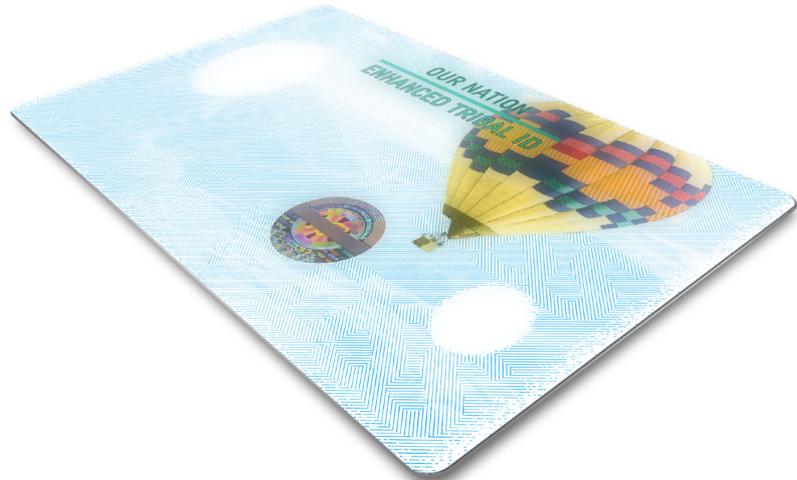


# ETC SOLUTION



LET US HELP YOU ON YOUR COMPLIANCE JOURNEY. FROM CARD DESIGN TO CARD PRODUCTION, WE'LL GUIDE YOU THROUGH VARIOUS MILESTONES AND CROSS THE FINISH LINE TOGETHER.



**ENHANCED**  
TRIBALCARD.COM

# WHO WE ARE ?

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CAULASTICS BEGAN AS A FAMILY-RUN SOLE PROPRIETORSHIP IN 1960 UNDER THE NAME OF CAULLEY'S CREATIVE LITHO SERVICE. ALTHOUGH WE HAVE GROWN IN SIZE, WE REMAIN A FAMILY ORIENTED COMPANY WITH OVER 60 YEARS OF COMBINED EXPERIENCED IN THE CARD IDENTIFICATION MARKETSPACE. FORMERLY KNOWN AS DSS PLASTICS GROUP, WE NOW PROUDLY OPERATE AS P3, A DIVISION OF BRISTOL ID TECHNOLOGIES AND HAVE JOINED OUR TEAM'S TALENTS AND TECHNOLOGY WITH THE MOST ADVANCED PARTNERS IN OUR INDUSTRY. THIS EXCITING SHIFT HAS ALLOWED US TO PROVIDE STATE OF THE ART IDENTIFICATION TECHNOLOGY FOR TRIBES ACROSS THE CONTIGUOUS UNITED STATES. FROM OUR COMMUNITY TO YOURS, WE LOOK FORWARD TO HELPING YOU FIND THE BEST SOLUTION IN ENHANCED IDENTIFICATION.

OUR HISTORY WITH RFID CARD MANUFACTURING DATES BACK

TO THE EARLY 2000'S WHEN CAULASTICS WAS BUILDING CUSTOM PROX CARDS FOR HID'S HIGH-END ACCOUNTS. TODAY, WE HAVE THE CAPABILITIES TO MANUFACTURE STANDARD OR CUSTOM LF, HF, UHF AND COMBO RFID CARDS.

IN 2009, P3 BEGAN WORKING ON THE FIRST ETC CARD PROJECT IN THE UNITED STATES. AFTER A YEAR OF TESTING AND R&D, WE SUCCESSFULLY LAUNCHED THE PASCUA YACQUI TRIBE'S SECURE CARD. SINCE, WE HAVE PRODUCED ALL KNOWN ETC'S IN CIRCULATION.

YOU ARE IN GOOD HANDS.

YOUR ETC  
JOURNEY  
WITH  
US

A solid orange triangle is located in the bottom right corner of the page, pointing towards the top right.



