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## **MyGLS API** for online parcel processing

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## Change log

Change No.	Date version	Description	Since
1	2019-02-01	Brand new API for MyGLS	2019-02-01

## Getting started

Before you can start using this **API** for MyGLS system, you got to have an agreement with GLS. If you don't have the required MyGLS login credentials please contact GLS company.

Online API communication is designed via **HTTPS**.

MyGLS API supports two approaches: **SOAP** (format **XML**) and **REST** (format **JSON** or **XML**).

## API service data assembly

API development team has decided to release shared assembly *GLS.MyGLS.APIServiceData.dll* and code snippets (C# / PHP).

You can download it from [here](#).

Library contains declaration of all API request/response classes, enumerations, etc.

It is possible to use it in third party solutions by adding reference to project.

## Authentication and authorization

Every calling of API method has to be authenticated via request parameter.

You need *user name (email)* and *password*.

Don't forget to fill it in all requests.

```
public partial class APIRequestBase
{
    public APIRequestBase()
    {
        Initialize();
    }

    partial void Initialize();

    /// <summary>
    /// Password from MyGLS encrypted with SHA512 algorithm
    /// </summary>
    public byte[] Password { get; set; }
    /// <summary>
    /// MyGLS user name (email address) used to authorize request
    /// </summary>
    public string Username { get; set; }
}
```

For calling all API methods user need MyGLS authorization "*Create Parcel*".

Password in string representation must be encrypted with **SHA512** algorithm to byte array.

## Password SHA512 C# implementation

```

/// <summary>
/// From password calculates hash to byte array
/// </summary>
/// <param name="password">raw password</param>
/// <returns>password hash</returns>
public static byte[] Sha512(string password)
{
    using (SHA512 sha512 = new SHA512Managed())
    {
        return sha512.ComputeHash(Encoding.UTF8.GetBytes(password));
    }
}

```

## Password SHA512 PHP implementation

```

<?php
$password_hash = hash('sha512', $password);
?>

```

## Country domain API URLs

We are supporting MyGLS **API** for 6 countries now.

Mind to use the right country **domain**.

	Country		API URL
1	Croatia	SOAP	https://api.mygls.hr/ParcelService.svc?singleWsdI
		REST	https://api.mygls.hr/ParcelService.svc/{format}/{methodName}
		<b>testing</b>	https://api.test.mygls.hr/...
2	Czechia	SOAP	https://api.mygls.cz/ParcelService.svc?singleWsdI
		REST	https://api.mygls.cz/ParcelService.svc/{format}/{methodName}
		<b>testing</b>	https://api.test.mygls.cz/...
3	Hungary	SOAP	https://api.mygls.hu/ParcelService.svc?singleWsdI
		REST	https://api.mygls.hu/ParcelService.svc/{format}/{methodName}
		<b>testing</b>	https://api.test.mygls.hu/...
4	Romania	SOAP	https://api.mygls.ro/ParcelService.svc?singleWsdI
		REST	https://api.mygls.ro/ParcelService.svc/{format}/{methodName}
		<b>testing</b>	https://api.test.mygls.ro/...
5	Slovenia	SOAP	https://api.mygls.si/ParcelService.svc?singleWsdI
		REST	https://api.mygls.si/ParcelService.svc/{format}/{methodName}
		<b>testing</b>	https://api.test.mygls.si/...
6	Slovakia	SOAP	https://api.mygls.sk/ParcelService.svc?singleWsdI
		REST	https://api.mygls.sk/ParcelService.svc/{format}/{methodName}
		<b>testing</b>	https://api.test.mygls.sk/...

## Handy structures used in request/response data exchange

### Parcel class

Object containing necessary data for printing labels.

