

# **Comparison of IEEE format with All the other format for SRS documentation**



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# Overview

This Documentation is about what are the pros and cons of the standard IEEE format with respect to some of the formats which some of the companies and other software analyst has used to write SRS for the given product.

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## **Format of other depending on their product requirements**

### **1. Format of WhatsApp Requirements Specification**

- 1.Introduction.
- 2.Description of the problem.
- 3.Use Cases.
- 4.Description of the software solution.
- 5.Enhancement Requests.
- 6.Functional Requirements.
- 7.Non Functional Requirements/ Software Attributes
- 8.Operational Requirements
- 9.Long Term Plans
- 10.Maintenance and Support Costs

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### **3.Format of IBM**

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5. Concerns / Queries / Doubts if any:	5

## Advantages of IEEE

1. Very concise and has more details of products requirement.
2. It helps all the Audiences to identify properly what is the products requirement and visualise the products outcome.
3. Its Documentation is maintained in standard way,so as to help the readers.
4. Here each part of the product is given importance.

## Advantages of Format 1

1. Its well written format.
2. It tends to work effectively for readers of all background .Since it is very simple.
3. The format also has some point on its future works which is pretty good for a product to grow further which is written as Long Term Plans.
4. Its written in such a way that a common man who knows english can figure out what it is even if does not know what it basically referring too.

## Advantages of Format 2

1. The main advantages of this format is that it has detailed description of all the required requirements with all the diagrams related to it and it is given as list of Figures.
2. It is good for the customer.Since it does not have any operating System requirements,communication requirements.Which the customer may not know initially.

## Advantages of Format 3

1. It's written well and it addresses every requirement of the customer.
2. It has content like Deliverables and Configuration Control which are pretty good has it keeps track what needs to be delivered with the product and configuration control for a product is must to know its version.So this in common has many advantages.

## Advantages of Format 4

1. Very Small and It's good for the reader to read. And it addresses most of all the requirements of the customer.
2. Contact ,query doubts section is most advantageous as it tries to answer questions asked by the audience anything related to SRS.

## Disadvantages of IEEE

1. It is hard for the client to specify some requirements(like communication interfaces) in such detail at the beginning phase.
2. Many sections may be marked under "To Be Discussed" remain unfilled during the initial phases.
3. Takes a considerable amount of time to prepare.
4. SRS will undergo many revisions due to refinement of requirements.
5. Less focus on UML/class diagrams, though they help the developer visualize the final product.

## Disadvantages of Format 1

1. Does not have pictorial representations.
2. The document does contain requirement specified by the customer but there is no pointwise content, but contains paragraph of each everything in one heading which makes reader life horrible. So it's a disadvantage.
3. It does not state any operating environment.

## Disadvantages of Format 2

1. Too many drawings in this format which makes it a half slideshow. It has more number of drawings than is needed for a particular SRS.



2. The point of SRS is to make audience understand the requirements and not to show pictures for everything.

### Disadvantages of Format 3

1. Here the third section of SRS contains things like testing, Software Coding, Debug, Software Code Reviews, Module Testing which is waste in the requirement stage.
2. It has all section with some extra things like unused code which are useless in SRS.
3. This SRS has everything in detail but it has sections for user manual, but still it has extra section called starting and stopping.

### Disadvantages of Format 4

1. It is very short and does not contain much about the sections in detail to help customer's reading.
2. It has a separate section for the table of contents, appendices which is a waste to keep under a specific heading.

### Drawbacks of IEEE format when compared with all these formats

1. It is having all the sections in depth but it has given less weightage on UML, class diagrams.
2. It is having too much details of all operating environment and tools to be used which is in reality may be using some other tools or the customer may not know some tools. This tools and other environment should be given less importance by giving less details about this.
3. Its format is too much standardized compared with other formats.

## References for Formats

Format 1 - <https://frost.ics.uci.edu/inf43/SampleSRS5.pdf>

Format 2 -

[https://www.ibm.com/developerworks/community/files/form/anonymous/api/library/3cf803c7-f973-4051-99a8-2949fd4ceab1/document/e6bd87f7-a158-4997-b5b6-2a8e2f3e11ed/media/SRS\\_Sample.doc](https://www.ibm.com/developerworks/community/files/form/anonymous/api/library/3cf803c7-f973-4051-99a8-2949fd4ceab1/document/e6bd87f7-a158-4997-b5b6-2a8e2f3e11ed/media/SRS_Sample.doc)

Format3-<http://www.sal.wisc.edu/PFIS/docs/rss-vis/archive/protected/salt/1700BP0009%20TCS%20SW%20Plan%20C.pdf>

Format 4 -

[http://www-07.ibm.com/in/university/pdf/Jul9\\_AI\\_Synopsis\\_ReqSpec\\_TGMC\\_2007.pdf](http://www-07.ibm.com/in/university/pdf/Jul9_AI_Synopsis_ReqSpec_TGMC_2007.pdf)