

# **Developer Guide**

## **Filr 1.0 Beta**

January 2013

**Novell.**

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1800 South Novell Place  
Provo, UT 84606  
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# About This Manual

The *Novell Filr 1.0 Developer Guide* presents ways to extend the functionality of Novell Filr. The guide is divided into the following sections:

- ♦ [Chapter 1, “REST,” on page 7](#)

## Audience

This guide is intended for programmers who want to write custom development for Filr.

## Feedback

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please use the User Comments feature at the bottom of each page of the online documentation.

## Documentation Updates

For the most recent version of this manual, visit the [Novell Filr 1.0 Documentation Web site \(wwwtest.provo.novell.com/documentation\)](http://wwwtest.provo.novell.com/documentation).

## Additional Documentation

You can find more information in the Novell Filr documentation, which is accessible from the [Novell Filr 1.0 Documentation Web site \(wwwtest.provo.novell.com/documentation\)](http://wwwtest.provo.novell.com/documentation).

To access the *Novell Filr User Guide* from within Filr, click the *Help* icon (question mark).



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# 1 REST

- ♦ [Section 1.1, “REST Resources,” on page 7](#)
- ♦ [Section 1.2, “Data Model,” on page 8](#)
- ♦ [Section 1.3, “Files Libraries,” on page 12](#)

## 1.1 REST Resources

This API supports a Representational State Transfer (REST) model for accessing a set of resources through a fixed set of operations. The following resources are accessible through the RESTful model:

- ♦ [BinderResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_BinderResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_BinderResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_BinderResource.html))
- ♦ [DefinitionResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_DefinitionResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_DefinitionResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_DefinitionResource.html))
- ♦ [FileResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_FileResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_FileResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_FileResource.html))
- ♦ [FileVersionResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_FileVersionResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_FileVersionResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_FileVersionResource.html))
- ♦ [FolderEntryResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_FolderEntryResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_FolderEntryResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_FolderEntryResource.html))
- ♦ [FolderResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_FolderResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_FolderResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_FolderResource.html))
- ♦ [GroupResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_GroupResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_GroupResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_GroupResource.html))
- ♦ [LegacyFileByIdResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_LegacyFileByIdResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_LegacyFileByIdResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_LegacyFileByIdResource.html))
- ♦ [LegacyFileByNameResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_LegacyFileByNameResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_LegacyFileByNameResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_LegacyFileByNameResource.html))
- ♦ [LegacyFileVersionResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_LegacyFileVersionResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_LegacyFileVersionResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_LegacyFileVersionResource.html))
- ♦ [MiscResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_MiscResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_MiscResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_MiscResource.html))
- ♦ [NetFoldersResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_NetFoldersResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_NetFoldersResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_NetFoldersResource.html))
- ♦ [ReplyResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_ReplyResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_ReplyResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_ReplyResource.html))
- ♦ [SelfResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_SelfResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_SelfResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_SelfResource.html))

- [ShareResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_ShareResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_ShareResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_ShareResource.html))
- [TemplateResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_TemplateResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_TemplateResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_TemplateResource.html))
- [UserResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_UserResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_UserResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_UserResource.html))
- [WorkspaceResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_WorkspaceResource.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/resource\\_WorkspaceResource.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_WorkspaceResource.html))

The REST resources expose a data model that is supported by a set of client-side libraries. For more information about these libraries, see [Section 1.3, “Files Libraries,”](#) on page 12.

You can also refer to the [WADL document](http://www.novell.com/documentation/beta/filr_rest/novell/application.wadl) ([http://www.novell.com/documentation/beta/filr\\_rest/novell/application.wadl](http://www.novell.com/documentation/beta/filr_rest/novell/application.wadl)) for more information about the REST API.

## 1.2 Data Model

All endpoints act on a common set of data. The data can be represented with difference media (i.e. "MIME") types, depending on the endpoint that consumes and/or produces the data. The data can be described by [XML Schema](http://www.w3.org/XML/Schema) (<http://www.w3.org/XML/Schema>), which definitively describes the XML representation of the data, but is also useful for describing the other formats of the data, such as [JSON](http://json.org/) (<http://json.org/>).

This document describes the data using terms based on [XML Schema](http://www.w3.org/XML/Schema) (<http://www.w3.org/XML/Schema>). Data can be grouped by namespace, with a schema document describing the elements and types of the namespace. Generally speaking, types define the structure of the data and elements are instances of a type. For example, elements are usually produced by (or consumed by) a REST endpoint, and the structure of each element is described by its type.

