

# Eudora 5.0 vCard Integration

## 1.0 Introduction

This proposal outlines how vCard, now a proposed IETF standard, might be supported and integrated in Eudora for our 5.0 release. vCard is an “electronic business card” format for specifying directory information about a person as a data stream object. Presently, there exists no common Internet standard for the purpose of exchanging personal directory information, though a wealth of proprietary solutions exists across a wide range of applications. vCard attempts to provide a viable, extendable solution to the problem and could well emerge as a popular tool for exchanging information — from desktop to desktop, desktop to mobile, or mobile to mobile — should it be given a visible and seamless presence within high profile applications like Eudora.

## 1.1 Contact Information Today

To illustrate vCard in action, let’s first consider how Eudora currently manages new address book information. New nicknames are added to the address book by manually typing data directly into the address book window or, more conveniently, added automatically from a message or mailbox summary using the “Make Address Book Entry” command. While each works well to easily establish an alias for more cryptic email addresses, both are manual processes prone to errors and, potentially, a lot of unpleasant typing. For example:

```
From: Frank Zappa <frank@zappa.com>
Organization: Barking Pumpkin Records
To: John Purlia <jpurlia>
Subject: Contact information
```

Hi John,

It was fun talking to you at the séance the other night. Should you ever want to contact me again, feel free.

You can reach me through the Zappa Family Trust, 1234 Joe’s Garage, Canoga Park, CA 91415. The phone number is, of course, 1-800-818-PUMPKIN and the fax number is the same. Oh yeah, my new job title is Composer Extraordinaire and my favorite color is black.

Frank

Here we’ve received a bunch of contact information: the name of an organization, an address, a phone and fax, a job title, plus a little bit of personal information. We can very easily add this person to the Eudora Address Book by selecting “Make Address Book Entry”, typing in “Frank”, clicking OK and being done with it. But, if it is important to us to record *all* of the contact information we must painstakingly type or copy each piece of data into the appropriate field in a new address book entry. In the process we may make mistakes or otherwise misrepresent the sender’s information.

## 1.1 Contact Information using vCard

Now, consider the same scenario using vCard as the delivery mechanism:

```
From: Frank Zappa <frank@zappa.com>
Organization: Barking Pumpkin Records
To: John Purlia <jpurlia>
```

Subject: Contact information

Hi John,

It was fun talking to you at the séance the other night.  
Here's my business card should you ever want to contact me again.

Frank

Attachment converted: frank.vcf

This time, Frank has attached his vCard containing all of the personal information from the first message in one nice, neat package. Once received, we can view the contents, add it to our address book, delete it or ignore it. Likewise, we can share information about ourselves — or any of our personalities — by creating our own personal vCards and sending them to others as a Eudora attachment. It's one object — concise; simple — that can be operated upon as a single entity.

The exchange of information between people is greatly simplified by using vCard. Throughout the remainder of this document we will discuss how vCard can be supported in Eudora as a powerful method of managing personal information within the framework of an extended and more powerful address book. The primary topics of discussion will be vCard creation and storage, how it will be possible to send personal vCards to other people, what options a user might have upon receiving a vCard, and how vCards will be integrated with a new Address Book UI.

## 2.0 Storing vCards

Today, we don't see a lot of vCard use in email. Out of the millions of electronic messages that zip around the Internet each day, an insignificant few contain vCard information. Usually, vCards arrive as file attachments, though it is also possible to receive a vCard as an inline attachment (Emissary embeds vCards in this manner and Eudora drops these files in the parts folder).

For most users, storing a received vCards is the equivalent of receiving an incidental attachment. Today, few people possess or send vCards and a stray file here or there in your Eudora Folder is no big deal. In time, however, and with more widespread use of vCard as a delivery mechanism for personal contact information, storing and managing vCard's could become a problem.

- Where do we store our personal vCards?
- Where do we store the vCards we receive from other people?
- What if we decided to keep the vCard in our address book? Where do we store it and how should it be represented within the address book?
- What if we keep receiving the same vCard over and over and over again because some lofty Phd-guy insists on attaching his vCard to every message he originates? Can't we just nuke 'em?

**Proposal** - vCards we decide to keep — our personal vCards and those cards we've committed to the address book — will be stored in a new "Business Cards" folder within the "Nicknames Folder".

Once the user has made the conscious decision to give a sense of place to a vCard, it should live with or around the Address Book. Users will actually see these entries *in* the address book and — conceptually, anyway — they will think of the business card's they have collected as part of the

address book. It makes sense to keep the files close by to give vCards the same luxury of portability enjoyed by Eudora's nickname folder.

- Proposal** - vCard files we decide to keep will be renamed to match the sender's name, and — if they are received without appropriate file type information — be re-typed as vCards.

