# **Health Device Profile (HDP)**

### Bluetooth® Implementation Conformance Statement (ICS) Proforma

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# 1 Identification of the implementation

# 1.1 Implementation Under Test (IUT) identification

Identification of the Implementation Under Test (IUT) is to be filled in to provide as much detail as possible regarding version numbers and configuration options.

An ICS contact person to respond to queries regarding information supplied in this ICS proforma is named in the Declaration of Compliance: Summary of Selected Specifications in Implementation.



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#### 1.2 Versions

Table 0: X.Y Versions

| Item | Version    | Reference | Status  |
|------|------------|-----------|---|
| 1    | HDP v1.0** | HDP 1.0   | Deprecated 2013-07-24.<br>Withdrawn 2025-02-01. |
| 2    | HDP v1.1   | HDP 1.1   | M   |

#### 1.3 Roles

**Table 1: Role Requirements** 

| Item | Role   | Reference          | Status |
|------|--------|--------------------|--------|
| 1    | Source | [1] 2.2<br>[2] 3.4 | C.1    |
| 2    | Sink   | [1] 2.2<br>[2] 3.4 | C.1    |

C.1: Mandatory to support at least one.

#### 1.4 Source Role

#### 1.4.1 GAP and BB requirements – Source

Table 2: GAP and BB Requirements - Source

Prerequisite: HDP 1/1 "Source"

| Item | Feature                                | Reference | Status | Inter-Layer<br>Dependency |
|------|--|-----------|--------|---------------------------|
| 1    | General discoverable mode              | [1] 3.1.1 | М      | [4] GAP 1/3               |
| 2    | Bondable mode                          | [1] 3.1.1 | М      | [4] GAP 1/7               |
| 3    | Authentication procedure               | [1] 3.1.2 | М      | [4] GAP 2/1               |
| 4    | Initiate LMP-Authentication            | [1] 3.1.2 | М      | [4] GAP 2/3               |
| 5–6  | No longer used                         | N/A       | N/A    | N/A                       |
| 7    | Initiation of general inquiry          | [1] 3.1.3 | C.1    | [4] GAP 3/1               |
| 8    | Acceptance of Bonding requests         | [1] 3.1.3 | М      | N/A                       |
| 9    | Initiation of general bonding          | [1] 3.1.3 | 0      | [4] GAP 3/5               |
| 10   | Extended Inquiry Response              | [1] 3.1.4 | М      | [5] BB 10/7               |
| 11   | Supports use of Health Class of Device | [1] 3.1.5 | 0      | N/A                       |

C.1: Mandatory IF HDP 2/9 "Initiation of general bonding", otherwise Optional.

<sup>\*\*</sup> Deprecated versions may not appear in the Bluetooth SIG qualification tool after the deprecation date. TCRLs published after this date will not allow the use of deprecated versions.



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## 1.4.2 L2CAP requirements – Source

Table 3: L2CAP Features - Source

Prerequisite: HDP 1/1 "Source"

| Item | Feature  | Reference | Status | Inter-Layer<br>Dependency |
|------|--|-----------|--------|---------------------------|
| 1    | Reliable Control Channel   | [1] 3.3.1 | М      | N/A                       |
| 2    | FCS for Control Channel  | [1] 3.3.1 | М      | N/A                       |
| 2a   | Enhanced Retransmission Mode   | [1] 3.3.1 | М      | [9] L2CAP 2/12            |
| 2b   | FCS Option   | [1] 3.3.1 | M      | [9] L2CAP 2/14            |
| 3    | Reliable Data Channel  | [1] 3.4   | M      | N/A                       |
| 4    | Send data using SAR in ERTM  | [1] 3.4.1 | M      | [9] L2CAP 2/22            |
| 5    | FCS for Reliable Data Channel  | [1] 3.4.1 | 0      | N/A                       |
| 6    | FCS option of "No FCS" for Reliable Data Channel                                 | [1] 3.4.1 | 0      | N/A                       |
| 7    | Streaming Data Channel   | [1] 3.4   | 0      | N/A                       |
| 8    | Send data using SAR in Streaming Mode  | [1] 3.4.2 | C.8    | [9] L2CAP 2/23            |
| 9    | FCS for Steaming Data Channel  | [1] 3.4.2 | C.7    | N/A                       |
| 10   | FCS option of "No FCS" for Streaming Data Channel                                | [1] 3.4.2 | C.6    | N/A                       |
| 10a  | Streaming Mode   | [1] 3.4.2 | C.8    | [9] L2CAP 2/13            |
| 11   | Maximum number of simultaneous Data Channels supported (DCmax) per MCL ≥ 1       | [1] 3.4   | M      | N/A                       |
| 12   | Maximum number of simultaneous<br>Data Channels supported (DCmax)<br>per MCL ≥ 2 | [1] 3.4   | C.7    | N/A                       |

C.1–C.5: No longer used.

