

OpenAir User Scripting Reference Card

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NSOA Functions	Events										
<p>context</p> <pre>+ getAllParameters(): Array + getAllTerms(): Array + getParameter(name): var + getTerm(termid): String + isTestMode(): Boolean + parseTerminology(message): String + remainingTime(): Integer + remainingUnits(): Integer</pre> <p>form</p> <pre>+ confirmation(message): Boolean + error(field, message): Boolean + getAllValues(): Array + getLabel(field): String + getName(field): String + getNewRecord(): oaBase + getOldRecord(): oaBase + getValue(field): var + get_value(field): String + warning(message): Boolean + setValue(field, value): String</pre> <p>https</p> <pre>+ delete(request): Object + get(request): Object + patch(request): Object + post(request): Object + put(request): Object</pre> <p>listview</p> <pre>+ data(listviewId): Iterator + list(): Array</pre>	<pre> graph TD OnSubmit[On submit] --> BeforeSave[Before save] BeforeSave --> AfterSave[After save] AfterSave --> PostSave[Perform special post save operations] BeforeSave --> BeforeApproval[Before approval] BeforeApproval --> AfterApproval[After approval] AfterApproval --> CheckApproval[Check any approval conditions and raise form errors] Both --> PrepSave[Perform preparation of form values for save] </pre>										
<p>NSOA.form.error(field, errorMessage)</p> <pre>// displays 'An error message' next to the budget_time field function formError() { NSOA.form.error("name", "An error message"); }</pre> <ul style="list-style-type: none"> Call this function to stop the form from saving Use this function to print an error message associated to the selected form field on the OpenAir form. The first argument is the field name on the form where you want the message to show up. Pass an empty string to display the message at the top of the form. The message that appears looks exactly like the OpenAir system generated errors. 	<p>Example</p> <div style="background-color: #f0f0f0; padding: 10px;"> <p>⚠ This form has a problem. Please fix it and try again. ✖</p> <p>Return to top</p> <p>⇒ 1: An error message</p> <p>General (1)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Signers</td> </tr> <tr> <td style="padding: 5px;">Project approvals</td> </tr> <tr> <td style="padding: 5px;">Loaded hourly cost</td> </tr> <tr> <td style="padding: 5px;">Expense policy</td> </tr> </table> <p>Altimta Technology Pegasus</p> <p>Project name ^{1*}</p> <p>Pegasus</p> <p>1 An error message</p> </div>	Signers	Project approvals	Loaded hourly cost	Expense policy						
Signers											
Project approvals											
Loaded hourly cost											
Expense policy											
<p>NSOA.form.getValue(field)</p> <pre>// writes the field value to the log function logFieldValue() { NSOA.meta.alert('The date is ' + NSOA.form.get_value('date')); }</pre> <p>NSOA.form.getAllValues()</p> <pre>// get all the values on the fields on the form and write to log var allValues = NSOA.form.getAllValues(); for(var key in allValues) { NSOA.meta.alert(key + ' has value ' + allValues[key]); }</pre> <p>NSOA.meta.log(type,message)</p> <pre>// writes an error severity message to the log function logMessage() { NSOA.meta.log('error', 'Travel date is after receipt date'); } // Hint: see also the 'Form script deployment logs' detail report</pre> <p>NSOA.meta.alert(message)</p> <pre>// writes an info severity message to the log function logMessage() { NSOA.meta.alert('Travel date is after receipt date'); }</pre>	<p>Validation – Before save</p> <pre>// compare two date fields on a receipt // NOTE: call on 'Before save' form event function validateTravelDates() { var receiptDate = NSOA.form.getValue('date'); var travelDate = NSOA.form.getValue('TravelDate_c'); if (receiptDate < travelDate) { NSOA.form.error('TravelDate_c', 'The travel date cannot be after the receipt date!'); } }</pre> <p>Log</p> <p>Script Deployment Messages</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Severity</th> <th>Timestamp</th> <th>Generated by</th> <th>Message</th> <th>User</th> </tr> </thead> <tbody> <tr> <td>Info</td> <td>2013-08-12 07:0</td> <td>System</td> <td>NSOA.form.getLabel2 is not a function</td> <td>Collins</td> </tr> </tbody> </table> <p>1 row</p> <p>Severity Fatal, Error, Warning, Info, Debug, or Trace Timestamp time the message was logged Generated by your script or the system Message full message text User who was running the script</p>	Severity	Timestamp	Generated by	Message	User	Info	2013-08-12 07:0	System	NSOA.form.getLabel2 is not a function	Collins
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NSOA.record.<complex type>([id])	Creating Records
