



SensibleAI Forecast Release Notes

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Release PV9.0.0 SV400

Prerequisites

Use OneStream Software platform version 9.0.0 or later with this version.

This solution must be installed in a controlled environment. Reach out to your OneStream Software representative for questions regarding the installation process.

New

- UI Styling Redesign
- Data Source Updates
 - Data is now copied on the Xperiflow Engine side instead of being directly coupled to the original data source. This remediates projects breaking if the original data source was changed for a project.
 - New display for setting both target and feature data. Uses component workflow to walk through data upload and update steps.
 - Includes the ability to upload not only SQL tables, but also files within the MetaFileSystem.
- Hierarchical Forecasting
 - Ability to group target data into hierarchies based on dimension combinations.
 - Reconcile Forecasts so that the total value ties out across hierarchies.

- AI Services Log
 - GANTT Chart displaying currently running jobs in the environment. Includes more in-depth status updates based on tasks.
- Enhanced Data and Forecast Visualizations
 - Data Dataset Aggregate
 - Provides ability to slice down data by dimensions to display aggregate summation of values.
 - Pipeline Progress
 - Displays the progress of each step in the pipeline process while refreshing automatically in solution.
 - Pipeline Feature Generalization
 - Sliceable data by dimensions to show utilization of features in the run pipeline.
 - Prediction Summary
 - Multiple views to see how each model performed against actuals while breaking down generated features.
 - Monitor Results
 - Displays results of target flagging process including how many were triggered and what filters were run.
- Monitor Section: Target Flagging
 - Users can now designate targets to flag based on if a certain metric was hit.
 - Users can also designate fallback rules for when those flags are triggered.

Changed

SensibleAI Forecast

- Page Reordering in Model Build and Utilization Phases:
 - Configure Features
 - Source Features, Library, and Events all live in Configure Features now.
 - Pipeline Run
 - Progress
 - Displays the Pipeline Progress Web App in solution.
 - Configurations
 - Displays the previous configurations that were originally on the Pipeline Run page.
 - Pipeline Features
 - Generalization
 - Now shows the Pipeline Generalization Web App.
 - Transformers
 - The Overview page is now renamed to Transformers.
 - Pipeline Summary

- Summary
 - Displays Prediction Summary Web App including visualizations on how models performed.
- CV Strategy
 - Moved to Pipeline Arena.
- Manage
 - Reordered pages so that action pages display first (Prediction, Scenarios, Events).
 - Viewable Pages are displayed next (Health, Audit).
- Analysis
 - Split up into Forecast and Generalization.
 - Forecast
 - Displays Prediction Summary Web App which includes visualizations of how the models performed against forecasts.
 - Generalization
 - Includes sliceable data based on dimensions of which features were generated and utilized.
- Enhanced workflow for configuring Consumption Groups

Xperiflow Engine

- Switched from storing GUIDS to Ints

Fixed

- **Source data while job running:** You cannot change a target or feature data source while a job using that target or feature data source is running.
- **Source data while building:** You cannot change a target or feature data source while a model build is in progress.

Known Issues

SensibleAI Forecast

- **Multiple Tabs Open for Same Project:** If the same project is open in multiple different tabs, project names and labels throughout the application can either disappear or show incorrect values.
- **Consumption Groups Can Export Data from Failed Predictions:** If a prediction job were to fail after predictions were generated, the predictions would still be exported in the consumption group exports depending on settings chosen in the consumption group.
- **Cannot Edit/Delete a Location That Is Assigned to a Source Feature:** If a source feature dataset uses the location dimension, any locations used here cannot be deleted or edited unless the feature dataset is no longer in use.
- **Feature Generalization Source Feature Issues:** Statistics in the Feature Generalization grid on the **Pipeline > Features** page and **Insights > Features** pages can be misleading for source features. All target collection lags and source feature collection lags are considered the same feature in the feature generalization calculation.

- **Two users importing event packages prior to any existing:** If two users run the import all event package job at the same time from Solution Setup prior to the job ever being run for the environment, then the job can fail. It is recommended to have one user run this job on initial login to avoid the issue.
- **The forecast range column not representing change during manual rebuild:** On the Utilization Phase **Manage > Audit** page, the Forecast Range column does not show changes during a manual rebuild. If you change the forecast range in between rebuilds, then the original forecast range does not display properly in the **Manage > Audit** page, which still shows the old forecast range setting but not the new one.
- **The Distribution Statistics plot and related statistics no data case:** In the **Explore Targets and Features** dashboard, the Distribution Statistics bar chart and related statistics have no data if the feature time range does not overlap with the time range of the target data set.
- **Loss of multiselect parameters in all multiselect Combo-boxes:** There are situations when using multi-select in Sensible Machine Learning where the selection and the actual value of the selection do not match up. This does not cause major issues but may cause confusion where you have made a specific selection but the actual selection is different.
- **Restarted Model Build have no build info status information:** In the Utilization Section of Sensible ML, there is no way to tell the status of a model build (whether it successfully completed or failed). This makes it tough for the user to know the status of their project - especially in the event of an auto rebuild failing which will automatically archive the failed build for you. When that happens, there is no easy way to tell whether the build failed or not other than looking at the job activity table or the OneStream Task Activity info.

Xperiflow Engine

- **Audit page shows generated features across all models:** The Utilization phase **Manage > Audit** page shows the number of features generated across all models for each target, instead of just those generated for the best model.
- **Lagged Database Connectivity on Initial Environment Build:** Sensible Machine Learning has an initial database connectivity lag when installing an AIS bolt-on environment. There is a maximum 24 hour period where the DataSense Framework does not appear as a database connection option. Your organization should perform an IIS restart on creation of AIS.
- **Incorrect Allowed Models in Advanced Settings Page for Grouped Targets:** In the Modeling phase **Configure > Model** page, models selected to run for a grouped target using the advanced settings may not actually run. Some models selected are ignored by the engine. If only these models are selected, at least one allowed baseline still runs and produces predictions for the grouped target.
- **Tasks/Jobs not copied over for copied projects:** A copied project does not create copies of the jobs or tasks that ran from the original project. This means that those prediction jobs do not appear on pages such as the Utilization phase **Manage > Predict** page.
- **Job reversion is currently shown in the app:** Job reversion functionality in Sensible Machine Learning should only be used with help of support and under known circumstances.
- **Targets with no data in the validation, test, or holdout portions of the data splits:** In the Modeling phase **Pipeline > Train** page, if you have a target with no data in the validation, test, or hold portion, the mean model with a perfect fit for cleaned data is chosen. This then leads to the model having zero (0) for the error metric score. This makes the model appear to be performing well. These results should be ignored.

- **Discrepancy Targets: Rebuild small targets with a lot of cleaned data:** After rebuilding a small target with a lower number of data points than the largest target in a project, the small target:
 - Incorrectly shows an expected number data points on the **Explore Targets and Features** page based on the largest number of data points found across the project. This is not the amount making up the rebuild.
 - The Modeling phase **Data > Dataset** page incorrectly shows the number of unique dates based on the largest target found in the data set. This is not the largest target found in the rebuild.
- **Only utilizes numeric source features:** The engine only uses numeric source features. Non-numeric source features can be fed into the engine but are not used by any models. Strings, booleans, and other features are currently not supported.
- **Deleting a build does not delete objects created during that build:** When deleting a model build, previously created project-level objects are not deleted. This includes but is not limited to events, locations, and source feature data sources.

Contacting Support

OneStream Support can be contacted at any time by registering at <http://support.onestreamsoftware.com> and then emailing support@onestreamsoftware.com.