# CARD DESIGN TO MEET AAMVA STANDARDS



— SCAN THE QR CODE TO VIEW THE 2020 AAMVA CARD DESIGN STANDARD

## PROCESS

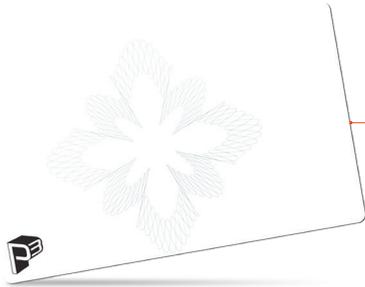
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UPON RECEIPT OF PO, YOU WILL BE SEND A KICK-OFF LETTER THAT INSTRUCTS ON PROCESS, ESTABLISHES POC'S AND DETERMINES HOW APPROVALS WILL BE HANDLED. WE WILL THEN MOVES ONTO TO ACQUIR-

ING ARTWORK, LOGOS AND MEANINGFUL IMAGERY TO CREATE AN ARTBOARD BY WHICH INSPIRATION WILL COME FROM FOR THE ETC DESIGN.YOU WILL BE SENT MULTIPLE RENDERINGS IN DIFFERENT DIRECTIONS SO

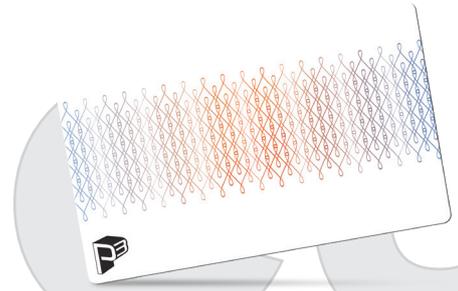
YOUR TEAM CAN DICATE THE DIRECTION. OUR JOB IS SIMPLY TO SECURE THE CARD TO EXCEED STANDARDS SO THE DESIGN REMAINS IN PLACE FOR YEARS TO COME!





## GUILLOCHE

THIN FINE LINE PATTERN THAT CANNOT BE PRINTED VIA DESKTOP RIBBON PRINTERS. THESE PATTERNS ARE CUSTOM GENERATED FOR YOUR ETC AND NOT DUPLICATED IN SUBSEQUENT DESIGNS AND PRINTED IN PMS COLORS.



## LINE PRINTING

CONVERTING AN IMAGE TO PRINT IN LINES MAKES COUNTERFEITING DIFFICULT AS MOST ALL IMAGES PRINT IN DOTS. DONE IN PMS COLORS, THE IMAGE TENDS TO DISTORT WHEN SCANNED.



## SPLIT FOUNTAIN

A SINGULAR IMAGE OR PATTERN PRINTED ON ONE PLATE BUT USING TWO INKS THAT BLEND TO FORM A THIRD COLOR. UNIQUE TO A VERY FEW CARD PLANTS WORLDWIDE.

## NUMISMATIC PRINTING

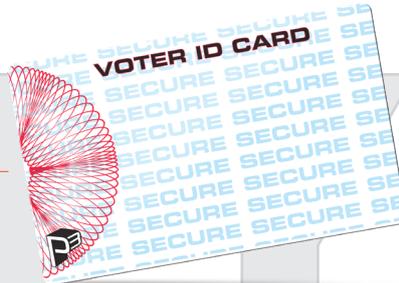
IMAGES ARE BLENDED INTO AN EXISTING LINE PATTERN. THE LINES BEND AND BREAK TO FORM THE IMAGE DESIRED. CURRENCY LEVEL DESIGN AND PRINT.



**SECURE**  
**CARD DESIGNS**  
Meet or exceed AAMVA standards!

## INVISIBLE INK

INVISIBLE INK AVAILABLE IN 3 COLORS (BLUE, YELLOW/GREEN OR RED). WE CAN OFTEN CUSTOM MIX COLORS AS WELL. MOST ETC'S CONTAIN UV TO UTILIZE EXISTING TSA CARD AUTHENTICATION TECHNIQUES.



## LASER ENGRAVING

PERMANENTLY ALTERING THE CARD BODY BY LASER ENGRAVING INTO THE POLYCARBONATE CARD MATERIAL. THE MOST SECURE PROCESS FOR IMAGING VARIABLE DATA AND COMPLIANT WITH REAL ID.