<pre>function testCreatingObjects { // create category object populated with data for id = 5 var populatedCategory = NSOA.record.oaCategory(5); // create a blank category object var blankCategory = NSOA.record.oaCategory(); }</pre>	<pre>// create a new category function createCategory { // create an empty category object var category = new NSOA.record.oaCategory(); // fill out the details – the ID is created by OpenAir category.name = "New Category"; category.cost_centerid = "123"; category.currency = "USD"; // invoke the add call var results = NSOA.wsapi.add([category]); // log the ID of the new category NSOA.meta.alert('The category id is ' + results[0].id); }</pre>
NSOA.wsapi.add(objects)	Modifying Records
<ul style="list-style-type: none"> See the example on the right The function takes an array of objects [category] // This is an array with one category object You can pass up to 1000 objects The ID is created by the system (returned in the result) 	<pre>// This is called on the "After save" event for the Project form function append_to_project_notes() { // get the saved project values var newr = NSOA.form.getNewRecord(); // Invoke the add call var project = new NSOA.record.oaProject(); project.id = newr.id; // use the saved project ID project.notes = newr.notes + "\nAppended: " + (new Date().toString()); // disable user filters to make sure it runs for all users NSOA.wsapi.disableFilterSet(true); // invoke the modify call var arrayOfupdateResult = NSOA.wsapi.modify([], [project]); // log the modify status NSOA.meta.alert("Got modify status: " + arrayOfupdateResult[0].status); }</pre>
NSOA.form.getNewRecord()	Governance Units
<ul style="list-style-type: none"> See the example on the right Gets the entity record for a form with the newly saved values This function should be called on the After save event The function returns null if called before the form has been saved NSOA.form.getOldRecord() returns the current (unsaved) values 	<pre>NSOA.context.getTerm(termid) NSOA.context.isTestMode() NSOA.context.remainingTime() NSOA.context.remainingUnits() NSOA.record.<complex type>([id]) NSOA.wsapi.remainingTime()</pre>
NSOA.wsapi.disableFilterSet([flag])	<pre>NSOA.context.getParameter(name) NSOA.form.confirmation(message) NSOA.form.error(field, message) NSOA.form.getLabel(field) NSOA.form.getName(field) NSOA.form.getNewRecord() NSOA.form.getOldRecord() NSOA.form.getValue(field) NSOA.form.get_value(field) NSOA.form.warning(message) NSOA.listview.list(), NSOA.report.list() NSOA.wsapi.disableFilterSet([flag]) NSOA.wsapi.enableLog([flag]) NSOA.wsapi.whoami()</pre>
Scripting Governance	<pre>NSOA.context.parseTerminology(message) NSOA.meta.alert(message) NSOA.meta.log(severity, message)</pre>
To prevent scripts from consuming excessive resources or running out of control, two limitations are placed on scripts: Time Limit — If a form script runs for more than 5 seconds (not including wsapi call time) it is automatically terminated with a form error. If a request (all scripts triggered by the same form save) uses more than 60 seconds of wsapi time it will also be automatically terminated. Scheduled scripts are allowed 1 hour of JS runtime and 1 hour of wsapi. Units Limit — NSOA functions are assigned a unit value. Each time an NSOA function is called its unit value is consumed. A form script is allowed to consume a maximum of 1000 units with each run before it is automatically terminated with a form error. Scheduled scripts are allowed 1,000,000 units. SendMail Limit — Forms scripts are allowed to send a maximum of 3 emails on a single event. Scheduled scripts are allowed to send a maximum of 100 emails on a single scheduled event.	<pre>NSOA.context.getAllParameters() NSOA.context.getAllTerms() NSOA.form.getAllValues() NSOA.https.delete(request) NSOA.https.get(request) NSOA.https.patch(request) NSOA.https.post(request) NSOA.https.put(request) NSOA.meta.sendMail(msg) NSOA.NSConnector.integrateRecord()</pre>
NSOA.context.remainingUnits()	<pre>NSOA.listview.data(listviewId) NSOA.report.data(reportId, optionalParameters)</pre>
<pre>// displays remaining units as a form error message function displayRemainingUnits () { NSOA.form.error("Units: " + NSOA.context.remainingUnits()); }</pre>	<pre>10 for each page loaded into iterator on demand (max 1000 items per page)</pre>
Editor Shortcuts	Scripting Documentation
<pre><Ctrl> + <Space> <Ctrl> + <F11> <Ctrl> + F <Ctrl> + G <Shift> + <Ctrl> + G <Shift> + <Ctrl> + F <Shift> + <Ctrl> + R <Alt> + G</pre>	Show Auto List (after "NSOA.") Full-screen editor (<Esc> to exit) Start a search Find next Find previous Replace Replace all Activate Jump to Line dialog