Property	DataType	Description
<b>ClientNumber</b>	Integer	Unique client number provided by GLS company. REQUIRED
<b>ClientReference</b>	String	Client custom tag identifying parcel. STRONGLY RECOMMENDED
<b>Count</b>	Integer	Count of parcels sent in one shipment. DEFAULT 1
<b>CODAmount</b>	Decimal	Cash on delivery amount. NOT REQUIRED
<b>CODReference</b>	String	Cash on delivery client reference number used for payment pairing. REQUIRED if CODAmount is filled.
<b>Content</b>	String	Parcel info printed on label.
<b>PickupDate</b>	DateTime	Pick up date. DEFAULT actual date
<b>PickupAddress</b>	<a href="#">Address</a>	The address of place where courier pick up the shipment. REQUIRED
<b>DeliveryAddress</b>	<a href="#">Address</a>	The address of destination place. REQUIRED
<b>ServiceList</b>	List< <a href="#">Service</a> >	Services and their special parameters.

### Address class

Object containing address of pick up place and parcel destination.

Property	DataType	Description
<b>Name</b>	String	Name of the person or organization. REQUIRED
<b>Street</b>	String	Name of the street. REQUIRED
<b>HouseNumber</b>	String	Number of the house.
<b>City</b>	String	Name of the town or village. REQUIRED
<b>ZipCode</b>	String	Area Zip code. REQUIRED
<b>CountryIsoCode</b>	String	Two letter country code defined in ISO 3166-1. <a href="#">More...</a>
<b>ContactName</b>	String	Name of person which can be asked or inform about shipment details by GLS.
<b>ContactPhone</b>	String	Phone number of person which can be asked or inform about shipment details by GLS.
<b>ContactEmail</b>	String	Email address of person which can be asked or inform about shipment details by GLS.

## Service class

Object containing specific service settings.

Property	DataType	Description
<b>Code</b>	String	Service code (see <a href="#">Appendix B: List of services</a> ). REQUIRED
<b>ADParameter</b>	ServiceParameterADR	Settings for ADR service REQUIRED FOR "ADR" SERVICE
<b>AOSParameter</b>	ServiceParameterString	Settings for AOS service REQUIRED FOR "AOS" SERVICE
<b>CS1Parameter</b>	ServiceParameterString	Settings for CS1 service REQUIRED FOR "CS1" SERVICE CODE
<b>DDSPParameter</b>	ServiceParameterDateTime	Settings for DDS service REQUIRED FOR "DDS" SERVICE CODE
<b>DPVParameter</b>	ServiceParameterStringDecimal	Settings for DPV service REQUIRED FOR "DPV" SERVICE CODE
<b>FDSParameter</b>	ServiceParameterString	Settings for FDS service REQUIRED FOR "FDS" SERVICE CODE
<b>FSSParameter</b>	ServiceParameterString	Settings for FSS service REQUIRED FOR "FSS" SERVICE CODE
<b>INSPParameter</b>	ServiceParameterDecimal	Settings for INS service REQUIRED FOR "INS" SERVICE CODE
<b>MMPPParameter</b>	ServiceParameterDecimal	Settings for MMP service REQUIRED FOR "MMP" SERVICE CODE
<b>PSDParameter</b>	ServiceParameterStringInteger	Settings for PSD service REQUIRED FOR "PSD" SERVICE CODE
<b>SDSPParameter</b>	ServiceParameterTimeRange	Settings for SDS service REQUIRED FOR "SDS" SERVICE CODE
<b>SM1Parameter</b>	ServiceParameterString	Settings for SM1 service REQUIRED FOR "SM1" SERVICE CODE
<b>SM2Parameter</b>	ServiceParameterString	Settings for SM2 service REQUIRED FOR "SM2" SERVICE CODE
<b>SZLParameter</b>	ServiceParameterString	Settings for SZL service REQUIRED FOR "SZL" SERVICE CODE
<b>Value</b>	String	Service value without previous special service settings



## Error lists in response classes

Each response class from API methods includes list of error objects describing potential problems.

```
public DeleteLabelsResponse()
{
    DeleteLabelsErrorList = new List<ErrorInfo>();
    ...

public GetPrintDataResponse()
{
    GetPrintDataErrorList = new List<ErrorInfo>();
    ...

public GetPrintedLabelsResponse()
{
    GetPrintedLabelsErrorList = new List<ErrorInfo>();
    ...

public PrepareLabelsResponse()
{
    PrepareLabelsError = new List<ErrorInfo>();
    ...

etc.
```