### Namespace “ns0”

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Namespace URI:	(default namespace)
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XSD:	<a href="http://www.novell.com/documentation/beta/filr_rest/novell/ns0.xsd">ns0.xsd</a> ( <a href="http://www.novell.com/documentation/beta/filr_rest/novell/ns0.xsd">http://www.novell.com/documentation/beta/filr_rest/novell/ns0.xsd</a> )
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- [Section 1.2.1, “Data Elements,”](#) on page 8
- [Section 1.2.2, “Data Types,”](#) on page 10

### 1.2.1 Data Elements

- [binder](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_binder.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_binder.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_binder.html))
- [binder\\_brief](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_binder_brief.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_binder\\_brief.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_binder_brief.html))
- [binder\\_quotas](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_binder_quotas.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_binder\\_quotas.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_binder_quotas.html))
- [binder\\_tree](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_binder_tree.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_binder\\_tree.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_binder_tree.html))
- [customField](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_customField.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_customField.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_customField.html))



- ♦ `definition_brief` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_definition\\_brief.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_definition_brief.html))
- ♦ `description` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_description.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_description.html))
- ♦ `disk_quotas_config` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_disk\\_quotas\\_config.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_disk_quotas_config.html))
- ♦ `entityId` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_entityId.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_entityId.html))
- ♦ `file` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_file.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_file.html))
- ♦ `file_version` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_file\\_version.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_file_version.html))
- ♦ `folder` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_folder.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_folder.html))
- ♦ `folder_entry` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_folder\\_entry.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_folder_entry.html))
- ♦ `fsa_config` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_fsa\\_config.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_fsa_config.html))
- ♦ `group` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_group.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_group.html))
- ♦ `history_stamp` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_history\\_stamp.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_history_stamp.html))
- ♦ `legacy_file` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_legacy\\_file.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_legacy_file.html))
- ♦ `legacyHistoryStamp` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_legacyHistoryStamp.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_legacyHistoryStamp.html))
- ♦ `link` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_link.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_link.html))
- ♦ `locale` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_locale.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_locale.html))
- ♦ `longIdLinkPair` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_longIdLinkPair.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_longIdLinkPair.html))
- ♦ `node` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_node.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_node.html))
- ♦ `operation` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_operation.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_operation.html))
- ♦ `parent_binder` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_parent\\_binder.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_parent_binder.html))
- ♦ `principal_brief` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_principal\\_brief.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_principal_brief.html))
- ♦ `release_info` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_release\\_info.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_release_info.html))
- ♦ `reply` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_reply.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_reply.html))
- ♦ `results` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_results.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_results.html))
- ♦ `share` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_share.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_share.html))
- ♦ `stringIdLinkPair` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_stringIdLinkPair.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_stringIdLinkPair.html))
- ♦ `tag` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_tag.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_tag.html))
- ♦ `team_member` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_team\\_member.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_team_member.html))
- ♦ `tree` ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_tree.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_tree.html))

- ♦ [user](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_user.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_user.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_user.html))
- ♦ [filr\\_rest\\_api](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_vibe_rest_api.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_vibe\\_rest\\_api.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_vibe_rest_api.html))
- ♦ [Workspace](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_workspace.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_workspace.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_workspace.html))
- ♦ [zone\\_config](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_zone_config.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/el\\_ns0\\_zone\\_config.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_zone_config.html))

