

# Moover Winter '18 Release Notes

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## Overview

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The Progly Moover Winter '18 release includes new features and enhancements to core functionality, as well as many bug fixes.

## New Features

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The Moover product team has heard your ideas and implemented a great number of them in this release. The following new features provide a richer, more intuitive relational data migration experience, helping you be more productive.

### AWS Elastic Beanstalk

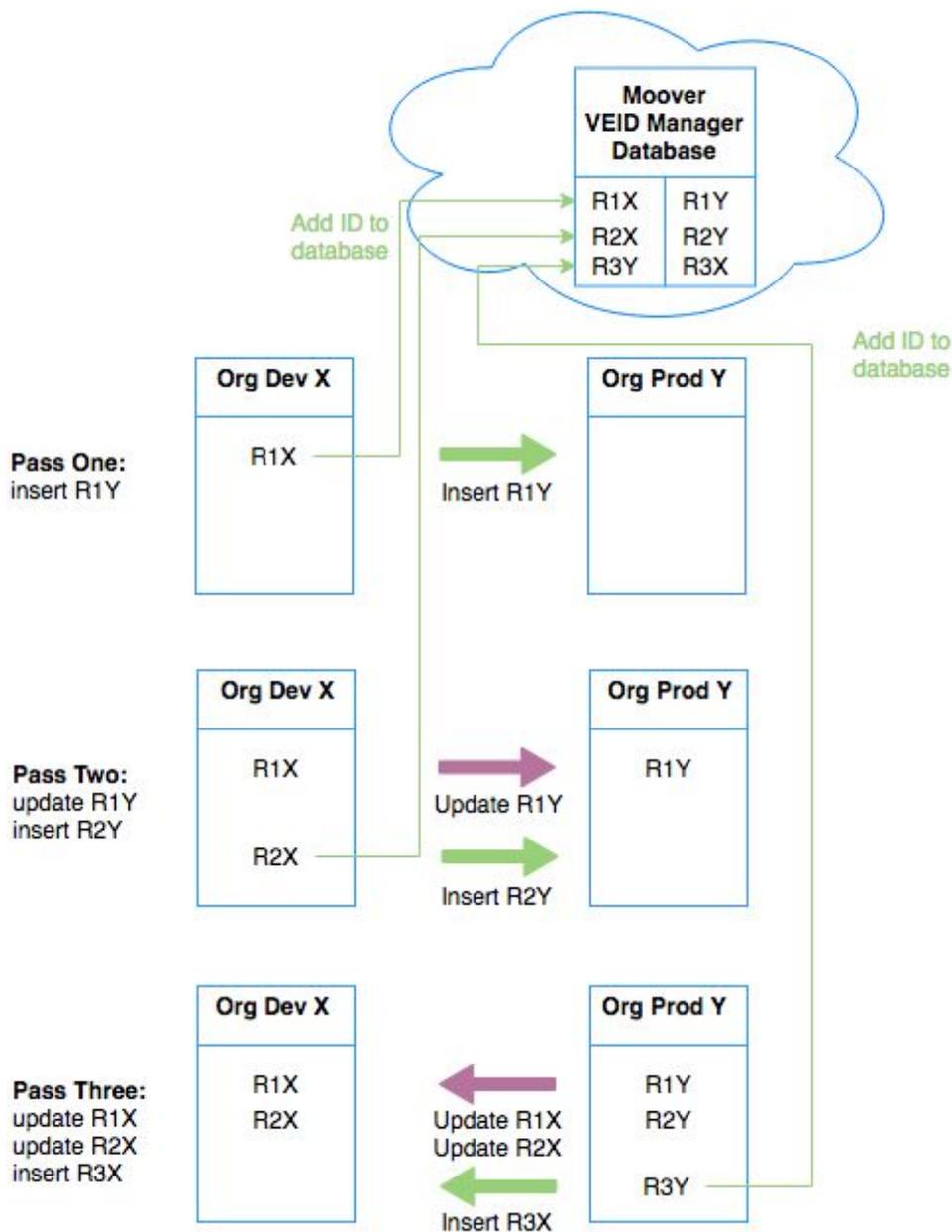
Starting with Moover version 1.148 (released June 17, 2018), Progly now utilizes AWS Elastic Beanstalk as the cloud infrastructure for the Moover service directly, rather than through Heroku. Direct configuration allows for more scalability, elasticity, resilience, and fault tolerance.