There exists no standard naming scheme for vCard files. As such, the Internet is ripe with vCard files that all possess the same filename. While such shortsightedness of design is great for your own vCard on your own machine — THAT'S NOT HOW VCARD WAS INTENDED TO BE USED (idiots!). We're stuck, at the moment, with receiving lots and lots of file attachments all named "vcard.vcf", "vcard.vcf 1", "vcard.vcf 2", etc... Upon choosing to keep a received vCard the user will have the opportunity to change the name to match the name identified by the vCard contents.

- Proposal** - New vCards received as either attachments or inline content will "arrive" in the Attachments Folder.

The attachment folder seems like the most appropriate destination for new vCards. Though vCards *can* appear as an inline attachment to an MHTML message, their primary real world function is as a document (a business card) handed from one person to another.

- Proposal** - Deposit duplicate vCards in the Trash

We will make every attempt possible to prune the Attachments Folder of redundant vCards. This may be tough and will require a bit of intuitiveness to determine what makes a vCard unique. Unfortunately, there currently exists no unique identifier in either a vCard's name or content. We'll have to generate our own unique keys, perhaps based on a file checksum, or perhaps some minimal combination of fields involving a card's email address, and compare this key against cards we already possess.

## 2.1 vCards in the Address Book

vCard stores its data as attribute/value pairs, leading to the natural temptation to suck vCards directly into the address book's native format. Though there is some correlation, it is best to leave vCards as wholly contained files that can be moved around your file system and dropped into other applications.

- Proposal** - vCards will be parsed for the standard set of Eudora address book fields (Name, fax, phone, etc) with that data populating the corresponding fields within our address book.

- Proposal** - vCards themselves will be referenced by file:// URL's within the notes field, providing a handy pointer to the card used build that address book entry.

Very simple, even moderately complex, vCards could be stored as text within the notes field of the current address book structure; our notes field is sufficiently flexible to support the ad hoc collection of fields found in a vCard. However, vCards can also be arbitrarily complex, containing dozens of fields, voluminous multimedia data, and even other vCards. Further, vCard lacks any

formal database schema. These obstacles severely complicate any attempt to incorporate vCard as an internal storage mechanism for Eudora nicknames. vCard is an excellent data exchange vehicle, but a lousy strategy for storing address books.

## 2.1 Personal vCards in the Address Book

Personal vCards are just like any other vCard, only different. While their format and structure remains the same, their use and semantics are different, dictating special handling within Eudora. Personal vCards can be compared to Eudora personalities. Like personalities, multiple vCards can offer varying reflections on a single real live person. I may have one return address for personality “A” and another for personality “B”. My signature for personality “A” may indicate that I am a fine upstanding professional, while my signature for personality “B” may reveal the sordid revelation that I have a cheese fetish.

And so it is with vCards.

I might have one vCard for my professional career, one for my personal business and one built entirely to deceive people into believing I’m a circus performer.

**Proposal** - Personal vCards will be conceptually stored in the Eudora address book.

From a UI standpoint, personal vCards will appear at the root level of the Eudora address book as illustrated here. In the example, “John Purlia” is my own personal business card and appears outside of the various nickname files I’ve created. Just like other vCards that appear in our address book, this entry will actually be stored in the Business Card folder, with a file:// URL logged elsewhere pointing to the file.



**Proposal** - Nickname references to personal vCards are stored in a new address-book-like file, “Personal Business Cards”, located in the Eudora Folder at the same level as the Eudora Nicknames file.

For all practical purposes, the Personal Business Cards file is a nickname file. It does not, however, appear in the Address Book window as an expandable object — all personal vCards live at the top of the address book lists.

**Discussion** - Users with several personalities may benefit from displaying their personal vCards *as* an actually nickname file instead of dropping each one at the root of the address book. Thoughts?

## 3.0 Creating Personal vCards

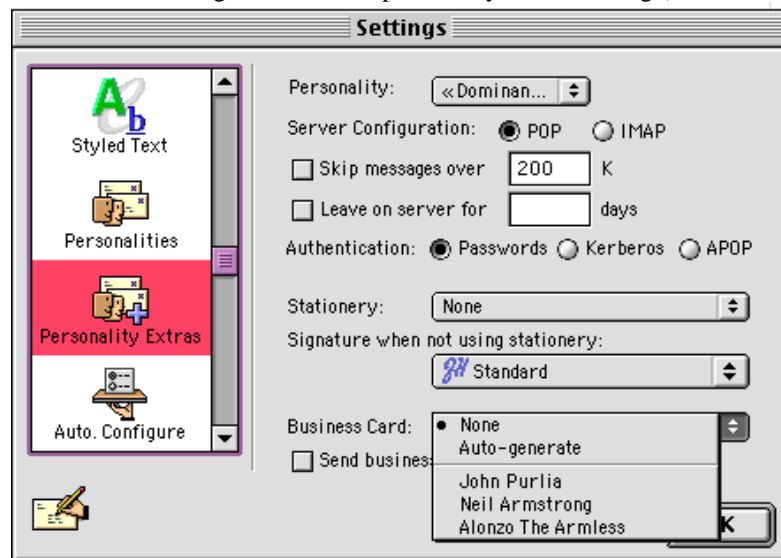
So let’s say we add this cool new ability to support vCards within Eudora... How do we provide the ability for the user to create personal electronic business cards? The usage model for vCards *should* (we hope) approximate those which we see in the real world. And like the real world there’s nothing stopping the user from running down to his or her local Kinko’s and printing up business cards for John Purlia, Neil

Armstrong or Alonzo The Armless. Likewise, there should be nothing stopping the user from creating multiple business cards within Eudora. Each vCard could represent a completely valid electronic personality, or various whims of a particular personality.

