governmental or other regulatory agency approval.

#### G. Manpower

This service bulletin can be implemented by one authorised technician.

#### H. Weight and Balance

Not affected.

#### I. Electrical Load Data

Not changed.

#### J. Software Accomplishment Summary

Not affected.

**K. References**

[01] AC-INST-500 Rev. 2.5, AC32 Digital Air Data Computer Installation Manual, 2016-10-10

**L. Other Publications Affected**

None.

**M. Interchangeability of Parts**

Not affected.

## 2. Material Information

### A. Material – Price and Availability

The replacement of the power module required for implementation of this service bulletin will be performed free of charge for units which are under warranty in accordance with Thommen's General Terms and Condition (see <https://thommen.aero/general-terms-and-conditions/>)

For availability and lead time or other information, please contact:

THOMMEN AIRCRAFT EQUIPMENT AG  
Sales Department  
Hofackerstrasse 48  
CH-4132 Muttenz  
Switzerland  
Phone: +41 61 965 22 22  
Email: [sales@thommen.aero](mailto:sales@thommen.aero)

#### NOTE:

All units subject for application of this service bulletin must be scheduled prior to shipping. Contact THOMMEN AIRCRAFT EQUIPMENT AG for further lead time and delivery schedule.

### B. Tooling – Price and Availability

No special tools are required.



### 3. Accomplishment Instructions

#### A. Procedure

Check if aircraft is equipped with an AC32 Digital Air Data Computer from the list in Appendix A.

If yes:

Check EASA Form 1 for the AC32 Digital Air Data Computer if this service bulletin has already been incorporated.

If SB AC32/07 has not yet been incorporated:

Replace AC32 Digital Air Data Computer in accordance with the Installation Manual [01].

Contact THOMMEN AIRCRAFT EQUIPMENT AG

Phone: +41 61 965 22 22

Email: [sales@thommen.aero](mailto:sales@thommen.aero)

to schedule incorporation of SB AC32/07.

Ship removed unit to:

THOMMEN AIRCRAFT EQUIPMENT AG

Maintenance

Hofackerstrasse 48

CH-4132 Muttenz

Switzerland

Else:

No action required.

#### B. Testing

The unit pass-off testing will be accomplished by THOMMEN AIRCRAFT EQUIPMENT AG

#### C. Modification Status Marking

Not required.

### Appendix A Applicable units

The table below lists all AC32 Digital Air Data Computer units affected by this service bulletin.

Part Number	Serial Number
AC32.10.21.10.AU	1065623
AC32.10.21.10.AU	1065624
AC32.10.21.10.AU	1065625
AC32.10.21.10.AU	1065626
AC32.10.21.10.AU	1065627
AC32.10.21.10.AU	1065628
AC32.10.21.10.AU	1065749
AC32.10.21.10.AU	1065750
AC32.10.21.10.AU	1065751
AC32.10.21.10.AU	1065752
AC32.10.21.10.AU	1065753
AC32.10.21.10.AU	1065754
AC32.10.21.10.AU	1078504
AC32.10.21.10.AU	1078505
AC32.10.21.10.AU	1078522
AC32.10.21.10.AU	1078523
AC32.10.21.10.AU	1078543
AC32.10.21.10.AU	1078544
AC32.10.21.10.AU	1078545
AC32.10.21.10.AU	1078554
AC32.10.21.10.AU	1078555
AC32.10.21.10.AU	1078556
AC32.10.21.10.AU	1078568
AC32.10.21.10.AU	1078569
AC32.10.21.10.AU	1078570
AC32.10.21.10.AU	1078571
AC32.10.21.10.AU	1078572
AC32.10.21.10.AU	1078573
AC32.10.21.10.AU	1078727
AC32.10.21.10.AU	1078808
AC32.10.21.10.AU	1078809
AC32.10.21.10.AU	1078812
AC32.10.21.10.AU	1078813
AC32.10.21.10.AU	1078817
AC32.10.21.10.AU	1081971
AC32.10.21.10.AU	1081972
AC32.10.21.10.AU	1081973
AC32.10.21.10.AU	1091148
AC32.10.21.10.AU	1091154
AC32.10.21.10.AU	1091155
AC32.10.21.10.AU	1091159
AC32.10.21.10.AU	1091786
AC32.10.21.10.AU	1091801

