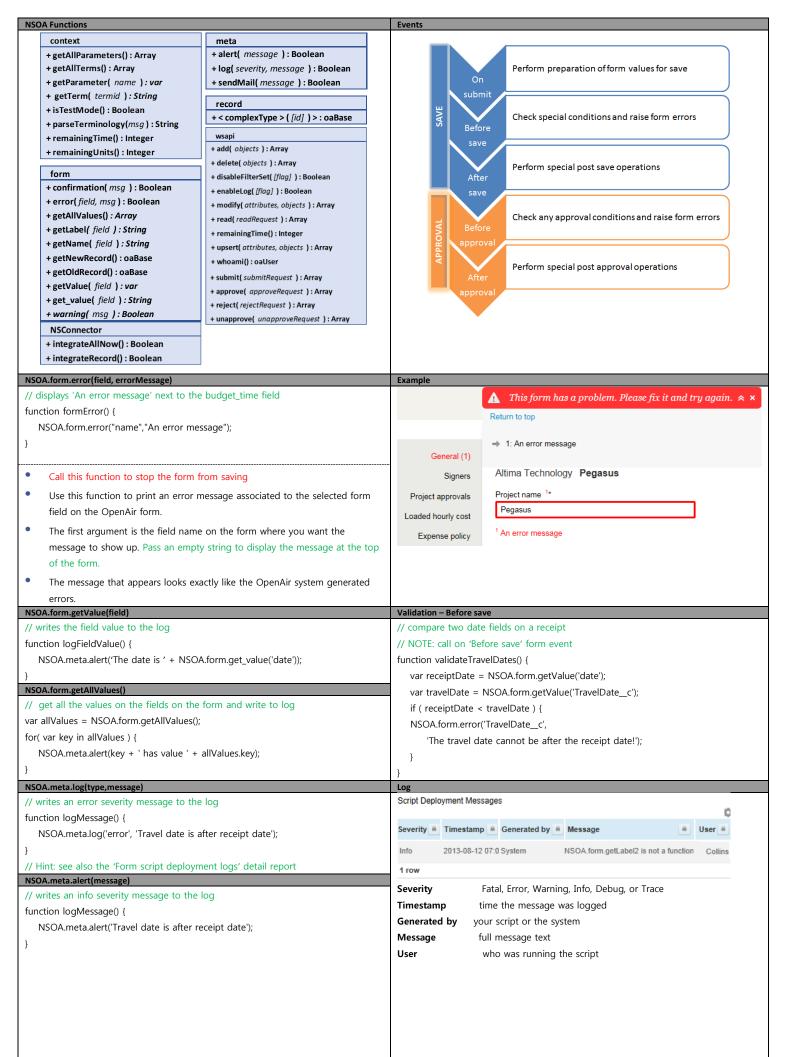
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```
NSOA.record.<complex type>( [id] )
function testCreatingObjects {
                                                                                         // create a new category
   // create category object populated with data for id = 5
                                                                                         function createCategory {
   var populatedCategory = NSOA.record.oaCategory(5);
                                                                                            // create an empty category object
   // create a blank category object
                                                                                            var category = new NSOA.record.oaCategory();
   var blankCategory = NSOA.record.oaCategory();
                                                                                            // fill out the details - the ID is created by OpenAir
                                                                                             category.name = "New Category";
NSOA.wsapi.add(objects)
                                                                                             category.cost_centerid = "123";
     See the example on the right
                                                                                             category.currency = "USD";
                                                                                            // invoke the add call
     The function takes an array of objects
                                                                                            var results = NSOA.wsapi.add( [category] );
     [category] // This is an array with one category object
                                                                                            // log the ID of the new category
      You can pass up to 1000 objects
                                                                                             NSOA.meta.alert('The category id is ' + results[0].id);
      The ID is created by the system (returned in the result)
NSOA.form.getNewRecord()
                                                                                         // This is called on the "After save" event for the Project form
     See the example on the right
                                                                                         function append_to_project_notes() {
     Gets the entity record for a form with the newly saved values
                                                                                            // get the saved project values
      This function should be called on the After save event
                                                                                            var newr = NSOA.form.getNewRecord();
      The function returns null if called before the form has been saved
                                                                                            // Invoke the add call
      NSOA.form.getOldRecord() returns the current (unsaved) values
                                                                                            var project = new NSOA.record.oaProject();
NSOA.wsapi.disableFilterSet([flag])
                                                                                             project.id = newr.id; // use the saved project ID
function testDisableFilterSet {
                                                                                             project.notes = newr.notes + "\mathbf{m}Appended: " + (new Date().toString());
   // disables user filter sets on .wsapi requests
                                                                                             // disable user filters to make sure it runs for all users
   NSOA.wsapi.disableFilterSet(true);
                                                                                             NSOA.wsapi.disableFilterSet(true);
   // enables user filterset on .wsapi requests (default)
                                                                                            // invoke the modify call
   NSOA.wsapi.disableFilterSet(false);
                                                                                            var arrayOfupdateResult = NSOA.wsapi.modify([], [project]);
   // returns the Boolean state (without changing setting)
                                                                                            // log the modify status
   var filtersDisabled = NSOA.wsapi.disableFilterSet();
                                                                                             NSOA.meta.alert("Got modify status: " + arrayOfupdateResult[0].status);
// Hint: set NSOA.wsapi.enableLog(true) to show SOAP messages
Scripting Governance
                                                                                         Governance Units
                                                                                         NSOA.context.getTerm(termid)
                                                                                                                                                           0
To prevent scripts from consuming excessive resources or running out of control,
                                                                                         NSOA.context.isTestMode()
two limitations are placed on scripts:
                                                                                         NSOA.context.remainingTime()
Time Limit — If a form script runs for more than 5 seconds (not including wsapi
                                                                                         NSOA.context.remainingUnits()
                                                                                          NSOA.record.<complex type>([id])
call time) it is automatically terminated with a form error.
