



Italian Defence General Staff

**GENERAL PRESENTATION
OF**

IT-MOD Multiservice Card (CMD)

Briefer: Gen. B. LEONI

Col. FATTORINI



Multiservice Defence Card (CMD)

Italian Defence General Staff

Object:

- The IT-MOD Multiservice Card project

Agenda:

- 1. Project start and motivations
- 2. Basic requirements
- 3. Card general description
- 4. Card functions and available services
- 5. Issuing facilities and architecture
- 6. Future developments
- 7. Q&A session



Multiservice Defence Card (CMD)

Project start and motivations

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The initial project, named "Milcard", started in year 2000, with a limited extent to the Italian Army.

Its main goal was to collect and store (also) on a smart card the health information of every soldier operative in the balcanic area.



As a secondary goal, the card was used in order to securely identify the personnel accessing the central databank.



Central Data Bank





Multiservice Defence Card (CMD)

Card requirements

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- Support digital certificates for legally valid digital signature, strong authentication and data encyphering;
Become the new electronic ID document of the Defence personnel;
Contain the health data of the IT-MOD employee (emergency card);
Contain two fingerprint templates (right and left hand);
- Be interoperable with the other relevant electronic ID documents used in Italy (Electronic ID Card (CIE), National Service Card (CNS))
- Be interoperable with international standards for the health data structure (NETLINK standard adopted).



Multiservice Defence Card (CMD)

Card requirements

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pre-Personalization on behalf of the "Istituto Poligrafico Zecca dello Stato" (Official Production Plant of the Italian Government)



IT-MOD Multiservice Card (CMD)

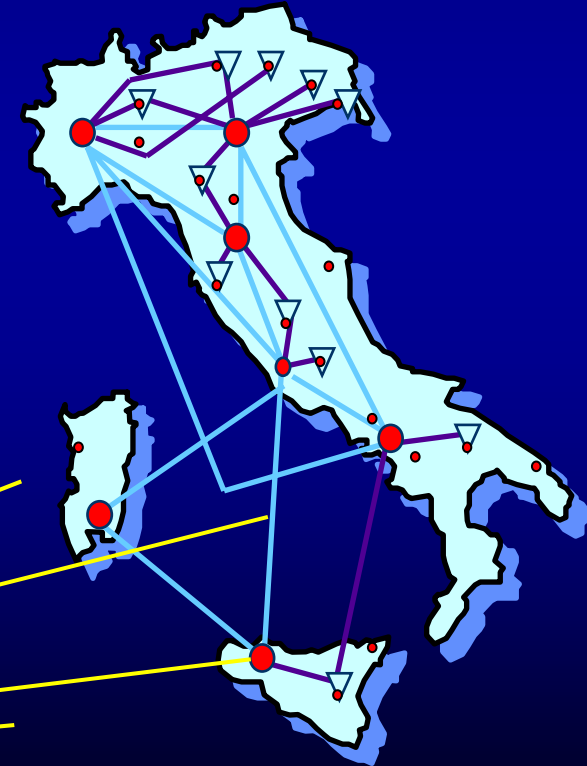
Card general description

Italian Defence General Staff

Central Data Bank of the IT-MOD



Central Data Bank





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IT-MOD Multiservice Card (CMD)

Card general description

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(Health data management module)

Milcard SottoSistema Sanità Utente connesso : # ORIANA #

File Visita Medica/Ricovero Archivi Stampa Report Report Statistici Funzioni Allineamento System Administrator Finestre ?