Part Number	Serial Number
AC32.10.21.10.AU	1094412
AC32.10.21.10.AU	1096128
AC32.10.21.10.AW	1065739
AC32.10.21.10.AW	1065740
AC32.10.21.10.AW	1065741
AC32.10.21.10.AW	1065758
AC32.10.21.10.AW	1068588
AC32.10.21.10.AW	1068589
AC32.10.21.10.AW	1078006
AC32.10.21.10.AW	1078007
AC32.10.21.10.AW	1078008
AC32.10.21.10.AW	1078009
AC32.10.21.10.AW	1078163
AC32.10.21.10.AW	1078164
AC32.10.21.10.AW	1078165
AC32.10.21.10.AW	1078166
AC32.10.21.10.AW	1078395
AC32.10.21.10.AW	1078396
AC32.10.21.10.AW	1078502
AC32.10.21.10.AW	1078503
AC32.10.21.10.AW	1078550
AC32.10.21.10.AW	1078552
AC32.10.21.10.AW	1078553
AC32.10.21.10.AW	1078559
AC32.10.21.10.AW	1078560
AC32.10.21.10.AW	1078561
AC32.10.21.10.AW	1078562
AC32.10.21.10.AW	1078806
AC32.10.21.10.AW	1078807
AC32.10.21.10.AW	1078814
AC32.10.21.10.AW	1078815
AC32.10.21.10.AW	1078816
AC32.10.21.10.AW	1078818
AC32.10.21.10.AW	1078851
AC32.10.21.10.AW	1091149
AC32.10.21.10.AW	1091158
AC32.10.21.10.AW	1091160
AC32.10.21.10.AW	1091161
AC32.10.21.10.AW	1091787
AC32.10.21.10.AW	1091798
AC32.10.21.10.AW	1091799
AC32.10.21.10.AW	1095289
AC32.10.21.10.AW	1095290
AC32.10.21.10.AW	1096587
AC32.10.21.10.BU	1078002

Part Number	Serial Number
AC32.10.21.10.BU	1078003
AC32.10.21.10.BU	1078004
AC32.10.21.10.BU	1078005
AC32.10.21.10.BU	1078077
AC32.10.21.10.BU	1078078
AC32.10.21.10.BU	1078079
AC32.10.21.10.BU	1078080
AC32.10.21.10.BU	1078081
AC32.10.21.10.BU	1078082
AC32.10.21.10.BU	1078186
AC32.10.21.10.BU	1078187
AC32.10.21.10.BU	1078188
AC32.10.21.10.BU	1078189
AC32.10.21.10.BU	1078190
AC32.10.21.10.BU	1078191
AC32.10.21.10.BU	1078192
AC32.10.21.10.BU	1078193
AC32.10.21.10.BU	1078194
AC32.10.21.10.BU	1078195
AC32.10.21.10.BU	1078202
AC32.10.21.10.BU	1078203
AC32.10.21.10.BU	1078204
AC32.10.21.10.BU	1078205
AC32.10.21.10.BU	1078210
AC32.10.21.10.BU	1078211
AC32.10.21.10.BU	1078212
AC32.10.21.10.BU	1078214
AC32.10.21.10.BU	1078215
AC32.10.21.10.BU	1078216
AC32.10.21.10.BU	1078217
AC32.10.21.10.BU	1078221
AC32.10.21.10.BU	1078222
AC32.10.21.10.BU	1078223
AC32.10.21.10.BU	1078224
AC32.10.21.10.BU	1078225
AC32.10.21.10.BU	1078226
AC32.10.21.10.BU	1078229
AC32.10.21.10.BU	1078230
AC32.10.21.10.BU	1078308
AC32.10.21.10.BU	1078309
AC32.10.21.10.BU	1078310
AC32.10.21.10.BU	1078311
AC32.10.21.10.BU	1078312
AC32.10.21.10.BU	1078313
AC32.10.21.10.BU	1078314
AC32.10.21.10.BU	1078315
AC32.10.21.10.BU	1078316

