

Developer Guide

Filr 1.1 Beta

February 2014

Novell.

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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).

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 14](#)

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:

- ♦ [AdminNetFolderResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_AdminNetFolderResource.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_AdminNetFolderResource.html)
- ♦ [AdminNetFolderServerResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_AdminNetFolderServerResource.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_AdminNetFolderServerResource.html)
- ♦ [AdminUserSourceResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_AdminUserSourceResource.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_AdminUserSourceResource.html)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [MainAdminResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_MainAdminResource.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_MainAdminResource.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)
- [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)
- [PrincipalResource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_PrincipalResource.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/resource_PrincipalResource.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)
- [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)
- [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)
- [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)
- [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)
- [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)

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 14.

You can also refer to the [WADL document](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/application.wadl) (http://wwwtest.provo.novell.com/documentation/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”

Namespace URI:	(default namespace)
XSD:	ns0.xsd (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0.xsd)

- [Section 1.2.1, “Data Elements,”](#) on page 9
- [Section 1.2.2, “Data Types,”](#) on page 11

1.2.1 Data Elements

- ♦ [access](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_access.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_access.html)
- ♦ [assigned_right](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_assigned_right.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_assigned_right.html)
- ♦ [assigned_sharing_permission](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_assigned_sharing_permission.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_assigned_sharing_permission.html)
- ♦ [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)
- ♦ [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)
- ♦ [binder_changes](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_binder_changes.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_binder_changes.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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [desktop_app_config](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_desktop_app_config.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_desktop_app_config.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)
- ♦ [external_sharing_restrictions](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_external_sharing_restrictions.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_external_sharing_restrictions.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)
- ♦ [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)
- ♦ [group_synchronization](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_group_synchronization.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_group_synchronization.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)
- ♦ [home_dir_config](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_home_dir_config.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_home_dir_config.html)
- ♦ [ids_link](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_ids_link.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_ids_link.html)

- ♦ [ldap_sync_results](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_ldap_sync_results.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_ldap_sync_results.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)
- ♦ [library_info](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_library_info.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_library_info.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)
- ♦ [mobile_app_config](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_mobile_app_config.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_mobile_app_config.html)
- ♦ [mobile_device](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_mobile_device.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_mobile_device.html)
- ♦ [net_folder](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_net_folder.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_net_folder.html)
- ♦ [net_folder_server](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_net_folder_server.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_net_folder_server.html)
- ♦ [net_folder_sync_status](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_net_folder_sync_status.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_net_folder_sync_status.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)
- ♦ [pair](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_pair.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_pair.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)
- ♦ [personal_storage](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_personal_storage.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_personal_storage.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)
- ♦ [recipient](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_recipient.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_recipient.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)
- ♦ [rest_api_root](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_rest_api_root.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_rest_api_root.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)
- ♦ [schedule](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_schedule.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_schedule.html)
- ♦ [search_info](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_search_info.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_search_info.html)
- ♦ [selected_days](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_selected_days.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_selected_days.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)
- ♦ [share_recipient](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_share_recipient.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_share_recipient.html)
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- ♦ [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)
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- ♦ [user_source](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_user_source.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_user_source.html)
- ♦ [user_source_synchronization](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_user_source_synchronization.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_user_source_synchronization.html)
- ♦ [user_synchronization](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_user_synchronization.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_user_synchronization.html)
- ♦ [web_app_config](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_web_app_config.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/el_ns0_web_app_config.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)
- ♦ [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)

1.2.2 Data Types

- ♦ [access](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_access.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_access.html)
- ♦ [assignedRight](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_assignedRight.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_assignedRight.html)
- ♦ [assignedSharingPermission](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_assignedSharingPermission.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_assignedSharingPermission.html)
- ♦ [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)
- ♦ [baseBinderChange](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_baseBinderChange.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_baseBinderChange.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)
- ♦ [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)
- ♦ [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)
- ♦ [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)

- ♦ [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)
- ♦ [binderChanges](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_binderChanges.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_binderChanges.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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [desktopAppConfig](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_desktopAppConfig.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_desktopAppConfig.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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [externalSharingRestrictions](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_externalSharingRestrictions.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_externalSharingRestrictions.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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [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)
- ♦ [group_synchronization](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_groupSynchronization.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_groupSynchronization.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)
- ♦ [KeyValuePair](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_keyValuePair.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_keyValuePair.html)
- ♦ [ldapHomeDirConfig](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_ldapHomeDirConfig.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_ldapHomeDirConfig.html)
- ♦ [ldapSearchInfo](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_ldapSearchInfo.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_ldapSearchInfo.html)

- ♦ [ldapSyncResults](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_ldapSyncResults.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_ldapSyncResults.html)
- ♦ [ldapUserSource](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_ldapUserSource.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_ldapUserSource.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)
- ♦ [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)
- ♦ [libraryInfo](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_libraryInfo.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_libraryInfo.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)
- ♦ [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)
- ♦ [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)
- ♦ [mobileAppConfig](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_mobileAppConfig.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_mobileAppConfig.html)
- ♦ [mobileDevice](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_mobileDevice.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_mobileDevice.html)
- ♦ [netFolder](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_netFolder.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_netFolder.html)
- ♦ [netFolderServer](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_netFolderServer.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_netFolderServer.html)
- ♦ [netFolderSyncStatus](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_netFolderSyncStatus.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_netFolderSyncStatus.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)
- ♦ [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)
- ♦ [personalStorage](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_personalStorage.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_personalStorage.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)
- ♦ [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)
- ♦ [recipient](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_recipient.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_recipient.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)
- ♦ [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)
- ♦ [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)
- ♦ [schedule](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_schedule.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_schedule.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)
- ♦ [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)
- ♦ [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)

- ♦ [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)
- ♦ [selectedDays](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_selectedDays.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_selectedDays.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)
- ♦ [shareRecipient](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_shareRecipient.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_shareRecipient.html)
- ♦ [shareSettings](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_shareSettings.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_shareSettings.html)
- ♦ [sharingPermission](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_sharingPermission.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_sharingPermission.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)
- ♦ [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)
- ♦ [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)
- ♦ [templateBrief](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_templateBrief.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_templateBrief.html)
- ♦ [time](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_time.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_time.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)
- ♦ [userSourceSynchronization](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_userSourceSynchronization.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_userSourceSynchronization.html)
- ♦ [userSynchronization](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_userSynchronization.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_userSynchronization.html)
- ♦ [webAppConfig](http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_webAppConfig.html) (http://wwwtest.provo.novell.com/documentation/filr_rest/novell/ns0_webAppConfig.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)
- ♦ [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)

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))