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Inextor Serbia (RS) regulated market operational guide

Document Information Table	
Document Type	Operational Guide
Classification	Company Confidential
Document ID	INEX-OG-00013
Version Number	v1.0
Owner	@Michael Houlding Lead Technical Writer - Engineering
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 Document Approval - Document does not have a workflow applied.

Introduction

Document INEX-OG-00013: Inextor Serbia (RS) Regulated Market Operational Guide, outlines the required steps and knowledge to be performed during factory site setup of of Inextor a product of the Inexto SA Suite range of serialization, authentication and track and trace solutions. Information provided will guide the audience in the correct setup and configuration of Inextor based on the EC regulated market requirements. Document INEX-OG-00013 is structured into three sections:

- **Introduction** - Inexto SA pre-requisites for the RS Regulated Market, system overview and background.
- **Configuration** - Operation driver, contents and layouts.

- **Operations** - Production order and code importing.

Purpose

The purpose of INEX-OG-00013 is to provide the required knowledge necessary to successfully set up Inextor correctly to support RS market regulatory requirements.

Scope

The scope of this document is limited to the the bespoke configurable parameters of Inextor based on the RS regulated market requirements.

Target audience

The intended target audience of this document to complete the Inextor installation and configuration is as follows:

The contents of this document are intended for use by:

- Hands-on IS operators and administrators
- Developers and Testers
- Solution Architects and Integration Experts

This document is not intended for:

- Business Managers
- Sales and Marketing
- Quality Management and Certificate Issuers

Document content

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Reference documents

Document ID	Document Title	Revision
SOP 8.6	Technical Documentation Writing	v1.0
INEX-TMP-00006	Regulated Market Document Template	v1.0

Revision history

Version Number	Section	Description of change	Justification of change
v1.0	All	Original Document	New Document

Serbia: Introduction

- [Serbia: Background](#)
- [Serbia: System Overview](#)

Serbia: Background

Serbia requires all tobacco products sold in their market to carry unique serialization codes obtained from the Serbian government's eExcise system. These codes enable complete product traceability from manufacturing through distribution and retail sale.

The Serbian Regulation feature integrates INEXTOR with Serbia's eExcise API system to:

1. **Obtain serialization codes** from the Serbian eExcise system
2. **Manage code inventory** through the Vault system
3. **Apply codes during production** for manufacturing compliance
4. **Support regulatory reporting** to Serbian authorities
5. **Enable product tracking** throughout the supply chain

Serbia: System Overview

The Serbian regulation system involves multiple interconnected components that work together to provide end-to-end tobacco product tracking and compliance.

Core Systems

Serbian Government Systems

- **eExcise API:** The central Serbian government system that issues and validates serialization codes
- **Track and Trace Portal:** Web interface for Serbian authorities to monitor product movements and compliance
- **Regulatory Database:** Central repository of all tobacco product tracking data

Manufacturer Systems (INEXTOR)

- **Vault:** Central repository that manages code inventory and communicates with Serbian authorities
- **Gate:** Factory-level system that coordinates production and code management
- **Liz:** Production line serializers that apply codes to tobacco products

Supporting Systems

- **INEXPRESS:** Aggregation and reporting system for supply chain events
- **Production Equipment:** Printers, cameras, and other hardware for code application and verification

Information Flow

1. Code Ordering Process

Manual Code Ordering Flow:

```
1 Operator → Gate → Serbian eExcise API → Code Generation → Code Download → Gate → Production
```

Automatic Code Ordering Flow:

```
1 Production Order → Gate (Forecast) → Vault → Serbian eExcise API → Code Generation → Automatic Download → Gate → Production
```

Detailed Flow Steps:

1. **Production Planning:** Manufacturer creates production orders specifying Serbian market requirements
2. **Code Request:** System requests unique serialization codes from Serbian eExcise API
3. **Product Registration:** Serbian system validates product details and company information
4. **Code Generation:** eExcise system generates unique codes with specific Serbian format requirements
5. **Code Distribution:** Codes are downloaded to manufacturer's systems for production use
6. **Production:** Codes are applied to tobacco products during manufacturing

