

System Configuration Page Documentation

High-Level Overview

The **System Configuration page** is where the main setup for the Bitrix integration is managed.

It allows administrators to store and update the key IDs and field mappings that all scripts and tools depend on.

Without this configuration, the Python scripts and import/export features won't know how to talk to Bitrix or which fields to use.

In short:

- **Entity IDs** → Identify which custom Bitrix objects are used (e.g., beneficiaries, projects, payments, children).
- **Stage IDs** → Define which workflow stages (like Registration, Verified, Eligible, Completed) are used for beneficiaries and projects.
- **Deduplication fields** → Control how duplicate beneficiaries, payments, or children are detected.
- **Eligibility fields** → Define which fields are checked to decide whether a beneficiary is eligible for a project.
- **Excel import fields** → Decide which columns are used when importing beneficiaries from Excel.
- **Previous projects field** → Keeps track of old project names when resetting beneficiaries.

This page makes the system flexible: if Bitrix IDs or fields change, you don't need to rewrite the code — you just update them here.

Technical Explanation

The **System Configuration page** is powered by a shared config loader (config_loader.py) and the file system_config.json.

How It Works

1. Loading Config

- The page loads the system_config.json file.

- If the file is missing, it falls back to `system_config.default.json`.
- Sensitive secrets (like the Bitrix webhook URL) are always read from environment variables (e.g., `B24_WEBHOOK_URL`) and never stored on disk.

2. Editable Fields

- The page is divided into collapsible sections (<details>):
 - **Entity Type IDs:** 4-digit numbers used in `/crm/type/XXXX` URLs.
 - **Beneficiary Stage IDs:** Workflow stages for beneficiaries (Registration, Verified, Eligible, Completed).
 - **Project Stage IDs:** Stage IDs for projects.
 - **Deduplication Fields:** Field mappings for beneficiaries, payments, and children.
 - **Previous Projects:** Field to store project history.
 - **Eligibility Fields:** Mapping between beneficiary fields and project fields for eligibility logic.
 - **Excel Import Fields:** Defines which columns are included when importing Excel files.

3. Form Handling

- When you edit and save, the form updates `system_config.json`.
- The file is rewritten without including secrets (those always come from environment variables).
- Scripts that run later will always pick up the updated values.

4. Info Boxes

- The page provides inline info-boxes to guide users:
 - Example: Entity IDs are 4 digits and come from `/crm/type/XXXX`.
 - Example: Stage IDs can be found by inspecting Bitrix columns.
 - Example: Field IDs begin with `ufCrm...`, not `UF_CRM_...`

5. Languages

- All visible labels pass through the translation function (`t(key)`).

- Default is English, but Russian and Kyrgyz are supported if translations exist.