

## LEGIC Master-Token System-Control (MTSC)

# Key and Authorization Management



- ✓ Full control and security of your smartcard application
- ✓ Specific assignment of rights to encode smartcards and configure readers
- ✓ Unique and full traceability

## Enabling secure contactless RFID applications

**Worldwide unique, integrated security and authorization management solution, which gives you sovereignty and control over your system. Flexible and adaptable to changing corporate structures and requirements.**

The patented LEGIC Master-Token System Control is the key for secure and easy management of contactless smartcard applications. The Master-Token is the main element of the security concept providing full

control over the system. The possession of a unique and uncopyable physical medium therefore means more security for the owner. The Master-Token System-Control as a security solution allows a flexible and

open use of the LEGIC technology platform.



# Security in your hands

Instead of securing administrative rights in an ID system with volatile passwords, the security with MTSC is linked to a special, physical smartcard, the Master-Token. No personal data is stored on this special smartcard.

The owner has the authority over an installation and preserves his independence. The Master-Token can be stored securely, transferred to trusted people and withdrawn again at any time. Only the Master-Token enables the authoriza-

tion of readers and the creation of identification media and further Sub-Master-Tokens.

## Clear traceability

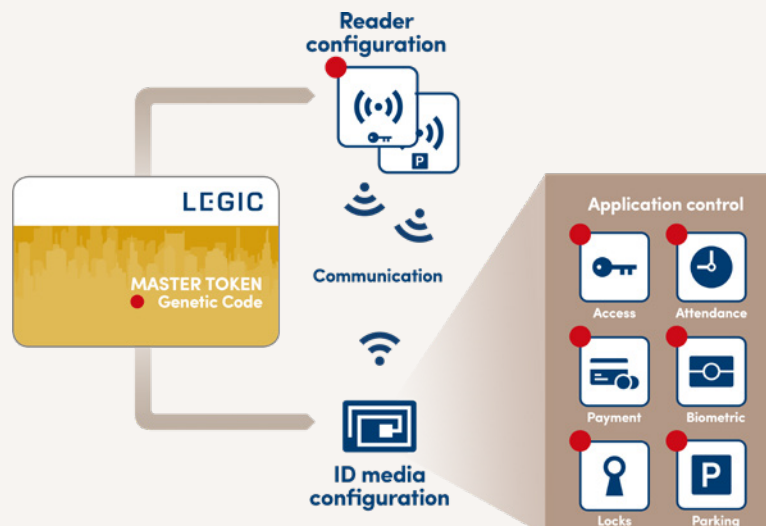
The principle of the Master-Token System-Control corresponds to an evolutionary family tree and allows the administration of different applications. A 'genetic code' makes each organizational unit unique. It serves the purpose of identification and traceability and ensures the se-

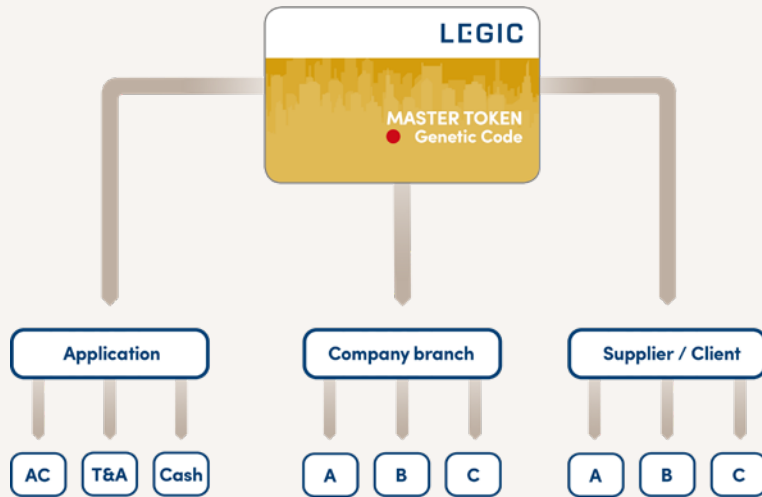
curity of a specific application. The Master-Token is the main element when initializing identification media and transferring authorizations to the reader.

## Flexible Multi-Application

The Master-Token System-Control security solution increases the flexibility and openness of the LEGIC technology platform.

It is, for example possible to combine applications from different providers in one system and to add or remove applications at any time. This keeps the system attractive and secure in the long term.





### Hierarchical rights delegation




The Master-Token System-Control enables the simple and intuitive implementation of authorization hierarchies without the use of data and information in plain text. A Master-Token can be used to generate on so-called Blanks various Sub-Master-Tokens with different genetic codes. These can be specifically allocated to different applications, company branches, suppliers or even customers. If a reader is initialized with a Master-Token of higher hierarchy, it has access to all applications of the corresponding Sub-Master-Tokens.

### Master-Token Zones

The security of a contactless smart-card system mainly depends on the technology used. The unique Master-Token Zone concept takes the technology generation of the medium and the Master-Token into account.