2. Production and Application Flow

1 Code Inventory → Production Order → Liz Serializer → Product Marking → Quality Control → Packaging

Key Components:

- **Code Validation:** Each code is verified before application
- **Print Quality Control:** Ensures codes are readable and properly formatted
- **Aggregation:** Products are grouped into bundles, cases, and pallets with tracking relationships
- **Status Tracking:** Real-time monitoring of code usage and product status

3. Supply Chain Reporting Flow

1 Production Events → INEXPRESS → Serbian Track and Trace System → Regulatory Compliance

Reported Events:

- **Manufacturing:** Initial code application and product creation
- **Aggregation:** Grouping of products into larger packaging units
- **Shipping:** Movement of products between facilities
- **Distribution:** Transfer to wholesalers and retailers
- **Sales:** Final point-of-sale reporting

Serbia: Configuration

This section details the essential configurations (Inextor) needed to comply with Serbian regulations.

- [Serbia: Contents and Layouts Configuration](#)

Serbia: Contents and Layouts Configuration

Overview

Serbian Pack codes are printed using a set of pre-configured Contents. Contents for other unit types, and all layouts, need to be created manually.

Contents

The following pre-configured Serbian contents are available:

- Packs_RS_HR: Contains the human readable pack code
- Packs_RS_MR_DataMatrix: Contains the machine readable pack code, for printing in a data matrix (without leading FNC1)
- Packs_RS_MR_DotCode: Contains the machine readable pack code, for printing in a dotcode (with leading FNC1)
- Packs_RS_ProductCode: Contains only the product code
- Packs_RS_SerialNumber: Contains only the serial number

QA environment

The Serbian regulation has different code formats for testing and production.

When setting up a QA Gate, it is necessary to make the following changes to the 2 machine readable contents, so that the codes are valid:

Content Code	Original Format - for PROD Gate only	Modified Format - for QA Gate only (addition in bold)
Packs_RS_MR_DotCode	[FNC1]MF{Packs_RS_SerialNumber}{Packs_RS_ProductCode}{TPD_DATE}	[FNC1] TT MF{Packs_RS_SerialNumber}{Packs_RS_ProductCode}{TPD_DATE}
Packs_RS_MR_DataMatrix	MF{Packs_RS_SerialNumber}{Packs_RS_ProductCode}{TPD_DATE}	TT MF{Packs_RS_SerialNumber}{Packs_RS_ProductCode}{TPD_DATE}

Format

When defining Dynamic (External) contents for Serbian codes, the following formats can be specified, to represent different parts of a Serbian pack code:

- IDIssuerCode - the content will contain the code of the Serbian ID Issuer (MF).
- SerialNumber- the content will contain the serial number of the Serbian pack code.
- ProductCode- the content will contain the product code of the Serbian pack code.

Layouts

The Serbian pack layout must reference content containing the machine-readable version of the code (such as Packs_RS_MR_DataMatrix or Packs_RS_MR_DotCode).

Serbia: Operations

- [Serbia: Manual Code Imports](#)
- [Serbia: Production Orders](#)
- [Serbia Automatic Code Imports](#)

Serbia: Manual Code Imports

This document outlines the process for importing Serbian codes on the Gate.

Importing codes involves the user uploading a file (in Microsoft Excel xlsx format) that includes codes authorized for use on a product.

As the file itself carries no master data, a production order needs to be defined on the Gate in advance, and selected during the import process. The external code chunks that will be generated during the import process will adopt the master data of the selected production order. See [Serbia: Production Orders](#) for the list of attributes necessary.

 Importing Serbian codes on the Vault possible, this capability is only available on the Gate.

Importing Codes

 Before getting started, ensure the [Gate Op. Driver: FCTC Driver](#) and its Serbian module are enabled and configured properly.

