

ID Issuer System

Identifiers Format and Structure

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General rules

System alphabet is consisting of uppercase letters of English alphabet [A-Z] and numbers [0-9] in total count of possible 33 characters.

Characters I, O and B are excluded due to similarity with printed characters 1, 0 and 8.

No other characters will be used for creation of entity identifiers (EOID, FID and MID) and unique identifiers (upUI and aUI).

ID Issuer ID for Croatian ID Issuer is **LEAKD**.

Economic operator identifier code – EOID

General structure of **EOID** created by the system is :

Position	Name	Length	Example
1	ID Issuer ID	5	LEAKD
2	Identifier		
	Identifier type	1	E
	Random Sequence	5	G5DE4

First position is **ID Issuer ID** with fixed length of 5 characters and fixed value **LEAKD**.

Identifier consist of Identifier type and Random Sequence on second position.

Identifier type is fixed length of 1 character, and value **E**
– Economic Operator generated by ID Issuer for Croatia

Random sequence is fixed length of 5 characters and random value.

Example of created economic operator identifier (spaces only for easier reading here):

LEAKD E G5DE4

Facility identifier code – FID

General structure of **FID** created by the system is :

Position	Name	Length	Example
1	ID Issuer ID	5	LEAKD
2	Identifier		
	Identifier type	1	F
	Random Sequence	5	G5RT6

First position is **ID Issuer ID** with fixed length of 5 characters and fixed value **LEAKD**.

Identifier consist of Identifier type and Random Sequence on second position.

Identifier type is fixed length of 1 character, and value **F**

– Facility generated by ID Issuer for Croatia

Identifier is fixed length of 5 characters and random value.

Example of created facility identifier (spaces only for easier reading here):

LEAKD F G5RT6

Machine identifier code – MID

General structure of **MID** created by the system is :

Position	Name	Length	Example
1	ID Issuer ID	5	LEAKD
2	Identifier		
	Identifier type	1	M
	Random Sequence	5	T6UZ9

First position is **ID Issuer ID** with fixed length of 5 characters and fixed value **LEAKD**.

Identifier consist of Identifier type and Random Sequence on second position.

Identifier type is fixed length of 1 character, and value **M**

– Machine generated by ID Issuer for Croatia

Identifier is fixed length of 5 characters and random value.

Example of created machine identifier (spaces only for easier reading here) :

LEAKD M T6UZ9

Unit pack unique identifier – upUI

General structure of **upUI** created by the system is :

Position	Name	Length	Example
1	ID Issuer ID	5	LEAKD
2	Serial Number		
	Identifier type	1	1
	Random Sequence	10	W8ER5G77L9
3	Product Code	6	2Q24ET

First position is **ID Issuer ID** with fixed length of 5 characters and fixed value **LEAKD**.

Serial number consist of Identifier type and Random Sequence on second position.

Identifier type with fixed length of 1 character, and fixed value **1**
– unit pack unique identifiers generated by ID Issuer for Croatia

Random Sequence with fixed length of 10 characters and random value.

Third position is **Product Code** with fixed length of 6 characters and random value.

Example of created unit pack unique identifier (spaces only for easier reading here) :

LEAKD 1 W8ER5G77L9 2Q24ET

Aggregation unique identifier – aUI

General structure of **aUI** created by the system is :

Position	Name	Length	Example
1	ID Issuer ID	5	LEAKD
2	Serial Number		
	Identifier type	1	2
	Random Sequence	12	NM224PLK9DAA
3	Facility Code	6	ER78UF

First position is **ID Issuer ID** with fixed length of 5 characters and fixed value **LEAKD**.

Serial number consist of Identifier type and Random Sequence on second position.

Identifier type with fixed length of 1 character, and fixed value **2**
– aggregation unique identifiers generated by ID Issuer for Croatia

Random Sequence with fixed length of 12 characters and random value.

Third position is **Facility Code** with fixed length of 6 characters and random value.

Example of created unit pack unique identifier (spaces only for easier reading here) :

LEAKD 2 NM224PLK9DAA ER78UF

Identifier types

Character	Interpretation	Character	Interpretation
A	<i>reserved</i>	S	<i>reserved</i>
B	<i>not used</i>	T	<i>reserved</i>
C	<i>reserved</i>	U	<i>reserved</i>
D	<i>reserved</i>	V	<i>reserved</i>
E	E OID, ID Issuer Croatia	W	<i>reserved</i>
F	F ID, ID Issuer Croatia	X	<i>reserved</i>
G	<i>reserved</i>	Y	<i>reserved</i>
H	<i>reserved</i>	Z	<i>reserved</i>
I	<i>not used</i>	0	<i>reserved</i>
J	<i>reserved</i>	1	upUI, ID Issuer Croatia
K	<i>reserved</i>	2	aUI, ID Issuer Croatia
L	<i>reserved</i>	3	<i>reserved</i>
M	M ID, ID Issuer Croatia	4	<i>reserved</i>
N	<i>reserved</i>	5	<i>reserved</i>
O	<i>not used</i>	6	<i>reserved</i>
P	<i>reserved</i>	7	<i>reserved</i>
Q	<i>reserved</i>	8	<i>reserved</i>
R	<i>reserved</i>	9	<i>reserved</i>

Data carrier encoding (recommendation)

Structure of a unit-level unique identifier

(after encoding into a data carrier)

compliant with Implementing Regulation 2018/574 and the applicable international standards

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Unique identifier:	Symbology Identifier	Mandatory Data Qualifier	ID Issuer Identification Code	Optional Data Qualifier	Serial Number	Optional Data Qualifier	Product code	Optional Data Qualifier	Timestamp
Type:	Qualifier	Qualifier	String (data element)	Qualifier	String (data element)	Qualifier	String (data element)	Qualifier	String (data element)
Position within the unique identifier:	Fixed	Fixed	Fixed	Free	Free	Free	Free	Fixed	Fixed
Regulated by:	Art. 21(1) and ID issuer's coding structure	Art.3(4), Art.8(1)(a), Art. 21(1) and ID issuer's coding structure	Art.3(4) and Art.8(1)(a)	Art. 21(1) and ID issuer's coding structure	Art.8(1)(b)	Art. 21(1) and ID issuer's coding structure	Art.8(1)(c)	Art. 21(1), Art. 21(4) and ID issuer's coding structure	Art.8(1)(d) and Art.21(4)
Applicable international standards:	ISO/IEC 16022:2006, or ISO/IEC 18004:2015, or ISS DotCode Symbology Spec.	ISO 15459-2:2015 and ISO 15459-3:2014	ISO 15459-2:2015 and ISO 15459-3:2014						
Process	Applied by EO	Applied by EO	Generated by ID issuer	Applied by EO	Generated by ID issuer	Applied by EO	Generated by ID issuer	Applied by EO	Applied by EO
Transmission to the repositories system	No	No	Yes	No	Yes	No	Yes	No	Yes

Note: For the purpose of the above schema, group separators (/FNC1) are considered in the same manner as optional data qualifiers, i.e. their use depends on ID issuer's coding structure.