C.6: Optional IF HDP 3/7 "Streaming Data Channel", otherwise Excluded.

C.7: Mandatory IF HDP 3/7 "Streaming Data Channel", otherwise Excluded.

C.8: Mandatory IF HDP 3/7 "Streaming Data Channel", otherwise not defined.

# 1.4.3 SDP requirements – Source

Table 4: SDP Attributes - Source

Prerequisite: HDP 1/1 "Source"

| Item | Feature                             | Reference | Status | Inter-Layer<br>Dependency |
|------|-------------------------------------|-----------|--------|---------------------------|
| 1    | Advertisement of HDP Service Record | [1] 5     | C.1    | N/A                       |
| 1a   | Server                              | [1] 5     | C.4    | [6] SDP 1b/1              |
| 1b   | Client                              | [1] 5     | C.5    | [6] SDP 1b/2              |
| 2    | No longer used                      | N/A       | N/A    | N/A                       |



| Item | Feature                            | Reference  | Status | Inter-Layer<br>Dependency |
|------|------------------------------------|------------|--------|---------------------------|
| 3    | ProtocolDescriptorList             | [1] 5.2.3  | C.2    | [6] SDP 9/2               |
| 4    | BluetoothProfileDescriptorList     | [1] 5.2.4  | C.2    | [6] SDP 9/14              |
| 5    | AdditionalProtocolDescriptorList   | [1] 5.2.5  | C.2    | [6] SDP 9/17              |
| 6    | ServiceName                        | [1] 5.2.6  | 0      | [6] SDP 9/9               |
| 7    | ServiceDescription                 | [1] 5.2.7  | 0      | [6] SDP 9/10              |
| 8    | ProviderName                       | [1] 5.2.8  | 0      | [6] SDP 9/11              |
| 9    | HDP Supported Features (MDEP List) | [1] 5.2.9  | C.3    | N/A                       |
| 10   | MCAP Data Exchange Specification   | [1] 5.2.10 | C.3    | N/A                       |
| 11   | MCAP Supported Procedures          | [1] 5.2.11 | C.3    | N/A                       |
| 12   | ServiceRecordState                 | [1] 5.2.9  | 0      | [6] SDP 9/3               |

- C.1: Mandatory IF HDP 6/3 "Accept creation of Control and Data Channels", otherwise Excluded.
- C.2: Mandatory IF HDP 4/1 "Advertisement of HDP Service Record", otherwise Optional.
- C.3: Mandatory IF HDP 4/1 "Advertisement of HDP Service Record", otherwise Excluded.
- C.4: Mandatory IF HDP 4/1 "Advertisement of HDP Service Record" OR HDP 6/3 "Accept creation of Control and Data Channels", otherwise not defined.
- C.5: Mandatory IF HDP 6/2 "Initiate creation of Control and Data Channels", otherwise not defined.

#### 1.4.4 DID requirements – Source

Table 5: DID Requirements - Source

Prerequisite: HDP 1/1 "Source"

| lt | tem | Feature  | Reference | Status | Inter-Layer<br>Dependency |
|----|-----|----------|-----------|--------|---------------------------|
| 1  |     | DID v1.3 | [1] 5.3   | C.1    | [7] DID 0/2               |

C.1: Mandatory IF HDP 4/1 "Advertisement of HDP Service Record", otherwise Optional.

