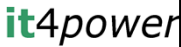

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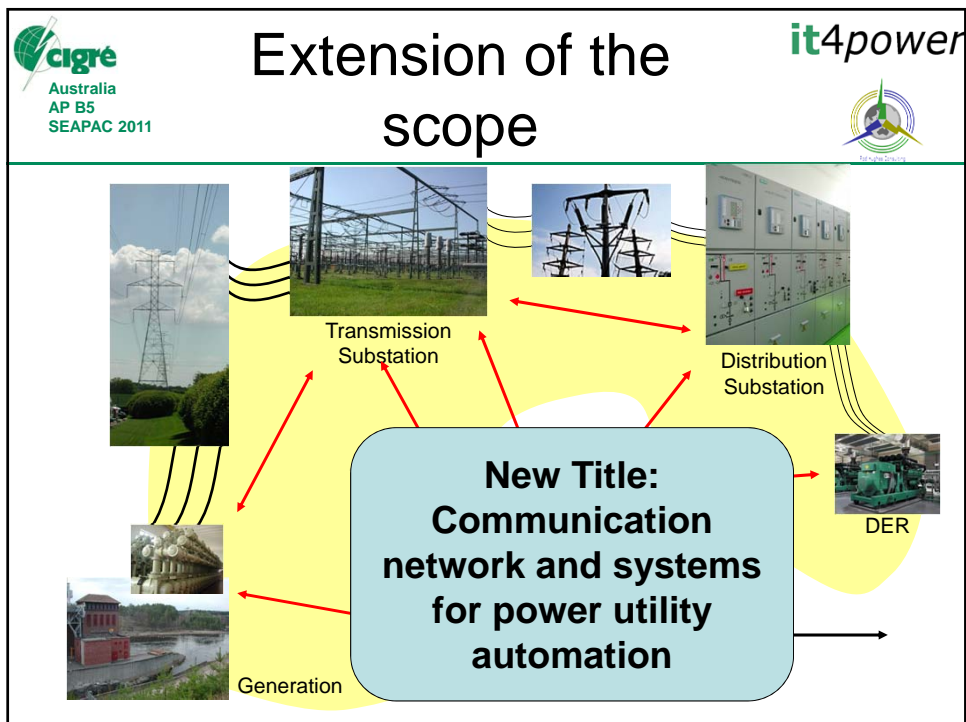





# IEC 61850 Edition 2

## What does it mean for the end user?

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Christoph Brunner	it4power	Christoph.brunner@it4power.com
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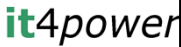







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## Edition 2 Summary





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- Improved interoperability
  - of devices
  - of tools
- Documenting configuration information
- New functionality
  - Communication between substations
  - Power quality
  - Redundancy
  - .....
- Testing support



