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## Innovatron Patent Licensing Presentation

Innovatron currently markets two patents families:

- Contactless Patents** Disclose technologies used by the *ISO/IEC 14443B standard*, and by other contactless protocols.
- Applicative Patents** Disclose technologies used by the *Calypso specifications for smartcard*, and in other microprocessor smartcard applications.

The **Contactless Patents** are mainly of concern to *chip manufacturers*, since the contactless management is now integrated in their components.

The contactless components being manufactured under license for these patents, *all other manufacturing companies, integrators and users utilizing these contactless components are not concerned by the patents*: they may manufacture, integrate, use the components without knowledge of the patents, without taking any license nor paying any fee for them.

For example, a card embedding company buying these components may freely manufacture and sell cards including these components.

For example, a terminal manufacturer buying these components may freely manufacture and sell readers including these components.

The **Applicative Patents** are related to microprocessor smartcard transactions using the patented technology. They are mainly of concern to microprocessor chip and card manufacturers, and to reader manufacturers using them.

Note that integrators and users utilizing readers and cards manufactured under license do not need to take a license nor pay any fee for them.

For example a system integrator manufacturing terminals from OEM contactless readers, and selling cards bought to a card manufacturer, may freely manufacture and sell terminals and cards.

### About Innovatron.

Innovatron is at the origin of the developments of Smart Card technology since 1974.

Since 1992, a major program of Research & Development in partnership with the RATP and the SNCF has resulted in Innovatron extending the application of the Smart Card technology, enabling its use through a contactless communication interface, particularly suitable for public transport applications.

During this program, Innovatron developed proprietary technology, the subject of many patent applications protecting the investments made, and used in particular in the European remote ticketing projects, called *Icare* and *Calypso*.

The Calypso technology and the international standard ISO 14443 B directly result from the research done by Innovatron.

Innovatron favors a wide deployment of these technologies and offers licenses of various kinds suiting the situations of different licensees, under fair and non-discriminatory conditions.

Besides patents license, Innovatron also offers licenses to access the Calypso specification, masked components and know-how transfer in order to ensure the best compatibility between the products for public transport.

Only manufacturers implementing the Calypso technology need to be licensed. A Calypso product integrator or user (public transport company or authority, parking applications, etc.) do not have to take a license.

If you are a user, you might find the right solution for your needs by contacting other Calypso users. In this case, please contact the Calypso Network Association (<http://www.calypsonet-asso.org>).

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## Q&A

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***I am a card embedding company. I buy contactless ISO 14443 B components and embed them into plastic or paper.***

***Do I need a license from Innovatron for the Contactless Patents?***

No, Innovatron policy is to license the components manufacturers.

***Do I need a license from Innovatron for the Applicative Patents?***

You need to take a license only if you utilize the patents yourself.

For memory or wired-logic cards:

- No (the applicative patents do not apply to memory components).

For microprocessor cards:

- Yes, if you develop or own the card software utilizing the patents (e.g. Calypso cards).
- No, if you embed a component sold with the software (e.g. a Calypso component), because the component supplier must manufacture under license.

***What is the Applicative Patents license cost?***

Various costs exist depending upon the initial fee.

Please consult our web site ([www.innovatron.fr](http://www.innovatron.fr), document *CalypsoLicense*) or contact us.

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***I manufacture readers able to do ISO 14443 contactless communications.***

***Do I need a license from Innovatron for the Contactless Patents?***

No (Innovatron policy is to license the components manufacturers).

Except if you generate the contactless field using discrete components, and manage the contactless protocol yourself.

***Do I need a license from Innovatron for the Applicative Patents?***

Only if you manage transactions with microprocessor smartcards utilizing this technology (e.g. Calypso microprocessor cards).

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***I buy ISO 14443 OEM contactless readers, and I manufacture terminals and other equipments.***

***Do I need a license from Innovatron for the Contactless Patents?***

No.

***Do I need a license from Innovatron for the Applicative Patents?***

For OEM readers manufactured under license (e.g. Calypso readers): No.

For other OEM readers: only if you manage transactions with microprocessor smartcards utilizing this technology (e.g. Calypso microprocessor cards).

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***I buy Calypso readers and integrate them into ticketing systems.***

***Do I need a license from Innovatron for the Contactless Patents?***

No.

***Do I need a license from Innovatron for the Applicative Patents?***

No.

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***I manufacture Calypso readers myself (without integrating a Calypso OEM reader from a licensee).***

***Do I need a license from Innovatron for the Contactless Patents?***

No, Innovatron policy is to license the components manufacturers.

Except if you generate the contactless field using discrete components, and manage the contactless protocol yourself.

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***Do I need a license from Innovatron for the Applicative Patents?***

Yes.

***What is the Applicative Patents license cost?***

Various costs exist depending upon the initial fee.

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***I manage a central system connected to smartcard readers.***

***Do I need a license from Innovatron for the Contactless Patents?***

No.

***Do I need a license from Innovatron for the Applicative Patents?***

Only if the central system manages microprocessor Calypso smartcard transactions, and if the readers are not Calypso licensed readers.

***What are the licenses cost?***

Various costs exist depending upon the number of readers managed.

Please contact us for more information.

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***I am a chip manufacturer and I manufacture contactless components for cards and terminals.***

***Do I need a license from Innovatron for the Contactless Patents?***

Yes.

***Do I need a license from Innovatron for the Applicative Patents?***

Only if the components you manufacture utilize the patented technology.

This is normally not the case for a memory or wired logic component, but may apply to microprocessor based product. Contact us if your are in doubt.

***What are the licenses cost?***

Various costs exist depending upon the initial fee.

Please consult our web site ([www.innovatron.fr](http://www.innovatron.fr), document *IsoPatentsLicense*) or contact us.

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**To contact Innovatron**

Aude Benichou

[licensing@innovatron.fr](mailto:licensing@innovatron.fr)

Innovatron • 1, rue Danton • 75006 Paris • France