



# Binary Lab Data Send Add-on Manual

## 1. Overview

The **Data Send** add-on, developed by **Binary Lab**, is designed to streamline the process of securely sending data from **Microsoft Dynamics 365 Business Central** to third-party systems or endpoints.

It allows you to define **what data to send**, **where to send it**, and **how it should be structured** - all through configurable profiles that require no code.

Currently, the add-on supports sending data in **JSON format**, with **XML format support coming soon**.

## 2. Core Components

The add-on is structured around three main areas:

### 2.1 Data Send Profile

The **Data Send Profile** is the core configuration area that defines:

- **Where the data is sent**
- **How the data is formatted**
- **Which fields** are sent
- **Request headers, Content headers, and Authorization headers**
- **Import/Export of profiles** for easy deployment across environments
- **Enabled** – To control whether a profile can be used for both data generation and transmission

Each profile contains both **general configuration options** and detailed **profile line settings** to control data structure, filters, and sending logic.

#### 2.1.1 Profile General Setup

Each profile includes:

| Field              | Description                       |
|--------------------|-----------------------------------|
| <b>Code</b>        | Unique identifier for the profile |
| <b>Description</b> | Short summary of the profile      |



| Field                    | Description                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------|
| <b>Destination URI</b>   | Endpoint for data transmission                                                          |
| <b>Identifier Format</b> | Naming convention for field identifiers (camelCase, snake_case, PascalCase, kebab-case) |
| <b>Error Link</b>        | Access to any active errors                                                             |
| <b>Data Format</b>       | Payload format (currently JSON; XML coming soon)                                        |

### 2.1.2 Header Configuration

Headers allow the profile to control how data is sent to the endpoint:

| Header Type                 | Details                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Request Header</b>       | HTTP headers that define request behavior, e.g., <b>Accept</b> , <b>Accept-Encoding</b>                          |
| <b>Content Header</b>       | Defines content type, e.g., <b>Content-Type: application/json</b>                                                |
| <b>Authorization Header</b> | Authentication details for endpoint access. Supported types: <b>Basic</b> , <b>Bearer Token</b> , <b>API Key</b> |

Note: Authorization headers must be properly configured to ensure successful data transmission.

### 2.1.3 Import and Export Profiles

The **Data Send Add-on** allows **importing and exporting complete profiles**, including all lines, linked lines, filters, headers.

#### Key Features:

- Export a fully configured profile to a file for backup or migration.
- Import a previously exported profile into another environment.
- Ensures all configurations, including headers, filters, linked lines, and line priorities, are retained.
- Enables quick replication of configurations across multiple Business Central environments or tenants.

## 2.2 Data Send Log

The **Data Send Log** provides detailed tracking of all data send operations.



Each log entry records:

- The **profile** executed
- The **success or failure** status
- The **data extracted and sent**
- The **timestamp** of both data generation and transmission

Logs are broken down into:

- **Log Header** - job run summary
- **Log Lines** - specific processed records

## 2.3 Data Send Cue

The **Data Send Cue** offers analysis and monitoring tools, displayed directly in **Manager Role Centers**.

Metrics include:

- Number of configured Profiles
- Number of Logs
- Current errors
- Number of Logs queued to be Sent

Cues are available in these Role Centers (enable via personalization):

- Administrator Main Role Center
- Finance Manager Role Center
- Project Manager Role Center
- Purchasing Manager Role Center
- Resource Manager Role Center
- Service Manager Role Center
- Warehouse Manager Role Center
- Accounting Manager Role Center
- Administrator Role Center
- Business Manager Role Center
- Security Admin Role Center



## 3. Data Send Profile Configuration

### 3.1 Data Send Profile Lines

Profile Lines define the data sources and sending rules.

Each line includes:

- **Table No.** - data source
- **Send Counter Field No.** - tracks last sent record
- **Priority** - order can be adjusted using **Move Up/Down**
- **Linked Lines** - related tables for inclusion in payload

### 3.2 Line Fields

- Define which fields are included in payload
- Fields can be manually selected or inserted automatically
- **Field Status** flags obsolete or invalid fields
- Field order can be adjusted using **Move Up/Down**

### 3.3 Line Filters

- Select field and define filter criteria (optional)
- Validate filters to ensure correctness (mandatory)
- Linked Line filters reference related table fields

### 3.4 Line Counters

- Track last successfully sent entries per line
- Ensures incremental processing

### 3.5 Linked Lines

- Include related tables
- Define field mapping, filters, and priorities
- Supports nested payload generation



### 3.6 Supported Tables

| Table Name                 | Description                                   |
|----------------------------|-----------------------------------------------|
| Customer                   | Customer master data                          |
| Customer Posting Group     | Posting setup for customers                   |
| Customer Price Group       | Pricing structures for customers              |
| G/L Account                | General ledger accounts                       |
| Item                       | Item master data                              |
| Stockkeeping Unit          | Item stock tracking                           |
| Vendor                     | Vendor master data                            |
| Vendor Posting Group       | Vendor posting setup                          |
| Currency                   | Currencies used in transactions               |
| Location                   | Physical/virtual storage locations            |
| Resource                   | Resource master data                          |
| Unit of Measure            | Measurement units                             |
| Tariff Number              | Tariff/classification numbers                 |
| Bank Account               | Bank accounts for company, vendors, customers |
| VAT Business Posting Setup | VAT configuration for business posting        |
| VAT Product Posting Setup  | VAT configuration for product posting         |
| VAT Posting Setup          | Combined VAT configuration                    |
| Dimension                  | Financial dimensions                          |
| Dimension Value            | Dimension values                              |
| Item Variant               | Item variants (e.g., color, size)             |
| Item Unit of Measure       | Units of measure per item                     |
| Gen. Prod. Posting Group   | Product posting groups                        |
| Gen. Bus. Posting Group    | Business posting groups                       |
| Inventory Posting Group    | Inventory posting accounts                    |

Additional tables (change tracking tables) can be added with minor customizations by a Microsoft Partner or in-house developer, related tables do not require any changes.



## 4. Processing Jobs

### 4.1 Job Queue Setup

- Object Type: **Codeunit**
- Object ID: 73045579 (**Data Send Log Processing**)
- Parameter: Profile Code (case-sensitive)
- Frequency: Set as needed

Multiple job queues can be configured for different profiles and schedules.

## 5. Data Format Support

- **Currently Supported:** JSON
- **Coming Soon:** XML

## 6. Error Management

Errors are logged in:

- **Data Send Log**
- **Data Send Profile** via Current Errors link

Cues provide an at-a-glance error summary.

## 7. Summary

The **Binary Lab Data Send Add-on** provides a fully configurable, extensible, and monitored framework to send Business Central data securely to external systems.

With profiles, linked lines, configurable headers, import/export functionality, and automated job queues, you can control and monitor all integration flows efficiently.



## 8. Version Information

| Detail                   | Information                             |
|--------------------------|-----------------------------------------|
| <b>Add-on Name</b>       | Data Send                               |
| <b>Publisher</b>         | Binary Lab (Pty) Ltd                    |
| <b>Supported Product</b> | Microsoft Dynamics 365 Business Central |
| <b>Release Date</b>      | October 2025                            |