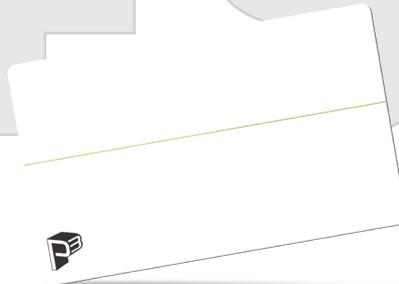
## IR INKS

INFRARED INKS, PRINTED AS NORMAL LITHO INKS, THAT DISAPPEAR WHEN VIEWED IN THE IR SPECTRUM. MOST BORDER CROSSING CHECK POINTS HAVE IR CARD READERS TO AUTHENTICATE THIS FEATURE.



## MICROFINE

TEXT PRINTED IN 1PT FRONT, OFTEN IN PMS COLORS. DESKTOP RIBBON PRINTERS CANNOT REGISTER AND IMAGE TEXT THAT SMALL SO THIS FEATURE DEFEATS THE DESKTOP PRINTING PROCESS.



# REAL ID

May

3

## DEADLINE

May 3, 2023

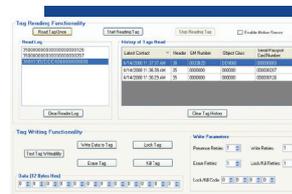


# TEST CARDS

THREE TESTS ARE REQUIRED

## ◆ TESTS

- RFID SENSITIVITY
- RFID PROGRAMMING
- MRZ ENGRAVING



P3 ALSO PROVIDES SOFTWARE AND HARDWARE FOR THE RFID PROGRAMMING REQUIREMENT IN CARD ISSUANCE →

# RFID SOFTWARE AND HARDWARE

| MemberID | FName | MName  | LName   | Address1 |
|----------|-------|--------|---------|----------|
| 1        | Kevin | George | Beriaso |          |

## SOFTWARE

THE PURPOSE OF THE ENHANCED TRIBAL CARD PROGRAMMING SYSTEM IS TO CORRECTLY ENCODE RFID ENABLED ENHANCED TRIBAL IDENTIFICATION CARDS (ETC) THAT FOLLOW THE GS1 GLOBAL DOCUMENT TYPE IDENTIFIER SPECIFICATION AS OUTLINED BY THE U.S. CBP. THE SOFTWARE WILL STREAMLINE THE CARD PROGRAMMING PROCESS SUCH THAT IS COMPLIES WITH CURRENT U.S. DEPARTMENT OF HOMELAND SECURITY REQUIREMENTS AND RECOMMENDED PROCEDURES SUCH AS THE RFID CARD FORMAT USE OF THE EPCGLOBAL STANDARD 'GLOBAL DOCUMENT TYPE IDENTIFIER' (GDTI-96) TAG DATA FORMAT FOR CBP ACCEPTED TRAVEL DOCUMENTS, DOCUMENT NUMBER 2600006-RFID CARD FORMAT V1.5



## HARDWARE

AT THIS TIME, THE ETCP SYSTEM SOFTWARE HAS BEEN DEVELOPED AROUND SENS<sup>THYS</sup>' RFID READER SOFTWARE DEVELOPMENT KIT (SDK) AND FAMILY OF READERS. THIS READER WAS SELECTED DUE TO THE SMALL FORM-FACTOR AND EASE OF INSTALLATION (JUST PLUG IN THE POWER SUPPLY, NETWORK CABLE, AND LOAD THE SOFTWARE). SENS<sup>THYS</sup>' HAND-HELD READERS ARE NOT SUPPORTED AS OF THIS VERSION OF THE SPECIFICATION.

# ▶ GS1 CERTIFICATE

## GLOBAL DOCUMENT TYPE IDENTIFIER

X X (X)\* X X X (X)