Learn more at <https://www.progly.co/aws-upgrade>.

### Virtual External ID (VEID) Manager

The purpose of the virtual external ID manager is to prevent duplicates as you move data between organizations. Instead of using the time-consuming process of adding formal Salesforce external IDs to every object in the deployment data set or determining field combinations that create unique composite external IDs for every object, the VEID manager keeps track of which records you migrate between organizations.

The VEID manager ensures that a unique external ID is available to prevent duplicates during upsert operations. The following example shows how the manager controls inserts and updates in three successive deployments.



## Salesforce CPQ Templates

The Salesforce CPQ templates contain data sets that are pre-configured to deploy Salesforce CPQ data. The templates greatly simplify your data set configuration effort for Salesforce CPQ application reference data migration. The companion Moover Salesforce CPQ Data Migration Guide is available at [www.prodly.co/resources](http://www.prodly.co/resources) to assist with the process.

Versions of the templates for composite external IDs (CEID) and virtual external IDs (VEID) are available for the following Salesforce CPQ releases:

- Salesforce CPQ Winter 17 version 27.4.41
- Salesforce CPQ Summer 17 version 208.9.4 and higher
- Salesforce CPQ Winter 18 version 210.10 and higher

## Folders

Moover's new folders feature allows you to organize data sets and connections in folders, and even nest folders, for structured storage and easier sharing.

## New List and Editor Views

Includes new data set element List and Diagram views. Improves existing Tabs view. Provides a clearer view of all related objects included in a data set.

## Improved UI/UX

Improvements to the user interface better clarify the distinctions between a data set, the data set elements that comprise the data set, and the Salesforce objects referenced in the data set elements.

Moover now provides information about the relationships between objects for better understanding and an improved reporting experience.

Improvements to the deployment results page provide information as a more user-friendly experience.

## Other Improvements

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We've improved a number of features you know and depend on. Take more control and do more with the data sets editor, deployment options, and result analysis. The following sections describe the improvements.

### Enhanced Record Selectors

The new Record Selection Limit field allows you to specify the number of random records to deploy. Use this new feature to speed up identifying a small number of records for test deployments.

### Enhanced Deployment Controls

The following list identifies enhanced control you have during deployment:

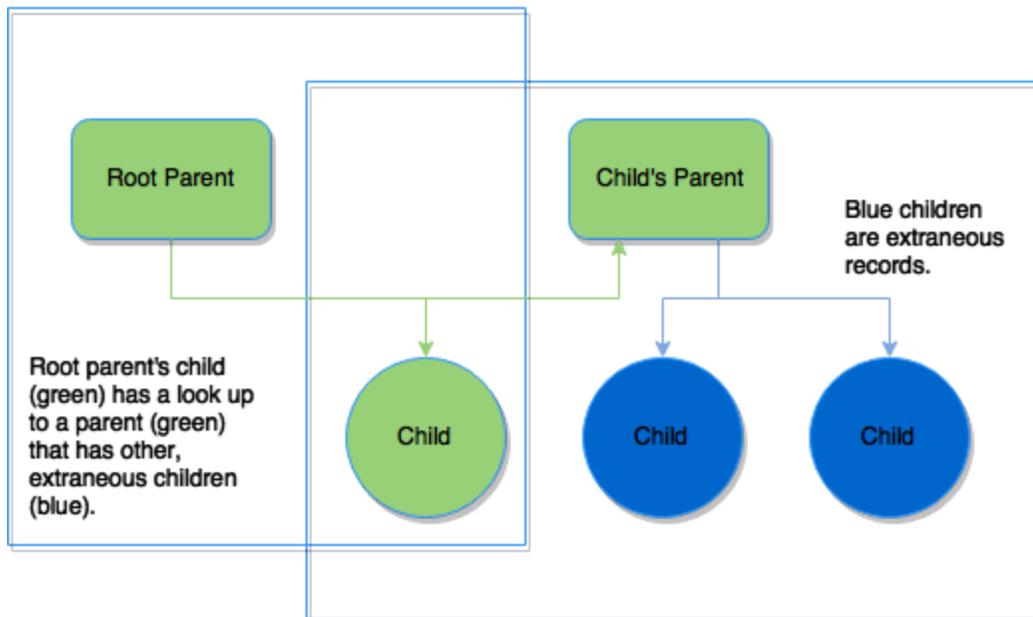
- **Error Results Only** saves space by not storing deployment results for successfully deployed records.
- **Delay on Insert** instructs Moover to deploy a specified record field with a temporary value, then update the migrated record with the actual value. For example, Salesforce requires Contract

object records to be in a draft state to copy, so you can instruct Moover migrate the data in the draft state then set the actual state after copying.

