|  |  |  |
| --- | --- | --- |
| ITU official logo_blue_RGB | 国 际 电 信 联 盟  *电信标准化局* |  |

2018年10月16日 ，日内瓦

|  |  |  |
| --- | --- | --- |
| 参考号:  电话:  传真:  电子邮件: | **电信标准化局AAP-45**  AAP/CL  +41 22 730 5860  +41 22 730 5853  [tsbdir@itu.int](mailto:tsbdir@itu.int) | – 致国际电联成员国各主管部门；  – 致ITU-T各部门成员；  – 致ITU-T 部门准成员  **抄送：**  – 电信标准化局研究组主席和副主席  – 电信发展局主任  – 无线电通信局主任 |

|  |  |
| --- | --- |
| 事由: | **有关采用替换批准程序（AAP）处理的建议书的情况** |

先生/女士，

ITU-T A.8 建议书中规定的建议书替换批准程序 (AAP) 适用于那些不会产生政策或 监管影响、因而不需与成员国正式协商的建议书（见国际电联《公约》第246B款）。

**附件1**列出了那些在以往电信标准化局AAP预告后地位发生变化的案文。

如您希望针对某个适用AAP的建议书提出意见，请使用可在ITU-T网站AAP区域 （[http://www.itu.int/ITU-T/aap](http://www.itu.int/ITU-T/aap/)）的“建议书”网页上获取的《AAP意见在线提交表格》 （见**附件2**）。或者，可填妥**附件3** 中的表格并将意见发送给相关研究组的秘书处。

敬请留意，我们不鼓励提交仅支持通过所涉案文而没有实质内容的意见。

顺致敬意！

李在摄  
电信标准化局主任

**附件：3**件

Annex 1

(to TSB AAP-45)

Status codes used in the AAP announcements:

LC = Last Call

LJ = Last Call Judgment (includes comment resolution)

AR = Additional Review

AJ = Additional Review Judgment (includes comment resolution)

SG = For Study Group approval

A = Approved

AT = Approved with typographic corrections

AC = Approved after Additional Review of Comments

NA = Not approved

TAP = Moved to TAP (ITU-T A.8 / § 5.2)

ITU-T website entry page:

[http://www.itu.int/ITU-T](http://www.itu.int/ITU-T/)

Alternative approval process (AAP) welcome page:

[http://www.itu.int/ITU-T/aapinfo](http://www.itu.int/ITU-T/aapinfo/)

Note – A tutorial on the ITU-T AAP application is available under the AAP welcome page

ITU-T website AAP Recommendation search page:

<http://www.itu.int/ITU-T/aap/>

Study Group web pages and contacts:

|  |  |  |
| --- | --- | --- |
| SG 2 | <http://www.itu.int/ITU-T/studygroups/com02> | [tsbsg2@itu.int](mailto:tsbsg2@itu.int) |
| SG 3 | <http://www.itu.int/ITU-T/studygroups/com03> | [tsbsg3@itu.int](mailto:tsbsg3@itu.int) |
| SG 5 | <http://www.itu.int/ITU-T/studygroups/com05> | [tsbsg5@itu.int](mailto:tsbsg5@itu.int) |
| SG 9 | <http://www.itu.int/ITU-T/studygroups/com09> | [tsbsg9@itu.int](mailto:tsbsg9@itu.int) |
| SG 11 | <http://www.itu.int/ITU-T/studygroups/com11> | [tsbsg11@itu.int](mailto:tsbsg11@itu.int) |
| SG 12 | <http://www.itu.int/ITU-T/studygroups/com12> | [tsbsg12@itu.int](mailto:tsbsg12@itu.int) |
| SG 13 | <http://www.itu.int/ITU-T/studygroups/com13> | [tsbsg13@itu.int](mailto:tsbsg13@itu.int) |
| SG 15 | <http://www.itu.int/ITU-T/studygroups/com15> | [tsbsg15@itu.int](mailto:tsbsg15@itu.int) |
| SG 16 | <http://www.itu.int/ITU-T/studygroups/com16> | [tsbsg16@itu.int](mailto:tsbsg16@itu.int) |
| SG 17 | <http://www.itu.int/ITU-T/studygroups/com17> | [tsbsg17@itu.int](mailto:tsbsg17@itu.int) |
| SG 20 | <http://www.itu.int/ITU-T/studygroups/com20> | [tsbsg20@itu.int](mailto:tsbsg20@itu.int) |

