Problem Description

The `new_user` command has three entry points to change existing PNT entries: `change`, `cg`, and `cga`. The intended difference between the `change` and `cg` entries is that `change` was to be more verbose than `cg`. The documentation for these commands (`new_user$change` and `new_user$cg`) exemplifies this intent:

:Entry:  change:  02/26/85  new_user$change

Function:  This entry point supports editing of user registration.

:Entry:  cg:  02/26/85  new_user$cg

Function:  This entry point is similar to new_user$change but is less verbose.

The code has a coding error, as seen here:

```
change: entry options (variable);
   alias_allowed = "0"b;
   loud = "1"b;

cg:  entry options (variable);
   alias_allowed, loud = "0"b;
   goto change_common;

cga: entry options (variable);
   loud = "0"b;
   alias_allowed = "1"b;

change_common:
   whoami = "new_user$change";
```

The `change` entry sets the `loud` switch to “1”b and then falls through to the `cg` entry, which sets `loud` to “0”b.

This is trivially fixed by adding a `goto change_common` statement in the `change` entry, after the setting of the `loud` switch.

However, doing this isn’t enough, because the change logic beginning at `change_common` never examines the `loud` switch. This is clearly an omission because the code that is used to add a new PNT entry does check the `loud` switch and includes a call to `ioa_` with information about each change prior to the actual prompt for new info.
Here is a sample of the logic used when adding a new PNT entry:

```plaintext
if loud then call ioa_("^/Enter full user name (Last, First I.)");
call read_name;
if loud then call ioa_("^/Enter mailing address");
call read_address;
if loud then call ioa_("^/Enter programmer number");
call read_prog_number;
```

This MCR proposing using the same verbose prompts as done for new PNT entries in the “change” logic.


**Proposed Changes**

This MCR proposes to add a `goto change_common` at the appropriate place in the `change` entry as well as to add identical calls to `ioa_` for each field, as found in the code for adding a new PNT entry.

The `compare_ascii` output for the updated version is shown below:

```plaintext
cpa [lpn new_user.pl1] == ...

Inserted in B:
B32 5) change(2020-01-22,Swenson), approve(2020-01-22,MCR10074):
B33 Fix new_user$cga to really be verbose as it was intended and as it is:
B34 documented to be.
Preceding:
A32 END HISTORY COMMENTS */

Inserted in B:
B285 goto change_common;
Preceding:
A282 A283 cg: entry options (variable);

A371 if what = "" | what = "name" then call read_name;
A372 if what = "" | what = "addr" then call read_address;
A373 if what = "" | what = "progn" then call read_prog_number;
A374 if what = "" | what = "notes" then call read_notes;
A375 if what = "" | what = "proj" then call read_project;
A376 if (what = "" | what = "alias") & alias_allowed then
A377     call read_alias;
Changed by B to:
B375 if what = "" | what = "name" then do;
B376     if loud then call ioa_("^/Enter full user name (Last, First I.)");
B377     call read_name;
B378 end;
B379 if what = "" | what = "addr" then do;
B380     if loud then call ioa_("^/Enter mailing address");
B381     call read_address;
B382 end;
B383 if what = "" | what = "progn" then do;
B384     if loud then call ioa_("^/Enter programmer number");
B385     call read_prog_number;
B386 end;
B387 if what = "" | what = "notes" then do;
B388     if loud then call ioa_("^/Enter notes");
B389     call read_notes;
```
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B390                end;
B391                if what = "" | what = "proj" then do;
B392                    if loud then call ioa_ ("^/Enter default project");
B393                call read_project;
B394                end;
B395                if (what = "" | what = "alias") & alias_allowed then do;
B396                    if loud then call ioa_ ("^/Enter alias");
B397                call read_alias;
B398                end;

A393                     if what = "" | what = "flags" then call read_flags;
A394                     if what = "" | what = "auth" then
A395             call read_authorization_range (pn.te.person_authorization);
A396                     if what = "" | what = "dfauth" then
A397             call read_default_authorization
(pn.te.default_person_authorization);
A398                     if what = "" | what = "audit" then call read_audit;

Changed by B to:
B414                     if what = "" | what = "flags" then do;
B415                         if loud then call ioa_ ("^/User registration flags:");
B416                     call read_flags;
B417                     end;
B418                     if what = "" | what = "auth" then do;
B419                         if loud then call ioa_ ("^/User authorization range:");
B420             call read_authorization_range (pn.te.person_authorization);
B421                     end;
B422                     if what = "" | what = "dfauth" then do;
B423                         if loud then call ioa_ ("Default user authorization:");
B424                     call read_default_authorization
(pn.te.default_person_authorization);
B425                     end;
B426                     if what = "" | what = "audit" then do;
B427                         if loud then call ioa_ ("^/Audit flags:");
B428                     call read_audit;
B429                     end;

Comparison finished: 7 differences, 75 lines.
r 12:57 1.746 25

Documentation

No changes are needed as behavior is changed to match the documentation.

Testing

Testing will involve invoking the new_user$change and new_user$cg entries and observing the differences, as well as making sure that no untoward effects of the change are seen.

Version History

<table>
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<tr>
<th>Date</th>
<th>Revision</th>
<th>Author</th>
<th>Comment</th>
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<td>2020-01-22</td>
<td>1.0</td>
<td>Eric Swenson</td>
<td>Initial revision of the MCR.</td>
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