- **Deploy Last** instructs Moover to deploy a record without copying a specified field, then deploy the field at the very end of the deployment. For example, Salesforce CPQ Custom Conditions records need to be deployed after their children.
- **Rerun** initiates a second deployment of a deployment batch. Use this feature after you've corrected errors encountered during the initial deployment.
- **Bulk Batch Size** allows you to specify a maximum number of records to deploy in each deployment batch. Use this feature to circumvent errors caused by triggers in the destination organization.
- **Custom Salesforce Domain** supports the Salesforce My Domain subdomain feature for Moover connections. This feature allows you to connect to organizations that require logging in through a custom domain.
- **Copy Relationship Value** allows you to copy just the parent lookup field values, instead of the entire parent record. Doing so reduces the size of your data set and speeds up deployment.

## Relationship Directions

Moover now allows you to specify the direction of relationship traversal during deployment to better control the data record migration order.



## Guard Rails

The following list identifies improvements to the user experience that safeguard against errors to help to avoid failures before they happen:

- Improved deployment error messages.
- Identification of partially processed records.
- The Fixed Value option is no longer available for parent fields for external IDs.
- Indicators on results showing what type of upsert or insert.
- Improved result status indicators.
- Restrict most fields on connection records to be read-only.
- Data set name is now a required field.
- No longer able to deploy data sets containing known errors.
- No longer able to move to a child or parent object data set element containing known errors.
- Limited number of maximum allowable characters for the query filter.

## Performance

The following list identifies data set deployment performance improvements:

- Handles larger schemas (objects, records, fields, relationships).
- Decreases deployment execution time (optimized deployment algorithm and record processing from a batch-size perspective).
- Handles larger number of records per object per hour.
- Reduces memory usage (HEAP size) to increase deployment speed.
- Sync picklist field option times out when there are hundreds of picklist fields.
- Handles “SFDC Error Maximum view state limit (135KB) exceeded” errors that occur after initiating deployment.
- Displays only 400 child records
- Handles “Apex CPU time limit exceeded” errors that occur when opening an Apex Job data set.

## Security

The following list identifies security improvements:

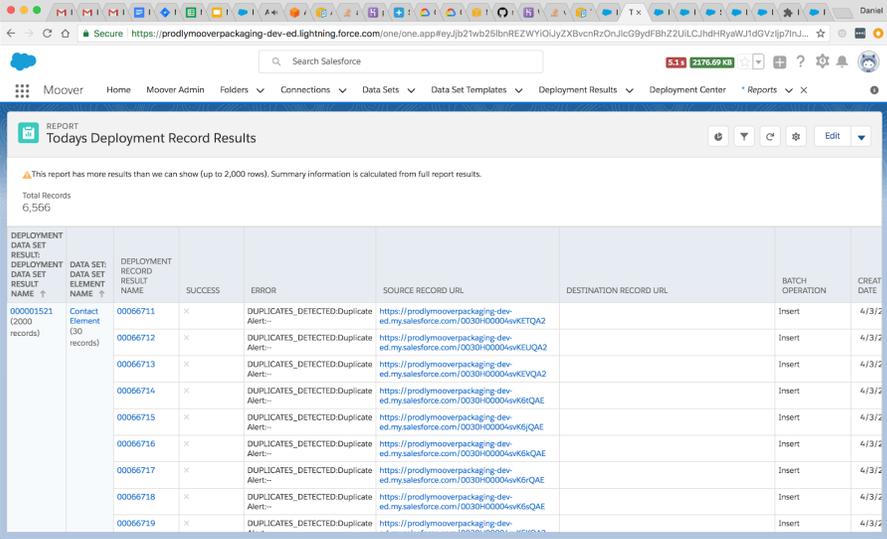
- Access for the backend service now exclusively uses the HTTPS protocol only.
- Moover now removes potentially sensitive information from the data logs.
- Moover now encrypts JSON deployment data to protect sensitive data such as login tokens.
- Allows users to create a connection without having Modify All access.
- Added View All Data to Admin Permission Set so users can create connection records.
- Uses [HTTP Strict Transport Security](#) (HSTS).

