

**WITS GOVERNANCE  
TERMS OF REFERENCE (TOR)**

<b>NAME</b>	WITS-IoT Development / Specification Group
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<b>PURPOSE</b>	To develop the WITS-IoT protocol specification on behalf of the WITS Protocol Standards Association (WITS PSA).
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<b>OWNERSHIP</b>	Copyright and ownership of the intellectual property of WITS-IoT will belong fully to the WITS PSA. All of those working on the standard forfeit their right to own the output. Individuals contributing to the development of the standard will be recognised for their input by being marked as authors.
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<b>VOLUNTEER &amp; INVITATION PROCESS</b>	<p>The WITS PSA Chairman will invite WITS members to volunteer to contribute / become involved to the WITS-IoT Development / Specification Group through:</p> <ol style="list-style-type: none"> <li>1) wider community reviewing and feeding back comments</li> <li>2) to move forward working groups who talk and meet regularly</li> </ol> <p>The Development / Specification Group will review volunteer offers and invite suitable individuals to participate.</p> <p>Contributors must commit to attending regular conference calls and face-to-face meetings and provide their efforts in a timely manner. There will be no paid roles for WITS-IoT work. The working groups will be small, in order to aid momentum. All those volunteering to work on WITS-IoT must be WITS members.</p>
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<b>MEMBERSHIP</b>	<b>Name</b>	<b>Role On Group</b>
	Steve Beadle	Group Leader
Stuart Combellack	Developer / Project Member	
Gavin Rawson	Developer / Project Member	
Mark Davison	Developer / Project Member	
Barry Shephard	Developer / Project Member	
TBA		
TBA		

<b>FUNCTIONS</b>	<p>Work will be needed on the following areas, and the team work will be split, allocated and managed by the WITS PSA Strategy Group:</p> <ol style="list-style-type: none"> <li>a) Customer requirements</li> <li>b) Requirement analysis / filtering</li> <li>c) Technical design</li> <li>d) Design approval</li> <li>e) Messaging / communications to outside the group</li> </ol>
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<b>RESPONSIBILITIES &amp; SCOPE</b>	<p>Using the current part-worked protocol design and prototype produced so far, the scope is to build on this using volunteers to the point we have one or more fully working WITS-IoT Protocol implementations.</p> <p>While the Field Device will have different options for different complexities and purposes, the Master will be required to be comprehensive. Maintaining this will ensure 'my device will talk to your master', reducing the risk of fragmentation. MQTT and other broker-based technologies will give opportunities for other architectural designs, such as 'passive' masters absorbing data, which we will need to investigate.</p> <p>For the first of the WITS-IoT Protocol implementations, the main focus for the document and reference system will be MQTT, with secondary focus on HTTP. We may investigate whether protocols such as CoAP, AMQP, STOMP, XMPP etc. could be used and what the impact would be.</p>
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<b>PLANNING &amp; PROJECT MANAGEMENT</b>	<p>Planning and management will follow Agile principles rather than waterfall. There will be some parallel activities and stepwise refinement.</p> <p>An online portal will be used to aid collaboration, tasking and file versioning and distribution.</p>
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<b>INPUTS</b>	<p>The specification group will start with the 92 existing requirements from the WITS-DNP3 documentation, and reject/refine/add for the new IoT requirements.</p> <p>There is an opportunity to simplify usage scenarios, and to make sure that the IoT ethos is maintained, which may be at the expense of leaving some scenarios behind.</p>
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<b>OUTPUTS</b>	<p>The output from the work will include:</p> <ul style="list-style-type: none"> <li>i) Protocol document(s)</li> <li>ii) Reference device and master software</li> <li>iii) Test documentation</li> <li>iv) Governance implications</li> <li>v) Online portal</li> </ul>
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<b>REPORTS TO</b>	WITS PSA Committee
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**History of Review**

<b>Date</b>	<b>Revision</b>	<b>Author</b>	<b>Changes</b>
27/04/17	01	Steve Beadle Simon Harrison	First issue
08/05/17	02	Steve Beadle Simon Harrison	Updated following review by Mark Davison
16/05/17	03	Simon Harrison	Updated following review comments from Stuart Combellack
16/05/17	1.0	Simon Harrison	First Issue