While it's not the job of Eudora to be a full-blown vCard editor, we should make things sufficiently easy for the user to create simple business cards from existing settings, and provide some easy (and expandable) mechanism for creating reasonably robust personal ID's.

**Proposal** - Add a control to the Personality Extras settings panel from which the user can generate a vCard for an existing personality.

The proposed modification to the settings dialog is illustrated below. A popup menu will be added to the Personality Extra pane, allowing the user to automatically generate a vCard *from* this personality, associate an existing vCard *to* this personality, or do nothing (the default).



Should the user choose to auto-generate their business card, Eudora will do two things. First, it will create a new vCard in the Business Cards folder containing the real name and email address for that personality (or simply modify an existing vCard if, for instance, the user has changed the email address for that personality). Second, it will add a new entry to the Personal Business Cards file containing a file:// URL reference to the file just created.

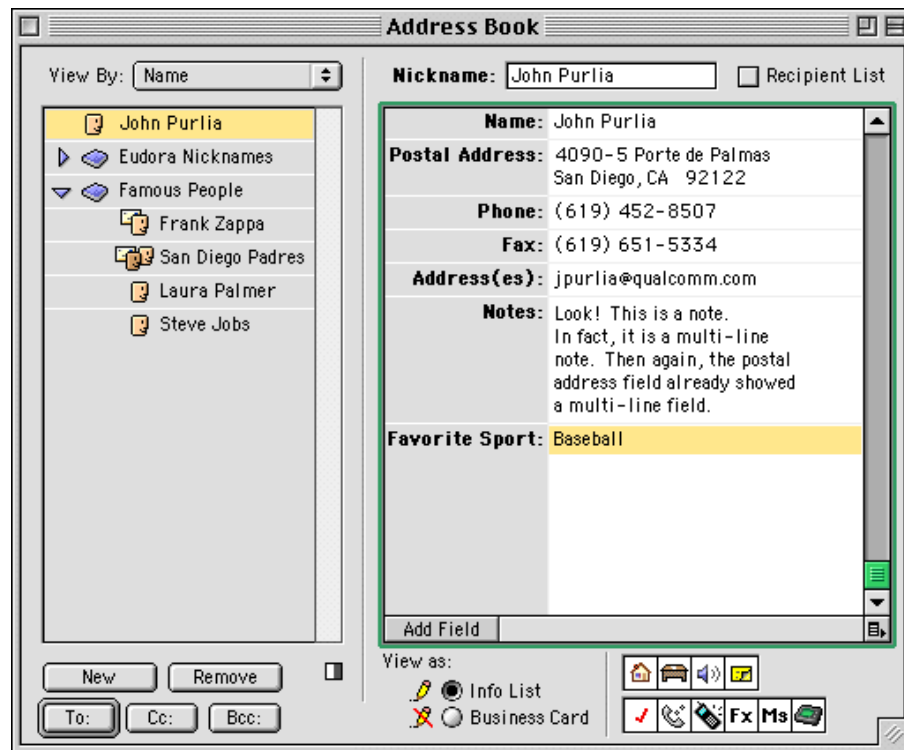
Likewise, if the user chooses to link a personality to an existing vCard, a file:// URL referring to the card is added to the Personal Business Cards file.

### 3.1 Editing Personal vCards

Though we can easily generate simple vCards via a popup in the settings dialog, the information available there provides only a small sampling of the data a user might wish to share via an electronic business card. Nowhere in settings is the user currently able to supply information such as a mailing address, phone number and other PIM-type shareable stuff. We do, however, provide such an interface in the Eudora Address Book.

- Proposal** - The user will be able to create personal vCards in the Address Book, perhaps using a richer interface than is presently available in Eudora 4.x.

As previously discussed, personal vCards will appear at the root level of the address book, which would seem to be a natural spot in the interface to create and edit them further. The figure below illustrates one view of a modified address book that would provide for creation and editing of personal vCards. Personal vCards are created like any other address book entry, the difference being how and where the information is stored within the Eudora Folder. Plain old address book entries are stored in Eudora's native address book format within an address book file — personal vCards are stored as independent files in the Business Card folder, with a reference stored in the Personal Business Cards file.