## Fixes

The following table lists notable bug fixes and the publicly-released version in which each fix first appears. The table is sorted by most-recent to oldest Moover development (MD) tracking number within most-recent to oldest version. To determine your Moover version, log in to your Salesforce Moover control organization and navigate to **Setup > Apps > Installed Packages**.

Description	Number	Version
<p><b>First control org deployment ignored same record ID matches for VEID.</b> When deploying a data set using the VEID upsert method, Moover tracks data record IDs in an internal database for each record deployed. On the very first deployment, the database is empty and Moover was falsely assuming that an empty database meant an empty destination org. But this is not the case when a destination org was populated via a sandbox refresh. With this patch, Moover now correctly looks for matches in the destination org and updates them, rather than inserting a duplicate record.</p>	MD-2657	1.148 backend
<p><b>Apex heap size error.</b> We made performance improvements in the Moover Salesforce app to handle retrieving a schema with over 700 objects from a remote org.</p>	MD-2446	1.148
<p><b>Unchecked object fields do not stay unchecked after Save.</b> A bug where individually-selected and unselected fields on data set elements were not being retained after saving has been fixed.</p>	MD-2439	1.148
<p><b>AccountTerritoryAssignmentRule and AccountTerritoryAssignmentRuleItem objects are not shown for selection.</b> Certain objects which did not support triggers and page layouts, such as Account Territory Assignment Rule, were excluded from the deployment object selector picklist in the data set editor. These objects are now allowed and shown for selection.</p>	MD-2415	1.148
<p><b>Data Set deleted, but try to open it in another page, getting null pointer exception.</b>  Opening a data set which has been deleted in another browser tab now shows a meaningful error message.</p>	MD-1888	1.148
<p><b>Queries returning large data payload could result in missing records.</b> Under a certain rare condition (a large number of records, a large number of fields with long values, and usually direct queries with no relationship constraints), querying records from the source org returns a data payload large enough that Salesforce splits the result into separate batches. Moover was only processing the last batch, resulting in missing records in the destination org.</p>	MD-2520	1.138 backend
<p><b>Ignore Relationship Constraint should work regardless of parent/child</b></p>	MD-2517	1.138

<p><b>relationships.</b></p> <p>When the Ignore Relationship Constraint setting is selected on any non-root data set element, only elements which had a parent relationship record set were included. This bug has been fixed to pick up any and all records in the org, regardless of whether or not the parent lookup field is set.</p>		backend
<p><b>Deployment error when an auto-number field is defined as an external ID in Salesforce.</b></p> <p>We've fixed a runtime error that was occurring during deployment when a field on an object being deployed is an Auto-Number type and also defined as an external ID. For example: INVALID_FIELD_FOR_INSERT_UPDATE: Unable to create/update fields: blng__LegalEntityNumber__c. Please check the security settings of this field and verify that it is read/write for your profile or permission set.:blng__LegalEntityNumber__c</p>	MD-2449	1.138 backend
<p><b>Add a re-attempt connection mechanism in awaitCompletion() method.</b></p> <p>Intermittently, the logic to use a connection to the source or destination Salesforce org would fail with an Invalid Session error. Logic has been added to re-establish a connection in such cases.</p>	MD-2377	1.138 backend
<p><b>Duplicate RelationId field in query for TaskRelation during deployment.</b></p> <p>When a Task Relation was part of a deployed data set, the same RelationId field was included twice in the SOQL query, causing an error which aborted the deployment. This has now been fixed, the field is only included once.</p>	MD-2372	1.138 backend
<p><b>Don't print queries in log4j logs.</b></p> <p>For security purposes, Moover is designed to not log any data that is part of the SOQL queries Moover performs. However, we discovered that part of a query filter clause was being logged. That logging has now been eliminated for extra security.</p>	MD-2327	1.138 backend
<p><b>Intermittent failure loading application context on dyno restart.</b></p> <p>In rare intermittent scenarios, the application context fails to load when the dyno is restarted, causing in-progress jobs to halt execution. This issue is due to an apparent Heroku bug. Moover attempts to work around the issue through a delayed retry mechanism.</p>	MD-2315	1.138 backend
<p><b>DataSetEditorController: PDRI: Too many query rows: 50001.</b></p> <p>A LIMIT clause to a SOQL query has been added to ensure that too many results are never returned.</p>	MD-2185	1.138
<p><b>Deselected one relationship to a data set element, and on save it was deleted, even though there were other relationships pointing to it.</b></p> <p>When you unselected a relationship in a data set, if the disconnected elements have an alternate path to the root object, the elements were mistakenly being deleted when the data set was saved. This bug has now been fixed.</p>	MD-1978	1.138
<p><b>Fixed Value Input text box value not retained when change in other Fixed Value field property.</b></p> <p>In the data set editor, OBJECT FIELDS tab, Properties dialog box, changes to field</p>	MD-1973	1.138