Part Number	Serial Number
AC32.10.21.10.BU	1078317
AC32.10.21.10.BU	1078318
AC32.10.21.10.BU	1078319
AC32.10.21.10.BU	1078326
AC32.10.21.10.BU	1078327
AC32.10.21.10.BU	1078328
AC32.10.21.10.BU	1078329
AC32.10.21.10.BU	1078616
AC32.10.21.10.BU	1078619
AC32.10.21.10.BU	1078620
AC32.10.21.10.BU	1078621
AC32.10.21.10.BU	1078622
AC32.10.21.10.BZ	1078199
AC32.10.21.10.BZ	1078200
AC32.10.21.10.BZ	1078201
AC32.10.21.10.BZ	1078492
AC32.10.21.10.BZ	1078654
AC32.10.21.10.BZ	1091800
AC32.10.21.10.BZ	1094490
AC32.10.21.10.BZ	1094491
AC32.10.21.10.BZ	1094492
AC32.10.21.10.BZ	1095301
AC32.10.21.10.BZ	1095302
AC32.10.21.10.BZ	1095303
AC32.10.21.10.BZ	1095304
AC32.10.21.10.BZ	1096078
AC32.10.21.10.BZ	1096079
AC32.10.21.10.BZ	1096080
AC32.10.21.10.BZ	1096081
AC32.10.21.10.BZ	1096082
AC32.10.21.11.AF	1065221
AC32.10.21.11.AF	1078111
AC32.10.21.11.AF	1078175
AC32.10.21.11.AF	1078176
AC32.10.21.11.AF	1078177
AC32.10.21.11.AF	1078178
AC32.10.21.11.AF	1078243
AC32.10.21.11.AF	1078244
AC32.10.21.11.AF	1078245
AC32.10.21.11.AF	1078246
AC32.10.21.11.AF	1078299
AC32.10.21.11.AF	1078300
AC32.10.21.11.AF	1078301
AC32.10.21.11.AF	1078302
AC32.10.21.11.AF	1078303

Part Number	Serial Number
AC32.10.21.11.AF	1078304
AC32.10.21.11.AF	1078305
AC32.10.21.11.AF	1078306
AC32.10.21.11.AF	1078307
AC32.10.21.11.AF	1078325
AC32.10.21.11.AF	1078360
AC32.10.21.11.AF	1078361
AC32.10.21.11.AF	1078362
AC32.10.21.11.AF	1078363
AC32.10.21.11.AF	1078371
AC32.10.21.11.AF	1078372
AC32.10.21.11.AF	1078373
AC32.10.21.11.AF	1078391
AC32.10.21.11.AF	1078392
AC32.10.21.11.AF	1078393
AC32.10.21.11.AF	1078394
AC32.10.21.11.AF	1078409
AC32.10.21.11.AF	1078410
AC32.10.21.11.AF	1078429
AC32.10.21.11.AF	1078430
AC32.10.21.11.AF	1078432
AC32.10.21.11.AF	1078446
AC32.10.21.11.AF	1078447
AC32.10.21.11.AF	1078473
AC32.10.21.11.AF	1078476
AC32.10.21.11.AF	1078500
AC32.10.21.11.AF	1078501
AC32.10.21.11.AF	1078557
AC32.10.21.11.AF	1078558
AC32.10.21.11.AF	1078565
AC32.10.21.11.AF	1078598
AC32.10.21.11.AF	1078599
AC32.10.21.11.AF	1078600
AC32.10.21.11.AF	1078601
AC32.10.21.11.AF	1078602
AC32.10.21.11.AF	1078603
AC32.10.21.11.AF	1078604
AC32.10.21.11.AF	1078605
AC32.10.21.11.AF	1078606
AC32.10.21.11.AF	1078607
AC32.10.21.11.AF	1078780
AC32.10.21.11.AF	1078781
AC32.10.21.11.AF	1078782
AC32.10.21.11.AF	1078783
AC32.10.21.11.AF	1078787
AC32.10.21.11.AF	1078788
AC32.10.21.11.AF	1078789

Part Number	Serial Number
AC32.10.21.11.AF	1078790
AC32.10.21.11.AF	1090171
AC32.10.21.11.AF	1090172
AC32.10.21.11.AF	1090385
AC32.10.21.11.AF	1090386
AC32.10.21.11.AF	1090387
AC32.10.21.11.AF	1090388
AC32.10.21.11.AF	1090389
AC32.10.21.11.AF	1090390
AC32.10.21.11.AF	1090391
AC32.10.21.11.AF	1090392
AC32.10.21.11.AF	1090393
AC32.10.21.11.AF	1090394
AC32.10.21.11.AF	1090481
AC32.10.21.11.AF	1092637
AC32.10.21.11.AF	1092638
AC32.10.21.11.AF	1092639
AC32.10.21.11.AF	1092640
AC32.10.21.11.AF	1092641
AC32.10.21.11.AF	1092642
AC32.10.21.11.AF	1092643
AC32.10.21.11.AF	1092644
AC32.10.21.11.AF	1092645
AC32.10.21.11.AF	1092646
AC32.10.21.11.AF	1092866
AC32.10.21.11.AF	1092867
AC32.10.21.11.AF	1092956
AC32.10.21.11.AF	1092957
AC32.10.21.11.AF	1093423
AC32.10.21.11.AF	1093424
AC32.10.21.11.AF	1095767
AC32.10.21.11.AF	1096745
AC32.10.21.11.AF	1096746
AC32.10.21.11.AF	1096822
AC32.10.21.11.BD	1078267
AC32.10.21.11.BD	1078268
AC32.10.21.11.BD	1078417
AC32.10.21.11.BD	1078418
AC32.10.21.11.BD	1078419
AC32.10.21.11.BD	1078749
AC32.10.21.11.BD	1078750
AC32.10.21.11.BD	1095310
AC32.10.21.11.BD	1095311
AC32.10.21.11.BR	1078520
AC32.10.21.11.BR	1078521