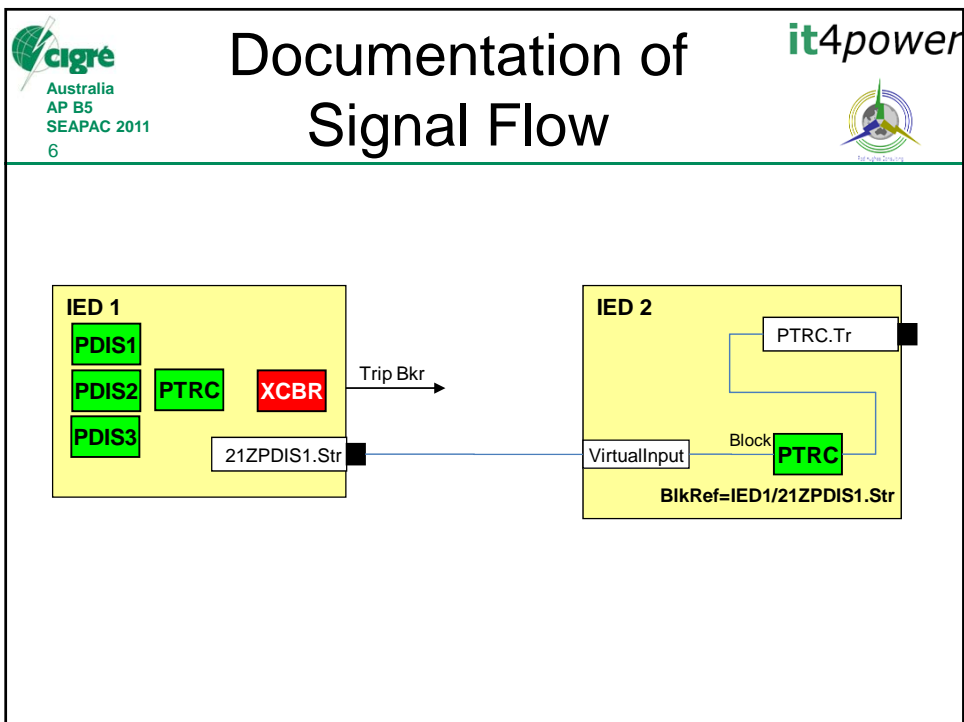
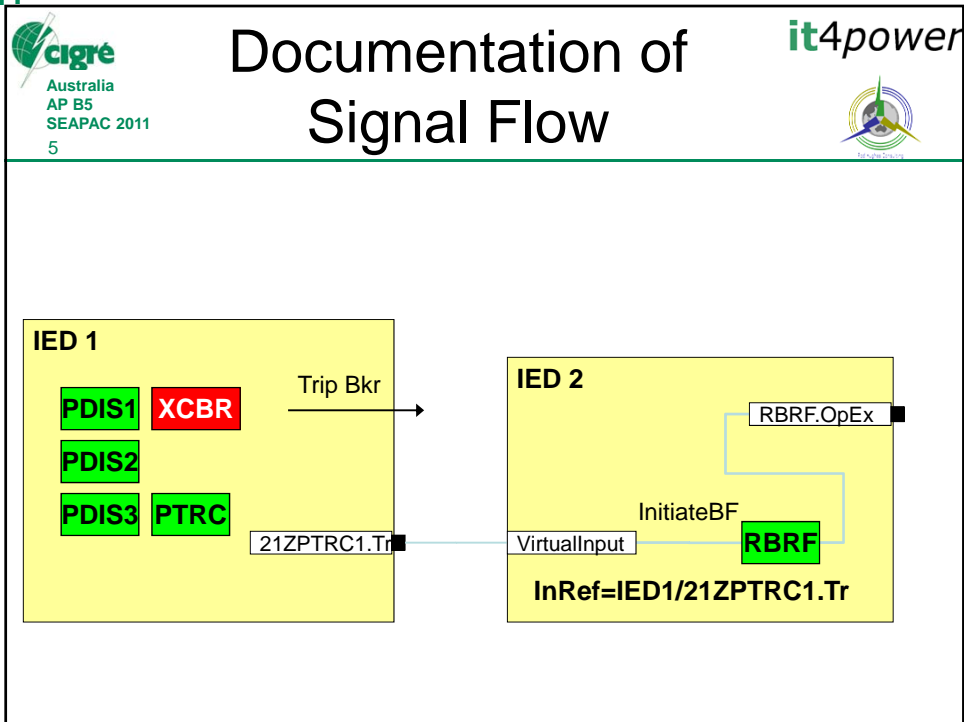
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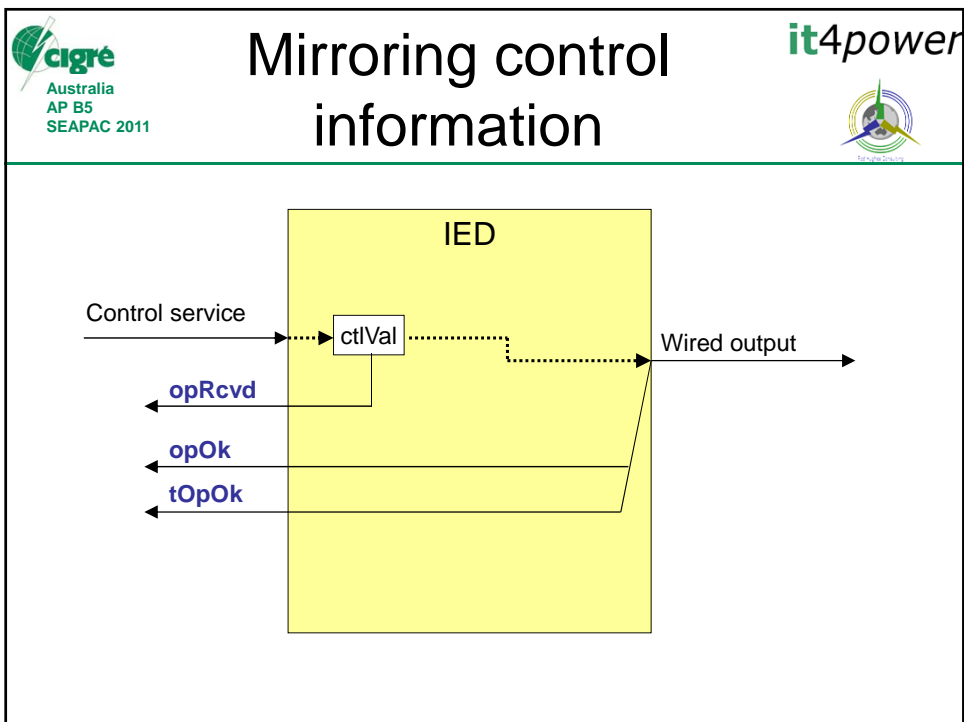
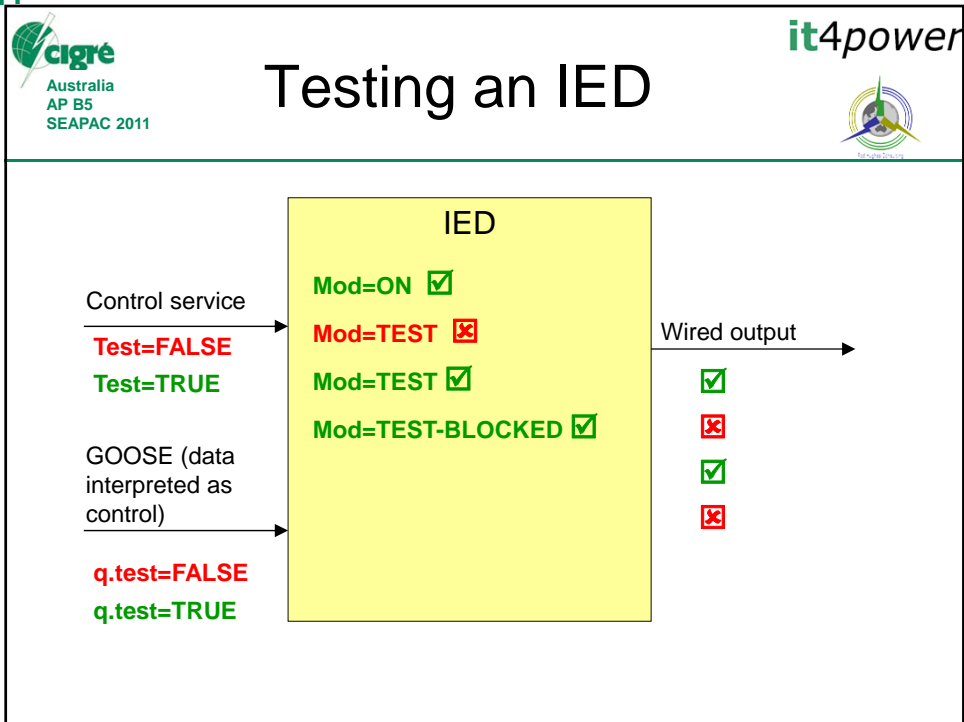
## Engineering Language