#### 1.4.5 MCAP requirements – Source

Table 6: MCAP Requirements - Source

Prerequisite: HDP 1/1 "Source"

| Item | Feature   | Reference | Status | Inter-Layer<br>Dependency |
|------|---|-----------|--------|---------------------------|
| 1    | Standard Op Codes                                 | [1] 3.2   | М      | [8] MCAP 1a/1             |
| 2    | Initiate creation of Control and Data<br>Channels | [2] 4.3   | C.1    | [8] MCAP 3/2              |
| 3    | Accept creation of Control and Data Channels      | [2] 4.3   | C.1    | [8] MCAP 3/3              |
| 4    | Initiate Reconnection of MDL                      | [2] 4.3   | 0      | [8] MCAP 3/8              |
| 5    | Accept Reconnection of MDL                        | [2] 4.3   | C.2    | [8] MCAP 3/9              |
| 6    | Clock Synchronization Protocol Op<br>Codes        | [1] 3.2   | 0      | [8] MCAP 1a/2             |



| Item | Feature     | Reference          | Status | Inter-Layer<br>Dependency |
|------|-------------|--------------------|--------|---------------------------|
| 7    | Sync-Slave  | [2] 5.1.3.2        | C.3    | [8] MCAP 1/3              |
| 8    | Sync-Master | [2] 5.1.3.1        | C.4    | [8] MCAP 1/4              |
| 9    | Source      | [1] 2.2<br>[2] 3.4 | М      | [8] MCAP 1/1              |

- C.1: Mandatory to support at least one.
- C.2: Mandatory IF HDP 6/3 "Accept creation of Control and Data Channels", otherwise not defined.
- C.3: Mandatory IF HDP 6/6 "Clock Synchronization Protocol Op Codes", otherwise not defined.
- C.4: Optional IF HDP 6/6 "Clock Synchronization Protocol Op Codes", otherwise not defined.

#### 1.4.6 Data Exchange Features – Source

Table 7: Data Exchange Features - Source

Prerequisite: HDP 1/1 "Source"

| Item | Feature                           | Reference                   | Status |
|------|-----------------------------------|-----------------------------|--------|
| 1    | Initiation of Echo Test           | [1] 5.2.9.1.1               | 0      |
| 2    | Acceptance of Echo Test           | [1] 5.2.9.1.1               | М      |
| 3    | IEEE 11073-20601                  | [1] 1.5.3<br>[3] 1.3        | М      |
| 4    | IEEE 11073-20601 Agent Role       | [1] 1.5.3<br>[3] 1.3, 3.1.1 | C.1    |
| 5    | IEEE 11073-20601 Manager Role     | [1] 1.5.3<br>[3] 1.3, 3.1.6 | C.1    |
| 6    | Initiation of Association Release | [1] 3.4                     | 0      |

C.1: Mandatory to support at least one.

#### 1.5 Sink Role

#### 1.5.1 GAP and BB requirements – Sink

Table 8: GAP and BB Requirements - Sink

Prerequisite: HDP 1/2 "Sink"

| Item | Feature                        | Reference | Status | Inter-Layer<br>Dependency |
|------|--------------------------------|-----------|--------|---------------------------|
| 1    | General discoverable mode      | [1] 3.1.1 | М      | [4] GAP 1/3               |
| 2    | Bondable mode                  | [1] 3.1.1 | М      | [4] GAP 1/7               |
| 3    | Authentication procedure       | [1] 3.1.2 | M      | [4] GAP 2/1               |
| 4    | Initiate LMP-Authentication    | [1] 3.1.2 | M      | [4] GAP 2/3               |
| 5–6  | No longer used                 | N/A       | N/A    | N/A                       |
| 7    | Initiation of general inquiry  | [1] 3.1.3 | M      | [4] GAP 3/1               |
| 8    | Acceptance of Bonding requests | [1] 3.1.3 | М      | N/A                       |
| 9    | Initiation of general bonding  | [1] 3.1.3 | 0      | [4] GAP 3/5               |



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| Item | Feature                       | Reference | Status | Inter-Layer<br>Dependency |
|------|-------------------------------|-----------|--------|---------------------------|
| 10   | Extended Inquiry Response     | [1] 3.1.4 | M      | [5] BB 10/7               |
| 11   | Use of Health Class of Device | [1] 3.1.5 | 0      | N/A                       |