### 3.2 Address Book User Interface

The proposed address book user interface illustrated above is strikingly different than Eudora's current model. While many of the proposed enhancements (with certain notable exceptions) are peripheral to the discussion of vCard integration within Eudora, it is still useful to explain all of those weird buttons and icons, as many of them actually *do* play a role in creating personal vCards.

The left side of the address book contains a list of nicknames, nickname files and personal vCards. It is very similar to the current nickname list with a couple of new wrinkles. Trendy 3D icons have been added to represent:

- Address books
- Nicknames
- Groups of addresses (actually, a single nickname containing multiple addresses)
- Items which also appear on the recipient list are superimposed on top of an envelope icon

As discussed previously, personal vCards appear at the root level of the list (though, again, it may be worthwhile to show them in an expandable address book all their own).

The right side of the address book is where the UI experiences its greatest change. The *Nickname* edit field and *Recipient List* checkbox are holdovers from the existing interface, representing the current selection in the nickname list; below that, most everything is new.

**Note:** These proposed modifications to the address book are not absolutely essential for support of vCard. Editing vCards could be moved into the settings dialog, or to its own interface independent of the address book — or we could simply retain the current interface limiting the scope of vCard fields to those that match our current address book. The modifications are discussed here, however, as a possible solution that cohesively integrates vCards with a more powerful address book.

The user can choose to display the address book entry for a selected nickname in one of two selectable views: *Info List*, which is editable, and *Business Card*, which is read-only (and discussed elsewhere in this document).



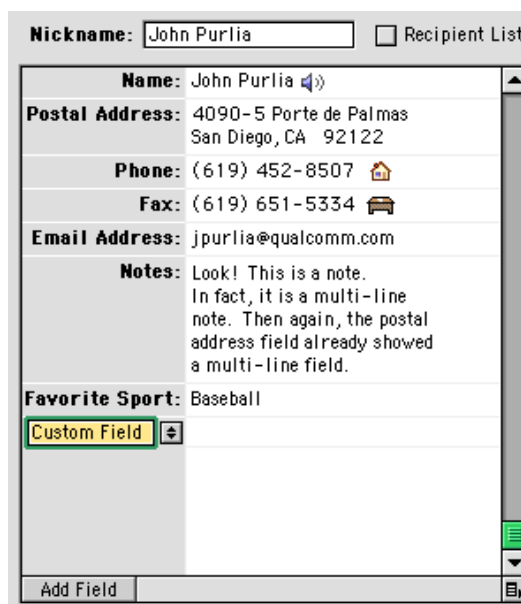
The figure illustrates the *Info List* view of a nickname, displaying its contents as a scrollable and editable list of fields that (mostly) correspond to our existing list of default address book fields.

Each field of the *Info List* “grows” as additional text is typed. The *Notes* field, for example, contains five lines of auto-wrapping text; as more text is added, all of the fields below will automatically scroll down to make room for the typed text (sort of like the addressing fields in our composition windows). Tabbing within this list of fields moves the focus to the next field, or out of the list of fields entirely once we’ve reached the last field.

Navigation within the *Info List* is enhanced by the addition of the field-chooser-popup tucked away in the lower right hand corner of the list, below the scroll bar. Using this list the user can instantly change the list scroll to display any defined field — useful, for instance, if any one field (say, the *Address(es)* field) is unusually long.

One of the cooler features of vCard is the ability for the user to create ad hoc groups of user defined fields. Upon first creating a new address book entry, the *Info List* contains a set of default fields (defined in settings). Our current set of default fields is: *Name*, *Postal Address*, *Phone*, *Fax*, *Address(es)*, and *Notes*. Under the new interface, however, if I feel it’s really important that I share with the world that I like baseball, I can create a field called “Favorite Sport”, type in “baseball” and include this valuable information on my personal vCard.

The lower left-hand corner of the *Info List* contains a button, “Add Field” used to add a custom field to the current nickname — whether that nickname represents a personal

A screenshot of a software interface showing the "Info List" view for a nickname "John Purlia". At the top, there is a text field for the "Nickname" containing "John Purlia" and a checkbox for "Recipient List". Below this is a scrollable list of fields: "Name" (John Purlia), "Postal Address" (4090-5 Porte de Palmas, San Diego, CA 92122), "Phone" ((619) 452-8507), "Fax" ((619) 651-5334), "Email Address" (jpurlia@qualcomm.com), "Notes" (a multi-line note), and "Favorite Sport" (Baseball). At the bottom of the list is a "Custom Field" button with a dropdown arrow. In the bottom left corner of the interface is an "Add Field" button. In the bottom right corner is a field-chooser-popup icon.

vCard or just another entry in your address book. Once pressed, an edit field appears in the field pane, into which the user can type the name of their custom field, as illustrated to the right. A popup menu accompanies the edit field, from which the user might select the name of any previously defined field. As new fields are defined (for any address book entry) they are added to the custom field popup and are then available to any new entry added to the address book.