Scheda Informativa

DATI ANAGRAFICI

CODICE FISCALE	MATRICOLA	COGNOME	NOME	STATO CIVILE1	STATO CIVILE2	CODICE RELIGIONE1	CODICE TITOLO STUDIO1	CODICE TITOLO STUDIO2
LPUGCR69B10F1580		LUPO	GIANCARLO	CELIBE/NUBILE	CELIB/NUBI		LAUREA IN SCIENZE DELL'INFORMATICA	

GRUPPO SANGUIGNO

Gruppo: **A** Fattore RH: **-** Data Rilevazione: **01/01/2001**

Trasfusioni Pregresse: Sì No

Reazione alla Trasfusione: Sì No

ULTIMA VISITA Data: **25/11/2002**

ALLERGIE / INTOLLERANZE / PATOLOGIE PREGRESSE

CODICE PATOLOGIA1	CODICE PATOLOGIA2	DATA DIAGNOSI	IN ATTO
078.4	AFTA EPIZOOTICA	25/11/2002	S
542	ALTRE FORME DI APP	25/11/2002	S
556.8	ALTRA COLITE ULCER	25/11/2002	S
772.8	ALTRA EMORRAGIA S	15/10/2002	S

STATO VACCINALE

CODICE VACCINAZIONE1	CODICE VACCINAZIONE2	CODICE STATO VACCINALE1	CODICE STATO VACCINALE2
EPAA	ANTI EPATITE A	CB1	CIC1
INFL	ANTI INFLUENZALE	CB1	CIC1

INTERVENTI CHIRURGICI

CODICE TERAPIA	TIPOTERAPIA	DESCRIZIONE BREVE	DATA INTERVENTO	CODICE
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TERAPIA IN CORSO

CODICE TERAPIA1	CODICE TERAPIA2	SPECIALITA	CODICE DOSAGGI1	CODICE DOSAGGI2
LASER	LASER TERAPIA	22994040	00011	AL MATTINO
RAD	RADIOTERAPIA			

INDICAZIONI PER LO SGOMBERO / DIAGNOSI INVIO

AUTOAMBULANZA

INVIO A VISITA

ACCERTAMENTI

Consultazione dati su DB Centrale

Precedenti PATOLOGIE | Terapie Effettuate | Stato Vaccinale | Precedenti Visite / Ricoveri | Accertamenti (ALTERATI)

Lista Patologie Riscoperte

COGNOME	NOME	CLASSE PATOLOGIA	TIPO PATOLOGIA	DATA DIAGNOSI	IN ATTO
LUPO	GIANCARLO	MALATTIE DELL'APPARATO DIGESTIVO	ALTRE FORME DI APPENDICITE	25/11/2002	S
LUPO	GIANCARLO	MALATTIE INFETTIVE	AFTA EPIZOOTICA	25/11/2002	S

Nuova Visita Medica | Precedenti Visite | Nuova Vaccinazione | Stampa Scheda Informativa | Reazione Trasfusione | Persone da Contattare | Inserisci Gruppo Sanguigno | Inserisci Invio a visita / Sgombero | Esci

Smart Card Inserita di LPUGCR69B10F1580 | CAPS | 25/11/2002 | SCRL

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IT-MOD Multiservice Card

Card general description

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Operative zone



First aid

Reading of health data,
injured man stabilization



Update

The CMD is updated with all
relevant information for
leaving the operation theatre



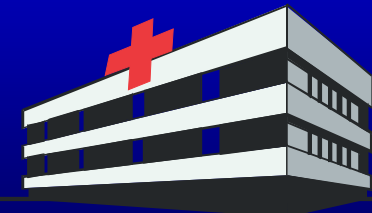
Injured man data trasmission



Evacuation modalities



Information for the
Hospital





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IT-MOD Multiservice Card (CMD)

Card functions and available services

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CMD can be used for:

- Access control



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Card functions and available services

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CMD can be used for:

- Access control
- Digital signature





IT-MOD Multiservice Card (CMD)

Card functions and available services

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CMD can be used for:

- Access control
- Digital signature
- Access to restricted areas





IT-MOD Multiservice Card (CMD)

Card functions and available services

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CMD can be used for:

- Access control
- Digital signature
- Access to restricted areas
- Fuel card





IT-MOD Multiservice Card (CMD)

Card functions and available services

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CMD can be used for:

- Access control
- Digital signature
- Access to restricted areas
- Fuel card
- Central data bank access





