**Freeciv - Bug #700906**

2.6: can never get Settler-type units from huts

2017-10-02 10:43 PM - frank e

<table>
<thead>
<tr>
<th>Status: Closed</th>
<th>Start date:</th>
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<tbody>
<tr>
<td>Priority: Normal</td>
<td>Due date: 0%</td>
</tr>
<tr>
<td>Assignee: Jacob Nevins</td>
<td>% Done: 0%</td>
</tr>
<tr>
<td>Category: Scripting API</td>
<td>Estimated time: 0.00 hour</td>
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<tr>
<td>Sprint/Milestone: 2.6.0-RC2</td>
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**Description**

For comparison, found in...

2.6.0-beta1/data/default/default.lua:

```lua
local settlers = find.role_unit_type('Cities', owner)
```

2.5.9/data/default/default.lua:

```lua
local settlers = find.role_unit_type('Cities', owner)
```

~/.freeciv/2.x/radius/script.lua:

```lua
if radius_vers < 260
    then type = radius_hut_type( owner, tile, "Cities" )
else type = radius_hut_type( owner, tile, "CitiesStartUnit" )
end
```

**Related issues:**

Related to Freeciv - Bug #763890: Hut on NoCities flag terrain wouldn't turns... Rejected

**History**

#1 - 2017-10-02 11:13 PM - Marko Lindqvist

If this is a suggestion that default.lua should give CitiesStartUnit from huts instead of Cities, I disagree. The CitiesStartUnit flag should not be used for anything else than start unit selection. The ruleset may rely on the unit not being available otherwise (e.g. to give more powerful city founder unit initially to boost the game start)

#2 - 2017-10-02 11:52 PM - frank e

Marko Lindqvist wrote:

If this is a suggestion that default.lua should give CitiesStartUnit from huts instead of Cities, I disagree.

Actually I think that role Cities does not more exist, it was renamed. But I'm not sure what find.role_unit_type( role, owner ) does.

#3 - 2017-10-03 02:09 AM - Marko Lindqvist

frank e wrote:

Marko Lindqvist wrote:

If this is a suggestion that default.lua should give CitiesStartUnit from huts instead of Cities, I disagree.

Actually I think that role Cities does not more exist, it was renamed.

Flags count as roles too.

#4 - 2017-10-14 01:23 AM - frank e

Marko Lindqvist wrote:

Flags count as roles too.

Nice, reverted in my radius/script.lua, if it's documented somewhere close this issue, please.

#5 - 2018-01-19 12:49 AM - Jacob Nevins

- Sprint/Milestone deleted (2.6.0-beta2)
frank e wrote:

Marko Lindqvist wrote:

Flags count as roles too.

... if it's documented somewhere close this issue, please.

So this ticket has turned to a documentation feature.

#7 - 2018-02-24 04:42 PM - Marko Lindqvist

- Blocks Feature #698197: Documentation updates for S2_6 added

#8 - 2018-07-08 10:10 AM - Jacob Nevins

- Related to Bug #763890: Hut on NoCities flag terrain wouldn't turns to settlers in civ2civ3 added

#9 - 2018-07-08 10:44 AM - Jacob Nevins

- Tracker changed from Feature to Bug

(Coming back to this because of Akechi's report #763890, which makes a testable prediction about it.)

Flags count as roles too.

Unfortunately, for the purpose of Lua find.role_unit_type(), they do not. While best_role_unit_for_player() and get_role_unit() would happily work for flags, the unit_role_id_by_name() that is called previously genuinely only works for roles, not flags.

#10 - 2018-07-08 10:55 AM - Jacob Nevins

What would be the impact on common rulesets of changing from "Cities" to "CitiesStartUnit", as suggested here, apart from fixing the bug that you can never get Settler-type units from huts on 2.6+ currently?

- civ1, civ2, civ2civ3, classic, experimental, multiplayer, sandbox, variant2: none (set of Cities unit types == CitiesStartUnit)
- alien: none, as there are no NoCities terrains on which you can find a Space Capsule. (If that weren't the case: Native Settlers and Water Engineer are Cities but not CitiesStartUnit, so you'd no longer get them from from a Space Capsule.)

(Also, on S3_0+, "Cities" is now a conventional name for a ruleset-defined flag, not a built-in flag.)

#11 - 2018-07-08 11:03 AM - Jacob Nevins

- Subject changed from 260b1 _deflua_hut_get_city to 2.6: can never get Settler-type units from huts
- Category deleted (Documentation)

But, as cazfi says, we split out the *StartUnit for a reason, so piling extra semantics on them doesn't seem like a good idea.

Alternatively, could we get away with making Lua find.role_unit_type() also look at flags in 2.6.0, by adding a call to unit_type_flag_id_by_name()? This is a behavioural change, but only one that makes code that could never have worked start working. Otherwise we have to leave this mess unresolved until 3.0.

#12 - 2018-07-08 12:22 PM - Jacob Nevins

- File m-lua-unit-by-flag-1.patch added
- File 30-26-lua-unit-by-flag-1.patch added
- File m-lua-unit-by-flag-2.patch added
- File 30-26-lua-unit-by-flag-2.patch added
- Category set to Scripting API
- Status changed from New to In Progress
- Assignee set to Jacob Nevins

2022-09-02
Here are two options for patching.
I'm inclined to commit one of these for 2.6.0, and probably declare an RC2 before 2.6.0-final.

1. Extend find.role_unit_type() semantics to also cover flags. Small patch, no change to scripts.
2. Keep find.role_unit_type() unchanged, but add find.flag_unit_type(), and call that from the default hut code. Bigger patch, but has the advantage over 1 that anyone taking a custom ruleset back to RCs/betas at least has a hard failure rather than a silent one. Ruleset authors who've replaced the hut functionality will need to change their rulesets.

I favour option 2, unless someone finds some reason to object. I'll commit within a few days, unless someone objects.

(Neither of them gives access to the internal "action_roles" added by gna patch #5554 -- utype_can_do_action_role(), etc.)

#13 - 2018-07-08 12:24 PM - Jacob Nevins
- Blocks deleted (Feature #698197: Documentation updates for S2_6)

#14 - 2018-07-08 12:40 PM - Marko Lindqvist
I think I would prefer 1. That would make my earlier assumption true; flags to count as roles in this respect too (consistency, would be what I expect knowing behavior of the other functions).

But I might be the only one who ever has expected that behavior, or would expect it simply after reading best_role_unit_for_player() and get_role_unit() documentation (currently code comments). Tricky.

#15 - 2018-07-08 02:23 PM - Jacob Nevins
- Sprint/Milestone changed from 2.6.0 to 2.6.0-RC2

#16 - 2018-07-11 07:35 AM - Jacob Nevins

#17 - 2018-07-11 07:24 PM - Jacob Nevins
- Status changed from In Progress to Closed

Files

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<th>Date</th>
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<td>m-lua-unit-by-flag-1.patch</td>
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