Two rows of image wells appear in the lower right-hand portion of the address book window. These icons are intended to supply the user with “tools” they can use to define attributes for various fields — which map nicely to vCard’s concept of object properties and property attributes. vCard lacks strict field definitions for things like “Home Address” and “Fax Number” (though it is entirely within the definition of vCard to create custom fields for these entities). Instead, vCard operates on the principle of properties that possess attributes, like modifiers. So, for instance, you can have a TELEPHONE property that may possess the attributes HOME and FAX, while you might have a second TELEPHONE property with the attribute PAGER — and a third with the attributes BUSINESS and MSG.

Within our user interface the user doesn’t have to live within a rigid world of columns and grids and predefined fields. Rather, they can designate the address field to be both their HOME and BUSINESS address. Or they can create two address fields; one for business, one for home. Or maybe they have a super-duper phone that functions as a mobile, fax, pager and Kitchenaid. After all, it’s just text. From a UI standpoint, the user merely clicks their mouse inside of one of the following image wells and drags that icon to the field they wish to describe with that attribute.



- Home
- Business
- Sound annotation      This attribute can be assigned to a property to aid in pronunciation.
- Note annotation      This attribute can be added to a property to supply more information.
- Preferred      Indicates that this is a preferred method of connection.
- Voice phone
- Cellular phone
- **Fx** Fax
- Voice Messages      I don’t know what a voice mail icon might look like...
- Pager

vCard supports other attributes such as pictures, logos, BBS connections and a host of other things, any of which we could support. For now, it’s likely better to go simple than go continental.

#### 4.0 Displaying vCards

What good is a vCard if you can’t look at the content in some way? Though vCard is defined to be a textual format for exchange of personal information, the usage paradigm lends itself to more elaborate methods of display. Users should be able to browse through the vCards they’ve saved in their address book, as well as viewing new cards on-the-fly as they are received as message attachments.



- Proposal** - The address book will sport a new fancy viewer for the purpose of displaying vCards. Further, the look and feel of a displayed vCard should approximate a real business card.

Since we'll already find vCards in the address book along with our other nicknames, it makes sense to build a viewer right into the address book UI. This viewer will be entirely read-only since we would like to discourage users from creating or editing vCards for other people. However, it is still important that users be given this capability. It's not at all out of the question that you might want to annotate a vCard, much as you might choose to write a note on the back of a business card. Similarly, if you know that Jane has recently changed email addresses, it would be nice to make this change in your address book yourself, without requiring that Jane send you a new updated card.

- Proposal** - We'll have the capability to open vCards we've received as attachments from either a message or mailbox window. The vCard will open in its own document window containing the same read-only fancy display content used in the address book.

An example of how a very elaborate vCard might appear in the address book is illustrated below. Here, the *Business Card* radio button is selected, replacing the editable info list with a read-only, graphical business card. Mostly, the vCard looks like a business card, but there's a lot more going on.



First, the content pane is tabbed providing views of three separate pieces of information. Most simple vCards will not contain any tabs, instead summarizing all of its fields on a single pane. In the example, Frank has separate information in his vCard pertaining to his home and his work. *Home* and *Work* are standard vCard property attributes corresponding to the attribute image wells discussed earlier (and now

dimmed, since the *Business Card* view is read-only). The *Notes* tab appears because his vCard contains notes.

**Proposal** - Tab icons are draggable!

Dragging either the *Home* or *Work* tabs from a personal vCard will effectively move a sub-vCard containing only that specific information. You could therefore separately drag'n'drop Home or Work information to other parts of Eudora, or to other applications which understand vCards. Likewise, dragging the *Notes* tab carries around the notes for the vCard.

The sample above contains a logo, a photograph, a company name, the individual's name (which is bold, for emphasis) and a job title. The name is also linked to a sound icon which, when clicked, will play a sound file containing the correct pronunciation of "Zappa". The lower portion of the card contains the user's postal and email addresses, and phone numbers for voice, message and fax (with the voice number bolded to indicate that it is the preferred number). The "Msg" field is further annotated with a notes icon, indicating that this field contains an attached note. While we could open a Post-It style sticky if the user clicks on the note icon, this is probably overkill. Instead, notes for annotated fields will be displayed in the *Notes* tab; perhaps clicking on the note annotation switches to the *Notes* tab with the designated note highlighted or scrolled to the top.

The last item of note in the example is the URL displayed in the left-hand corner. Like URL's appearing in message windows, this is a highlighted and clickable to link to the indicated site.