Follow these steps to import Serbian codes on the Gate manually:

1. Navigate to Gate → Products → External Codes
2. Click the **Import...** button.
3. From the **External Codes Importer** dropdown select *RS*.
4. Select the production order for which these codes are needed.
5. Use the **Browse** button to choose the xlsx code file to import.
6. Click **Import**. A status message will be displayed based on the outcome of the operation.

 **NOTE:** As the Serbian code file does not contain any metadata, it is the responsibility of the operator to make sure that the codes are compatible with the selected production order. The Gate is unable to check this.

Serbia: Production Orders

Production orders for Serbia are handled through the Gate Administration client.

For a Production Order to be considered for the Serbian regulation it needs to contain an attribute **DESTINATIONMARKET** with an appropriate value (both are configurable in the [Operation Driver](#) settings).

Creating Production Orders

To create a production order follow these steps:

1. Navigate to **Production** → **Production Orders** and then select the **New** button.
2. A new window will appear, prompting you to input the necessary details to initiate a production order.
3. Refer to the table below for guidance on completing the required fields and click on **Save**.

Field	Usage and Description
Order Number	A unique Order Number for the production order
Manufactured Product	Select the product you will manufacture.
Link-Up Setup	The production line (LinkUp) where production will take place
Requested Quantity	The requested quantity in packs, i.e. the number of packs that you expect to produce
Order Expected Start Date	The expected start date of the production order. NOTE: This field is not used at the moment, but in the future, it will help Vault determine when the codes will have to be ordered
Order Full Quantity	Whether all codes should be ordered simultaneously, overriding the slicing strategy selected when configuring the forecast driver. NOTE: This field is not used at the moment but in the future Vault will use it to distribute the ordered quantities in one or more code orders.
Total Quantity	After saving the production order, this read-only field will contain the number of packs with the rejection rate configured on the Link-Up.

	So if you have a requested quantity of 10'000 and have configured a rejection rate of 1% for packs, you would see 10,100 in this field. This number reflects the number of packs codes that will be ordered.
Attributes	The following attributes need to be available in the Production Order, as they are required by the Serbian regulation. They can be defined in the PO itself or at the Manufactured Product level: • RS_CompanyType: Company type (1 for Producer, 2 for Importer) • RS_ProductType: Product type (1 for Cigarettes, 2 for Smoke Free Product) • RS_KnCode: KN commodity code • RS_ProductCode: the unique 1-4 character product code assigned by the ID Issuer • RS_PackWeight: the average weight of the pack in grams, rounded to the nearest 0.1 gram • RS_PackUnits: how many cigarettes in a pack

Serbia Automatic Code Imports

[Prerequisites](#)

[Configuration](#)

[Operation](#)

This guide walks you through configuring and using the automatic code ordering system for Serbian Regulation.

The automatic code ordering feature uses INEXTOR's [forecast](#) mechanism to order codes from the Serbian ID Issuer based on your production needs.

Prerequisites

System Requirements

Before configuring automatic code ordering, ensure you have:

1. Functional INEXTOR Installation

- Vault with administrative access
- Gate connected to the factory
- Liz serializers on production lines

2. Serbian Regulation Foundation

- Basic Serbian regulation already configured and operational
- Serbian ID Issuer (RSGOV) set up in Vault
- eExcise API credentials obtained from Serbian authorities

3. FCTC Capability

- FCTC driver on the Gate is installed and enabled
- Forecast-based ordering functionality available
- Network connectivity between Vault and Serbian eExcise API

Configuration

Step 1: Configure Serbian ID Issuer on Vault

1. Access Vault Administration

- Log into Vault with administrative privileges
- Navigate to **FCTC Regulations** → **ID Issuers**

2. Create RSGOV ID Issuer

- Find the RSGOV ID Issuer entry
- Set **Using the production environment of the ID Issuer** checkbox to **true**
- Configure the ID Issuer plugin with:
 - **Service URL:** Your eExcise API endpoint
 - **API Key:** Authentication key from Serbian authorities
- Test the connection to verify credentials

3. Register FCTC Entities

4.

