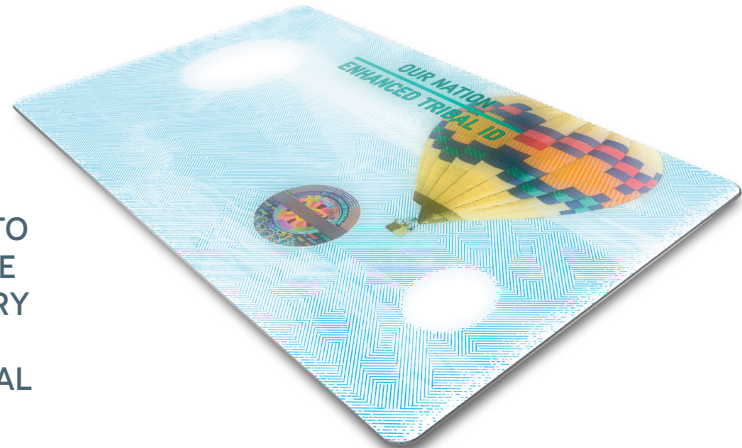


# ENHANCED TRIBAL CARD SOLUTIONS



JOIN US TO STREAMLINE YOUR COMPLIANCE ENDEAVOR. FROM CONCEPTUALIZING CARD DESIGNS TO OVERSEEING THEIR PRODUCTION, WE WILL NAVIGATE YOU THROUGH EVERY CRUCIAL PHASE, ENSURING YOU SUCCESSFULLY REACH THE END GOAL OF AN APPROVED TRIBAL CARD.



# YOUR ETC JOURNEY: THE ROAD AHEAD

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THE ETC PROGRAM WAS DESIGNED TO STRENGTHEN AND ADVANCE THE SAFETY AND SECURITY OF YOUR TRIBE MEMBERS TO PREVENT IDENTITY THEFT, HELP FACILITATE BORDER CROSSINGS, AND DEVELOP BEST PRACTICES FOR TRIBES HAVE BEEN CAREFULLY CRAFTED BY OUR EXPERT TEAM—A LEADER IN DEVELOPING EFFECTIVE DESIGN, SOFTWARE, AND HARDWARE SOLUTIONS.



## WHERE TO BEGIN:

PRINTING A COMPLIANT ENHANCED TRIBAL CARD IS THE LAST STEP IN A LONG JOURNEY. COMPLETE THESE STEPS BEFORE YOU PLAN PRODUCTION OF YOUR CARDS.

- REQUIREMENT COMPREHENSION
- APPROVED FUNDING & RESOURCES
- MEMORANDUM OF AGREEMENT
- CARD DESIGN
- TESTING

# YOUR ETC JOURNEY: AN EXPERIENCED PARTNER

SINCE 2009, WE HAVE PRODUCED ALL KNOWN ETC'S IN CIRCULATION.

P3 IS THE ONLY DESIGN AND MANUFACTURING PARTNER DELIVERING SOPHISTICATED ON-DEMAND SERVICES THAT EMPOWER TRIBES TO ACHIEVE OR EXCEED COMPLIANCE REQUIREMENTS WHILE MAINTAINING FULL CONTROL OVER PROJECT DECISION-MAKING AND EXECUTION.



YOUR PACE. YOUR TERMS. OUR PROCESS.

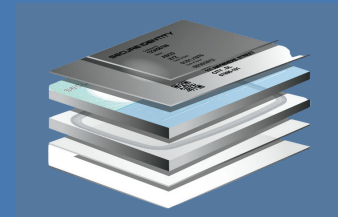
## WHERE WE COME IN



DESIGN



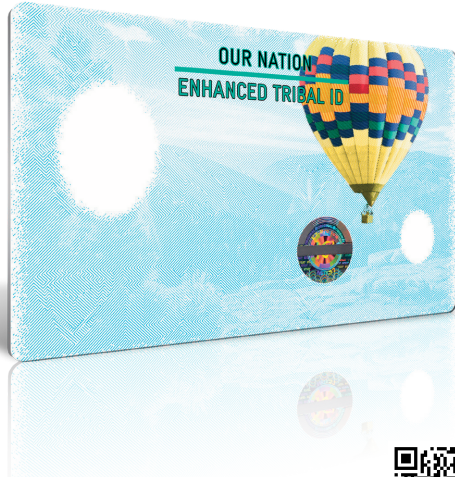
TESTING



PRODUCTION

# CARD DESIGN TO MEET AAMVA STANDARDS

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



## OUR DESIGN PROCESS

UPON RECEIPT OF PO, YOU WILL BE SENT A KICKOFF LETTER THAT OUTLINES THE PROCESS, ESTABLISHES POC'S AND DETERMINES HOW APPROVALS WILL BE HANDLED. WE WILL THEN MOVE ON TO ACQUIRING ARTWORK, LOGOS, AND MEANINGFUL IMAGERY TO CREATE AN ARTBOARD FROM WHICH INSPIRATION WILL COME FOR THE ETC DESIGN. YOU WILL RECEIVE MULTIPLE UNIQUE RENDERINGS SO YOUR TEAM CAN DICTATE THE DIRECTION. OUR JOB IS SIMPLY TO ENHANCE THE CARD'S SECURITY TO EXCEED STANDARDS, ENSURING THAT THE DESIGN REMAINS IN PLACE FOR YEARS TO COME!