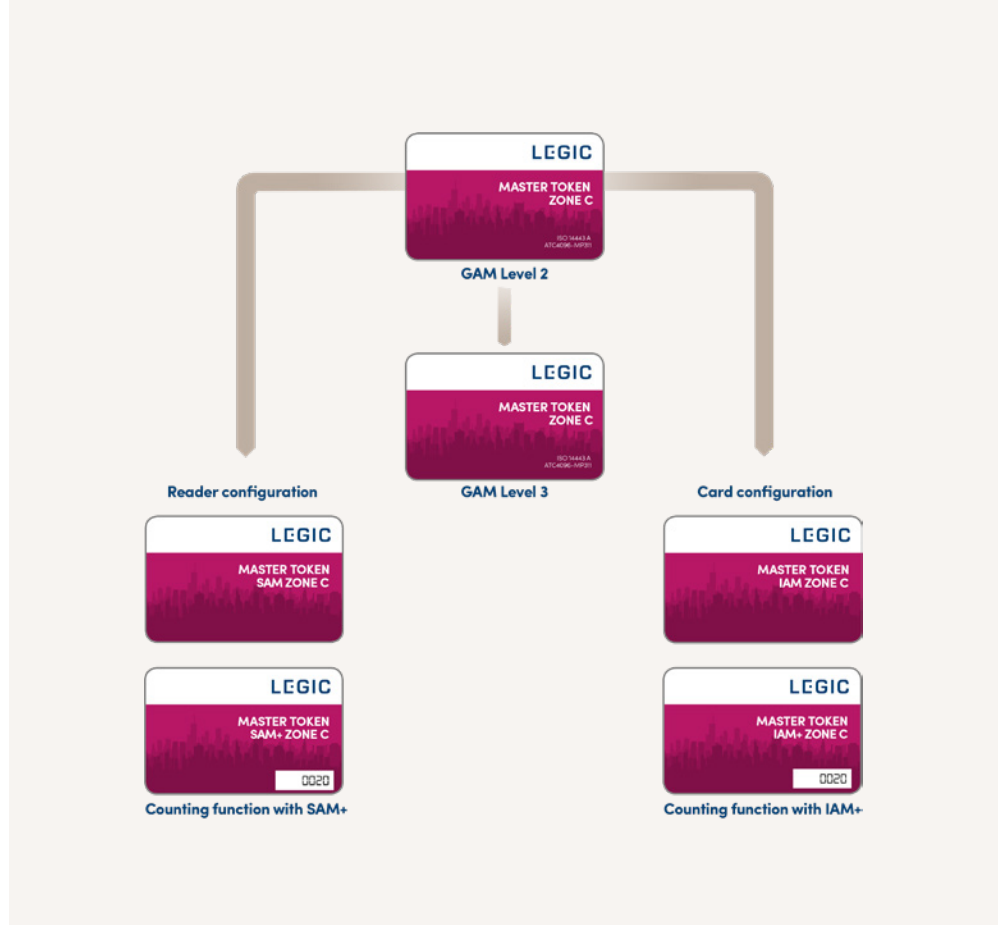
The Zone concept ensures that a Master-Token always corresponds to the security standard of the associated transponder technology and enables therefore a secure, long-term operation of the system. If required, a technology can be selectively deactivated.

The technology generation of the Master-Token is inherited when generating LEGIC segments on ATC256-MV410, ATC1024-MV010, ATC4096-MP311, CTC4096-MP410 / MM410 and AFS4096-JP1x. This enables readers to specifically exclude individual segments based on their technology origin.

	Zone A	Zone B	Zone C
Master-Token			
Smartcards	Older transponders <ul style="list-style-type: none"> <li>ATC1024-MV110</li> <li>MIM1024</li> <li>MIM256</li> </ul>	Newer transponders <ul style="list-style-type: none"> <li>ATC256-MV410</li> <li>ATC1024-MV010</li> <li>ATC4096-MP311</li> <li>ATC4096-MP312</li> <li>CTC4096-MP410/MM410</li> <li>AFS4096-JP1x</li> </ul>	
Zone origin	No	Yes	

## Advantages of the Master-Token System-Control

- Simple and secure assignment of rights to subsidiaries, partners and suppliers
- Free combination and administration of applications
- Applications can be added or removed at any time in the field
- Standardized applications ensure interoperability and independence from suppliers
- Simple and intuitive implementation of authorization hierarchies without using data in plain text
- Multiple, independently manageable applications on one card



## Delivery

The LEGIC Master-Token System-Control is available in different versions.

- Master-Token GAM, Zone A
- Master-Token GAM, Zone B, incl. 50 Blanks (AFS4096-JP11)
- Master-Token GAM, Zone C, incl. 50 Blanks (ATC4096-MP311)

## Specification

LEGIC MTSC – Authorization Media		
	Type	Main purpose
GAM	General Authorization Medium	Authorization to initialize new Sub-Master-Tokens
SAM	System Authorization Medium	Transfer read / write authorization to the readers
SAM+	System Authorization Medium plus	Limited number of reader initializations (with counting function)
IAM	Identification Authorization Medium	Authorization to initialize and delete segments on a LEGIC advant or prime smartcard
IAM+	Identification Authorization Medium plus	Limited number of segment initializations (with counting function)
XAM	Extended Authorization Medium	Authorization to initialize and delete segments on a LEGIC smartcard *

\* Permanent storage in EEPROM