

# Using Forensic Techniques to Add the Cabrinity Collection to the NSRL and Make It Accessible for Researchers

CurateGear  
January 9, 2013



# How the NSRL Has Always Worked

- Software in hand
- NIST responsible for all metadata
- Since 2011, included downloaded “click-wrapped” software
- Since 2009, been planning for partner libraries



# Cabrinity Background

- Official name: Stephen M. Cabrinity Collection in the History of Microcomputing Library
- Cabrinity is large (15,000) collection of 1975-95 era software at Stanford
- Currently in boxes in storage – not very useful



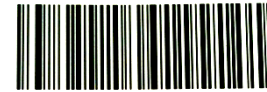


# NSRL/Stanford Cabrinety Project Goals

- Add Cabrinety software to NSRL
  - Make hashes & metadata available to community
- Make Cabrinety software available to researchers at Stanford
  - Digital version of software
  - Artwork, ephemera

# NSRL/Stanford Partnership

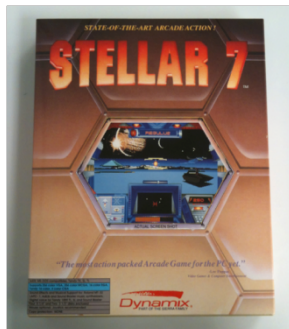
- Stanford is cataloging and entering metadata



vb582bq1601

Object Label: STELLAR 7  
Project Name: ["Cabrinity", "Cabrinity"]  
Date Printed: Tue Dec 18 15:03:24 2012  
Source ID: M0997\_S1\_B422\_008  
Tags: Process : Content Type : File  
Registered By : cthai2

- NIST is making forensic images of software and scans of artwork, manuals
- NIST is merging metadata and images



"4218E909DC6F1BF33369F3B6979EE9982E7D3800", "E0FD678937ACF3A15FCD276D9CE40CDF", "7BDED28B", "AWStellar.utx", "43ABC1748B4A8373DA6669EC199E95B16242E104", "AD94B06F9B5B80F156DD9840667455C3", "913A6E36", "Stellar.fst", "6B78BED6397946745B867F97031141D6548E5AE", "817B20A18A4BFC0EB170EE3D12B814A7", "C0FCA045", "stellar.flf", "7098B5FBB63E0727659201B7FDF90AA733DED204", "CE97122CC469255F12F976B01038C63A", "9FD90583", "STELLAR.ZIP", "817588D5080B12F82A54DA844333E2902AF793B6", "385A77F185E495272806E863DA4BD401", "45218604", "stellar.sh", "4", "8731E759723E609DCFBBEA723C1B3682512B0074", "6E07BCDC36ACD2F71902F4CBF079331D", "901EE83E", "STELLAR.EXE", "8F5DB7B95E8CB67E61D36006D84182E0B5FE0EEC", "CF0ADF473594382AE8FED7ABDC07A924", "6B18C487", "iv-stellar.cf", "9D30D758C387370A9DF0157AA295A21F04420132", "51F3D7CE97D3F5214018FF862FB2D32", "2D3AB9BC", "XfceStellar.x



# Final Output

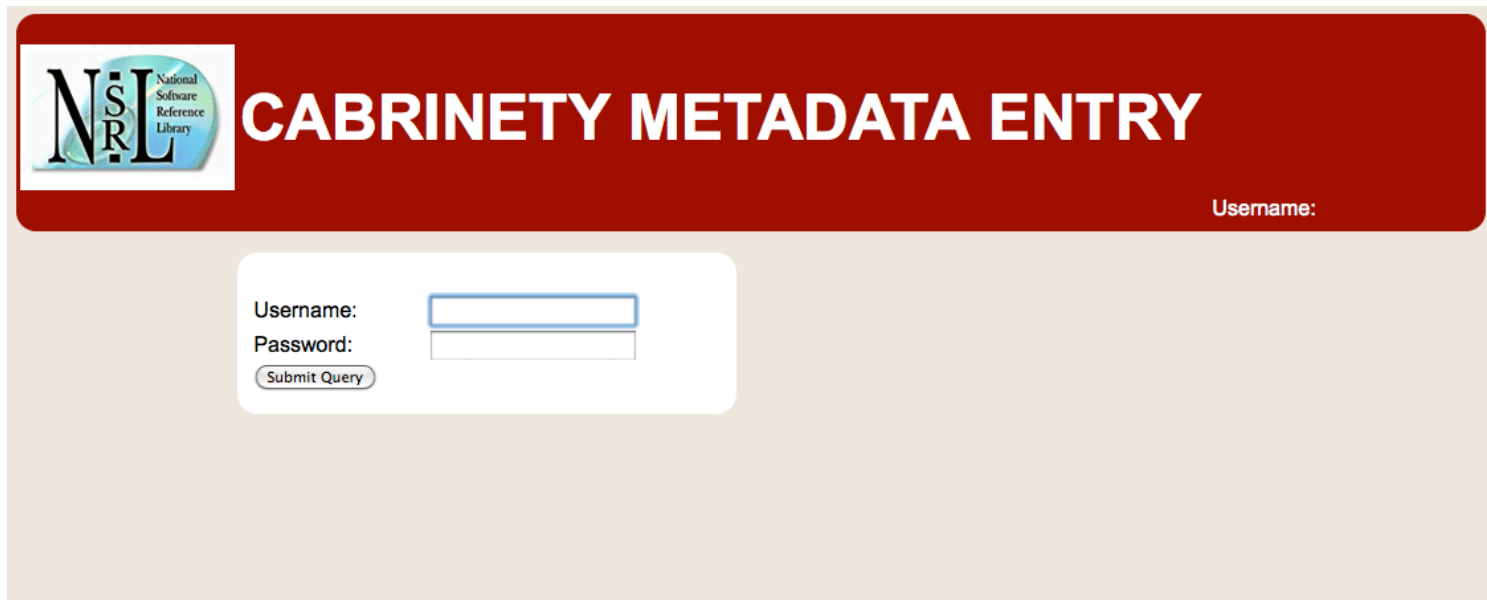
- Stanford makes software, artwork, etc. available
- NIST adds software to NSRL





