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| **Cable**LabsSpecification Engineering Change (EC) Form | | | | | | | | | | | | |
| **EC Tracking Information (Blue fields to be completed by CableLabs only)** | | | | | | | | | | | | |
| **Project** | DOCSIS | **Status** | | N | | **Identifier** | MULPIv3.1-N-19.2011-5 | | | | **Version** | 5 |
| **Affected Specification** | | | CM-SP-MULPIv3.1-I17-190121 | | | | | | | | | |
| **ECR Date** | | | 3/7/2019 | | **Comment Period End Date** | | | 3/13/2019 | **Severity** | **Change Type** | | |
| **ECO Date** | | |  | | **Comment Period End Date** | | | 4/3/2019 | **Non-Critical** | **Minor** | | |
| **ECN Date** | | | 4/4/2019 | | **Cert Wave No** | | |  | **Critical** | **Major** | | |
| **ECN Effective Date** | | |  | | **Overall Type of Change (Tech/Edit/Both)** | | | | Technical | | | |

to obtain latest issued Specification Word version, click the following: <https://community.cablelabs.com/wiki/display/TECHPUBS/DOCSIS+Spec+Current+Issued>

to submit ec, email completed form to: [docsis\_ec@cablelabs.com](mailto:docsis_ec@cablelabs.com)

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| **specification document details** | | | | | |
| **Document EC is written against:**   **Issued Version #** I17 | | | | | |
| **author information** | | | | | |
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| **Additional Contributors** | | Greg White, Bob Briscoe, Tom Henderson, Low Latency DOCSIS WG Members | | | |
| **engineering change document details** | | | | | |
| **Title of EC** | | Clarifications and refinements to LLD technology | | | |
| **Date sent to CableLabs** | | 2/27/19 |  | | |
| **ec revision history** | | | | | |
| **Date of revised EC** | | 3/4/19, 3/21/19, 3/27/19, 4/2/19 | | | |
| **Brief description of revision** | | (3/4) Edits to IAQM Annex, (3/21) Changes 11-19, (3/25 , Editorial change #20), 4/2 (minor changes to QP , deleted extraneous pseudo code and comments | | | |
| **detailed proposed changes** | | | | | |
| Sections Affected | C.2.2.x, Annex M, Annex N, Annex P, G.1.4, 7.7.x, 7.5.7, 6.4.x, 7.6.2, Annex Q (new) | | | | |
| REQs Affected |  | Test Plans Affected | |  | |

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| **Does this EC request a new TLV or sub-TLV number?** Yes \_\_\_  See embedded change detail for TLV table templates. |
| **Does this EC request a new *or* revised figure or graphic?**  Yes \_\_\_  If yes, attach all graphic files and list those attached files in the table below. NOTE: Graphics submitted are to be editable except for UML diagrams. |

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| other related engineering changes (list all the apply) | | |
| The following EC(s) are recommended to be processed in conjunction with this document: | | |
| **EC#** | **Title of EC** | **Affected Document** |
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| **This Engineering Change has the following file(s) attached.** | |
| **Type of Attachment(s)** (Visio, Word, txt, .yang, etc.) | **File Name of Attachment(s)** |
|  |  |

**NOTE! IMPORTANT EC AUTHOR INSTRUCTIONS:**

**For an ECR to advance to ECO status:**

- Requirements Affected section of the embedded DOCSIS-SpecDetailChange.docx must be completed.

**For an ECO to advance to ECN status:**

- If applicable, compiled MIB files and final Schema docs must be attached before requested changes can move to ECN status and noted as attachments in the table above.

- The **REQ Change Details**  table in the embedded change details document MUST be completed.

**DETAILED DESCRIPTION OF PROBLEM:**

This EC makes various corrections and clarifications to the LLD spec text.

**CHANGE DETAILS FOR THE SPECIFICATION:**

Complete Engineering Change details **for the specification are** contained in the following embedded file:



**CHANGE DETAILS FOR THE TEST PLAN (ATP):**

Complete Engineering Change details **for the test plan are** contained in the following embedded file:



**End of Request**

**Additional Instructions to EC Author**

