Creating a Global Document Type Identifier (GDTI)

Checklist for creating a Global Document Type Identifier (GDTI)

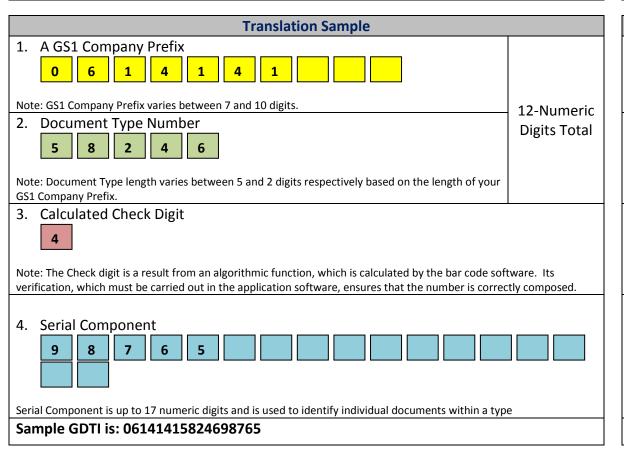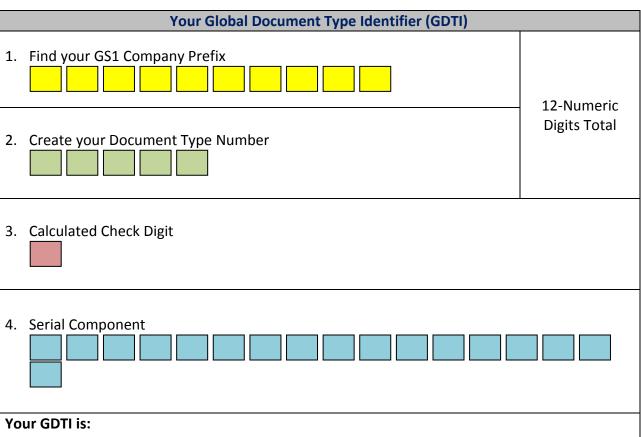| Task	Example	
1. Acquire a GS1 Company Prefix	0614141 is the GS1 Company Prefix assigned	☐
2. Determine the types of documents to be identified with GDTIs.		☐
3. Assign Document Type Numbers to each type of document	**00000** is the first Document Type Number **00001** is the second Document Type Number **00002** is the third Document Type Number and so on…	☐
4. Assign Serial Numbers by document type for each document type	**1** is the first Serial Number for the first Document Type Number **2** is the second Serial Number for the first Document Type Number **3** is the third Serial Number for the first Document Type Number and so on…	☐
5. Maintain a data file of document types and GDTIs		☐
6. Maintain a data file of Serial Number assignment by document type including what Serial Number is linked to who or what		☐
7. Manage data files for maintenance (changed or deleted assignments)		☐

Creating a Global Document Type Identifier (GDTI)

Identify the components of the GDTI and Serial Component

Components of a Global Document Type Identifier (GDTI):
• GS1 Company Prefix *(Assigned by GS1 US)*
• Document Type Number *(Assigned by the owner of the GS1 Company Prefix)*
• Check Digit - Online Check Digit Calculator   *(Automatically calculated - Modulo 10 Algorithm)*
• Serial Component *(Assigned by the owner of Document Type)*

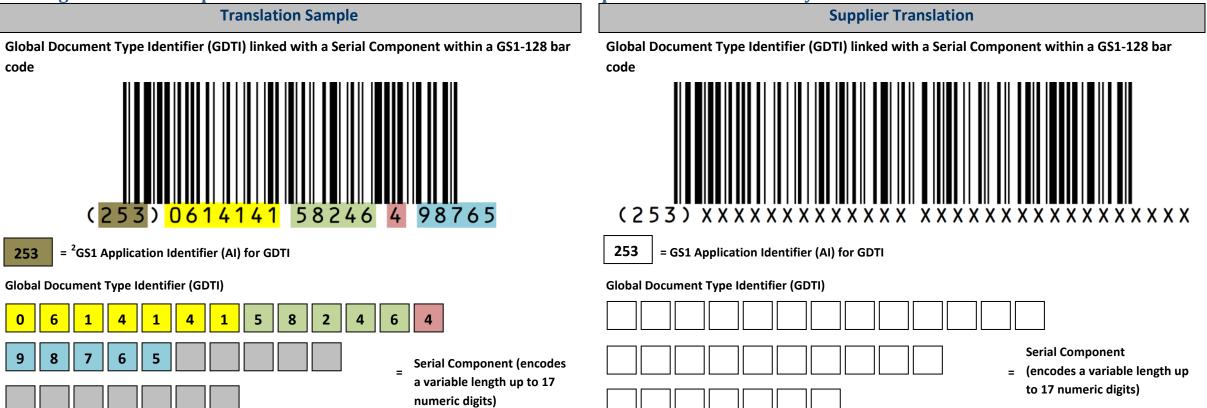| Components of a GDTI: |
| --- |
| • GS1 Company Prefix *(Assigned by GS1 US)* |
| • Document Type Number *(Assigned by the owner of the GS1 Company Prefix)* |
| • Check Digit - Online Check Digit Calculator
 (Automatically calculated - Modulo 10 Algorithm) |
| • Serial Component *(Assigned by the owner of Document Type)* |

