



# FROM CONCEPT TO DEPLOYMENT

## THE LIFE (AND DEATH) OF SECURITY FEATURES

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BlackBerry Public



ENIGMA

# STACK COOKIES

Smashing the Stack for  
Fun and Profit

*Aleph One*

1996 2000 1997 2002 2004 2008 2008 2010 2012 2014

StackGuard: Automatic Adaptive Detection  
and Prevention of Buffer-Overflow Attacks

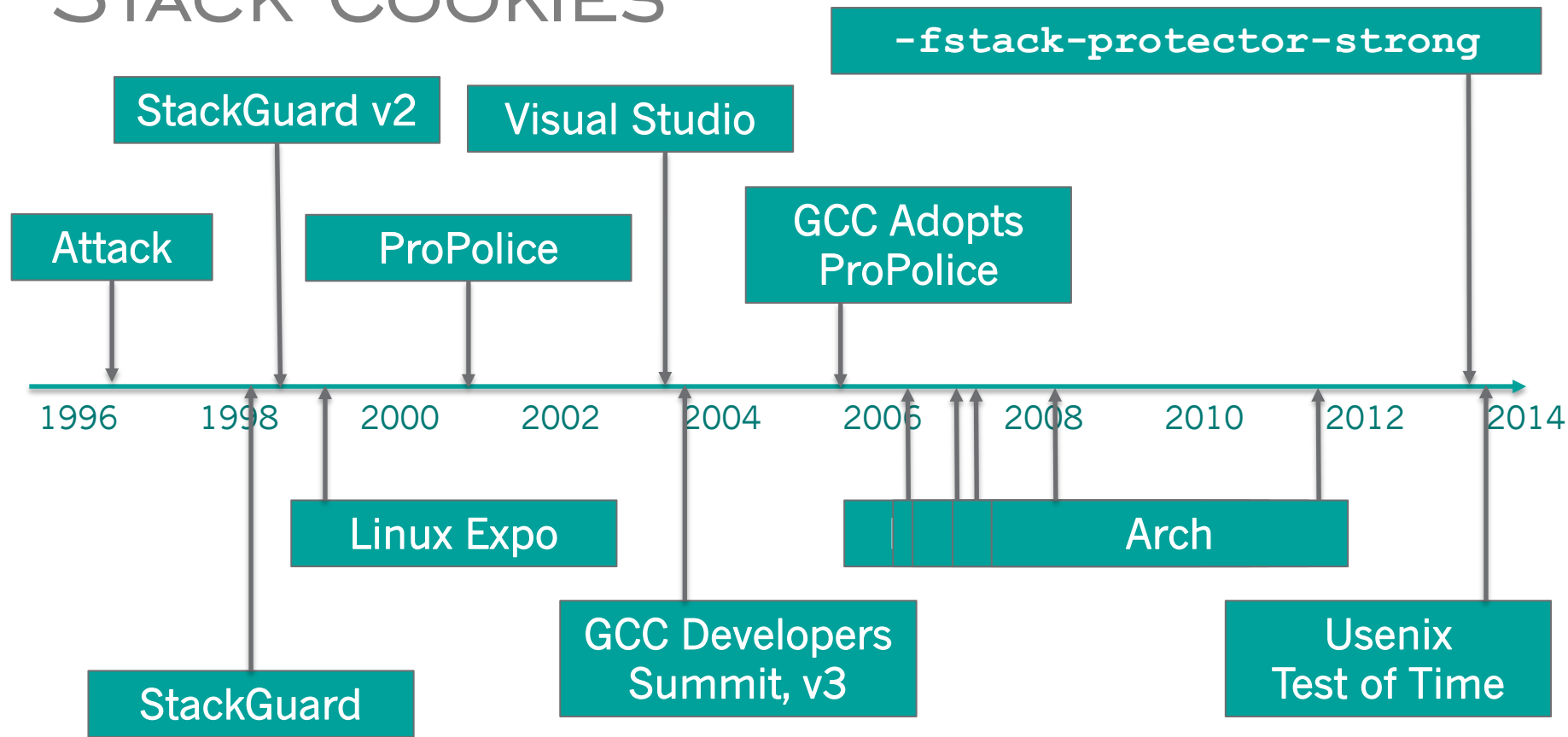
*Crispan Cowan et. al.*



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# STACK COOKIES



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# LIMITING ACCESS TO AN ANDROID SERVICE

```
<permission  
  android:name="android.permission.READ_CALL_LOG"  
  android:protectionLevel="dangerous"  
>
```



# SELLING SECURITY FEATURES

Is Entrepreneurship



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# THE DIAPER BAG



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# THE DIAPER BAG



1. Limited Space
2. Little/No Training



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# WHICH WOULD YOU WANT?



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# THE DIAPER BAG



1. Limited Space
2. Little/No Training
3. Already Partially Filled



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# GETTING A TOOL IN THE DIAPER BAG



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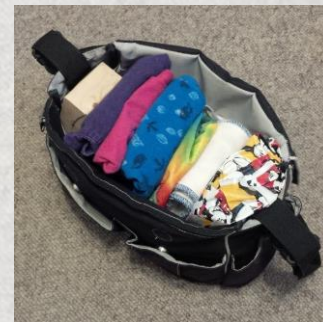




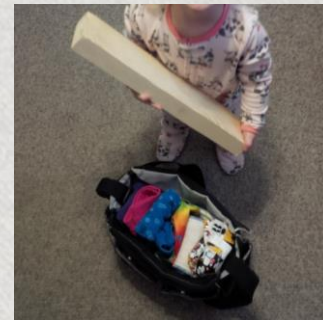
# GETTING A TOOL IN THE DIAPER BAG



1. Replace something
2. Make it Small



3. Add to something
4. Put it on the baby



# TIPPING POINTS

1. Get it in the Diaper Bag
2. Legislative Changes
3. Public Pressure



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