



NEWFIRM

SYSTEM DESIGN NOTE

Title: SDN9005 NDGI Drama Interface					
Prepared by	Date	Approved by	Date	Rev.	Rev Date
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Related documents:					

NEWFIRM OBSERVATION HEADER SYSTEM (NDGI)

DRAMA Streams and Commands

History

v1.0.0:

- 30-Jan-2004 P. N. Daly (pnd@noao.edu)
- original version

Instrument File (ndgi.inst)

ndgi

ndgi DRAMA ndgi enable

Dictionary (ndgi.dict)

```

ready          0
wait           1
resume         0
pause          0
break          0 -cmd pause
breakPoint     0
abort          0
title          1
set            2
iadd           2
fadd           2
ndgi_decic    1 -t ndgi -tout 30 -end ready
ndgi_decoff   1 -t ndgi -tout 30 -end ready
ndgi_exit     0 -t ndgi -tout 30
ndgi_focus    1 -t ndgi -tout 30
ndgi_f8link   1 -t ndgi -tout 30
ndgi_f8pos    1 -t ndgi -tout 30
ndgi_f8tip    1 -t ndgi -tout 30
ndgi_f8tilt   1 -t ndgi -tout 30
ndgi_gmode    1 -t ndgi -tout 30
ndgi_gmotion  1 -t ndgi -tout 30
ndgi_help     0 -t ndgi -tout 30
ndgi_instname 1 -t ndgi -tout 30
ndgi_init     0 -t ndgi -tout 30

```



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```
ndgi_link    1 -t ndgi -tout 30
ndgi_raic    1 -t ndgi -tout 30 -end ready
ndgi_raoff   1 -t ndgi -tout 30 -end ready
ndgi_status  0 -t ndgi -tout 30
ndgi_updates 1 -t ndgi -tout 30
ndgi_version 0 -t ndgi -tout 30
endDictionary
```

Test EXEC (ndgi.exec)

```
-----
ndgi_init 2453019.340910
ndgi_help
ndgi_status
ndgi_version
ndgi_link up
ndgi_updates on
ndgi_gmode on
ndgi_instname mosaic
ndgi_raic 0.5
ready
ndgi_decic -0.5
ready
```

Notes

Actions

All tasks support exit, help, status and version commands in a generic way. All tasks also support a specific init command which must be executed prior to other commands being issued. Also see the section "Test EXEC" above.

The named DRAMA actions give the following results:

Action(s):

```
Dtcl> drama::obey ndgi_instname newfirm
```

Result:

Sets the instrument name in GWC

Action(s):

```
Dtcl> drama::obey ndgi_decic -0.5
```

Result:

Moves the instrument center in declination by given amount

Action(s):

```
Dtcl> drama::obey ndgi_decoff 0.5
```

Result:

Moves the declination offset by given amount



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Action(s):

```
Dtcl> drama::obey ndgi_raic -0.5
```

Result:

Moves the instrument center in declination by given amount

Action(s):

```
Dtcl> drama::obey ndgi_raoff 0.5
```

Result:

Moves the declination offset by given amount

Action(s):

```
Dtcl> drama::obey ndgi_focus move 500
```

Result:

Moves the focus pedestal to given position

Comment(s):

Not expected to be used in higher-level software

Action(s):

```
Dtcl> drama::obey ndgi_f8link up
```

Result:

Enables the link to the F8 secondary controller

Action(s):

```
Dtcl> drama::obey ndgi_f8pos 517.0
```

Result:

Sets the F8 secondary focus to given value

Action(s):

```
Dtcl> drama::obey ndgi_f8tip 0.25
```

Result:

Sets the F8 secondary tip angle to given value

Action(s):

```
Dtcl> drama::obey ndgi_f8tilt -0.33
```

Result:

Sets the F8 secondary tilt angle to given value

Action(s):

```
Dtcl> drama::obey ndgi_updates on
```

Result:

Enables TCS updates

Action(s):

```
Dtcl> drama::obey ndgi_gmotion enabled
```

Result:

Enables guider motion

Action(s):

```
Dtcl> drama::obey ndgi_gmode on
```



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Result:
Enables guider