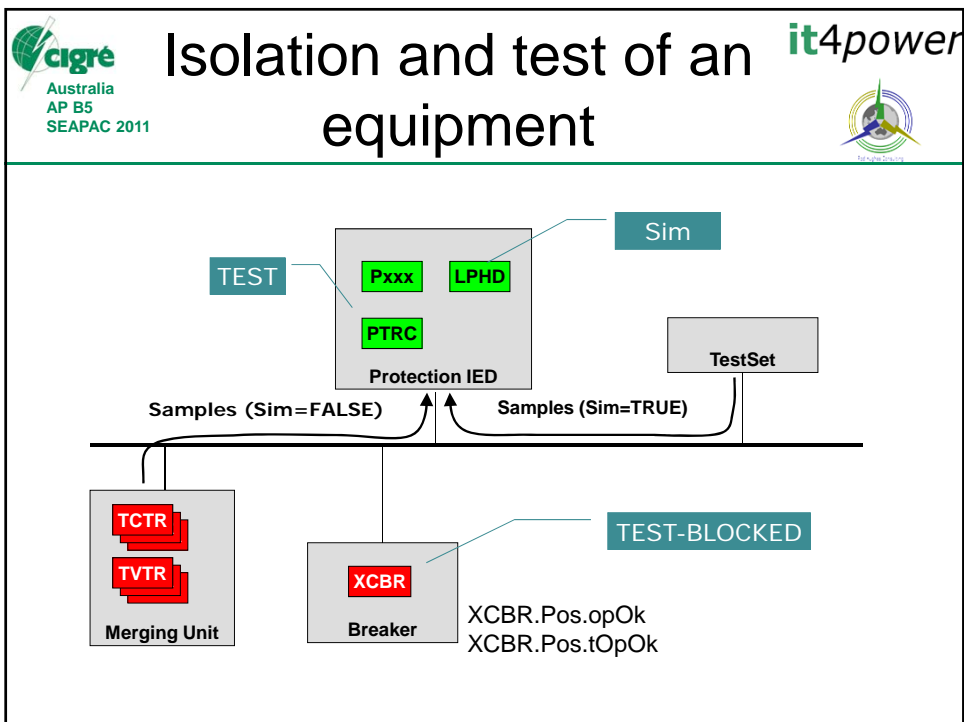
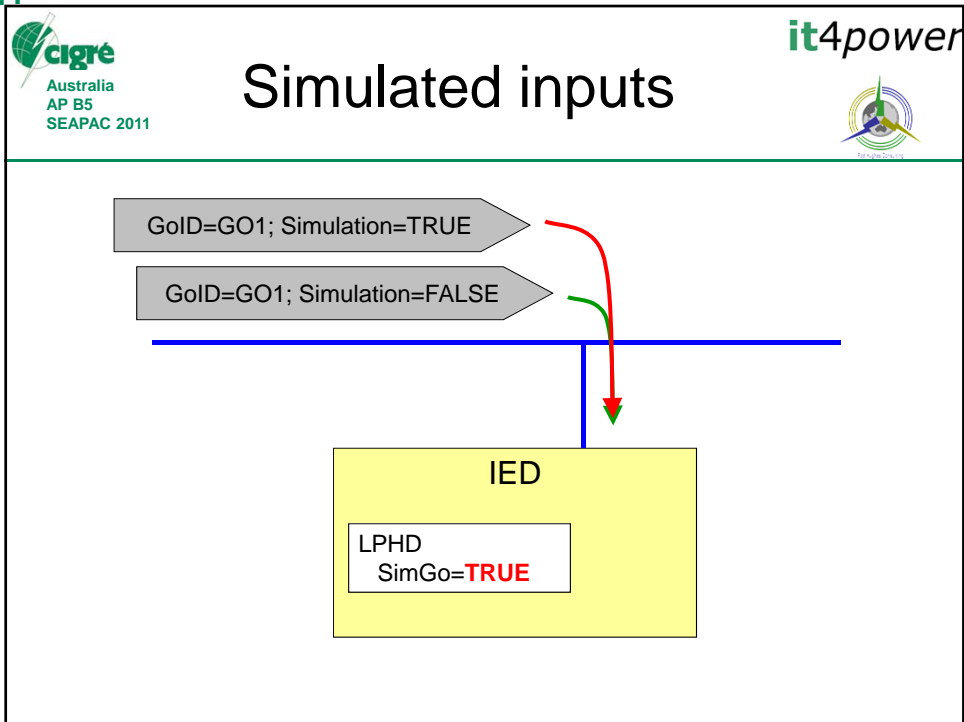