# 1.5.2 L2CAP requirements – Sink

Table 9: L2CAP Features - Sink

Prerequisite: HDP 1/2 "Sink"

| Item | Feature  | Reference | Status | Inter-Layer<br>Dependency |
|------|--|-----------|--------|---------------------------|
| 1    | Reliable Control Channel   | [1] 3.3.1 | М      | N/A                       |
| 2    | FCS for Control Channel  | [1] 3.3.1 | M      | N/A                       |
| 2a   | Enhanced Retransmission Mode   | [1] 3.3.1 | M      | [9] L2CAP 2/12            |
| 2b   | FCS Option   | [1] 3.3.1 | М      | [9] L2CAP 2/14            |
| 3    | Reliable Data Channel  | [1] 3.4.1 | M      | N/A                       |
| 4    | Send data using SAR in ERTM  | [1] 3.4.1 | М      | [9] L2CAP 2/22            |
| 5    | FCS for Reliable Data Channel  | [1] 3.4.1 | 0      | N/A                       |
| 6    | FCS option of "No FCS" for Reliable Data Channel                             | [1] 3.4.1 | 0      | N/A                       |
| 7    | Streaming Data Channel   | [1] 3.4   | M      | N/A                       |
| 8    | Send data using SAR in Streaming Mode  | [1] 3.4.2 | М      | [9] L2CAP 2/23            |
| 9    | FCS for Steaming Data Channel  | [1] 3.4.2 | M      | N/A                       |
| 10   | FCS option of "No FCS" for Streaming Data Channel                            | [1] 3.4.2 | 0      | N/A                       |
| 10a  | Streaming Mode   | [1] 3.4.2 | M      | [9] L2CAP 2/13            |
| 11   | Maximum number of simultaneous<br>Data Channels supported (DCmax)<br>per MCL | [1] 3.4   | M      | N/A                       |

# 1.5.3 SDP requirements – Sink

Table 10: SDP Attributes - Sink

Prerequisite: HDP 1/2 "Sink"

| Item | Feature                             | Reference | Status | Inter-Layer<br>Dependency |
|------|-------------------------------------|-----------|--------|---------------------------|
| 1    | Advertisement of HDP Service Record | [1] 5     | 0      | N/A                       |
| 1a   | Server                              | [1] 5     | C.1    | [6] SDP 1b/1              |
| 1b   | Client                              | [1] 5     | C.2    | [6] SDP 1b/2              |
| 2    | No longer used                      | N/A       | N/A    | N/A                       |
| 3    | ProtocolDescriptorList              | [1] 5.2.3 | M      | [6] SDP 9/2               |



| Item | Feature                            | Reference  | Status | Inter-Layer<br>Dependency |
|------|------------------------------------|------------|--------|---------------------------|
| 4    | BluetoothProfileDescriptorList     | [1] 5.2.4  | М      | [6] SDP 9/14              |
| 5    | AdditionalProtocolDescriptorList   | [1] 5.2.5  | М      | [6] SDP 9/17              |
| 6    | ServiceName                        | [1] 5.2.6  | 0      | [6] SDP 9/9               |
| 7    | ServiceDescription                 | [1] 5.2.7  | 0      | [6] SDP 9/10              |
| 8    | ProviderName                       | [1] 5.2.8  | 0      | [6] SDP 9/11              |
| 9    | HDP Supported Features (MDEP List) | [1] 5.2.9  | М      | N/A                       |
| 10   | MCAP Data Exchange Specification   | [1] 5.2.10 | М      | N/A                       |
| 11   | MCAP Supported Procedures          | [1] 5.2.11 | М      | N/A                       |
| 12   | ServiceRecordState                 | [1] 5.2.9  | 0      | [6] SDP 9/3               |

C.1: Mandatory IF HDP 10/1 "Advertisement of HDP Service Record" OR HDP 12/3 "Accept creation of Control and Data Channels", otherwise not defined.