                                                                                         NSOA.wsapi.remainingTime()
If a request (all scripts triggered by the same form save) uses more than 60
                                                                                         NSOA.context.getParameter(name)
                                                                                         NSOA.form.confirmation(message)
seconds of wsapi time it will also be automatically terminated.
                                                                                         NSOA.form.error(field, message)
Scheduled scripts are allowed 1 hour of JS runtime and 1 hour of wsapi.
                                                                                         NSOA.form.getLabel(field)
                                                                                         NSOA.form.getName(field)
Units Limit - NSOA functions are assigned a unit value. Each time an NSOA
                                                                                         NSOA.form.getNewRecord()
function is called its unit value is consumed. A form script is allowed to consume a
                                                                                         NSOA.form.getOldRecord()
maximum of 1000 units with each run before it is automatically terminated with a
                                                                                         NSOA.form.getValue(field)
                                                                                         NSOA.form.get value(field)
form error.
                                                                                         NSOA.form.warning(message)
Scheduled scripts are allowed 1, 000, 000 units.
                                                                                         NSOA.record.<complex type>([id])
                                                                                         NSOA.wsapi.disableFilterSet([flag])
SendMail Limit — Forms scripts are allowed to send a maximum of 3 emails on a
                                                                                          NSOA.wsapi.enableLog([flag])
single event. Scheduled scripts are allowed to send a maximum of 100 emails on a
                                                                                         NSOA.wsapi.whoami()
single scheduled event.
                                                                                         NSOA.context.parseTerminology(message)
                                                                                                                                                           4
                                                                                          NSOA.meta.alert(message)
                                                                                         NSOA.meta.log(severity, message)
                                                                                         NSOA.context.getAllParameters()
                                                                                         NSOA.context.getAllTerms()
NSOA.context.remainingUnits()
                                                                                         NSOA.form.getAllValues()
                                                                                         NSOA.meta.sendMail(msg)
                                                                                         NSOA.NSConnector.integrateRecord()
                                                                                                                                                           20 (+10 per additional
                                                                                         NSOA.wsapi.read(readRequest)
// displays remaining units as a form error message
                                                                                         NSOA.wsapi.add(objects)
                                                                                                                                                           object)
function displayRemainingUnits () {
                                                                                          NSOA.wsapi.delete(objects)
   NSOA.form.error(",'Units: ' + NSOA.context.remainingUnits());
                                                                                                                                                            40 (+20 per additional
                                                                                         NSOA.wsapi.modify(attributes, objects)
                                                                                         NSOA.wsapi.upsert(attributes,objects)
                                                                                                                                                           object)
                                                                                          NSOA.NSConnector.integrateAllNow()
                                                                                                                                                            1000
Editor Shortcuts
                                                                                         Scripting Documentation
<Ctrl> + <SPACE>
                                    Show Auto List (after "NSOA.")
                                                                                         OpenAir User Scripting Guide
                                                                                         OpenAir SOAP API Reference Guide
<Ctrl> + <F11>
                                    Full-screen editor (<Esc> to exit)
<Ctrl> + F
                                    Start a search
<Ctrl> + G
                                    Find next
<Shift> + <Ctrl> + G
                                    Find previous
<Shift> + <Ctrl> + F
                                    Replace
<Shift> + <Ctrl> + R
                                    Replace all
\langle Alt \rangle + G
                                    Activate Jump to Line dialog
```