level settings are now all retained when making changes to other fields.		
<p><b>Unchecked a relationship and it disappeared on both ends (child and parent relationships).</b></p> <p>Data sets authored prior to the Moover Winter '18 release had each selected relationship traversed in both directions. On upgrade to the Moover Winter '18 release, relationships were marked as such, but if the user unselected one end of the relationship, Moover was deleting the relationship in both directions. That bug has now been fixed and the relationship is only removed in the unselected direction on such legacy-authored data sets.</p>	MD-1938	1.138
<p><b>Can't deploy data set – Invalid 'X-Frame-Options' header encountered when loading.</b></p> <p>Redirection to the data set deployment page in Lightning Experience has been switched to use standard Lightning navigation controls to avoid browser issues.</p>	MD-1769	1.138
<p><b>Getting view state error.</b></p> <p>A large schema with many objects, objects with many fields, or objects with many relationships would cause view state errors during various operations. This bug has now been fixed using optimizations and paginations.</p>	MD-1764	1.138
<p><b>Add deployment result custom report types and reports.</b></p> <p>New custom report types:</p> <ul style="list-style-type: none"> <li>• Deployment Record Results</li> <li>• Deployment Results with Deployment Data Set Results with Deployment Batch Results</li> <li>• Deployment Results with Deployment Data Set Results with Deployment Batch Results with Deployment Record Results.</li> </ul> <p>New sample report:</p> <ul style="list-style-type: none"> <li>• Today's Deployment Record Results</li> </ul> 	MD-258	1.138

Getting error when clicking on Deploy button after the selecting source and destination org.	MD-1891	1.133
Getting null pointer exception when breaking the relationship from the non-root element then reopening the element.	MD-1890	1.133
Data set name showing in the encoded form in the diagram view for the special characters.	MD-1882	1.133
List view edit button not working when deployment object label has apostrophe.	MD-1881	1.133
Getting default zero value in the record selection limit and bulk batch size on data set, when creating data set.	MD-1880	1.133
Unexpected backslash showing on the breadcrumb navigation of the data set.	MD-1871	1.133
Deployment Batch Results are not in order of creation date on the main results page.	MD-1869	1.133
Can't switch between tabs, object label has apostrophe, Unexpected identifier.	MD-1767	1.133
Tooltip should be show in proper position.	MD-1766	1.133
Getting view state error.	MD-1764	1.133
Add spinner when clicking on relationship while moving to child or parent.	MD-1763	1.133
Pagination count should show correct name of data not Records (objects for parent or child object list and fields for field list).	MD-1753	1.133
Child object data set should delete when data set does not have any relationships.	MD-1750	1.133
Table header (DEPLOYMENT BATCH RESULT NAME and DEPLOYMENT DATA SET RESULT NAME) should be blank on deployment result page.	MD-1748	1.133
Getting invalid connection error when selecting blank option as schema.	MD-1734	1.133
Folder UI showing below the data set detail page.	MD-1733	1.133
DataSetEditorController: Attempt to de-reference a null object.	MD-1674	1.133
Breadcrumb navigation appears on the list view and diagram view when changing the schema by schema settings.	MD-1650	1.133
CollaborationGroup must be available in Deployment Objects dropdown list.	MD-1647	1.133
Getting Error: "Attempt to de-reference a null object" when deselecting the child object from child records section.	MD-963	1.133
Parent data set automatically getting deleted.	MD-308	1.133