IT-MOD Multiservice Card (CMD)

Card functions and available services

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CMD can be used for:

- Access control
- Digital signature
- Access to restricted areas
- Fuel card
- Central data bank access
- Weapon retrieval





IT-MOD Multiservice Card (CMD)

Card functions and available services

Italian Defence General Staff

CMD can be used for:

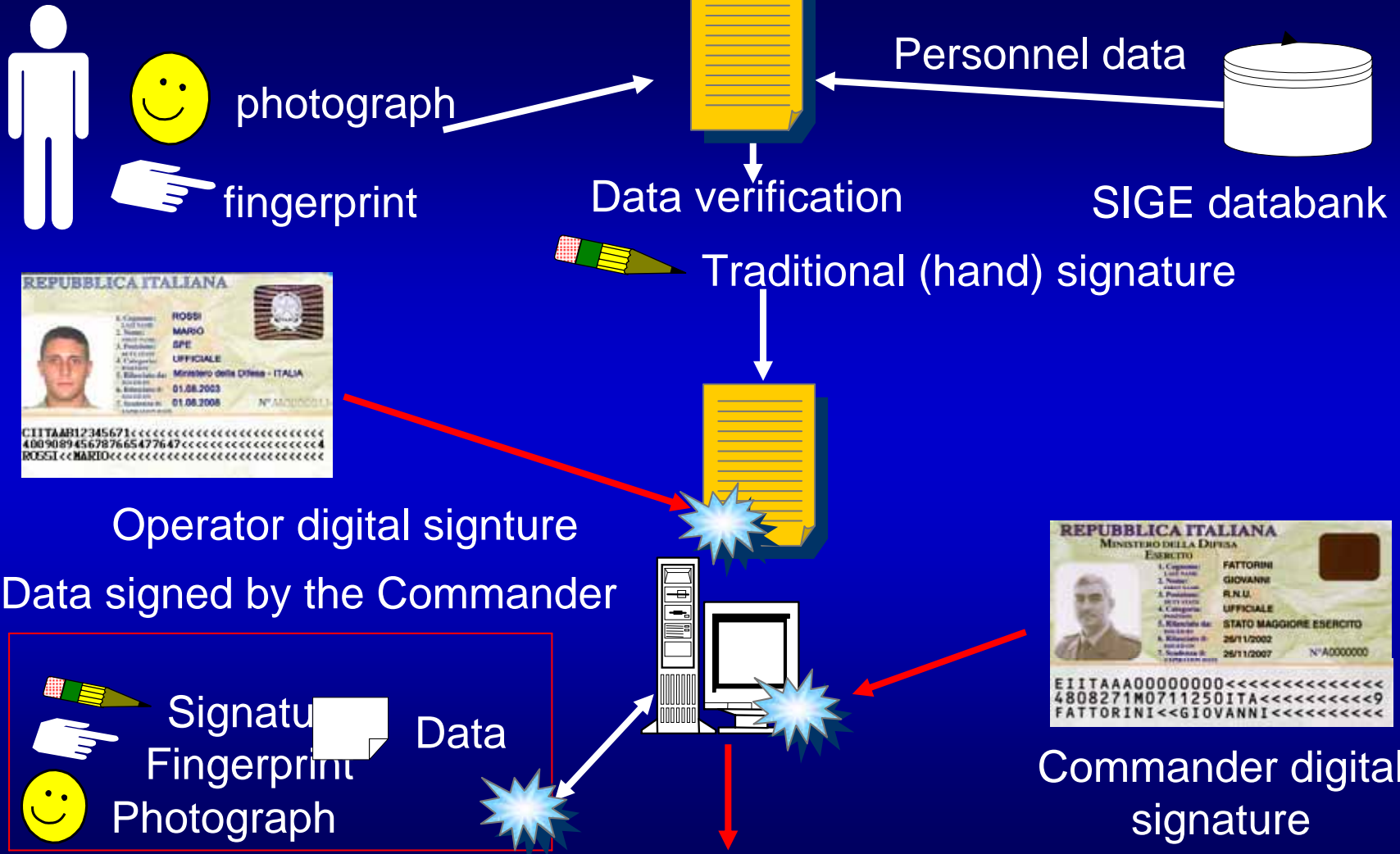
- Access control
- Digital signature
- Access to restricted areas
- Fuel card
- Central data bank access
- Weapon retrieval
- Cantine access and services





