

# **FIPS 201-2 Workshop**

**NIST PIV Team**

**National Institute of Standards and Technology  
US Department of Commerce**

**Gaithersburg, MD  
April 18 – 19, 2011**

# VISUAL CARD TOPOGRAPHY



# Visual Card Topography

## Looking backward

- FIPS 201-1 does not address Section 508 compliance.
- SP 800-104 contains some necessary features such as color specifications and additional zones that should be made mandatory.
- Need specific guidance on how to use the 70-character name string.
- A few people were refused PIV Cards without their suffixes.
- Smaller font on the name of the card reduces the visual usability of the name.

# Summary of Proposed Changes

TOP 10

#6

#7

## **#6: Add optional feature for card orientation**

- ▶ *To comply with Section 508 of the Rehabilitation Act,*
- ▶ That strives to make electronic and information technology accessible to people with disabilities
- ▶ To improve usability of the card for visually- or dexterity-challenged cardholder. (The card now has orientation features to help orientate the card to insert it in the card reader the right way)

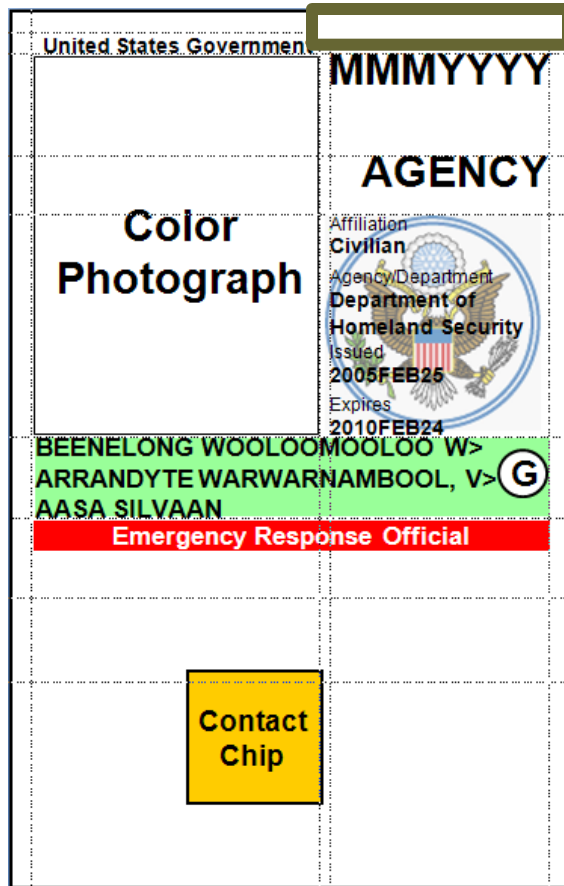
## **#7: Extend the maximum length of the printed name**

- ▶ Eliminate name truncation, if possible, and the resulting irritation and inaccuracies that result



# Visual Card Topography

## Section 508 Compliance



Improve usability of the card for visually- or dexterity-challenged cardholder.

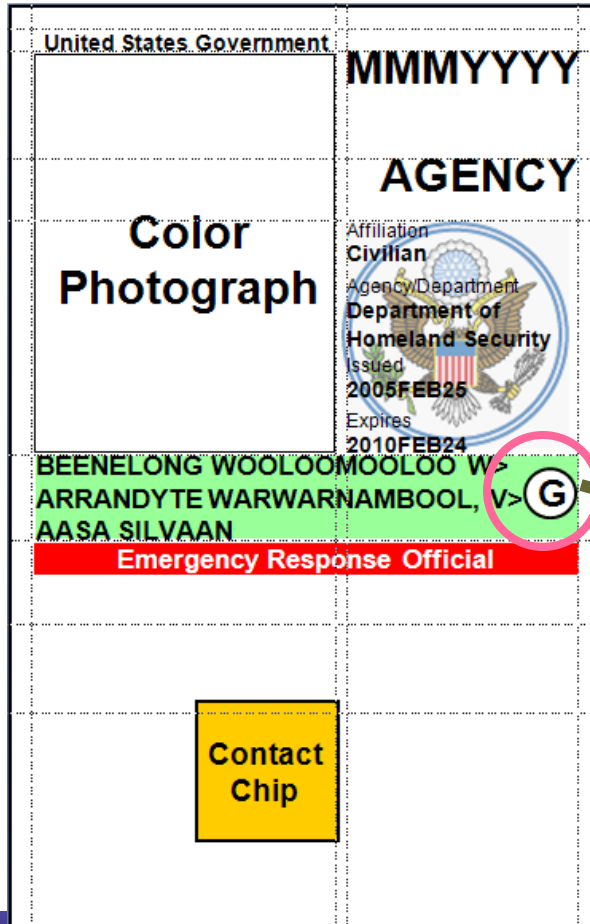
The card now has orientation features to help orientate the card to insert it in the card reader the right way



