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BACnet TESTING LABORATORIES

INTERIM TEST FUNCTIONALITY CHECKLIST

To Be Used with Test Package 26.0

Version 2

March 24, 2025

Approved by the BTL Working Group March 20, 2025.

Approved by the BTL Working Group Voting Members March 20, 2025.

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# Introduction

This checklist is in addition to the ***BTL Functionality Checklist*** and identifies the functionality beyond the Protocol\_Revision of the released test package or functionality not yet tested by the current test package.

Vendors who are planning to submit a device at a Protocol\_Revision beyond the Protocol\_Revision of the released test package or includes functionality not yet tested by the current test package shall also complete this checklist.

Please note, the functionality implemented in a specific device may result in changes to this document as well as new or updated tests in the interim test package. Please contact the BTL Manager before submitting your device for testing to ensure you are aware of all tests that will need to be applied to your device.

The updates to the checklist specified in this document are for interim testing only and may or may not be used when the final changes are applied to the next Test Package revision. Devices tested using this interim test document may be recalled for updated testing when the next revision of test package is released that includes the functionality covered here.

The Listing column indicates whether the option is required or not. The codes in the table are:

R = Required. Items marked with this listing code are required for a listing if the IUT implements the associated BIBB, object type, or functional category.

BTL-R = Required by BTL. Items marked with this listing code are required for a listing if the IUT implements the associated BIBB, object type, or functional category.

C = Conditionally Required. Items marked with this listing code may be required for a listing if the IUT implements the associated BIBB, object type, or functional category. The conditions under which the item will be required are identified in a footnote in the Checklist table.

BTL-C = Conditionally Required by BTL. Items marked with this listing code may be required for a listing if the IUT implements the associated BIBB, object type, or functional category. The conditions under which the item will be required are identified in a footnote in the Checklist table.

S = Suggested. The BTL suggests that all IUTs implement this option if they implement the associated BIBB, object type, or functional category.

O = Optional. Items marked with this listing code are optional.

N = Not recommended. The BTL recommends against IUTs implementing this option due to possible interoperability or performance problems related with the option.

# IUT Information

This section shall provide additional information about the IUT when the BTL Checklist is filled out.

|  |  |
| --- | --- |
| Fill out date |  |
| Vendor Name |  |
| Product Name |  |
| Product Model Number |  |
| BACnet Protocol Version | 1 |
| BACnet Protocol Revision |  |
| BACnet Device Profile |  |
| BACnet Firmware Revision |  |
| BACnet Application Software Version |  |
|  |  |
| Remarks |  |

# Data Link Layer

|  |  |  |
| --- | --- | --- |
| **…** | | |
| **Data Link Layer - Virtual Network** | | |
|  | R | Base Requirements |
|  | R | Supports GW-VN-B |
|  | C1 | Supports the Network Port object |
|  | C1,2 | Supports writable Network\_Number property |
|  | O1 | Supports configurable Out\_Of\_Service property |
|  | C1,3 | Supports hierarchical Network Port objects |
|  | C1,3 | Supports Non-hierarchical Network Port objects |
|  | O1 | Supports the Routing\_Table property |
|  | O1 | Supports the Network Port object Command property |
|  | O1,4 | Supports the DISCARD\_CHANGES command |
|  | O1,4 | Supports the RENEW\_FD\_REGISTRATION command |
|  | O1,4 | Supports the RESTART\_SLAVE\_DISCOVERY command |
|  | O1,4 | Supports the RENEW\_DHCP command |
|  | O1,4 | Supports the RESTART\_AUTONEGOTIATION command |
|  | O1,4 | Supports the RESTART\_PORT command |
|  | O4,5 | Supports the GENERATE\_CSR\_FILE command |
|  | O4,5 | Supports the VALIDATE\_CHANGES command |
| 1 Protocol\_Revision 17 or higher must be claimed.  2 The Network\_Number property shall be present and writable.  3 At least one of these options is required.  4 At least one of these options is required if the Network Port object Command property is supported.  5 Protocol\_Revision 24 or higher must be claimed. | | |
| … | | |

**11 Gateway**

| **Support** | | **Listing** | | **Option** |
| --- | --- | --- | --- | --- |
| **Gateway - Virtual Network - B** | | | | |
|  | | R | | Base Requirements |
|  | | C1 | | Supports Data Link Layer - Virtual Network |
| 1 Required if the device claims Protocol\_Revision 17 or higher. | | | | |
| **Gateway - Embedded Objects - B** | | | | |
|  | | R | | Base Requirements |
|  | O | | Supports command prioritization | |
|  | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Change** |
| 1.0 | 2024-12-20 | Michael Osborne | * Initial Release. Supports Test Package 26.0. |
| 2.0 | 2025-03-24 | Michael Osborne | * BTLWG-1683 - Add Virutual Data Link to the Test Package |