## 1.5.4 DID requirements – Sink

Table 11: DID Requirements - Sink

Prerequisite: HDP 1/2 "Sink"

| Item | Feature  | Reference | Status | Inter-Layer<br>Dependency |
|------|----------|-----------|--------|---------------------------|
| 1    | DID v1.3 | [1] 5.3   | М      | [7] DID 0/2               |

# 1.5.5 MCAP requirements – Sink

Table 12: MCAP Requirements – Sink

Prerequisite: HDP 1/2 "Sink"

| Item | Feature  | Reference          | Status | Inter-Layer<br>Dependency |
|------|--|--------------------|--------|---------------------------|
| 1    | Standard Op Codes                              | [1] 3.2            | М      | [8] MCAP 1a/1             |
| 2    | Initiate creation of Control and Data Channels | [2] 4.3            | 0      | [8] MCAP 5/2              |
| 3    | Accept creation of Control and Data Channels   | [2] 4.3            | 0      | [8] MCAP 5/3              |
| 4    | Initiate Reconnection of MDL                   | [2] 4.3            | 0      | [8] MCAP 5/8              |
| 5    | Accept Reconnection of MDL                     | [2] 4.3            | М      | [8] MCAP 5/9              |
| 6    | Clock Synchronization Protocol Op<br>Codes     | [1] 3.2            | 0      | [8] MCAP 1a/2             |
| 7    | Sync-Slave                                     | [2] 5.1.3.2        | C.1    | [8] MCAP 1/3              |
| 8    | Sync-Master                                    | [2] 5.1.3.1        | C.2    | [8] MCAP 1/4              |
| 9    | Sink   | [1] 2.2<br>[2] 3.4 | M      | [8] MCAP 1/2              |

C.1: Mandatory IF HDP 12/6 "Clock Synchronization Protocol Op Codes", otherwise not defined.



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C.2: Mandatory IF HDP 12/2 "Initiate creation of Control and Data Channels", otherwise not defined.

C.2: Optional IF HDP 12/6 "Clock Synchronization Protocol Op Codes", otherwise not defined.

# 1.5.6 Data Exchange Features - Sink

Table 13: Data Exchange Features - Sink

Prerequisite: HDP 1/2 "Sink"

| Item | Feature                           | Reference                   | Status |
|------|-----------------------------------|-----------------------------|--------|
| 1    | Initiation of Echo Test           | [1] 5.2.9.1.1               | 0      |
| 2    | Acceptance of Echo Test           | [1] 5.2.9.1.1               | М      |
| 3    | IEEE 11073-20601                  | [1] 1.5.3<br>[3] 1.3        | М      |
| 4    | IEEE 11073-20601 Agent Role       | [1] 1.5.3<br>[3] 1.3, 3.1.1 | C.1    |
| 5    | IEEE 11073-20601 Manager Role     | [1] 1.5.3<br>[3] 1.3, 3.1.6 | C.1    |
| 6    | Initiation of Association Release | [1] 3.4                     | 0      |

C.1: Mandatory to support at least one IF HDP 13/3 "IEEE 11073-20601", otherwise Excluded.

# 2 References

- [1] Health Device Profile (HDP) Specification, Version 1.0 or later
- [2] Multi-Channel Adaptation Protocol (MCAP) Specification
- [3] IEEE Std 11073-20601™- 2008 Health Informatics Personal Health Device Communication Application Profile Optimized Exchange Protocol Version 1.0 or later
- [4] ICS Proforma for Generic Access Profile (GAP)
- [5] ICS Proforma for Baseband (BB)
- [6] ICS Proforma for Service Discovery Protocol (SDP)
- [7] ICS Proforma for Device Identification (DID)
- [8] ICS Proforma for Multi-Channel Adaptation Protocol (MCAP)
- [9] ICS Proforma for Logical Link Control and Adaptation Protocol (L2CAP)



