SpaceWire Handbook

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SpaceWire WG10
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Purpose

4Links®

- **Promote the use of SpaceWire**
- **Share experience / knowledge to**
  - **make life easier**
  - **avoid repeating mistakes**
- **Contribute to lower mission cost**

Assumptions

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- **A handbook is a good idea**
- **There is already a lot of useful information**
  - **Distributed between current developers and users**
  - **Some has already been published**
  - **Much more could be produced**
- **Few people have time to write "peripheral" documents**
  - **Especially: fully polished documents**

Assumptions + Suggestion 4Links®

- **A handbook is a good idea**

- **There is already a lot of useful information**
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- **Few people have time to write "peripheral" documents**
  - **Especially: fully polished documents**

Therefore:

Consider collecting existing/new papers/notes and employing a knowledgeable editor to turn them into polished and coherent contributions

Questions

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- **Who is the audience?**
  - **Managers – persuade them to consider SpaceWire**
  - **Engineers – tell them how to implement / use it**
- **What should be in the handbook?**
- **How should it be published?**
  - **Collection of papers**
  - **Book**
  - **Wiki**
  - **Combination of these**
- **Who is willing to contribute?**

Content?   (1 of 2)

- **Introduction – Benefits of SpaceWire**
- **Overall concepts – modularity, scalability and reconfigurability**
- **The ECSS standard – some explanatory notes**
- **What components are available / coming**
- **Component design – common errors and how to avoid them**
- **Network architectures – what can be done and relative merits**
- **Protocols – what exists, how to use them**

Content? (2 of 2)

- **Mission views**
  - **Past missions – experiences**
  - **Future missions – why has SpaceWire been chosen**
- **Future – Evolution of SpaceWire**
- **Past – History of SpaceWire**

Initial Discussion

- **Audience**
- **Content – further suggestions**
- **Format – preferred / to-be-avoided**
- **Offers of material**
  - **Offline?**
    - **Email: Barry @ 4Links.co.uk**
    - **Subject: "SpaceWire Handbook"**