# Visual Card Topography

## SP 800-104 - A Scheme for PIV

### Visual Card Topography



**Zone 19F**  
**Expiration Date**

**Zone 20F**  
**Organizational Affiliation**  
**Abbreviation (Zone 20F)**

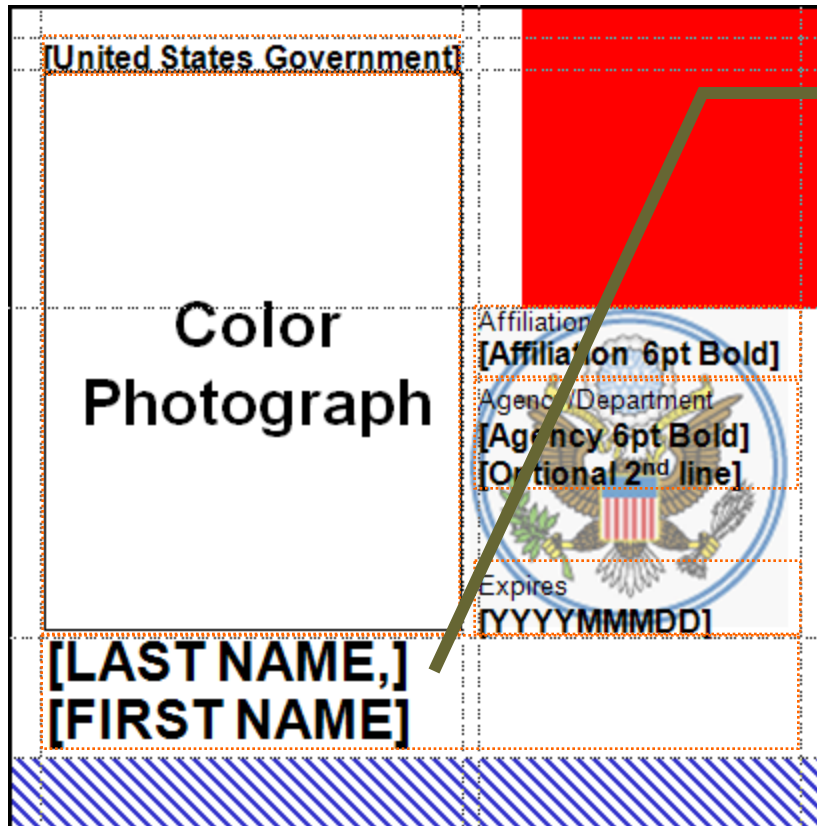
**Zone 18F**  
**Affiliation color code**  
“B” for Blue, “G” for Green, “R” for Red

**Color Specifications – Added sRGB**  
**and CMYK color representation**



# Visual Card Topography

## NAME FORMAT, SIZE and LAYOUT



Extend the maximum length of the printed name  
Eliminate name truncation  
Primary Identifier and Secondary Identifier



# Visual Card Topography

## NAME FORMAT, SIZE and LAYOUT







<p>Name: <b>Anna Maria Eriksson</b></p> <p>Characteristics: simple full name, two lines sufficient with 10 points.</p>	<p><b>ERIKSSON, ANNA MARIA</b> (G)</p>
<p>Name: <b>Vaasa Silvaan Bennelong Wooloomooloo Warrandyte Warnambool</b></p> <p>Characteristics: longer full name, two lines NOT sufficient with 8 point, 7 point allows sufficient space for three lines in Zone 2F.</p>	<p><b>BEENELONG WOOLOOMOOLOO WARRANTYTE WARWARNAMBOOL, VAASA SILVAAN</b> (B)</p>
<p>Name: <b>Vaasa Silvaan Bennelong Wooloomooloo Warrandyte Warnambool</b></p> <p>Characteristics: same as previous but full name is wrapped</p>	<p><b>BEENELONG WOOLOOMOOLOO W&gt; ARRANDYTE WARWARNAMBOOL, V&gt; AASA SILVAAN</b> (B)</p>





# Visual Card Topography

## NAME FORMAT, SIZE and LAYOUT

<p><b>Name:</b> Anna Maria Eriksson</p> <p><b>Characteristics:</b> simple full name, two lines sufficient with 10 points.</p>	<p>ERIKSSON, ANNA MARIA </p>
<p><b>Name:</b> Anna Maria Eriksson</p> <p><b>Characteristics:</b> simple full name, one line sufficient f full name with 10 points.</p>	<p>ERIKSSON, ANNA MARIA </p>
<p><b>Name:</b> Susie Margaret Smith-Jones</p> <p><b>Characteristics:</b> longer full name in two lines, sufficient space in 10 points.</p>	<p>SMITH-JONES, SUSIE MARGARET </p>
<p><b>Name:</b> Susie Margaret Smith-Jones</p> <p><b>Characteristics:</b> longer full name wrapped, two lines sufficient with 10 points.</p>	<p>SMITH-JONES, SUSIE MA&gt; RGARET </p>
<p><b>Name:</b> Chayapa Dejthamrong Krusuang Nilavadhanananda</p> <p><b>Characteristics:</b> longer full name wrapped, two lines NOT sufficient with 10 points. Reduce the font size to 8 points.</p>	<p>NILAVADHANANANDA, CHAYA&gt; PA DEJTHAMRONG KRUSUANG </p>
<p><b>Name:</b> Silvaan Bennelong Woolloomooloo Warrandyte Warnambool</p> <p><b>Characteristics:</b> longer full name, two lines NOT sufficient with 8 point, 7 point allows sufficient space f three lines in Zone 2F.</p>	<p>BEENELONG WOOLLOOMOOLOO WARRANTYTE WARWARNAMBOOL,  VAASA SILVAAN</p>
<p><b>Name:</b> Silvaan Bennelong Woolloomooloo Warrandyte Warnambool</p> <p><b>Characteristics:</b> same as previous but full name is wrapped.</p>	