**GS1 Prefix**  
assigned by  
GS1 Global Office

\* the length can  
be 2 or 3

**Company number**  
assigned by GS1  
Member Organization

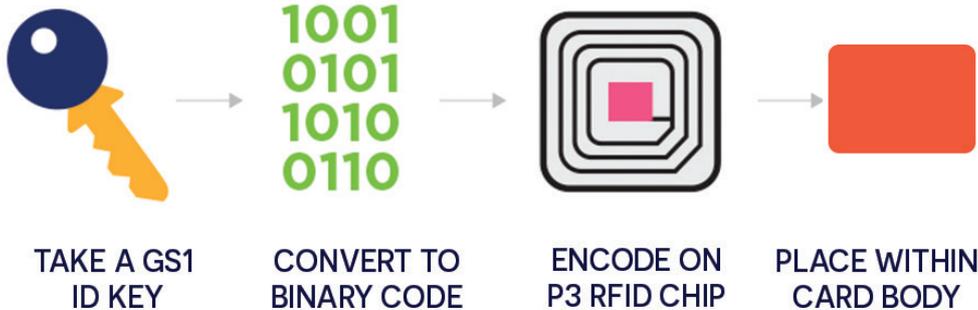
### WHAT IS THIS?

THE GS1 COMPANY PREFIX IS USED EXCLUSIVELY WITHIN GS1 IDENTIFICATION STANDARDS THAT MAY BE EXPRESSED IN GS1 APPROVED BARCODE APPLICATIONS, IN GS1 EDI MESSAGES, FOR GLOBAL DATA SYNCHRONISATION, NETWORK REGISTRATION, AND IN EPC TAGS WITHIN THE HEADER VALUES RESERVED FOR THE GS1 SYSTEM. THE GS1 PREFIX IS A UNIQUE STRING OF TWO OR MORE DIGITS, ISSUED BY THE GS1 GLOBAL OFFICE, AND ALLOCATED TO GS1 MEMBER ORGANISATIONS TO ISSUE GS1 COMPANY PREFIXES OR ALLOCATED TO OTHER SPECIFIC AREAS. THE MAIN PURPOSE OF THE GS1 PREFIX IS TO ALLOW DECENTRALISATION OF THE ADMINISTRATION OF IDENTIFICATION NUMBERS.

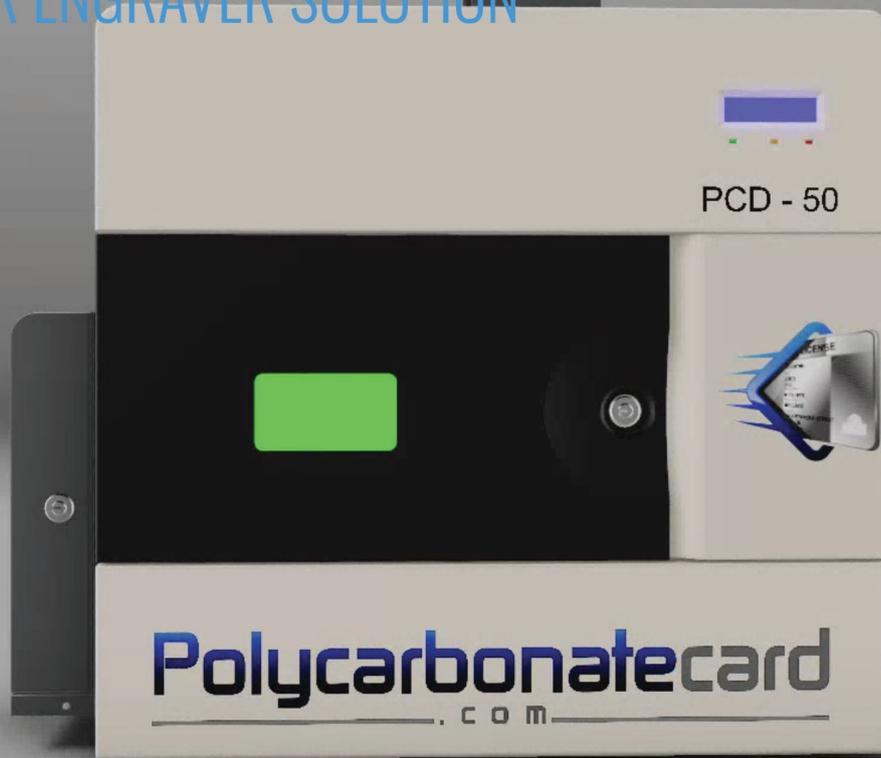
THE ETC WILL BE PROGRAMMED WITH YOUR SPECIFIC GS1 PREFIX THAT POINTS TO VALID CARD HOLDERS. WHILE WE DO NOT ASSIST IN THIS PROCESS, IT IS REQUIRED.

