African Top Level Registry

AN AFRICAN REGISTRY SOLUTION
Overview
Policy Delegation
Policy Creation

```
PolicyExec.dispatchEvent(objectname, event, pid=Utils.currentPID())
PolicyExec.dnssec_nameserverKeyCheck(minResponse=0.1, timeout=2, tcp=False)
PolicyExec.expireTimer(event, pid=Utils.currentPID())
PolicyExec.fieldConstraintsValidation()
PolicyExec.getObjectName()
PolicyExec.ISDNSSECChecked(minResponse=0.1, timeout=2, tcp=False)
PolicyExec.isEncodedAs(XPath, encoding)
PolicyExec.payloadContains(xpathStr)

 Queues an asynchronous event for immediate processing

@param objectname: Normally the same object which would call this event, one of
(but not limited to) {Domain, Contact, Host}
@param futureEvent: The predefined event that should be executed, e.g:
PendingUpdate or PendingRelease for Domain events
@param pid: Use this policy identifier if supplied, otherwise use the default

@return: the timerID
```
Policy Extensions
Policy Implementation

```
# Pol.Ver6: 6.3.3.2 On expiry of the remainder of
# the grace period, the domain name will automatically be
# deleted (removed from the registry database), and revert
# back into the pool of available domain names.
PolicyExec.startTimer(
    "Domain",
    "PendingGracePeriodSuspension",
    PolicyPeriod)
```
<pc:events pc:name="Delete">
  <pc:activities pc:name="ConstraintsCheck">
    <pc:rules>PolicyExec.fieldConstraintsValidation()</pc:rules>
  </pc:activities>
  <pc:activities pc:name="DomainStatusCheck">
    <pc:rules># Pol. Ver6: 6.2.5 Domain names that are locked cannot be cancelled, suspended or deleted. </pc:rules>
    <pc:rules># Note: We have not branched yet so both apply. </pc:rules>
    <pc:rules>DomainPolicy.statusCheck(["pendingDelete", "pendingUpdate", "pendingTransfer", "serverDeleteProhibited"])</pc:rules>
  </pc:activities>
  <pc:activities pc:name="DependencyCheck">
    <pc:rules>DomainPolicy.dependencyCheck()</pc:rules>
  </pc:activities>
  <pc:activities pc:name="DomainOwnershipCheck">
    <pc:rules>DomainPolicy.ownershipCheck()</pc:rules>
  </pc:activities>
  <pc:activities pc:name="Command: Domain, Delete, DryRun">
    <pc:rules>StandardCommands.delete(dryRun = True)</pc:rules>
  </pc:activities>
</pc:events>

<pc:branch pc:decision="DomainPolicy.isInGracePeriod(PolicyPeriod)">
  <pc:answerTrue pc:name="InGracePeriod">
    <pc:children pc:name="DomainState: PendingRelease">
    </pc:children>
  </pc:answerTrue>
</pc:branch>
Policy Merge
Registry Test Editor
Automated Accreditation

Define Checks

{
    "//contact:check":"//epp:result[@code='1000']",
    "//contact:create":"//epp:result[@code='1000']",

...

}

Result

registrar - 28/28 passed
  //contact:check - True
  //contact:create – True

...
Standards

- IETF Std 69 (EPP)
- RFC 5730-4 (EPP, Domain, Contact, Host, TCP/IP)
- RFC 5910 (EPP DNSSEC)
- RFC 3912 (Whois)
- RFC 1035 (DNS Zone File)
.co.za Statistics

Average response times for September

Create: 70ms
Delete: 72ms
Update: 51ms
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