



CI+ Consultancy

Explanation of UC-Connect's CI+ Consultancy offer for Receiver Makers and related Technology Suppliers.

Free CI+ White Paper

UC-Connect offers a free white paper on CI+ implementation in Receivers. This paper covers all top level aspects: functional, technical, system design, development process and legal. For your copy please contact via: www.uc-connect.com or for far east: www.skydigita.com

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What is UC-Connect

UC-Connect is a company offering **services** and **consultancy** in the field Consumer Equipment connectivity. It is specialized in **Digital TV, specifications** and **Common Interface Plus**.

Credentials

UC-Connect's founder Marnix Vlot has 10 years experience as Director Digital TV at Philips TV, and has made distinct contributions to DVB-SSU, HD-ready logo, E-Book and CI+, where he was Philips main representative during 2007 and 2008 (incl. launch of the licensing regime and facilitating Philips' CI+ certification).

CI+ Introduction Course

CI Plus is a very successful extension to the DVB Common Interface. It's incorporation in products requires system level understanding in larger groups of engineers, as well as in depth understanding by specialists. It is possible to select specific modules from the course.

Price: €2500 (excl. travel)

8 hours on-site or 4x 2 hours internet course covering:

1) Basic principles	2) Authentication / SAC revocation, shunning
3) System level integration test approaches	4) CI+ Browser PVR, IP MHP extensions

CI+ Security Design

A poor CI+ security implementation can lead to major exposure of manufacturers and their customers under the CI+ licensing contract and country laws, including injunctive relief (block of sales of the product), damage claims (up to 5M Euro), revocation of devices (exclusion from receiving premium content), and suspension of certificate sales. These measures apply even for products that have passed CI+ certification testing. Responsibility and liabilities lie with the manufacturer.

Price: €2500 (active consulting time indicated)

- ⇒ Security functionality checklist and warning flags (based on a description of the client's product features).
- ⇒ Provision of a hardware requirements list for CI+.
- ⇒ Study client's hardware solution (key components, PCB options) and provide design options for hardware and for software that are necessary for a secure CI+ implementation.
- ⇒ Discuss the above with a client's engineers and come to a joint selection of the best options (4 hours max.).
- ⇒ Make a preliminary version of the CI+ robustness checklist with the client (2 hours max.).



CI+ Security Procedures	Price: €3500 (active consulting time indicated)
<p>The CI+ licensing contract stipulates that audits on manufacturer facilities can be conducted in case of evidence of problems. Severe penalties apply, including injunctive relief (block of sales of the product), damage claims (up to 5M Euro), revocation of devices (exclusion from receiving premium content), and suspension of certificate sales. Manufacturers therefore need to provide a proper implementation of security in their design and production environment.</p>	<ul style="list-style-type: none"> ⇒ Security checklist for design environment. ⇒ Explanation / consultancy on interpretation of the above and implementation in the client's environment (2 hours max.). ⇒ Security checklist for production environment. ⇒ Security procedure template + customization to client's requirements (4 hours max.). ⇒ Security infrastructure recommendation or review (4 hours max.).

CI+ Project Plan & Testing	Price: €3000 (active consulting time indicated)
<p>Implementing CI+ requires a number of complex interactions with external parties and there is a need to plan for multiple testing phases and cycles. The impact on the time to market for products can be quite dramatic : ill informed planning typically results more than 4 months delay. This service will help the clients to plan for and efficiently pass all certification and test phases, and launch in target markets.</p>	<ul style="list-style-type: none"> ⇒ List of interactions with CI+ LLP, TC Trustcenter, Digital TV Labs, including client's internal preparation steps. ⇒ Walk through with client's project manager / key technical personnel (3 hours max.). ⇒ Identify (non-standard) solutions for critical path items (3 hours max.). ⇒ List of tests to be conducted on the client's product and other must-do's to prepare it for certification testing and market launch. ⇒ Walkthrough with client's project manager / key technical personnel (3 hours max.). ⇒ Identify alternate approaches for testing to fit with client's requirements. ⇒ Problem solving during process, including contact to European parties on behalf of client (8 hours max.).

CI+ Legal Walkthrough	Price: €800 (active consulting time indicated)
<p>The CI+ Licensing contract is a complex contract. This service will help to assess the contract, the obligations it imposes on the licensee, and the options it allows to implement CI+ in the business of the client. It is recommended that the clients legal council is directly involved in the session. NoteL consultant made a significant contribution to the creation of the contract during 2008.</p>	<p>Two sessions of 2 hours with online internet presentation:</p> <ul style="list-style-type: none"> ⇒ Top level walk though of the contract (1 hour) ⇒ Fee structure (0:30) ⇒ Liabilities and other exposure (1:30) ⇒ Options for implementation (1 hour)

Ad-hoc Consultancy	Price: €950/day
<p>Items that require assistance substantially exceeding the above indicated time can be provided under this service.</p>	<p>Pricing for specific projects can be provided.</p>

