



Data Oversight Add-on for Microsoft Dynamics 365 Business Central

1. Introduction

Data Oversight is a master data governance add-on for Microsoft Dynamics 365 Business Central. It enables businesses to enforce consistent, accurate, and compliant master data by defining validation rules that can be applied across key entities.

With Data Oversight, you can:

- Validate critical master data fields
- Apply conditional validation rules based on field values
- Automatically block records that do not comply with business rules
- Monitor and troubleshoot validation results using detailed logs

Supported entities:

- Items
- Customers
- Vendors
- G/L Accounts
- Resources

2. Core Components Overview

Data Oversight consists of the following functional areas:

1. **Data Oversight Profile** - Defines the scope, purpose, and blocking behaviour of a validation set
2. **Data Oversight Lines** - Specifies which fields should be validated and how
3. **Conditional Validation** - Adds advanced, rule-based validation logic
4. **Data Oversight Log** - Captures execution results for auditing and troubleshooting
5. **Job Queue Integration** - Automates the execution of profiles



3. Data Oversight Profile

The Data Oversight Profile is the main configuration entity. Each profile represents a logical group of validation rules applied to a specific master data entity.

3.1 Profile Fields

Profile Type - Specifies which entity the profile applies to. Available options:

- Item
- Customer
- Vendor
- G/L Account
- Resource

Description - Describes the purpose of the profile. A default description is populated when the profile is created but can be edited at any time.

Enable Blocking - When enabled, records that fail validation rules will be blocked according to the selected blocking level.

Set Blocked As - Defines how the record will be blocked. Available options depend on the selected Profile Type. Ensure you understand the business impact of each blocking option before enabling this feature.

Enabled - Indicates whether the profile is active and ready to run.

- When enabled, the profile is locked and cannot be modified
- To make changes, disable the profile, update the configuration, and re-enable it

4. Data Oversight Lines

Data Oversight Lines define which fields are validated as part of a profile. Each line represents a single field and its validation behaviour.

4.1 Line Fields

Field No. - Selects the field that the system should validate. This field can:

- Be checked for blank values, or
- Be used as a trigger for conditional validation

Field Description - Automatically displays the description of the selected Field No.



Test Blank Field - Enforces validation to ensure the selected field is not blank.

Field Status - Indicates whether the selected field is valid.

- Fields that are removed or made obsolete will show an error
- Invalid fields are highlighted in red

5. Conditional Validation

Conditional Validation allows additional rules to be applied based on the value of a selected Data Oversight Line field.

The Conditional Validation page consists of two sections:

- **Data Oversight Conditions** (top)
- **Data Oversight Validations** (bottom)

5.1 Data Oversight Conditions

Condition Value - The value that is compared against the Data Oversight Line Field No.

- If the value matches, the validations below are executed
- The value may automatically convert to upper case depending on the field type
- If left blank, a default value may be populated (e.g. number fields default to 0)

Value Status - Indicates whether the Condition Value format matches the data type of the selected Field No.

- Invalid formats (e.g. alphanumeric values in number fields) are rejected
- Errors are highlighted in red until corrected

5.2 Data Oversight Validations

Validations define additional checks on other fields when the condition is met.

Field No. - Specifies the additional field to be validated.

Field Name - Automatically displays the description of the selected Field No.

Validation Value - Defines the value that the selected field must match.

- May automatically convert to upper case depending on field type
- If left blank, a default value may be populated (e.g. number fields default to 0)



Test Blank Field - Forces validation to ensure the selected field is not blank.

- When enabled, Validation Value is disabled and defaulted
- Only one validation method can be used at a time

Value Status - Indicates whether the Validation Value format matches the data type of the selected field.

- Invalid formats (e.g. alphanumeric values in number fields) are rejected
- Errors are highlighted in red until resolved

Field Status - Indicates whether the selected field is valid.

- Fields that are removed or made obsolete will show an error
- Invalid fields are highlighted in red

6. Manual Processing

Each Data Oversight Profile includes a **Process Manually** action on the Profile Card.

This allows users to:

- Run a profile without a Job Queue entry
- Test configurations before enabling automation

Manual processing executes the same logic as automated runs and generates logs.

7. Logs and Monitoring

Each profile maintains a complete execution history through Data Oversight Logs. Logs are created for every run, regardless of success or failure.

7.1 Data Oversight Log

Profile Type - Indicates which profile the log applies to.

With Error - True if at least one validation line failed during processing.

Start DateTime - Timestamp indicating when processing started.

End DateTime - Timestamp indicating when processing completed.

- Useful for performance and troubleshooting analysis



7.2 Data Oversight Log Lines

Each log contains one or more log lines representing the processed Data Oversight Lines.

Table No. - Displays the table number associated with the Profile Type.

Table Name - Displays the table description.

Field No. - Indicates the field configured on the Data Oversight Line.

Field Name - Displays the field description.

With Error - Indicates whether this line encountered an error.

Message - Describes the processing result.

- If errors occur, only the first error is displayed
- Drilling down on the message shows the full list of errors for detailed troubleshooting

8. Job Queue Setup

To automate Data Oversight processing, Job Queue entries must be configured.

8.1 Job Queue Behaviour

- A job queue entry **without parameters** runs all enabled Data Oversight Profiles
- Multiple job queue entries can be created to control execution timing
- Specifying a **Profile Type** in the Job Queue Parameter field allows targeted execution of specific profiles (E.g. “Items” or “Item|Customer|Vendor”)

This flexibility enables efficient scheduling and performance management.

9. Best Practices

- Start with non-blocking profiles during initial rollout
- Test profiles using **Process Manually** before enabling automation
- Regularly review logs to identify recurring data quality issues
- Enable blocking only once validation rules **are fully validated and understood**



10. Conclusion

Data Oversight provides a powerful and flexible framework for enforcing master data governance in Business Central. By combining configurable validation rules, conditional logic, automated processing, and detailed logging, businesses gain greater control and confidence in their master data quality.

For further assistance or enhancements, contact **Binary Lab**.

11. Version Information

Detail	Information
Add-on Name	Data Oversight
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