User/Group ID reference field is not showing in the object field section for the sharing object.	MD-1657	1.130
CollaborationGroup must be available in Deployment Object drop-down list.	MD-1647	1.130
PARENT OBJECT TYPE on PARENT OBJECTS tab label should be PARENT OBJECT LABEL.	MD-1537	1.129
Display Sync Picklist Values option for multi-picklist data type field in the field settings.	MD-1533	1.129
Tool tips and font change for New Connection wizard.	MD-1510	1.129
Reset Only Search Managed checkbox and its input component for root element when moving from non-root to root element.	MD-1504	1.129
Prodly Moover User permission set does not have sufficient permissions.	MD-1500	1.129
Some field properties don't copy on non-root elements during clone.	MD-1492	1.129
Switch to using the latest version of all APIs.	MD-1490	1.129
In the deployment center, all the data sets should open in the new tab.	MD-1487	1.129
In the data set editor, cursor pointer should be shown on all hyperlink text on hover.	MD-1486	1.129
MALFORMED_QUERY: Illegal character sequence '\ ' in string literal.	MD-1485	1.129
Not able to move parent object or child object when changing the schema org.	MD-1483	1.129
Deploy records with Replicate Owner set even when the owner of the source org record is inactive in the destination org.	MD-1481	1.129
Add a tool tip to the Result field on deployment result page	MD-1462	1.129
InvalidBatch : Failed to process query: MALFORMED_QUERY	MD-1437	1.129
Metadata objects showing in the deployment object list on the data set in case of origin schema.	MD-1436	1.129
Getting java null pointer exception when deploying CPQ Product data set.	MD-1435	1.129
"Attempt to de-reference a null object" error when clicking the pagination icons of the Child Objects tab	MD-1425	1.129
ClientInputError : Failed to read query. Exceeded max size limit of 20000 with response size 20001	MD-1423	1.129

In Field Properties dialog box, Copy Relationship Value and Deploy Last are not showing properly.	MD-1422	1.129
Getting remote site error when creating data set and changing the schema org.	MD-1421	1.129
Object selector page size setting is not working when selected deployment object is not in the schema.	MD-1420	1.129
Object field header checkbox should be checked when all field checkboxes are selected.	MD-1413	1.129
Results page enhancements.	MD-1404	1.129
Remote Site Setting record not found for sandbox.	MD-1395	1.129
Schema / deployment object not updating on non-root elements.	MD-1380	1.129
Progress bar not working, the deployment is almost done but the progress bar is still at 0%.	MD-1378	1.129
Correct text for new Data Set Controls icon.	MD-1376	1.129
Make placeholder text consistent throughout app.	MD-1361	1.129
Add data set name column to data set Recently Viewed in managed package.	MD-1318	1.129
Root element list view in managed package needs better name.	MD-1317	1.129
Set default Data Set Element Name to "<deployment object label> Element".	MD-1315	1.129
Replicate owner is not working on non-root elements	MD-1299	1.129
When one field throws error, create other field using create missing field.	MD-1279	1.129
Deployment record result records created with no source record link.	MD-1271	1.129
Create time field when using Create Missing Field.	MD-1254	1.129
Use case insensitive field API name identification during deployment.	MD-1250	1.129
Formula field not created if depend field not available in destination.	MD-1249	1.129
Object selector page size setting is not working.	MD-1235	1.129
Improve accuracy of deployment progress bar.	MD-1227	1.129
Schema connection changes to blank value when moving to root element from parent record section.	MD-1194	1.129
"Invalid control org" needs better error message when creating other	MD-1188	1.129