- **Economic Operator ID:** The Serbian regulation does not have economic operator IDs, so please provide an internal code or other value that is meaningful.
- **Factory ID:** provide your registered factory identifier (referred to as Facility ID in the eAkciza system).
- **Machine ID:** Provide the machine ID in the eAkciza system. It is defined as an Integer value. The manufacturer must supply this for TPD in MMIC mode.

Step 2: Configure Gate FCTC Driver

1. Access Gate Configuration

- Open Gate administration interface
- Navigate to **Configuration** → **Operation Drivers**
- Select **FCTC driver**

2. Enable Serbian Driver

- Click **Manage** and enable the Serbian driver
- Click **Configure** to access Serbian settings

3. Configure Serbian Automatic Ordering On the **Serbia tab**, configure the following settings:

Setting	Value	Description
Company Type	1, 2, or 5	1= Producer, 2 = Importer, 5 = Special trade procedure
Enable Forecasts	✓ Checked	<u>Critical:</u> Enables automatic code ordering
Enable Tab in Production Orders	✓ Checked	isplays Serbian attributes in the PO form
Enable Tab in Manufactured Products	✓ Checked	isplays Serbian attributes in the product form

Important: The "Enable Forecasts" setting is what activates automatic code ordering. Without this, only manual ordering is available.

Note: that the values indicated in the **Value** field above depend upon your specific production requirements.

Step 3: Configure Print Templates (If Needed)

If you need to print Serbian codes on products:

1. Access Template Configuration

- Go to **Printing** → **Contents**
- Open templates for Serbian market products

2. Add Serbian Code Fields

- For **HR codes**: Add `Packs_RS_HR`
- For **MR DataMatrix**: Add `Packs_RS_MR_DataMatrix`
- For **MR DotCode**: Add `Packs_RS_MR_DotCode`

Operation

Creating Production Orders for Automatic Ordering

1. Create New Production Order

- From the **Gate Admin (UI)**, navigate to **Production Orders** grid
- Create a new production order or clone existing one
- Set **Order expected start date** to a future date and other important details

2. Configure Serbian Market Settings

- Select the production order (e.g., PO RS.001)
- Set **Requested Quantity** (e.g., 5000 codes)
- Go to the **Serbia tab** and fill in required attributes:

Field Example	Sample Value	Description
Marking Nomenclature	2402.20 90 00 00	Product classification code
Product Code	2624	1-4 digit product identifier
Height	10.2	Pack weight (with 1 decimal place)
Pack Units	20	Number of units per pack

3. **Save and Monitor**

- Click **Save and Close**
- The system will automatically generate forecasts
- Forecasts are sent to the Vault for processing

Automatic Code Ordering Process

1. **Forecast Generation**

- When you save a production order with Serbian attributes, the Gate automatically creates forecasts
- Forecasts include product specifications and timing requirements
- These are transmitted to the Vault for processing

2. **Automatic Order Placement**

- When the production start date approaches (within the configured request delay period)
- Vault automatically submits the code order to Serbian eExcise API
- No manual intervention required

3. **Code Download and Availability**

- Serbian system validates the request and generates codes
- Codes are automatically downloaded to the Vault
- Codes are distributed to the Gate
- Production order status updates to show codes are available

Monitoring Code Availability

1. **Check Production Order Status**

- Go to **Production Orders** grid
- Look for status indicators showing code availability
- Green indicators = codes ready for production
- Red indicators = codes pending or issues

2. **Verify Code Download**

- Check that codes are materialized in the system
- Verify code format and quantity match requirements
- Ensure codes are valid for production use

Production with Automatic Codes

1. **Start Production**

- Begin production on the Liz serializer
- Liz automatically requests Serbian codes from Gate
- Codes are applied according to configured print templates

2. **Quality Verification**

- Verify codes print correctly with proper format
- Check code readability and compliance
- Ensure all Serbian regulation requirements are met