

DATABASICS + MICROSOFT DYNAMICS 365 BUSINESS CENTRAL

For Microsoft Dynamics 365 Business Central (Business Central) customers looking to add robust time and expense management capabilities to their accounting solution, DATABASICS provides a full integration to support time and expense accounting.

Each customer's DATABASICS and Business Central integration includes adjustments made for their specific requirements, as well as those for their plugins and extensions, including enhanced process functionality and custom fields and dimensions.

DATABASICS and Business Central integrations typically follow this outline:

INBOUND DATA TO DATABASICS

In a bi-directional integration, **Demographic (Organization) and Project (WBS)** data typically originates in Business Central and is imported to DATABASICS to support valid data in the outbound flows.

ORGANIZATION STRUCTURE

The DATABASICS Organization structure is mapped to the Business Central demographic dimensions utilized by the customer, typically consisting of one or more of the following:

- Company
- Location
- Resource Group
- Vendors - supporting reimbursement through Accounts Payable, if included
- Cost Rates - supporting project cost accounting solution, if included
- Employee

The Employee typically has one or more of the following properties:

- Employee ID
- Vendor ID
- Employee First and Last Name
- Home Company
- Employee Type - supporting entry validation (e.g. OT), if included
- Email Address
- Manager ID - supporting approval requirements, if included
- Hire Date
- Termination Date

HOW IT WORKS

Each Business Central entry module has specific outbound specification from DATABASICS, outlined in separate sub-sections, as follows:

- Journal - labor and expense accounting details
- Accounts Payable - expense accounting and vendor payables
- Project/Job Journal - labor and expense project accounting details

D365 BC PLUGINS & EXTENSIONS

D365 AppSource offers industry-specific plugins and extensions that cover a wide range of functionality. These often add value for integration purposes, and DATABASICS works with customers to leverage this enhanced functionality in support of their requirements.

WORK BREAKDOWN STRUCTURE

The DATABASICS Work Breakdown Structure is mapped to the Business Central activity dimensions utilized by the customer, which typically consists of one or more of the following:

- Customer
- Job / Project
- Task
- Internal Order
- Global / Custom Dimensions
- Bill Rate - supporting billing if included

The dimensions utilized, which may have attributes and properties supporting the customer's specific requirements, can also form part of the DATABASICS data set, including:

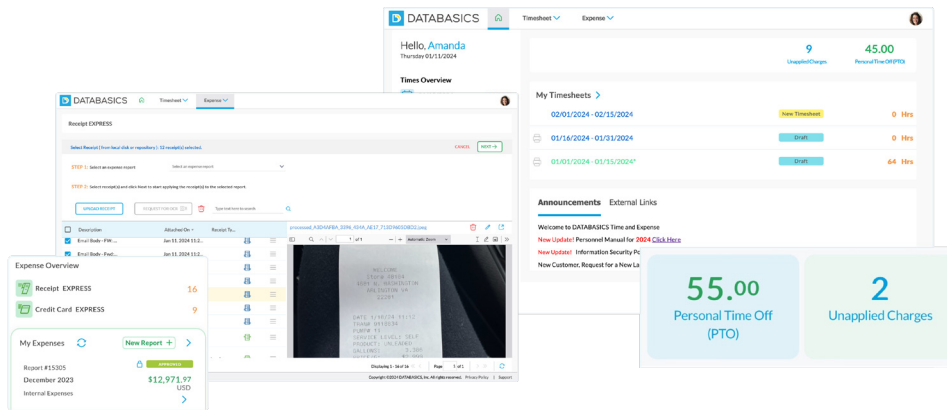
- Project / Task Type
- Owning Company
- Resource Assignment
- Manager ID - supporting approval requirements if included
- Start Date
- End Date

INBOUND INTEGRATION METHODS

Data flow inbound to DATABASICS is managed using the DATABASICS Import/Export utility.

Data can be read directly from exposed pages and fields as defined by the customer using [Open Data Protocol \(ODATA\)](#) webservice, or the customer can provide flat files with data, according to agreed specifications.

The loads will validate to make sure all the required fields are provided in order for the employee to be active in DATABASICS.



DATABASICS TIME & EXPENSE

SYNCHRONOUS SERVICE (ODATA WEBSERVICES)

The DATABASICS Import/Export utility reads data directly from exposed pages and fields as identified by the customer. Using the direct pull solution provides the organization with project data and refreshes the data in DATABASICS for new records and existing records without the need for an intermediary step.

Asynchronous service is also offered.

An agreed specification will outline what data to import from where, mapping the Business Central data to DATABASICS.

An example employee profile specification with exposed fields can be found here: [https://api.businesscentral.dynamics.com/<version_and_URLid>/ODataV4/Company\('<Company_ID>'\)/Resource_Card](https://api.businesscentral.dynamics.com/<version_and_URLid>/ODataV4/Company('<Company_ID>')/Resource_Card)

D365 BC FIELD	DATABASICS DATA FIELD	DESCRIPTION
No.	EMPLY_ID	Primary key
Name	N_FIRST	First Name
Name	N_LAST	Last Name
Resource Group	DEPT_CODE	Home Cost Center
Email	EMAIL1	Used for login and notifications
Employment Date	START_DATE	Used for access control, as well as tenure based logic for leave management if applicable
Termination Date	END_DATE	Used for access control, as well as foundation for final balance reporting for leave management if applicable

CONNECTING TO BUSINESS CENTRAL

1. Select **Connections** from the menu.
2. From the **Connections** page, select **Create** to open the **Create a connection** dialog.
3. Select the **Connector** from the list to open the **Connection** dialog, and then enter the following information for this Connection:
 - **Name** — This can be any meaningful name, up to 25 characters.
 - **Alias** — An alias for this Connection name. The alias is generated from the Connection name and can be up to 25 characters. The Connection alias can include letters, numbers and underscores. Spaces and special characters are not accepted. You can change the alias.
 - **OData Service URL** — The address of any acceptable URL where the Business Central / NAVOData service is located.
 - **User** — The name of the user who has rights to access Business Central / NAVOData, if your Business Central / NAVOData service requires authentication.
 - **Password** — The password, if your Business Central / NAVOData service requires authentication.
Note: If you are connecting to Business Central, you must enter your Web Service Access Key in the Password field, NOT your password.
 - **Company Name** — Name of the Business Central / NAV Company to access. This field is optional. If left blank, Dynamics 365 Business Central / NAV returns the default company.
4. Select **Test** to ensure that the agent can connect to your database. Be sure to test the Connection against all agents that use this Connection.
5. Select **OK** to save the Connection.
Note: Connection property names are case-sensitive.

NAME	DATA TYPE	REQUIRED	SECURED	USAGE
ServiceUrl	string	Yes	No	
User	string	No	No	
Password	string	No	Yes	
AuthenticationType	string	Yes	No	None,Basic
CompanyID	string	No	No	



DATABASICS delivers time and leave tracking, expense reporting, and employee purchasing management solutions that lead the industry in value, performance, and adaptability. Integrations are offered for major accounting, payroll, and HR providers. DATABASICS' customers range from regional businesses and nonprofits to global enterprises.

Award-winning 24/7 Customer Support

Stevie Awards and Best in Biz Awards year after year