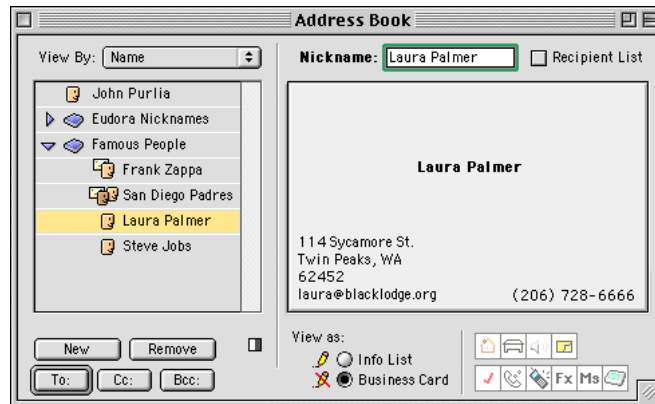
**Discussion:** vCard does not provide for layout templates; it's up to the vCard viewer to decide how and where to display the card's content. The example above lays out a card's contents in a fairly standard business card-ish manner. We could provide the user with a collection of format templates for various business card styles. We could also use vCard extensions to define this information for the cards we create ourselves. I am inclined to go with one set format for now and address anything spectacularly flexible later (leaning towards providing a collection of preset formats).

**Discussion:** What happens, however, when the user shrinks the card, or if some of the text is unusually long? My first thought is to scale fonts and images to fit. Regardless, resizing a vCard business card view could become messy.

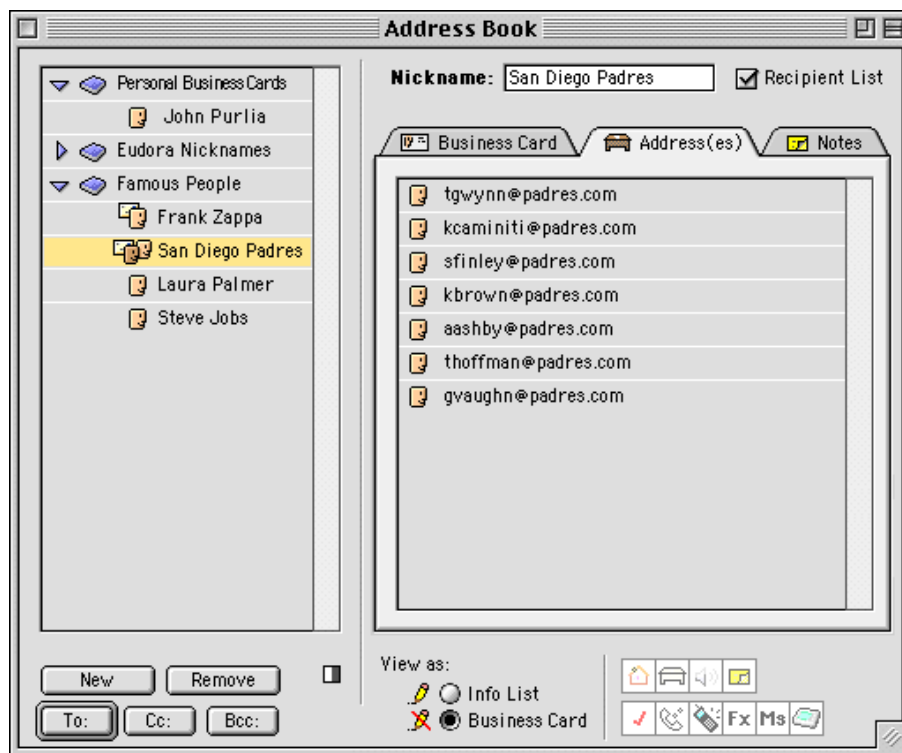
It would be highly desirable to blur the distinction between vCards and other entries in the Eudora address book. From the user's point of view, they have an address book filled with information about people and groups. Some entries contain a lot of information, some are mere jottings of notes, just like an address book in the real world. The level of detail and sophistication is up to the user. If someone sends me a rich descriptive vCard, and this information gets tucked away in my address book, months later I shouldn't have to remember, "oh yeah, that's a vCard" and treat this entry differently than I might treat a nickname I had manually created for someone else.

**Proposal** - Any entry in the address book can be viewed as a business card

We have a pair of radio buttons; we may as well use them. Creating a business card-like view of a normal address book entry should be very simple, though potentially boring — especially for those entries that specify nothing more than a nickname and an address. However, for entries containing a reasonable amount of info, an acceptable pseudo-card can be generated. Though Laura’s card to the right is displayed on a simple placard, a tabbed card would be displayed if her address book entry contained notes (tab labels “Business Card” and “Notes”).



Displaying the business card view of any address book entry also affords us the opportunity to do some very cool things with private mailing lists (entries which contain multiple addresses).



Here, we see the addresses of a single nickname listed on a special pane in that entry’s business card view. From this pane the user can perform drag operations on the text of any address (or the little fleshy icon) to any location that will accept an address drag: composition messages, other address books, other applications or even the desktop.