# CARD DESIGN TO MEET ICAO STANDARDS

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SCAN THE QR  
CODE TO VIEW  
THE 9303 ICAO  
DOCUMENTS

## **9303 PART 2: SECURITY**

THIS DOCUMENT EXPLAINS THE SPECIFICATIONS FOR THE SECURITY OF THE DESIGN, MANUFACTURE AND ISSUANCE OF ETC'S.

## **9303 PART 3: COMMON SPECS**

THIS DOCUMENT OUTLINES THE VISUAL INSPECTION ZONE (VIZ) AND MACHINE READABLE ZONE (MRZ).

## **9303 PART 5: ZONES**

THIS DOCUMENT OUTLINES THE ZONES ON YOUR ETC. ZONES DEFINE WHAT SHOULD BE PLACED ON THE CARD AND WHERE. LOGOS, TITLE, FACE, SIGNATURE, ETC. MUST BE IN SPECIFIC AREAS ON THE CARD.

## **ICAO STANDARDS**

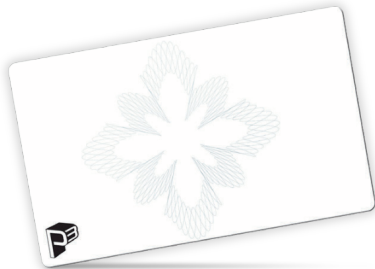
THE ICAO COUNCIL ADOPTS STANDARDS AND RECOMMENDED PRACTICES CONCERNING AIR NAVIGATION, ITS INFRASTRUCTURE, FLIGHT INSPECTION, PREVENTION OF UNLAWFUL INTERFERENCE, AND FACILITATION OF BORDER-CROSSING PROCEDURES FOR INTERNATIONAL CIVIL AVIATION.

A STANDARD IS DEFINED BY ICAO AS “ANY SPECIFICATION FOR PHYSICAL CHARACTERISTICS, CONFIGURATION, MATERIAL, PERFORMANCE, PERSONNEL OR PROCEDURE, THE UNIFORM APPLICATION OF WHICH IS RECOGNIZED AS NECESSARY FOR THE SAFETY OR REGULARITY OF INTERNATIONAL AIR NAVIGATION AND TO WHICH CONTRACTING STATES WILL CONFORM.

PUT SIMPLY, ICAO SETS STANDARDS FOR TRAVEL DOCUMENTS.

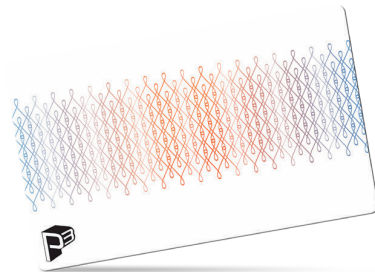
OUR MRZ ENGRAVING HARDWARE AND SOFTWARE ENSURE THAT YOU ARE IN COMPLIANCE DURING AND AFTER THE DESIGN PHASE.

# SECURITY FEATURES



## 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.



## 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

## LINE PRINTING

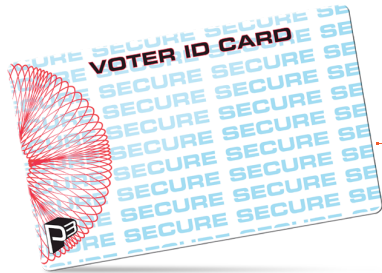
CONVERTING AN IMAGE TO PRINT IN LINES MAKES COUNTERFEITING DIFFICULT AS MOST ALL IMAGES PRINT IN DOTS. DONE IN PMS COLORS, THE IMAGE TENDS TO DISTORT WHEN SCANNED.