# 3 Revision history and acknowledgments

## Revision History

| Publication<br>Number | Revision<br>Number  | Date                       | Comments  |
|-----------------------|---------------------|----------------------------|---|
| 0                     | 1.0.0               | 2008-06-24                 | Prepare for publication   |
| 1                     | 1.0.1               | 2009-05-01                 | TSE 2926: Change 7/1 and 13/1 status to O. Added attribute to Tables 4 and 10 for ServiceRecordState per spec erratum 2947.             |
|                       | 1.0.1a              | 2009-11-23                 | Added missing radio buttons in PDF version  |
|                       | 1.0.2r0             | 2010-08-12                 | TSE 3088: ServiceRecordState added 01 May 2009.   |
| 2                     | 1.0.2               | 2011-07-21                 | Prepare for publication.  |
|                       | 1.0.3r0             | 2011-11-03                 | TSE 2970: Add Optional table items 7/6 and 13/6   |
| 3                     | 1.0.3r1             | 2012-03-12                 | Input reviewers (MS and AC) comments.   |
|                       | 1.0.4r0             | 2012-06-06                 | TSE 4802: Table prerequisite and reference updates.   |
|                       | 1.0.4r1             | 2012-06-12                 | BTI comments addressed.  Conditional syntax updated to meet the standards used.   |
|                       | 1.1.0               | 2012-06-13                 | Versioning updates to accommodate HDP_SPEC_v1.1   |
| 4                     | 1.1.0               | 2012-07-24                 | Prepare for publication.  |
|                       | 1.1.1r00            | 2017-04-17                 | TSE 8421: Updated Template.   |
|                       | 1.1.1r01            | 2017-05-08                 | Fixed typo in Core 2.1 reference, updated TOC, and fixed paragraph alignment for references.  |
| 5                     | 1.1.1               | 2017-07-03                 | Approved by BTI. Prepared for TCRL 2017-1 publication.  |
|                       | 1.1.2r00            | 2018-09-24                 | Drafted Deprecation/Withdrawal changes  |
| 6                     | 1.1.2               | 2018-11-21                 | Approved by BTI. Prepared for TCRL 2018-2 publication.  |
|                       | 1.1.2ed2r00-<br>r02 | 2021-01-24 –<br>2021-07-07 | TSE 16447 (rating 1): Added Inter-Layer Dependency formatting. Updated all references. Updated deprecation date for v1.0 to 2013-07-24. |
|                       |                     |                            | Template-related editorials to align with the latest ICS template. Assigned previous v1.1.2 as p6.                                      |
|                       | 1.1.2<br>edition 2  | 2021-07-15                 | Approved by BTI on 2021-05-06. Prepared for edition 2 publication.  |
|                       | 1.1.2ed3r00         | 2021-10-14                 | TSE 17690 (rating 1): Updated deprecation and withdrawal information and made additional consistency checker editorials.                |
|                       | 1.1.2<br>edition 3  | 2021-11-22                 | Approved by BTI on 2021-11-08. Prepared for edition 3 publication.  |



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|     | Revision<br>Number | Date                    | Comments   |
|-----|--------------------|-------------------------|--|
|     | o7r00_r01          | 2023-10-16 - 2023-11-29 | TSE 24173 (rating 2): Resolved inter-layer dependencies with MCAP and L2CAP. In Table 0, marked Item 1 as deprecated (grey text), updated the Status value for Item 2, and deleted C.1. In Table 1, updated the Role and Status values for Items 1 and 2, updated C.1, and deleted C.2 and C.3. In Table 2, updated the prerequisite, marked Items 5 and 6 as no longer used, updated the Feature value for Item 8, updated the Feature and ILD values for Item 9, and updated C.1. In Table 3, updated the prerequisite; updated the Feature and Status values for Items 1, 3, 6, 7, 9, and 10; updated the Feature value for Items 2 and 5; added Items 2a, 2b, and 10a; updated the Status value for Items 4 and 8; updated the Status value for Items 4 and 8; updated the Status value for Items 4. In Table 4, updated the prerequisite, updated the Feature value for Items 1, 1a, and 1b; marked Item 2 as no longer used; and updated C.1—C.5. In Table 5, updated the prerequisite and C.1. In Table 6, updated the prerequisite, updated the Feature value for Items 1 and 6–8, added Item 9, updated C.1—C.4, and added C.5. In Table 7, updated the prerequisite, Items 1 and 6–8, added Item 9, updated the prerequisite, marked Items 5 and 6 as no longer used, updated the Feature and ILD values for Item 9. In Table 9, updated the Feature and Status values for Items 1, 3, 6, 9, and 10; updated the Feature value for Items 8 and 11, and updated the Status value for Items 2a, 2b, and 10a; updated the Feature, Reference, and Status values for Item 7; and deleted C.1—C.5. In Table 10, updated the prerequisite, updated the Feature value for Items 4 and 8; updated the Feature, Reference, and Status values for Item 7; and deleted C.1—C.5. In Table 10, updated the prerequisite, updated the Feature value for Items 4 and 8; updated C.1 and C.2. In Table 11, updated the prerequisite, the Feature value for Items 1–6, and C.1. Made editorial edit |
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