

Subject: MCR-10074 Fix intended differentiation between new_user\$change and new_user\$cg

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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:

```
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.

Ticket <http://multics-trac.swenson.org/ticket/159> describes this issue.

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:

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

Inserted in B:
B32      5) change(2020-01-22,Swenson), approve(2020-01-22,MCR10074):
B33      Fix new_user$cg 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;
```

```

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 (pnte.person_authorization);
A396         if what = "" | what = "dfauth" then
A397             call read_default_authorization
(pnte.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 (pnte.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
(pnte.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

Date	Revision	Author	Comment
2020-01-22	1.0	Eric Swenson	Initial revision of the MCR.