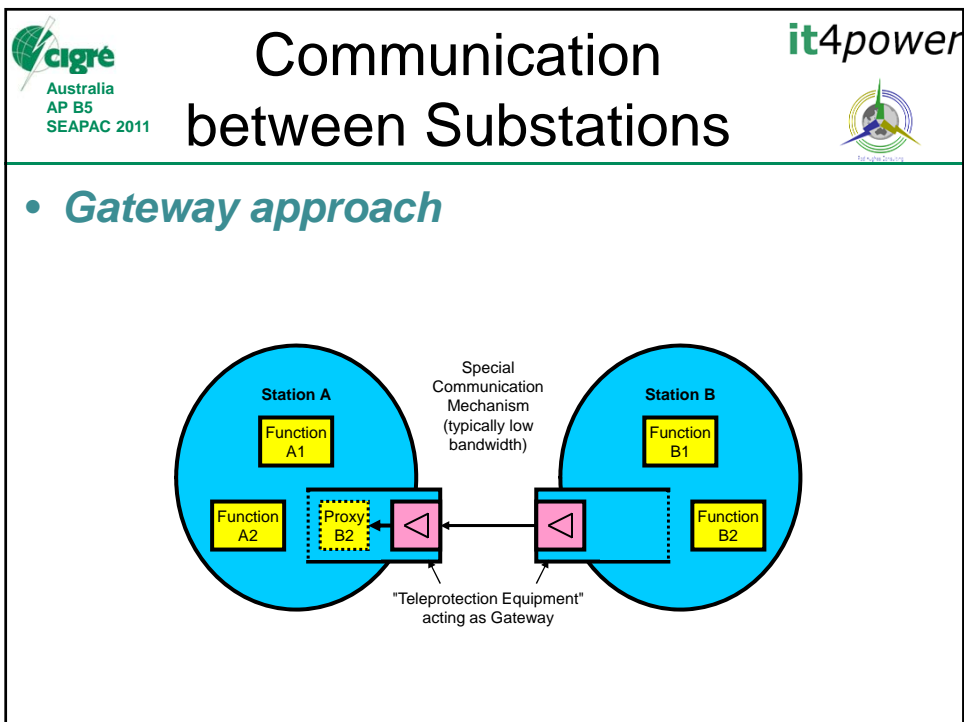
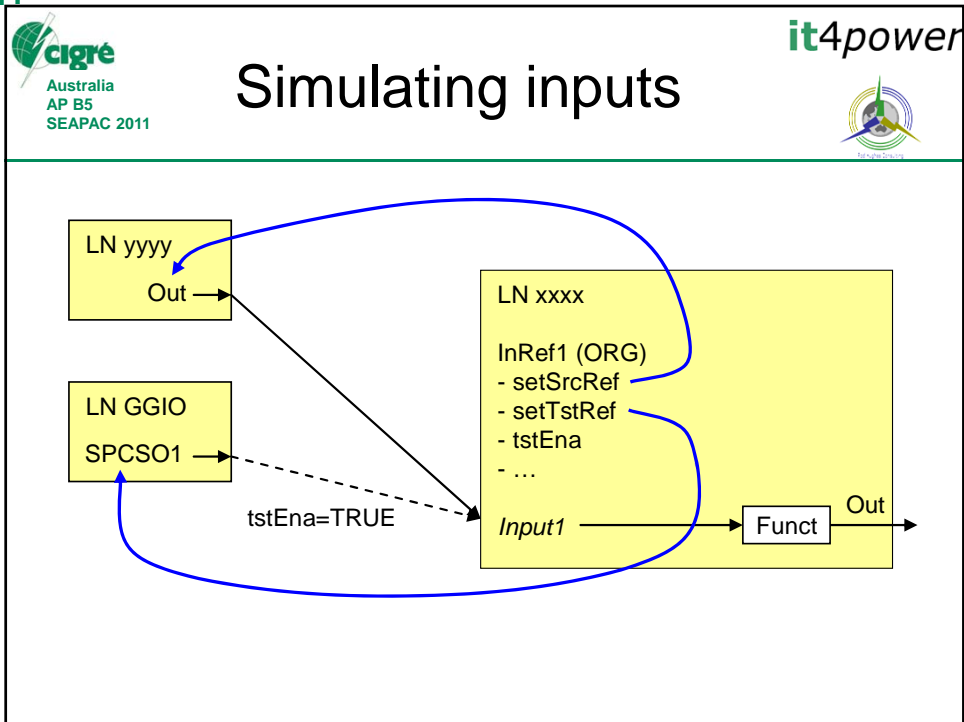
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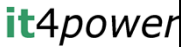
- Edition 2 adds specifications that shall help to improve interoperability of tools
  - Conformance statements for IED and system tools
  - Responsibilities of system tools and IED tools
- Differentiation between instance file and template – new file type IID
- Exchange of engineering information between projects – new file type SED