**Discussion:** It may also be interesting to display entries in the address list for which we also possess a vCard with a special icon, in which case we could drag these items as a

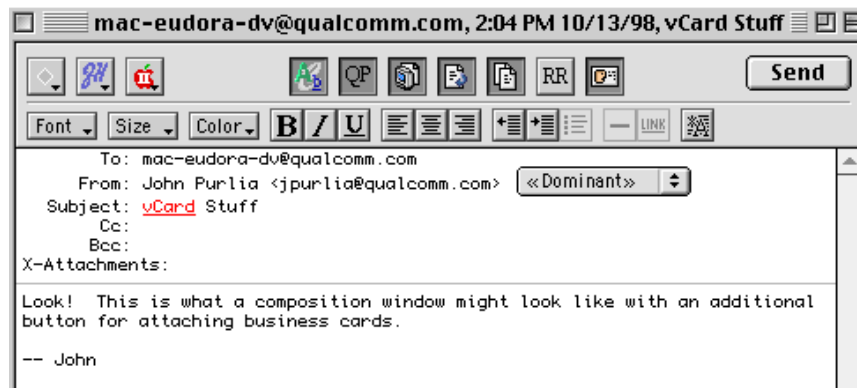
vCard rather than as an address. This is problematic, however, as we may not want to encourage the exchange of vCards not your own

## 5.0 vCards and Composition Messages

Integrating vCards with composition messages should be fairly simple, mostly following the path set forth by the address book in current versions of Eudora (though vCards *do* add a few new attachment wrinkles to the mix). Today we are able to add address book entries to outgoing messages via drag'n'drop, the address book's *To*, *Cc* and *Bcc* buttons, or via the recipient list. Likewise, vCards should maintain an identical message addressing model by allowing the user to drop vCards into composition message headers, specify a vCard as an addressee from the address book buttons, or pick vCard entries from the recipient list. From the user's standpoint, each of these actions is a given just as if they were managing any other address book entry (again, the distinction between a business card and an address book entry is intentionally blurred).

**Proposal** - A *business card* button will be added to the composition window providing one click vCard attachment capability to any outgoing message.

We want to make the exchange of vCards as painless as possible for the user. One click would be nice. By adding a *business card* button to a composition window's button bar we provided the user with a very convenient way to indicate that they wish to send their business card along with the message. The figure below shows a composition window with the business card button pressed.



When this button is set, the business card for that personality will be attached to the composition message (though this is mistakenly not reflected in the figure). The business card to be associated with a given personality is defined in the *Personalities Extras* settings panel as previously discussed. Accompanying this setting is a checkbox (right) that the user can set to indicate that *all* outgoing messages from a particular personality will attach the person's business card (obnoxious though that may be).

Business Card: John Purlia  
☐ Send business card with all outgoing messages

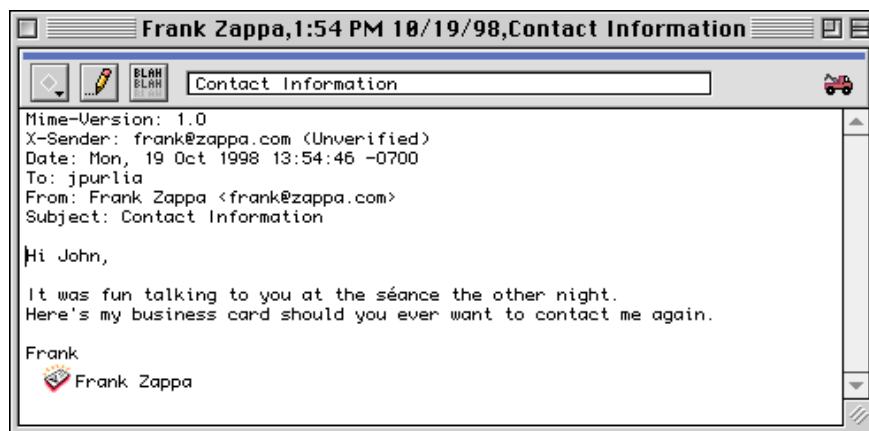
**Discussion:** Would we be better served to make the *business card* button a popup from which the user can select any of their personal business cards, much like signatures? My initial inclination is to say "no"...

## 6.0 Receiving vCards

So, what happens when someone sends us a vCard? What do we see, what do we do, what is the user experience? We'd be best served to make the interface to receiving vCards as passive as possible. There's no need to flash a dialog, display the vCard in-line in all its business card-like glory, or otherwise intrude upon the user's purpose of reading mail. As long as the vCard shows up as an attachment it can serve us perfectly well as an icon at the bottom of the message window. Today, however, vCard files follow no rhyme nor reason with regard to name, type or creator. They often appear as generic text documents with oh-so meaningful names like "work.vcf" or "vcard.vcf". Often, the user is left only to wonder what the heck this file might be, shrug, then dismiss the message without a thought, leaving these stray items to litter their attachments folder. If we are to encourage the use of electronic business cards within Eudora we'll need to appropriately bring to the users attention that they've received a vCard — with as little interface intrusion as possible.