Part Number	Serial Number
AC32.10.21.11.BR	1078629
AC32.10.21.11.BR	1078785
AC32.10.21.11.BR	1078786
AC32.10.21.11.BR	1090566
AC32.10.21.11.BR	1090567
AC32.10.21.11.BR	1091796
AC32.10.21.11.BR	1091797
AC32.10.21.11.BR	1093457
AC32.10.21.11.BR	1093459
AC32.10.21.11.BR	1093460
AC32.10.21.11.BR	1094410
AC32.10.21.11.BR	1094411
AC32.10.21.11.BR	1095773
AC32.10.21.11.BR	1095774
AC32.10.21.11.BR	1096545
AC32.10.21.11.BT	1093387
AC32.10.21.11.CB	1077805
AC32.10.21.11.CB	1078083
AC32.10.21.11.CB	1078084
AC32.10.21.11.CB	1078085
AC32.10.21.11.CB	1078086
AC32.10.21.11.CB	1078087
AC32.10.21.11.CB	1078088
AC32.10.21.11.CB	1078089
AC32.10.21.11.CB	1078090
AC32.10.21.11.CB	1078091
AC32.10.21.11.CB	1078092
AC32.10.21.11.CB	1078093
AC32.10.21.11.CB	1078094
AC32.10.21.11.CB	1078095
AC32.10.21.11.CB	1078096
AC32.10.21.11.CB	1078097
AC32.10.21.11.CB	1078098
AC32.10.21.11.CB	1078099
AC32.10.21.11.CB	1078100
AC32.10.21.11.CB	1078696
AC32.10.21.11.CB	1078697
AC32.10.21.11.NG	1078611
AC32.10.21.11.NG	1078612
AC32.10.21.11.NG	1078650
AC32.10.21.11.NG	1078651
AC32.10.21.11.NG	1078728
AC32.10.21.11.NG	1078729
AC32.10.21.11.NG	1078751



Part Number	Serial Number
AC32.10.21.11.NG	1078752
AC32.10.21.11.NG	1090383
AC32.10.21.11.NG	1090384
AC32.10.21.11.NG	1091763
AC32.10.21.11.NG	1091764
AC32.10.21.11.NG	1092874
AC32.10.21.11.NG	1092875
AC32.10.21.11.ST	1090396
AC32.11.21.10.CC	1078542
AC32.11.21.10.CC	1095482
AC32.11.21.10.CC	1095483
AC32.11.21.10.CC	1095798
AC32.11.21.10.CC	1095799
AC32.11.21.11.BF	1078680
AC32.11.21.11.BF	1078681
AC32.11.21.11.BF	1078682
AC32.11.21.11.BF	1078683
AC32.11.21.11.BF	1078684
AC32.11.21.11.BF	1078685
AC32.11.21.11.BF	1078686
AC32.11.21.11.BF	1078687
AC32.11.21.11.BF	1078731
AC32.11.21.11.BF	1078732
AC32.11.21.11.BF	1078733
AC32.11.21.11.BF	1078734
AC32.11.21.11.BF	1078735
AC32.11.21.11.BF	1078736
AC32.11.21.11.BF	1078737
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Part Number	Serial Number
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AC32.11.21.11.BF	1095484
AC32.11.21.11.BF	1096566
AC32.11.21.11.BF	1096567
AC32.11.21.11.BG	1077996
AC32.11.21.11.BG	1077997
AC32.11.21.11.CF	1092672
AC32.11.21.11.CF	1095291
AC32.11.21.11.CF	1095292
AC32.11.21.11.CF	1095293
AC32.11.21.11.CF	1095297
AC32.11.21.11.CF	1095298
AC32.11.21.11.CF	1095299
AC32.11.21.11.CF	1095300
AC32.11.21.11.CF	1095769
AC32.11.21.11.CF	1095770
AC32.11.21.11.CF	1095771
AC32.11.21.11.CF	1095772
AC32.11.21.11.CF	1095780
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AC32.11.21.11.CF	1095782
AC32.11.21.11.CF	1095783
AC32.11.21.11.CF	1096083
AC32.11.21.11.CF	1096084
AC32.11.21.11.CF	1096085
AC32.11.21.11.CF	1096086
AC32.11.21.11.CG	1078252
AC32.11.21.11.CG	1078253