IT-MOD Multiservice Card

Issuing facilities and architecture





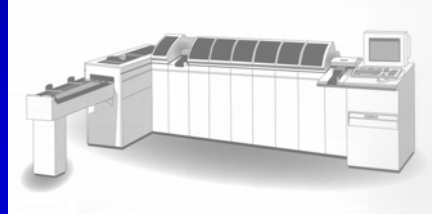
IT-MOD Multiservice Card (CMD)

Issuing Infrastructure of the "Card Management"

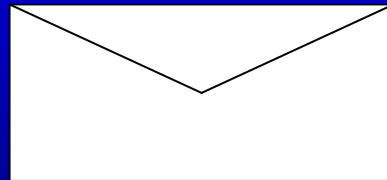
Data signed by the Commander

Signature
Fingerprint
Photograph

Data



Card Management System



CMD PIN



CMD





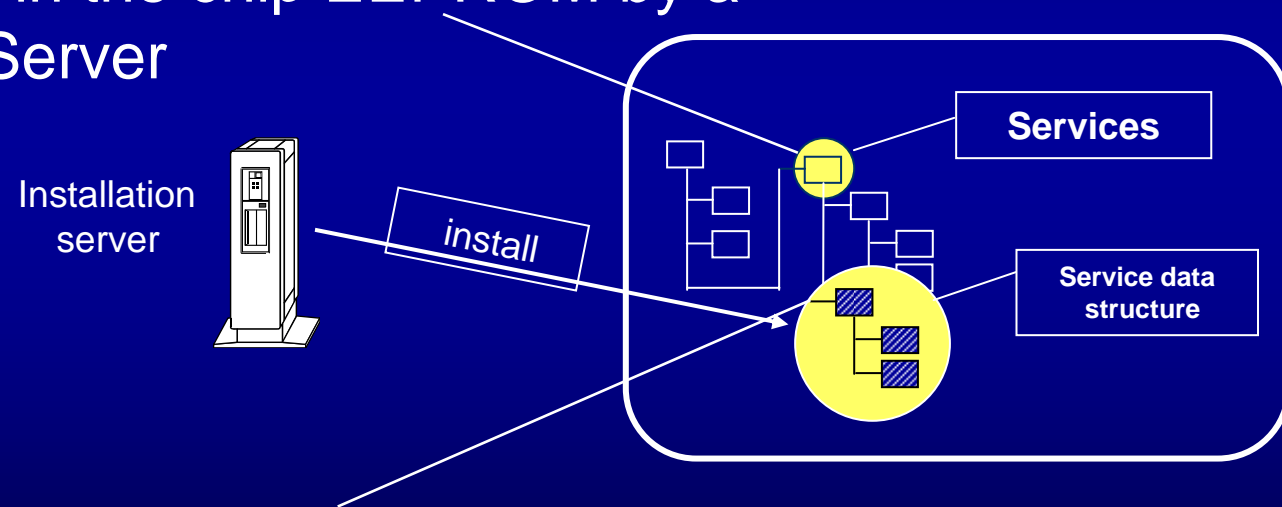
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Future developments

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Card is open to host new services in the future

Additional data structure for future services can be installed in the chip EEPROM by a special secure Server



Within this data structure, under special security conditions, it is allowed to load new services



IT-MOD Multiservice Card (CMD)

Future developments

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Health check-up databank





Multiservice Defence Card (CMD)

Future developments

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Telemedicine



Optimization of the use of medical personnel
Remote use of complex medical equipments



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Summary

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Questions ?

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