

# BACnet/SC Interoperability Acceleration Program

A Collaborative Effort of the BACnet Community  
administered by BACnet International

Technical Champion, Dave Robin

# 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 (BloT)

# 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

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

# 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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