# Walkthrough of Process

- During demo.....



The screenshot shows a web interface for the National Software Reference Library (NSRL). At the top left is the NSRL logo, which includes the text "National Software Reference Library" and the acronym "NSRL". To the right of the logo, the title "CABRINETY METADATA ENTRY" is displayed in large, bold, white letters on a dark red background. Below the title, on the right side, is the text "Username:". In the center of the page, there is a white rounded rectangle containing a login form. This form has two input fields: the top one is labeled "Username:" and the bottom one is labeled "Password:". Below these fields is a button labeled "Submit Query".





# PACKAGE DETAILS

Username: dwhite

- MAIN
- ADD NEW PACKAGE
- CONFIGURE METADATA
- MANAGE STAFF
- ACTIVITY LOG

- LOG OUT

## Package Metadata

**DRUID:** cg198vk4062  
**Package Name:** Design Software Dealer Starter Kit 3.5: DS Recover, Version 2.00a  
**Version:** 2.00a  
**Point of Entry:** Cabrinety  
**comments:** Stanford Box Number: B422, Physical Format: Computer disc, 5.25" (Qty. 1), Copyright Date: copyright 1988

**Languages**  
English

**Manufacturers**  
DesignWare, Inc.

**Application Types**  
Disaster Recovery Software

**Operating Systems**  
MSDOS

[Edit Metadata](#)

Jump to DRUID:



# EDIT PACKAGE METADATA

Username: dwhite

- MAIN
- ADD NEW PACKAGE
- CONFIGURE METADATA
- MANAGE STAFF
- ACTIVITY LOG

• LOG OUT

Jump to DRUID:

[View Package](#)

**DRUID**

cg198vk4062

**Application Name**

Design Software Dealer Starter Kit 3.5: DS Recover, Version 2.00a

**Application Version**

2.00a

**Point of Entry**

Cabrinity

**Package Comments**

Stanford Box Number: B422, Physical Format: Computer disc, 5.25" (Qty. 1), Copyright Date: copyright 1988

**Languages**

**Available Languages**

Belarusian  
Afrikaans  
All other languages  
Amharic  
Arabic  
Basque  
Bengali  
Bokmal  
Bulgarian  
Catalan

**Selected Languages**

English

**Manufacturers**

**Available Manufacturers**

ZPAY Payroll Systems, Inc.  
1C Company  
2015 Inc.  
21 Rocks LLC  
2D Boy, Inc.  
2K  
2nd Story Software, Inc.  
321 Studios  
36 You Games  
3Com

**Selected Manufacturers**

DesignWare, Inc.

**Application Type**

**Available Types**

3d computer graphics and design  
3D Landscaping amd Animation  
Accessories  
Accounting  
activity monitoring

**Selected Types**

Disaster Recovery Software





# ADD NEW PACKAGE

Username: dwhite

- MAIN
- ADD NEW PACKAGE
- CONFIGURE METADATA
- MANAGE STAFF
- ACTIVITY LOG

---

- LOG OUT

Jump to DRUID:

[View Package](#)

DRUID

Application Name

Application Version

Point of Entry

Package Comments

## Languages

### Available Languages

Belarusian  
Afrikaans  
All other languages  
Amharic  
Arabic  
Basque  
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### Selected Languages

## Manufacturers

### Available Manufacturers

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1C Company  
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2K  
2nd Story Software, Inc.  
321 Studios  
36 You Games  
3Com

### Selected Manufacturers

## Application Type

### Available Types

3d computer graphics and design  
3D Landscaping and Animation  
Accessories  
Accounting  
activity monitoring

### Selected Types



# METADATA CONFIGURATION

Username: dwhite

- MAIN
  - ADD NEW PACKAGE
  - CONFIGURE METADATA
  - MANAGE STAFF
  - ACTIVITY LOG
- 
- LOG OUT

Jump to DRUID:

## Add Language

## Known Languages

- Belarusian
- Afrikaans
- All other languages
- Amharic
- Arabic
- Basque
- Bengali
- Bokmal
- Bulgarian
- Catalan
- ...

## Add Manufacturer

name:

address:

city:

state:

postal code:

country:

web site:

## Known Manufacturers

- ZPAY Payroll Systems, Inc.
- 1C Company
- 2015 Inc.
- 21 Rocks LLC
- 2D Boy, Inc.
- 2K
- 2nd Story Software, Inc.
- 321 Studios
- 36 You Games
- 3Com
- ...

## Add Application Type

## Known Application Types

- 3d computer graphics and design