Version 1.0.1, 2007-Mar-05

There is a single CLI, `nwamcfg(1m)`, which serves for both configuration and administration. It borrows much from `zonecfg(1m)`: the concepts of *scope*, the terms *resources* and *properties*, and much of the syntax is similar. Here is a sample session:

```
# nwamcfg
nwamcfg> create env
nwamcfg:env> set name=swan
nwamcfg:env> add profile
Enter nodename: laptop
Enter nfs_domain: sun.com
Enter dns_domain: sun.com
Enter ns file: /etc/nsswitch.dns
Enter proxy file: swan.pac
Enter ipf file: /etc/ipf/ipf.conf
Enter ipsec file:
Enter smf_svc file: smf_svc_info
End of walk.
nwamcfg:env> add condition ip_address in 129.144/12
nwamcfg:env> set priority=1
nwamcfg:env> end
nwamcfg> activate env home
nwamcfg> select ncp main
nwamcfg:ncp> insert ncu
nwamcfg:ncp:ncu> set type=link
nwamcfg:ncp:ncu> set name=bge0
nwamcfg:ncp:ncu> end
nwamcfg:ncp> end
nwamcfg> exit
#
```

Here is a syntax breakdown; commands valid in all scopes:

- `exit`
- `help`
- `info`

global scope:

- `create` *resource*
- `select` *resource name*

- `destroy` *resource name*
- `activate` *resource name*
- `commit`
- `export`
- `import`

valid one-level resources:

- `env`

valid two-level resources:

- `ncp`

one-level resource scope:

- `walk`
- `set` *simple-property=value*
- `add` *list-property value*
- `end`

two-level resource scope:

- `insert` *sub-resource*
- `select` *sub-resource name*
- `delete` *sub-resource name*
- `set` *simple-property=value*
- `add` *list-property value*
- `end`

valid sub-resources for `ncp`:

- `ncu`

properties for various resources

resource	simple properties	list properties
env		profile, priority, condition
all NCUs	type, class, name, activation, over, under	contingency
link-type NCUs	devname, linkid, macaddr, macaddr_mode, mtu	autopush
link/phys NCUs	speed, duplex, jumbo	
link/vlan NCUs	vid	
link/aggr NCUs	key, nports, lacp_mode, lacp_timer	ports
link/iptun NCUs	tunnel_type, tsrc, tdst, encr_alg, encr_auth_alg, auth_alg	
ip NCUs	version, addr, timeout (if dhcp), fallback_addr (if dhcp)	addrsrc
ip/ipmp NCUs	v4_test_addr	

property details:

- most *value* entries are simple strings; two special cases below
  - *value* := *string*
- special case 1: `condition`
  - *condition* := *simple-condition* | ["("] *condition bop condition* [")"]
  - *bop* := `"and"` | `"or"`
  - *simple-condition* := *tag operator operand*
  - *tag* := `"ip_address"` | `"domain_name"` | `"essid"` | `"bssid"`
  - *operator* := `"=="` | `"!="` | `"in"` | `"range"` | `"begins"` | `"ends"` | `"contains"` | `"!contains"`
  - *operand* := *IP address* ["/" *prefix-length*] | *string*
  - special case when *operator* is `"range"`:
  - *operand* := *IP address* "-" *IP address*
- special case 2: `contingent`
  - *contingent* := *cop ncu-name*
  - *cop* := `"require"` | `"optional"` | `"exclude"`
  - *ncu-name* := *string*