## 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.





## 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



## 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



## 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.



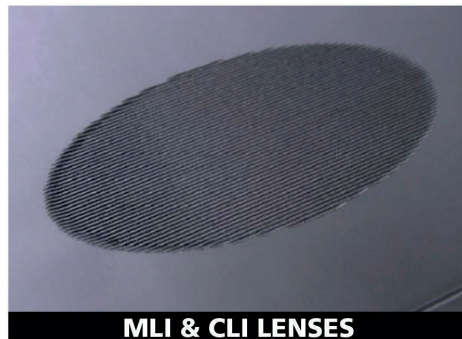
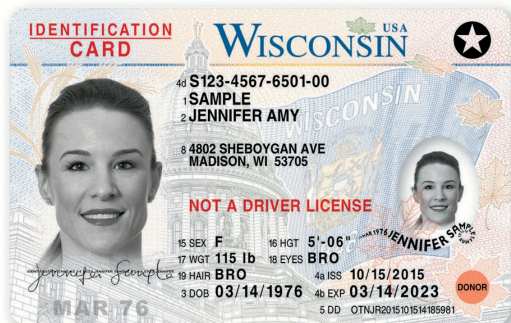
## MICROFINE

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

# INNOVATIONS

## 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 REQUIRED BONDING OF ALL LAYERS DEMANDS LINES RATHER THAN SOLID INK IN THE DESIGN,



Plate

## MLI

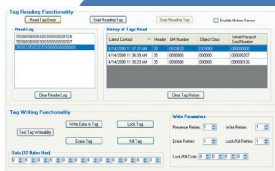
DURING THE LAMINATION PROCESS, THE VARIOUS CARD LAYERS ARE BONDED UNDER HEAT AND PRESSURE. WHILE THIS IS OCCURRING, P3 CAN ALSO ADD THE MULTIPLE LASER IMAGE (MLI) SECURITY FEATURE INTO THE CARD BODY. WITH MLI YOU HAVE YOUR OWN HOLOGRAPHIC-TYPE IMAGE, UNIQUE TO EACH CARDHOLDER, BUILT INTO THE SURFACE.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

# TEST CARDS



## THREE HARD-COPY TESTS ARE REQUIRED

1. RFID SENSITIVITY
2. RFID PROGRAMMING
3. MRZ ENGRAVING



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

# RFID SOFTWARE

## P3'S UNIQUE PROPRIETARY SOFTWARE

The screenshot shows a web-based application window titled "P3 ENHANCED TRIBAL CARD PROGRAMMING SYSTEM". The interface includes a menu bar with "File", "Login", "Programming", "Validation", "Members", "User Maint", "Settings", and "Reports". Below the menu, there are several input fields for member information: "Member ID: TBD", "First Name:", "Middle Name:", "Last Name:", "Address:", "City:", "State:", "Zip Code:", "Phone Number:", "Cell Number:", and "EMail:". To the right of these fields is a "Search" button. Below the input fields are "Cancel" and "Save" buttons. On the right side of the interface, there is a table with columns: "MemberID", "FName", "MName", "LName", and "Address1". The table contains one row with the following data: "1", "Kevin", "George", "Berisso", and an empty cell. Below the table is a scroll bar. At the bottom of the window, there is a status bar that reads: "Status: RFID reader connection failed! Timeout connecting to server".

MemberID	FName	MName	LName	Address1
1	Kevin	George	Berisso	

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 IT 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



# RFID HARDWARE

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## P3'S IDEAL RFID READER HARDWARE



AT THIS TIME, THE ETCP SYSTEM SOFTWARE HAS BEEN DEVELOPED AROUND SENSTHYS' 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). SENSTHYS' HAND-HELD READERS ARE NOT SUPPORTED AS OF THIS VERSION OF THE SPECIFICATION.

# GS1 CERTIFICATE



## GLOBAL DOCUMENT TYPE IDENTIFIER

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 SYNCHRONIZATION, 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 ORGANIZATIONS TO ISSUE GS1 COMPANY PREFIXES OR ALLOCATED TO OTHER SPECIFIC AREAS. THE MAIN PURPOSE OF THE GS1 PREFIX IS TO ALLOW DECENTRALIZATION 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.

## WHAT IS

**X X (X)\***



**GS1 PREFIX**

ASSIGNED BY GS1  
GLOBAL OFFICE

\*LENGTH CAN  
BE 2 OR 3 DIGITS

**X X X (X)**



**COMPANY  
NUMBER**

ASSIGNED BY GS1  
MEMBER  
ORGANIZATION



# GS1 VISUAL

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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.



