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# CI Plus LLP Enhanced Content Protection - Advanced Notice

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CI Plus LLP has been in operation since 2008 and has recently celebrated providing 500 Million device certificates, into an ecosystem of more than 150 Licensees.

Recent technological advances of 4K, High-Dynamic Range and High Frame Rate, enable high quality Ultra High Definition (UHD) Content to be created. Content owners require an increased level of protection for this high quality content, so called Enhanced Content Protection (ECP). MovieLabs requirements are one example of enhanced content protection, that Content Providers may expect (<http://movielabs.com/ngvideo/>).

CI Plus offers content protection through a combination of compliance with the CI Plus Specification and the Compliance & Robustness Rules contained in the CI Plus License Agreement.

In order to adapt to the latest developments in content security and to support the MovieLabs specifications for Next Generation Video and Enhanced Content Protection, CI Plus LLP has defined a new **CI Plus ECP Security Level**, with an updated definition of the Robustness and Compliance rules.

In addition, CI Plus LLP has defined the **CI Plus ECP Specification**, which draws upon the latest ECP related improvements in the DVB Specification (Blue Book A165 Jan 2017) and introduces a dedicated ECP Certificate Chain.

These documents are being provided at this stage to give Licensees advanced notice of the technical requirements to support the CI Plus ECP Security Level.

CI Plus LLP believes that the CI Plus ECP Security Level will satisfy the content industry's requirements to support premium content, that requires ECP. However, the decision to accept this CI Plus ECP Security Level remains at the discretion of individual content owners.

CI Plus LLP will continue to certify products entering the market that implement the existing CI Plus Security Level.

In parallel, CI Plus LLP will provide certification of products choosing to implement the CI Plus ECP Security Level.

Licensees will be able to choose to certify their product for the existing CI Plus Security Level, for the CI Plus ECP Security Level, or both. Please note that products that support both will need to be provisioned with production credentials for both certificate chains.

CI Plus LLP is hereby making publicly available the following:

- The CI Plus ECP Compliance & Robustness Rules as individual Exhibits, that will be part of the future ECP Addendum to the License Agreement:
  - **Exhibit ECP\_B v1.0:** ECP Robustness Rules
  - **Exhibit ECP\_C v1.0:** Additional Compliance Rules for ECP Host Devices
  - **Exhibit ECP\_E v1.0:** URI Mapping Table Extension for ECP
  
- The **CI Plus ECP Specification v1.0**

The figures 1 & 2 below describe the structure of the existing and future ECP documentation sets.

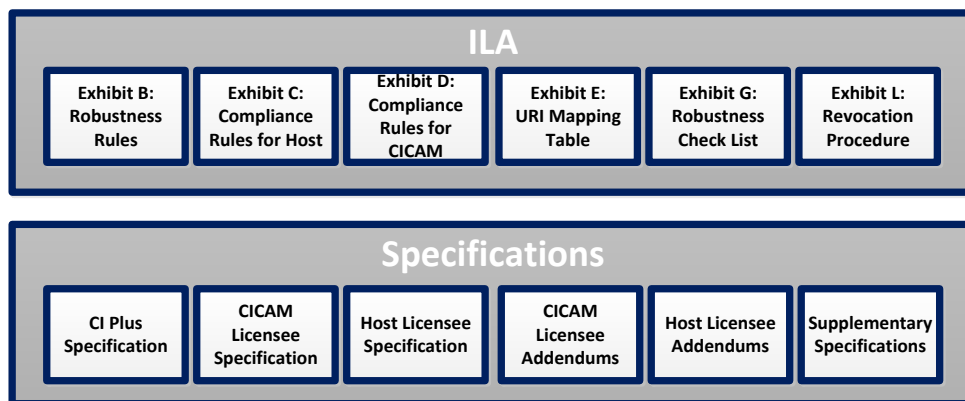
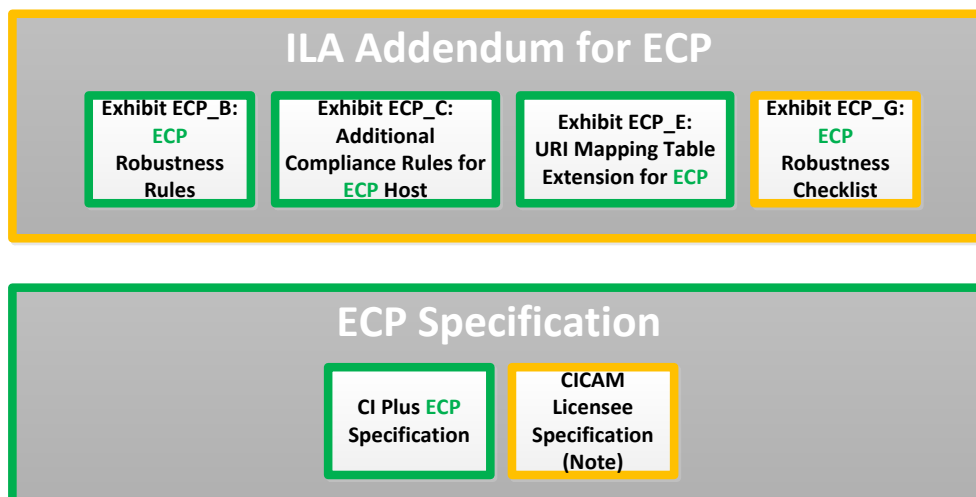


Figure 1: Existing Documentation Set



Available

Not yet available

**Note:** Updated version of the current CICAM Licensee Specification. ECP revocation material signature method will be aligned with the CI Plus ECP Specification

Figure 2: ECP Documentation Set



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The intention is that the **ECP Robustness Checklist** (as an Exhibit of the future ILA Addendum for ECP) will include a list of known attacks against which the Licensed Product should be resilient, in order to satisfy the Robustness Rules.

CI Plus LLP is currently drafting the ILA Addendum for ECP that will include the ECP Exhibits referenced above, as well as the new ECP Robustness Checklist.

**In order to prepare a CI Plus ECP Device, the Licensee will need to comply with:**

- CI Plus ECP Specification
- Host Licensee Specification and Addendum
- CICAM Licensee Specification<sup>#1</sup> and Addendum
- Any relevant Change Notices
- ECP Robustness Rules
- Additional Compliance Rules for ECP
- URI Mapping table Extensions for ECP

All of the above are now available to Licensees, with the exception of the CICAM Licensee Specification<sup>#1</sup> which will be updated to align with the ECP revocation material signature method, which is defined in the CI Plus ECP Specification. This document will be made available to eligible Licensees **within April 2017**.

In order to **test** a CI Plus ECP Device, Licensees will need to sign the ILA Addendum for ECP in order to gain access to the ECP Test Credentials. Licensees will also need access to the ECP Test Tool (licensed through CI Plus LLP approved test centre).

The target is to release the ILA Addendum for ECP in July 2017. CI Plus LLP is working to establish the new ECP testing and registration processes. The availability of ECP Test Tools and ECP Test Credentials will be communicated when the dates are confirmed.

In order to **register** a CI Plus ECP Device, Licensee will need to provide:

- Device Registration Form
- Device Testing Results
- ECP Robustness Checklist

CI Plus LLP is working to prepare for CI Plus ECP Device Registration at the earliest opportunity. The availability of the ECP device registration service will be communicated when the dates are confirmed.

CI Plus LLP will endeavour to keep its licensees informed of its progress towards commencement of CI Plus ECP Device Registration and any updates to the schedule to allow Licensees to plan and prepare their CI Plus ECP products.