connections.		
Sync picklist field values does not bring over the label.	MD-1187	1.129
Non- root element records should not deploy when non-root element is inactive.	MD-1183	1.129
Change label to Data Set Element Name.	MD-1182	1.129
Polymorphic data set is created from attachment data set, parent selection.	MD-1179	1.129
Incorrect error message is showing after updating the data set.	MD-1177	1.129
ClientInputError : Failed to create job – Intermittent error.	MD-1154	1.129
In data set editor, change Upsert label to Upsert Method.	MD-1087	1.129
Arrow for Create Template missing when starting from non-root elements.	MD-1061	1.129
Non-root default element name should show Deployment Object, not object_name.	MD-1059	1.129
Breadcrumbs not showing on non-root after no schema warning.	MD-1058	1.129
Only Search Managed should be Show Managed Only.	MD-1055	1.129
"Query" should be "Search" in prompting strings on RECORD FIELDS and CHILD RECORDS tabs.	MD-1054	1.129
Data Set > Save fails after adding custom formula field	MD-1017	1.129
Moover app not part of permissions sets	MD-1014	1.129
Getting Error: "Error saving data set: No active root data set defined for deployment." when making the data set inactive.	MD-1013	1.129
Replicate Owner with standard upsert is not working properly.	MD-1011	1.129
Should not clone data set when data set has errors.	MD-1010	1.129
Add names and tool tips for Field Properties.	MD-1007	1.129
Error loading data set: Unauthorized endpoint.	MD-1003	1.129
Add Data Set Name formula field to the Data Set object for better list view sorting.	MD-981	1.129
Return in Data Set Element Name box acts like Deploy button.	MD-964	1.129
Connection lookup should not be set on related data set.	MD-959	1.129

Getting error : Attempt to de-reference a null object when unchecking the external id.	MD-958	1.129
Replicate owner not working for ID match.	MD-954	1.129
Success message bar content is blank and success bar is still showing.	MD-953	1.129
Child Object search box content showing in Field search box content.	MD-900	1.129
Intermittent issue: Getting Error "Oops looks like there was a problem with the deployment: java.io.IOException: Server returned HTTP response code: 400 for URL: https://login.salesforce.com/services/oauth2/token"	MD-889	1.129
Show API object name in deployment object list in data set editor.	MD-883	1.129
"Attempt to de-reference a null object" error when selecting parent from Parent Objects tab.	MD-880	1.129
Schema org error on deployment.	MD-877	1.129
Icons do not appear in Internet Explorer.	MD-876	1.129
"Error creating data set template: invalid ID field: null" when clicking on Create Template.	MD-872	1.129
Incorrect object name on deployment page while deploying data set without saving.	MD-865	1.129
Null Pointer Exception in InitField when Sync Picklist Values selected.	MD-864	1.129
Remove result error for license check failures.	MD-861	1.129
Error when selecting a special object (that contains __Tag, __History etc.) by origin in data set.	MD-641	1.129
Add check on back end service for allowed orgs.	MD-620	1.129
NullPointer Exception On Sync Picklist Fields - Global Value Providers	MD-615	1.129
Error: 'Attempt to de-reference a null object' while deploying Permission Set object.	MD-602	1.129
Data set searching in Deployment Center is case sensitive.	MD-601	1.129
Remove Show hidden data sets checkbox from Deployment Result Page.	MD-595	1.129
Encrypted field data should be moved with Create Missing Field selected.	MD-591	1.129
Encrypted field should not be allowed to be selected as external ID.	MD-584	1.129

Data set object navigator design does not look good when relationship names are long.	MD-571	1.129
Fixed value option should not show in reference fields on OBJECT FIELDS tab	MD-568	1.129
Remove border around settings icon under Fields.	MD-559	1.129
New connection does not escape url characters.	MD-558	1.129
Display object API name and label in Deployment Object picklist.	MD-554	1.129
The Show Managed Only feature does not work for objects with multiple relationships	MD-552	1.129
Price Book Entry Product update not allowed.	MD-218	1.129
Exclude Long Text Area fields as external ID.	MD-189	1.129
Deploy for a data set should be disabled if there is any error.	MD-177	1.129
Forbid creation of more than one control org connection.	MD-159	1.129

## Known Issues

The following table identifies known issues with Prody Moover.

Description	Number
Tool tip content hidden on the deployment result page in the classic view	MD-1588
Complex formula field not created if dependent field is multi-picklist and global picklist not available in target	MD-1541
Invalid control org redirecting to classic view	MD-1188
Can't add Deployment Object to data set list views	MD-1015
Create connection and deny authorization	MD-465
New connection wizard window not advancing	MD-259
In Lightning Experience, after deleting deployment data set results, page isn't refreshed	MD-97