# GS1 VISUAL

P3 DOES NOT ASSIST IN THIS PART OF COMPLIANCE. OFTEN, THIS STEP MAY REQUIRE A RESOLUTION TO BE PASSED THROUGH CONGRESS DUE TO FIRM REQUIREMENTS. YOU WILL WANT TO TACKLE THIS COMPONENT RIGHT AWAY AS YOU CANNOT PERFORM THE RFID PROGRAMMING TEST UNTIL THE GS1 PREFIX IS ISSUED AND PROGRAMMED ONTO THE P3 SUPPLIED TEST CARDS. WITHIN THE RFID SOFTWARE, THE GS1 PREFIX IS HARD-CODED TO ELIMINATE REDUNDANCY.



# DESKTOP LASER ENGRAVER SOLUTION



VARIABLE DATA SOLUTION / REAL ID COMPLIANT

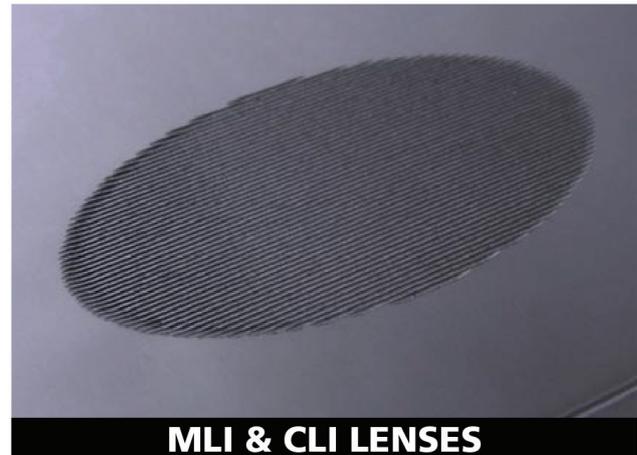


## MLI

DURING THE LAMINATION PROCESS, THE VARIOUS CARD LAYERS ARE BONDED UNDER HEAT AND PRESSURE. WHILE THIS IS OCCURRING, P3 CAN ALSO ADD THE MULTIPLE LASER IMAGE (MLI) SECURITY FEATURE INTO THE CARD BODY. WITH MLI YOU HAVE YOUR OWN HOLOGRAPHIC TYPE IMAGE, UNIQUE TO EACH CARD HOLDER, BUILT INTO THE SURFACE. OFTEN, THE CARD HOLDER FACE AND NAME IS PUT INTO THE LENS VIA THE PCD-50 ENGRAVER.

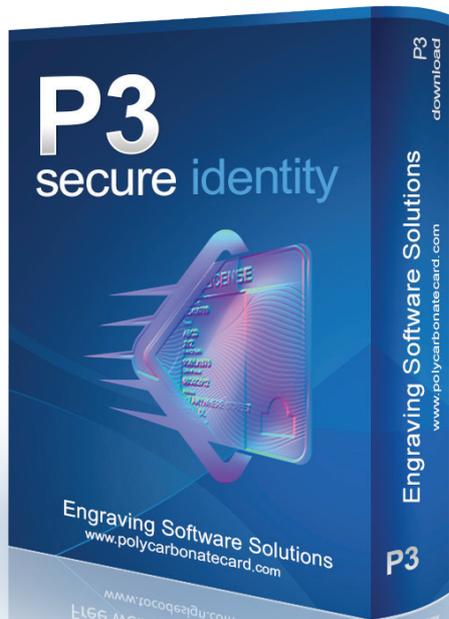
## POLYCARBONATE

PC IS UNBREAKABLE GLASS THAT FORMS A MONOLITHIC LAYER (FORMS ONE SOLID PIECE) WHEN LAMINATED. UNLIKE COMPOSITE CARDS THAT USE HEAT-ACTIVATED GLUE, PC CARDS OFTEN CARRY A LONGER LIFE SPAN. DUE TO ITS GLASS-LIKE PROPERTIES, ENGRAVING MUST BE DONE USING PC. THE BOND OF ALL LAYERS IS REQUIRED AND THEREFORE MUST USE LINES RATHER THAN SOLID INK IN THE DESIGN,