**TAKE A GS1 ID KEY**

101011  
01010  
110101  
11000  
00110

**CONVERT TO  
BINARY CODE**



**ENCODE ON  
P3 RFID CHIP**



**PLACE WITHIN  
CARD BODY**

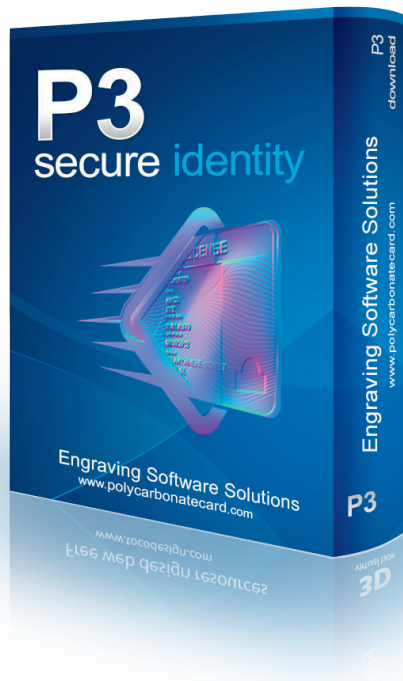
# DESKTOP LASER ENGRAVER

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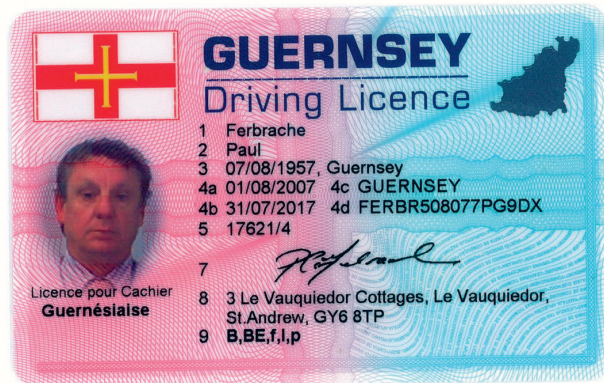


VARIABLE DATA SOLUTION / REAL ID COMPLIANT

# VARIABLE DATA SOFTWARE

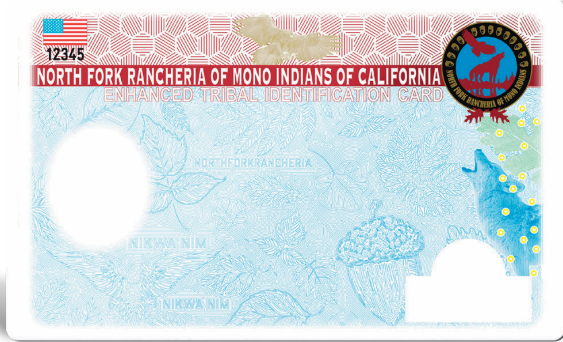


OUR SOFTWARE IMPORTS THE VARIABLE FROM YOUR DATABASES. ENGRAVING PHOTOS, ELIMINATING GREEN SCREENS, TACTILE SIGNATURES, ADDRESSES, ETC. THE SOFTWARE ALSO CONTAINS AN MRZ MODULE FOR THAT ASPECT OF TESTING AND ULTIMATELY ISSUING ETC'S. THE ENGRAVER REQUIRES THE PURCHASE AND INSTALLATION OF THIS SOFTWARE.



# MANUFACTURING

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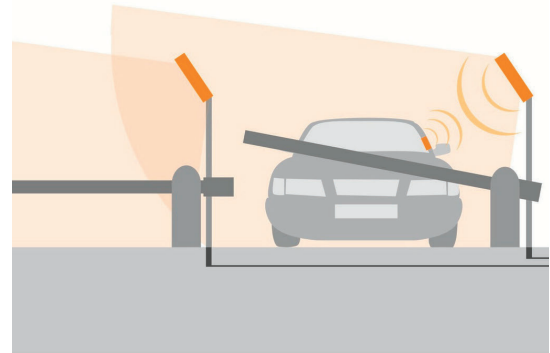
## PASSIVE APPROACH

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 RESOURCES 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 CHOSEN AND BE 100% READY TO START YOUR ETC JOURNEY.



# 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 EXPERIENCE IN THE CARD IDENTIFICATION MARKET SPACE. FORMERLY KNOWN AS DSS PLASTICS GROUP, WE NOW PROUDLY OPERATE AS P3, A DIVISION OF BRISTOL ID TECHNOLOGIES. WE 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 FOR ENHANCED IDENTIFICATION.

OUR HISTORY WITH RFID CARD MANUFACTURING DATES BACK TO THE EARLY 2000S WHEN CAULASTICS WAS BUILDING CUSTOM PROX CARDS FOR HID'S HIGH-END ACCOUNTS. TODAY, WE HAVE THE CAPABILITY 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 THEN, WE HAVE PRODUCED ALL KNOWN ETC'S IN CIRCULATION. YOU ARE IN GOOD HANDS.



# OUR BRANDS. YOUR COMPLIANCE.



## MY NOTES

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

# WE'RE HERE FOR YOU.

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CONTACT US FOR SUPPORT  
AT ANY STAGE IN YOUR  
COMPLIANCE JOURNEY.

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