## 1.2.2 Data Types

- ♦ [averageRating](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_averageRating.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_averageRating.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_averageRating.html))
- ♦ [baseFileProperties](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_baseFileProperties.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_baseFileProperties.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_baseFileProperties.html))
- ♦ [baseFolderEntry](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_baseFolderEntry.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_baseFolderEntry.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_baseFolderEntry.html))
- ♦ [baseRestObject](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_baseRestObject.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_baseRestObject.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_baseRestObject.html))
- ♦ [binder](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_binder.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_binder.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_binder.html))
- ♦ [binderBrief](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_binderBrief.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_binderBrief.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_binderBrief.html))
- ♦ [binderQuotasConfig](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_binderQuotasConfig.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_binderQuotasConfig.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_binderQuotasConfig.html))
- ♦ [binderTree](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_binderTree.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_binderTree.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_binderTree.html))
- ♦ [customField](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_customField.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_customField.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_customField.html))
- ♦ [definableEntity](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_definableEntity.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_definableEntity.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_definableEntity.html))
- ♦ [definableEntityBrief](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_definableEntityBrief.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_definableEntityBrief.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_definableEntityBrief.html))
- ♦ [definitionBrief](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_definitionBrief.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_definitionBrief.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_definitionBrief.html))
- ♦ [description](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_description.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_description.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_description.html))
- ♦ [diskQuotasConfig](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_diskQuotasConfig.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_diskQuotasConfig.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_diskQuotasConfig.html))
- ♦ [entityId](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_entityId.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_entityId.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_entityId.html))
- ♦ [entry](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_entry.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_entry.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_entry.html))
- ♦ [entryBrief](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_entryBrief.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_entryBrief.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_entryBrief.html))
- ♦ [fileProperties](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_fileProperties.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_fileProperties.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_fileProperties.html))
- ♦ [fileVersionProperties](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_fileVersionProperties.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_fileVersionProperties.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_fileVersionProperties.html))
- ♦ [folder](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_folder.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_folder.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_folder.html))

- ♦ [folderEntry](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_folderEntry.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_folderEntry.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_folderEntry.html))
- ♦ [fsaConfig](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_fsaConfig.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_fsaConfig.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_fsaConfig.html))
- ♦ [group](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_group.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_group.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_group.html))
- ♦ [historyStamp](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_historyStamp.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_historyStamp.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_historyStamp.html))
- ♦ [legacyFileProperties](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_legacyFileProperties.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_legacyFileProperties.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_legacyFileProperties.html))
- ♦ [legacyHistoryStamp](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_legacyHistoryStamp.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_legacyHistoryStamp.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_legacyHistoryStamp.html))
- ♦ [link](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_link.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_link.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_link.html))
- ♦ [locale](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_locale.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_locale.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_locale.html))
- ♦ [longIdLinkPair](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_longIdLinkPair.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_longIdLinkPair.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_longIdLinkPair.html))
- ♦ [operation](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_operation.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_operation.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_operation.html))
- ♦ [parentBinder](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_parentBinder.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_parentBinder.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_parentBinder.html))
- ♦ [principal](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_principal.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_principal.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_principal.html))
- ♦ [principalBrief](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_principalBrief.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_principalBrief.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_principalBrief.html))
- ♦ [releaseInfo](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_releaseInfo.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_releaseInfo.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_releaseInfo.html))
- ♦ [reply](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_reply.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_reply.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_reply.html))
- ♦ [rootRestObject](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_rootRestObject.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_rootRestObject.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_rootRestObject.html))
- ♦ [searchableObject](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_searchableObject.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_searchableObject.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_searchableObject.html))
- ♦ [searchResultList](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_searchResultList.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_searchResultList.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_searchResultList.html))
- ♦ [searchResultTree](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_searchResultTree.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_searchResultTree.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_searchResultTree.html))
- ♦ [searchResultTreeNode](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_searchResultTreeNode.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_searchResultTreeNode.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_searchResultTreeNode.html))
- ♦ [share](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_share.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_share.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_share.html))
- ♦ [stringIdLinkPair](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_stringIdLinkPair.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_stringIdLinkPair.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_stringIdLinkPair.html))
- ♦ [tag](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_tag.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_tag.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_tag.html))
- ♦ [teamMember](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_teamMember.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_teamMember.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_teamMember.html))
- ♦ [user](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_user.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_user.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_user.html))

- ♦ [workspace](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_workspace.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_workspace.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_workspace.html))
- ♦ [zone\\_config](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_zoneConfig.html) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/ns0\\_zoneConfig.html](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_zoneConfig.html))

## 1.3 Files Libraries

The following files and libraries are available:

- ♦ [.NET Client Library](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/downloads.html#.NET%20Client%20Library) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/downloads.html#.NET Client Library](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/downloads.html#.NET%20Client%20Library))
- ♦ [Java Client Library](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/downloads.html#Java%20Client%20Library) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/downloads.html#Java Client Library](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/downloads.html#Java%20Client%20Library))
- ♦ [Java JSON Client Library](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/downloads.html#Java%20JSON%20Client%20Library) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/downloads.html#Java JSON Client Library](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/downloads.html#Java%20JSON%20Client%20Library))
- ♦ [Objective C Client Library](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/downloads.html#Objective%20C%20Client%20Library) ([http://wwwtest.provo.novell.com/documentation/filr\\_rest/novell/downloads.html#Objective C Client Library](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/downloads.html#Objective%20C%20Client%20Library))