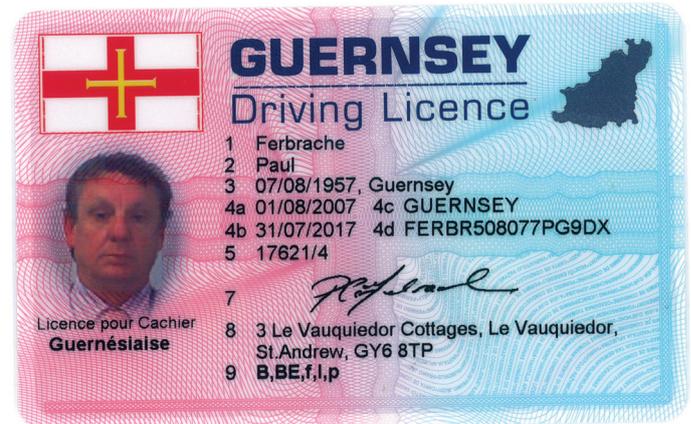
**MLI & CLI LENSES**

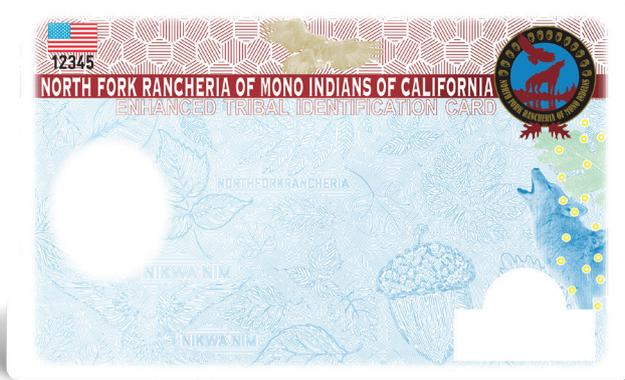
**Plate**



## VARIABLE DATA SOFTWARE

OUR SOFTWARE IMPORTS THE VARIABLE FROM YOUR DATABASES. ENGRAVING PHOTOS, ELIMINATING GREEN SCREENS, TACTILE SIGNATURES, ADDRESS, ETC. THE SOFTWARE ALSO CONTAINS A MRZ MODULE FOR THAT ASPECT OF TESTING AND ULTIMATELY ISSUING ETC'S. THE ENGRAVER REQUIRES THE PURCHASE AND INSTALLATION OF THIS SOFTWARE.





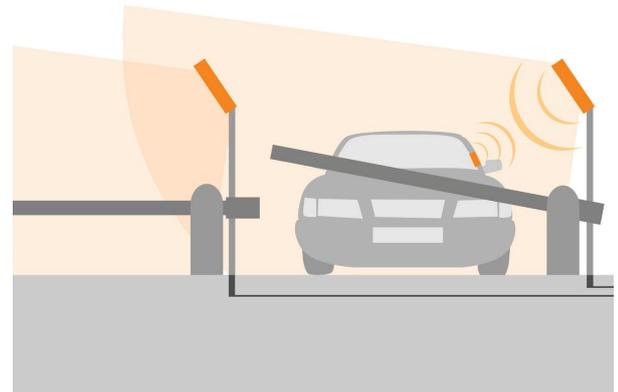
## PASSIVE APPROACH

WE DO NOT BELIEVE IN A ONE SIZE FITS ALL APPROACH TOWARD COMPLIANCE. YOU MAY SIMPLY WANT PORTIONS OF OUR SOLUTION AND THAT IS JUST FINE. IF WE DO NOT KNOW THE ANSWERS, WE'LL EITHER DIRECT YOU TO RESCOURCES OR FIND THEM.

REFERENCES AVAILABLE UPON REQUEST.

## CARD PRODUCTION

THE FINISH LINE! AFTER ALL STEPS ARE COMPLETE, WE'LL ORDER THE MATERIALS AND INKS AND HEAD TO PRODUCTION AT OUR LIMA, NY PLANT. YOU WILL RECEIVE ETC'S READY FOR ENGRAVING, BUILT WITH THE SECURITY FEATURES YOU'VE CHOSED AND BE 100% READY TO START YOUR ETC JOURNEY.





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**Polycarbonatecard**  
com

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