- Proposal** - vCards will be displayed in message windows much like attachments. However, to distinguish a vCard from other attachments they will be displayed using a special icon and with the name associated with the vCard, rather than the name of the file containing the vCard.

While we could display a vCard icon in its own special place (either with the icon buttons or within the message header), we can most effectively manage vCards like other attachments — as long as we take care to clearly identify these attachments as electronic business cards. Providing a distinctive icon and a meaningful name (as illustrated below using a blatantly stolen but oh-so-attractive icon from the Versit vCard SDK) conveys at least a hint that the attachment has value.



- Proposal** - Launching a vCard attachment opens the vCard within its own window in Eudora.

Since we'll also have vCard viewing capabilities built into the Eudora address book, we can utilize much of that same engine to display received vCards in their own window from which the user can decide to "do something meaningful". The screen shot below depicts a launched vCard file from which the "meaningful" things are defined to be deleting the file or adding it as an entry to a Eudora address book. This window combines the functionality of "make address book entry" with a vCard display. One additional button is available — "Keep only the basic address book information" — which effectively deletes the vCard file, but copies the standard set of address

book information (name, address, phone, etc) from the file into the address book file. If at all possible, we'll also try to anticipate duplicate or updates to vCards, changing the text of the default button from "Save" to "Replace" if the vCard represents a new version of a card we already possess.



**Proposal** - vCards may also be added to the address book by selecting the vCard icon and name in a receive message, then selecting "Make address book entry" from the Special menu.

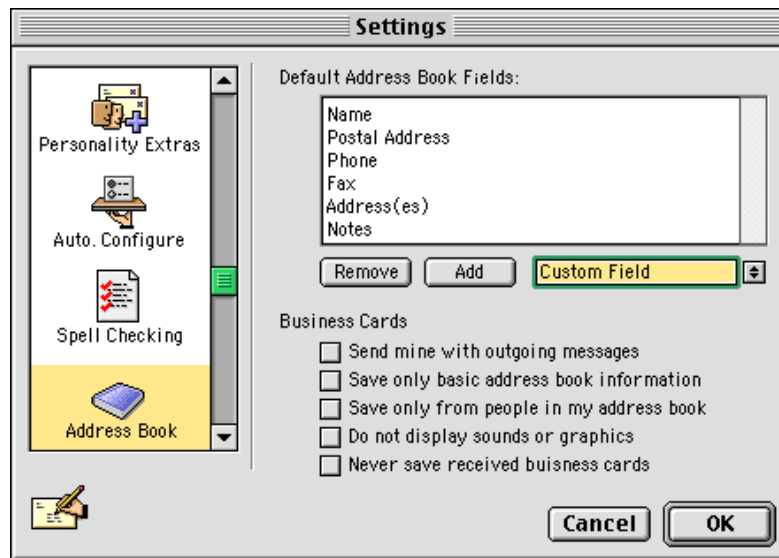
**Discussion:** Should the dialog that appears in response to "Make address book entry" be the present dialog, the vCard display dialog above, or the dialog above without the fancy display and with the Delete and Save buttons renamed to Cancel and OK?

## 7.0 Miscellany (Settings)

To better support many of the new and unique capabilities of Eudora business cards and an extended address book, the settings dialog should give birth to yet another pane. Illustrated below is the new pane which provides a set of controls for setting up the address book's default editing fields, and checkboxes for tailoring how Eudora will deal with business cards. The switches are fairly self-explanatory, but for the sake of discussion...

- *Send mine with outgoing messages* — When this switch is set, the *business card* button will be set for all outgoing messages. This is *highly* discouraged!! (And, perhaps, should not be an option at all.
- *Save only basic address book information* — This switch is analogous to the "Keep only the basic address book information" switch in the fancy business card display window. When set, Eudora will not save entire vCards to the Business Cards folder, instead parsing the vCard for the address book's default fields and copying that information into a new address book entry.
- *Save only from people in my address book* — When this switch is set, Eudora will only process vCards received from people appearing in your address book. All other vCards are moved to the trash. Potentially dangerous, I suppose...
- *Do not display sounds or graphics* — When set, Eudora will not display pictures, logos or icons representing sound annotations when opening a vCard.

- *Never save received business cards* — We get a vCard? We throw it in the trash. Done!



## 7.0 Miscellany (Filters)

With the addition of vCard support within Eudora, it would be beneficial to provide the user with the ability to in some way use and manage vCards with filters. This is already possible, to some extent, with a little clever use of existing filtering capabilities. For example, today you could setup a filter that effectively said: If I get a message from Bob, reply with a piece of stationery that has my vCard attached. More useful would be a filter action that manages the vCards we receive.

**Proposal** - Create a new filter action — “Add Business Card” — which will automatically add a received vCard to the user’s address book.

This filter will move a received vCard from the Attachments folder to the Business Cards folder and create a new (or updated) entry in the address book.