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The FavoriteCard demo explained

<http://www.favoritecarddemo.com> is a web site that demonstrates the capabilities of Information Cards as well as of the CardGears software.



Specifically, the demo shows the following:

- How a new Information Card can be issued in a very flexible way (with dynamically defined name, image and Claims)
- How the CardGears Admin API works
- How the CardGears Issue API works
- How an Information Card can be accepted and the user logged in

First, this document describes the preferred way to walk through the demo, then it explains some of the technical details.

Demo walk-through

This is the preferred way to walk through the demo:

1. You start at the main page at <http://www.favoritecarddemo.com>. The idea is that you create / edit / delete arbitrary "FavoriteCards" which hold information such as your favorite color, animal, etc.
2. You can try to click on the "**My Cards**" or "**New Card**" menu item, but you will get an error message, because you are not logged in.
3. If you do not have a Card selector, please download and install one first (e.g. Azigo).
4. To log in, click on the "**Login**" menu item and submit a P-Card.
5. Click on the "**My Cards**" menu item. Initially you do not have any "FavoriteCards".
6. Click on the "**New Card**" menu item. You can customize your FavoriteCard in many ways, e.g. you can choose a name, background image and a list of Claims to include on the Card.
7. After you fill out the form and click the submit button, you arrive at the "**My Cards**" list.
8. Click on "**Download**". You should get the Card in the form of a .crd file which should get imported into your Card selector.
9. If you have a Card selector which supports previewing Claim values (e.g. Azigo or the iPhone I-Card Selector), you can do that now. You will see the Card name, image and Claim values which you customized earlier.
10. Now click on "**Edit**". This takes you to a form where you can update the Claim values of your FavoriteCard. Change one of them and click the submit button.
11. If you now preview the Claim values in your Card selector again, you should see the updated values.
12. You can create as many additional FavoriteCards as you like and change the Claim values at any time. You can also delete a FavoriteCard; if you do this, it will stop working in your Card selector.

Technical information

What happens when...

... I log in with a P-Card?

The FavoriteCard demo web site reads the security token from the user's Card selector and checks if it is valid. Then it extracts the necessary information from the security token that can be used as a key to identify the user. This user key is a combination of the PPID (Private Personal Identifier) and the public key which signed the security token. The FavoriteCard demo web site keeps in its internal account database a list of FavoriteCards for each user.

... I click on the "Create my Card" button?

At this point the FavoriteCard demo web site creates a new Card by sending an HTTP REST command to the Admin API, which provides maximum flexibility for all Card Template and Card operations. The request to the Admin API contains an XML document with the following information:

- A randomly generated Card GUID
- The Card name, image and credentials chosen by the user
- The Card Claims and Claim values chosen by the user

This request is POSTed to the following URL:

```
https://api.cardgears.com:9443/admin/cards
```

The FavoriteCard demo web site also stores the GUID and the image of the new Card in its internal account database and associates it with the current user.

... I click on the "My Cards" menu item?

The FavoriteCard demo web site simply lists all your Cards. This is looked up from the internal account database and does not involve any calls to CardGears.

... I click on "Download" in the "My Cards" list?

The FavoriteCard demo web site sends an HTTP Redirect command to your browser. It redirects you to the CardGears Issue API, which sends the existing Card to you in the form of a .crd file. The request to the CardGears Issue API contains the following parameters:

```
card=<the GUID of the Card that has been created via the Admin API>  
timestamp=1253267809  
mac=ffadd753f9e33479eff41e19d2fbf05a2f8131dfaf7e6645a9b7a46e3c160d92
```

Since the Card has already been created earlier via the Admin API, the above command only needs to contain the GUID of that Card.

... I click on “Edit” in the “My Cards” list?

At this point the FavoriteCard demo web site looks up the Card’s Claims by sending an HTTP GET command to the Admin API, which responds with a simple XML document containing a list of Claims and current values

This GET request is sent to the following URL:

`https://api.cardgears.com:9443/admin/cards/<Card GUID>/claims`

Depending on which Claims and Claim values the Card contains, the response will be similar to this:

```
<Claims>
  <Claim>
    <DisplayName>Favorite Color</DisplayName>
    <Uri>http://schemas.favoritecarddemo.com/favoritecolor</Uri>
    <Value>Black</Value>
  </Claim>
  <Claim>
    ... more Claims ...
  </Claim>
</Claims>
```

The FavoriteCard demo web site then displays a form where the user can update the Claim values.

... I change a Claim value and click on “Update value”?

At this point the FavoriteCard demo web site updates the Claim value by sending an HTTP REST command to the Admin API. The request contains only a single string, which is the new Claim value.

This PUT request is sent to the following URL:

`https://api.cardgears.com:9443/admin/cards/<Card GUID>/claims/<Claim URI>`

... I click on “Delete” in the “My Cards” list?

At this point the FavoriteCard demo web site deletes the Card by sending an HTTP REST command to the Admin API.

This DELETE request is sent to the following URL:

`https://api.cardgears.com:9443/admin/cards/<Card GUID>`

After the Card is deleted in the CardGears server, it will no longer work if you still have it in your Card selector.

The FavoriteCard demo web site also deletes the Card from its internal account database so that it no longer appears in the “My Cards” list.