Situation concerning Study Group 5 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | | | | **Additional Review (AR) Period** | | | | Status |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LC Result** | **LJ Result** | **AR Start** | **AR End** | **AR Result** | **AJ Result** |
| [K.134 (K.psp)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8254) | Protection of small-size telecommunication installations with poor earthing conditions ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200203E0801MSWE.docx&group=5)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [K.135 (K.rcd)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8255) | Technical parameters for residual current operated protective devices with automatic reclosing feature for telecom applications ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200203F0801MSWE.docx&group=5)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [K.136 (K.radio\_emc)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8256) | Electromagnetic Compatibility requirements for radio telecommunication equipment ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020400801MSWE.docx&group=5)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [K.137 (K.wire-line\_emc)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8257) | Electromagnetic compatibility requirements and measurement methods for wire-line telecommunication network equipment ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020410801MSWE.docx&group=5)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [K.138 (K.soft\_mes)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8258) | Quality estimation methods and application guidelines for mitigation measures based on particle radiation tests ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020420801MSWE.docx&group=5)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [K.139 (K.soft\_req)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8259) | Reliability requirements for telecommunication systems affected by particle radiation ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020430801MSWE.docx&group=5)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [L.1015 (L.CEM)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8265) | Criteria for evaluation of the environmental impact of mobile phones ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020490801MSWE.docx&group=5)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [L.1031 (L.EW2020)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8264) | Guideline on Implementing the E-waste Reduction Target of the Connect2020 Agenda ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020480801MSWE.docx&group=5)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [L.1221 (L.ENST2battery)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8260) | Innovative energy storage technology for stationary use - Part 2: Battery ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020440802MSWE.docx&group=5)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [L.1303 (L.green\_mgm\_DC)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8261) | Functional requirements and framework of green data centre energy-saving management system ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020450802MSWE.docx&group=5)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [L.1361 (L.mmNFV)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8262) | Measurement method for energy efficiency of Network Function Virtualization ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020460801MSWE.docx&group=5)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [L.1370 (L.SIB)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8263) | Sustainable and intelligent building services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020470801MSWE.docx&group=5)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |

Situation concerning Study Group 11 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | | | | **Additional Review (AR) Period** | | | | Status |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LC Result** | **LJ Result** | **AR Start** | **AR End** | **AR Result** | **AJ Result** |
| [Q.850](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8221) | Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN user part ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200201D0801MSWE.docx&group=11)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Q.3405 (Q.IPv6ProBB)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8222) | IPv6 protocol procedures for broadband services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200201E0801MSWE.docx&group=11)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Q.3641 (Q.Interop\_IMS\_Rel\_11; Q.IMS\_NGN\_Rel.11)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8223) | IMS references to Release 11 for communication between IMS and NGN Networks in order to support end-to-end service interoperability ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200201F0801MSWE.docx&group=11)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Q.3717 (Q.BNG-IAP)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8224) | Signalling requirements for automatic management of IP address pool by SDN technologies on BNG ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020200801MSWE.docx&group=11)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Q.3718 (Q.SVDC)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8225) | Signalling requirements of the Sew interface for Virtual Data Center ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020210801MSWE.docx&group=11)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Q.4060 (Q.Het\_IoT\_Gateway\_Test)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8226) | The structure of the testing of heterogeneous Internet of Things gateways in a laboratory environment ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020220801MSWE.docx&group=11)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Q.5001 (Q.IEC-REQ)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8227) | Signalling requirements and architecture of intelligent edge computing ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020230801MSWE.docx&group=11)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |

Situation concerning Study Group 13 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | | | | **Additional Review (AR) Period** | | | | Status |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LC Result** | **LJ Result** | **AR Start** | **AR End** | **AR Result** | **AJ Result** |
| [Y.2814 (Y.MM-RN)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8187) | Mobility management framework over reconfigurable networks ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T0102001FFB0801MSWE.docx&group=13)) | 2018-09-01 | 2018-09-28 | A |  |  |  |  |  | A |
| [Y.3103 (Y.IMT2020-BM)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8186) | Business Role-based Models in IMT-2020 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T0102001FFA0801MSWE.docx&group=13)) | 2018-09-01 | 2018-09-28 | A |  |  |  |  |  | A |
| [Y.3170 (Y.qos-ml)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8185) | Requirements of machine learning based QoS assurance for IMT-2020 network ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T0102001FF90801MSWE.docx&group=13)) | 2018-09-01 | 2018-09-28 | A |  |  |  |  |  | A |

Situation concerning Study Group 16 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | | | | **Additional Review (AR) Period** | | | | Status |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LC Result** | **LJ Result** | **AR Start** | **AR End** | **AR Result** | **AJ Result** |
| [F.780.1 (F.Med-UHD)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8219) | Framework for telemedicine systems using ultra-high definition imaging ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200201B0801MSWE.docx&group=16)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [H.265.1 (V3)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8220) | Conformance specification for ITU-T H.265 high efficiency video coding ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200201C0801MSWE.docx&group=16)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |

Situation concerning Study Group 17 Recommendations under AAP

| **Rec #** | **Title** | **Last Call (LC) Period** | | | | **Additional Review (AR) Period** | | | | Status |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **LC Start** | **LC End** | **LC Result** | **LJ Result** | **AR Start** | **AR End** | **AR Result** | **AJ Result** |
| [X.894 (X.cms-prof)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8238) | Generic applications of ASN.1 Cryptographic Message Syntax ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200202E0801MSWE.docx&group=17)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [X.1093 (X.tac)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8241) | Telebiometric access control with smart ID card ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020310801MSWE.docx&group=17)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [X.1147 (X.srfb)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8240) | Security requirements and framework for big data analytics in mobile internet services ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020300801MSWE.docx&group=17)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [X.1450 (X.hakm)](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8239) | Guidelines on hybrid authentication and key management mechanisms in the client-server model ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200202F0801MSWE.docx&group=17)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Z.100 Annex F1](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8250) | Specification and Description Language - Overview of SDL-2010 - SDL formal definition: General overview ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200203A0801MSWE.docx&group=17)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [Z.100 Annex F2](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8252) | Specification and Description Language - Overview of SDL-2010 - SDL formal definition: Static semantics ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200203C0801MSWE.docx&group=17)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [Z.100 Annex F3](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8253) | Specification and Description Language - Overview of SDL-2010 - SDL formal definition: Dynamic semantics ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200203D0801MSWE.docx&group=17)) | 2018-10-16 | 2018-11-12 |  |  |  |  |  |  | LC |
| [Z.151](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8237) | User Requirements Notation (URN) - Language definition ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200202D0802MSWE.docx&group=17)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Z.161](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8228) | Testing and Test Control Notation version 3: TTCN-3 core language ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020240801MSWE.docx&group=17)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Z.161.2](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8230) | Testing and Test Control Notation version 3: TTCN-3 language extensions: Configuration and deployment support ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020260801MSWE.docx&group=17)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Z.161.4](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8231) | Testing and Test Control Notation version 3: TTCN-3 language extensions: Behaviour types ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020270801MSWE.docx&group=17)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Z.161.6](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8232) | Testing and Test Control Notation version 3: TTCN-3 language extensions: Advanced Matching ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020280802MSWE.docx&group=17)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Z.166](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8234) | Testing and Test Control Notation version 3: TTCN-3 control interface (TCI) ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200202A0801MSWE.docx&group=17)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Z.167](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8233) | Testing and Test Control Notation version 3: Using ASN.1 with TTCN-3 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T01020020290802MSWE.docx&group=17)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Z.169](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8235) | Testing and Test Control Notation version 3: Using XML schema with TTCN-3 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200202B0801MSWE.docx&group=17)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |
| [Z.171](http://www.itu.int/itu-t/aap/AAPRecDetails.aspx?AAPSeqNo=8236) | Testing and Test Control Notation version 3: Using JSON with TTCN-3 ([Summary](https://www.itu.int/ITU-T/aap/dologin_aap.asp?id=T010200202C0802MSWE.docx&group=17)) | 2018-09-16 | 2018-10-13 | A |  |  |  |  |  | A |

Annex 2

(to TSB AAP-45)

Using the on-line comment submission form

Comment submission

1) Go to AAP search Web page at <http://www.itu.int/ITU-T/aap/>



2) Select your Recommendation



3) Click the "Submit Comment" button



4) Complete the on-line form and click on "Submit"



For more information, read the AAP tutorial on:   
<http://www.itu.int/ITU-T/aapinfo/files/AAPTutorial.pdf>

Annex 3

(to TSB AAP-45)

Recommendations under LC/AR – Comment submission form

*(Separate form for each Recommendation being commented upon)*

|  |  |
| --- | --- |
| ITU-T AAP comment submission form for the period 2009-2012 | |
| **Study Group:** |  |
| **Announcement number:** |  |
| **Recommendation number:** |  |
| **Recommendation under:** | Last call (LC)   Additional Review (AR) |
| **Country:** |  |
| **Administration/Company:** |  |
| **Name of AAP Contact Person:** |  |
| **Email of AAP Contact Person:** |  |
| **Sender name: (if different from AAP Contact Person)** |  |
| **Sender email address:** |  |
| **Telephone:** |  |
| **Comments: (Choose as applicable)** | We do not support this text. Reasons are given in the attachment.   We support this text on the condition that it be modified as per revision shown in the attachment. |
| **Observations:** |  |

**No attachment:** Comments are given in the Observation field, no attachment needed

*To be returned to: email:* [*tsbsg....@itu.int*](mailto:tsbsg....@itu.int) *[or fax +41 22 730 5853]  
Comments or revised text should be sent as an attachment in RTF or WinWord format.  
Revision marks must be shown relative to the text posted by TSB.*