BACnet/SC Interoperability Acceleration Program

A Collaborative Effort of the BACnet Community
administered by BACnet International

Technical Champion, Dave Robin

Version 3.1
Key Benefits for Participants

• Fast track to developing in-house technical knowledge of BACnet/SC and how to deploy it, including:
  • Access to technical forum led by reference implementation developer
  • Early access to source code for reference implementation (beta through release)
  • Free access to as many as three webinars on key topics, such as architecture, implementation, porting, and deployment alternatives (valued at $995 each)

• Maximum assurance of your device interoperating with others, including
  • Early access to reference implementation for in-house testing
  • Early access to industry-wide BACnet/SC to BACnet/SC testing service at 25% discount (value depends on usage)
  • Early access to remote interoperability testing of BACnet/SC with broad range of BACnet/IP devices at 25% discount (value depends on usage)

• Early license to use reference implementation or create derivatives for use in products

• Acceleration of BACnet recognition as a secure platform for Building IoT (BIoT)
Program Components

1. BACnet/SC data link reference implementation development
   • Basic BACnet/SC Node
   • Basic BACnet/SC Hub
   • Basic BACnet/SC – BACnet IP Router

2. BACnet/SC implementation education and experience sharing
   • Technical forum focused on reference implementation
     • Weekly posts by Dave Robin
     • Q&A relating to BACnet/SC implementation and deployment
     • Q&A relating to porting the reference implementation to alternate languages and hardware
   • Technical webinars
     • BACnet/SC device implementation architecture choices and implications
     • BACnet/SC security certificate generation, signing and deployment

3. BACnet/SC reference device development
   • Off-the-shelf hardware with reference stack embedded + VM installable
   • Simple Node prototype
   • Simple Hub prototype
   • BACnet/IP – BACnet/SC router prototype

4. BACnet/SC Interoperability Testing Service

5. Remote Interoperability Testing Service

6. Open Source BACnet/SC software availability *(staged)*
Program Components

BACnet/SC Interoperability Testing Service

1. Reference hub implementation maintained in the cloud
2. Suppliers sign NDA with BACnet Intl (just like Plugfest)
3. Supplier participation can include:
   a) Use the cloud hub for self testing
   b) Keep a device accessible via the hub and self-monitor as other participants come and go
   c) Arrange with one or more other suppliers for a specific time for a private test
4. Participation, testing fees, time allocation and cloud hub managed by BACnet Intl
Program Components

Remote Interoperability Testing Service
1. Reference hub and router at RBTO
2. Network of tested 50+ devices at RBTO (with permission)
3. Reference SC/IP router prototype provided for IUT at supplier location
4. Participation, time allocation, fees and testing managed by BACnet Intl
Program Structure

1. Managed by BACnet Intl

2. Types of Participation
   a) Industry Participants
   b) Educational Institutions

3. Program Advisory Group
   a) Selected participants
   b) BTL-WG representation
   c) Selected industry leaders

4. Development supported by one-time participation fee

5. Ongoing testing services maintained by testing-specific fees and/or subscriptions
## Benefits Comparison

<table>
<thead>
<tr>
<th>Benefit</th>
<th>Industry Participant</th>
<th>Educational Institution</th>
<th>Non-Participant</th>
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<tbody>
<tr>
<td>Access to beta and release versions of reference implementation source code</td>
<td>√</td>
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<tr>
<td>License to modify and use reference implementation code internally</td>
<td>√</td>
<td>√</td>
<td></td>
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<tr>
<td>License to modify and use reference implementation code in products</td>
<td>√</td>
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<tr>
<td>Opportunity to contribute to reference implementation code base</td>
<td>√</td>
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<td>Access to a participant forum for exchange of information and questions plus weekly posts by Dave Robin and other industry experts</td>
<td>√</td>
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<td>Opportunity to nominate someone for the Program Advisory Group</td>
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<td>25% discount on rates for use of BTL SC Interoperability Testing Service</td>
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<tr>
<td>25% discount on rates for use of BTL Remote Interoperability Testing Service</td>
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<tr>
<td>Recognition in program marketing materials</td>
<td>√</td>
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<td>Logo on home page of the Program website</td>
<td>√</td>
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<td>Ability to modify and use reference implementation after it is placed in open source repository (probably 12 months after release to participants)</td>
<td>√</td>
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Industry Participant Benefits

• Unlimited access to participant forum for exchange of information and questions about BACnet/SC implementation as well as industry expert posts
• Free access for up to three expert webinars on BACnet/SC implementation and deployment
• Early access to source code for BACnet/SC reference implementations for internal design validation and architecture guidance
• Early access to reference devices for in-house testing and QA
• 25% discount on rates for use of BTL SC Interoperability Testing Service until Dec 31, 2021 or until the service is discontinued, whichever comes first
• 25% discount on rates for use of BTL Remote Interoperability Testing Service until Dec 31, 2021 or until the service is discontinued, whichever comes first
• Recognition in Program marketing materials
• Opportunity to contribute to BACnet/SC reference code base
• License to use, modify and incorporate all releases of BACnet/SC reference code base in products as well as use internally
Educational Institution Benefits

• Early access to beta versions of BACnet/SC reference implementations
• Opportunity to contribute to BACnet/SC reference code base
• License for internal use of all releases of BACnet/SC reference code base
• Unlimited access to participant forum for exchange of information and questions about BACnet/SC implementation as well as industry expert posts
• Recognition in Program marketing materials
• Logo on program home page
Cost

• Industry Participant
  ✓ BACnet International corporate members - $5,000.00
  ✓ Non BACnet International corporate members - $11,000.00

• Educational Institution - $0

To Apply or for More Information

Contact Dave Nardone, BACnet International
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