Translation Sample

1. A GS1 Company Prefix

| 0 | 6 | 1 | 4 | 1 | 4 | 1 | | | |

Note: GS1 Company Prefix varies between 7 and 10 digits.

2. Document Type Number

| 5 | 8 | 2 | 4 | 6 |

Note: Document Type length varies between 5 and 2 digits respectively based on the length of your GS1 Company Prefix.

12-Numeric Digits Total

3. Calculated Check Digit

| 4 |

Note: The Check digit is a result from an algorithmic function, which is calculated by the bar code software. Its verification, which must be carried out in the application software, ensures that the number is correctly composed.

4. Serial Component

| 9 | 8 | 7 | 6 | 5 | | | | | | | | |
| | |

Serial Component is up to 17 numeric digits and is used to identify individual documents within a type

Sample GDTI is: 0614141584698765

Your Global Document Type Identifier (GDTI)

1. Find your GS1 Company Prefix

| | | | | | | | | | |

2. Create your Document Type Number

| | | | | |

12-Numeric Digits Total

3. Calculated Check Digit

| |

4. Serial Component

| | | | | | | | | | | | | |
| |

Your GDTI is:

Creating a Global Document Type Identifier (GDTI) for use in a Barcode[1]

If using a barcode to capture the GTDI: Insert the GDTI and Serial Component into a GS1-128 symbol

Translation Sample	Supplier Translation

Global Document Type Identifier (GDTI) linked with a Serial Component within a GS1-128 bar code

(253) 0614141 58246 4 98765

253	= [2]GS1 Application Identifier (AI) for GDTI

Global Document Type Identifier (GDTI)

0	6	1	4	1	4	1	5	8	2	4	6	4

9	8	7	6	5					

= Serial Component (encodes a variable length up to 17 numeric digits)

Global Document Type Identifier (GDTI) linked with a Serial Component within a GS1-128 bar code

(253) XXXXXXXXXXXXX XXXXXXXXXXXXXX(XXXXXX)

253	= GS1 Application Identifier (AI) for GDTI

Global Document Type Identifier (GDTI)

= Serial Component (encodes a variable length up to 17 numeric digits)

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[1] For further information about printing GS1-128 barcodes please refer to (http://www.gs1us.org/resources/standards/gs1-128) and technology providers (barcode specialists) who will create the barcode labels.

[2] GS1 Application Identifiers are the field of two to four digits at the beginning of an Element String in a barcode that uniquely defines its format, length, and meaning. They are all identified in Section 3 of the GS1 General Specifications. Parentheses surrounding the Application Identifier (AI) are not encoded within the barcode but are used for the Human Readability.

Creating a Global Document Type Identifier (GDTI) for use in EPC/RFID[3]

When using an ECP/RFID-enabled Tag: Convert the GDTI and Serial Component to the EPC GDTI Format

| Translation Sample | | Supplier Translation | |

GS1 Company Prefix

| 0 | 6 | 1 | 4 | 1 | 4 | 1 |

(Note: Varies in length between 7 and 10 digits.)

Document Type

| 5 | 8 | 2 | 4 | 6 |

(Note: Object Class length varies between 5 and 2 digits respectively based on the length of your GS1 Company Prefix.)

Serial Component (assigned by the GS1 Company Prefix Owner)

| 9 | 8 | 7 | 6 | 5 | | | | | |

GDTI: 06141415824698765

GS1 Company Prefix

(Note: Varies in length between 7 and 10 digits.)

Document Type

(Note: Object Class length varies between 5 and 2 digits respectively based on the length of your GS1 Company Prefix.)

Serial Component (assigned by the GS1 Company Prefix Owner)

GDTI:

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[3] For further details about encoding EPC-enabled RFID Tags, please refer to the Tag Data Standard (http://www.gs1.org/gsmp/kc/epcglobal/tds/) and technology providers (integrators) who will create the tags/inlays.