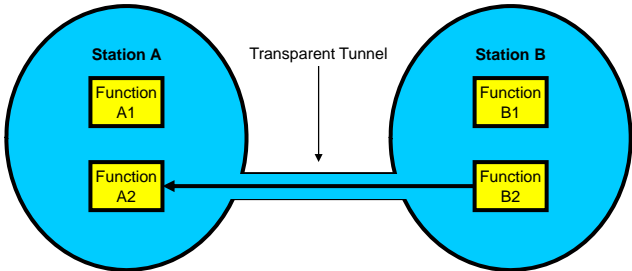







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## Communication between Substations

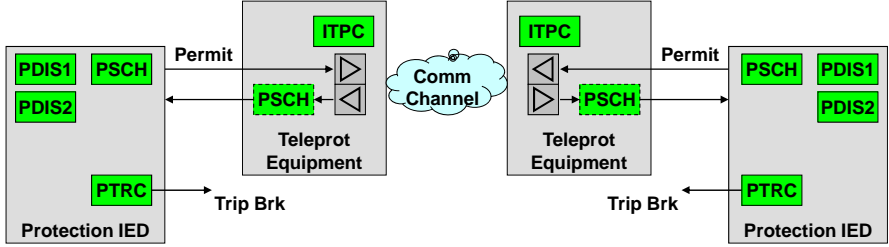
- Tunnel approach**







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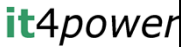
## Modeling PUTT



Gateway approach




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## Conclusions

- Edition 2 includes many new features supporting the end user
- Interoperability between tools is expected to be improved
- New features improve testing
- Backwards compatibility is maintained to a large extend



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## Thank You