### ErrorInfo class

Property	DataType	Description
<b>ErrorCode</b>	Integer	Value from error enumeration (see <a href="#">Appendix A</a> ).
<b>ErrorDescription</b>	String	Human readable error description (see <a href="#">Appendix A</a> ) or exception message trying to describe problem.
<b>ClientReferenceList</b>	List<String>	List of client parcel tags identifying parcels where specific error happened.
<b>ParcelIdList</b>	List<Integer>	List of database parcel ID identifying parcel records where specific error happened.

```
/// <summary>
/// Error class - list of validation errors if they are present
/// </summary>
public partial class ErrorInfo
{
    public ErrorInfo()
    {
        ClientReferenceList = new List<string>();
        ParcelIdList = new List<int>();

        Initialize();
    }

    partial void Initialize();

    /// <summary>
    /// Error code - see documentation
    /// </summary>
    public int ErrorCode { get; set; }

    /// <summary>
    /// Error code description
    /// </summary>
    public string ErrorDescription { get; set; }

    /// <summary>
    /// Customers parcel tags
    /// </summary>
    public List<string> ClientReferenceList { get; set; }

    /// <summary>
    /// Database parcel ID
    /// </summary>
    public List<int> ParcelIdList { get; set; }
}
```

## Supported API parcel operations

### PrepareLabels

Validates parcel data for labels and adds valid parcel data to database.

```
PrepareLabelsResponse PrepareLabels(PrepareLabelsRequest prepareLabelsRequest);
```

#### Request

Method	URL examples
<b>POST</b>	https://api.myglshu.com/ParcelService.svc/json/PrepareLabels (LATEST VERSION, format JSON, for HU)
	https://api.myglscz.com/ParcelService.svc/xml/PrepareLabels_20190201 (SPECIFIC VERSION, format XML, for CZ)

#### Request class PrepareLabelsRequest

Property	DataType	Description
<b>ParcelList</b>	List< <a href="#">Parcel</a> >	List of labels/parcels data . REQUIRED NOT EMPTY

```
public partial class PrepareLabelsRequest : APIRequestBase
{
    public PrepareLabelsRequest()
    {
        ParcelList = new List<ServiceData.APIDTOs.LabelOperations.Parcel>();

        Initialize();
    }

    partial void Initialize();

    /// <summary>
    /// Parcel list contains mandatory information for labels
    /// </summary>
    public List<ServiceData.APIDTOs.LabelOperations.Parcel> ParcelList { get; set; }
}
```

#### Response class PrepareLabelsResponse

Property	DataType	Description
<b>ParcelInfoList</b>	List< <a href="#">ParcelInfo</a> >	List of successfully prepared records (ID and ClientReference) for generating labels.
<b>PrepareLabelsError</b>	List< <a href="#">ErrorInfo</a> >	List of potential errors (see <a href="#">Error lists in response classes</a> )

```
public partial class PrepareLabelsResponse
{
    public PrepareLabelsResponse()
    {
        ParcelInfoList = new List<ServiceData.APIDTOs.LabelOperations.ParcelInfo>();
        PrepareLabelsError = new List<ServiceData.APIDTOs.Common.ErrorInfo>();

        Initialize();
    }

    partial void Initialize();

    public List<ServiceData.APIDTOs.LabelOperations.ParcelInfo> ParcelInfoList { get; set; }
    public List<ServiceData.APIDTOs.Common.ErrorInfo> PrepareLabelsError { get; set; }
}
```

### ParcelInfo class

Property	DataType	Description
<b>ClientReference</b>	String	Client custom tag identifying parcel.
<b>ParcelId</b>	Integer	Label/Parcel database record ID.

```
public partial class ParcelInfo
{
    public ParcelInfo()
    {
        Initialize();
    }

    partial void Initialize();

    /// <summary>
    /// Returned Client reference of created parcel (only when is present in request)
    /// </summary>
    public string ClientReference { get; set; }
    /// <summary>
    /// Parcel Id of created parcel
    /// </summary>
    public int ParcelId { get; set; }
}
```

## GetPrintedLabels

Generates parcel numbers and PDF document contains labels in byte array format.

```
GetPrintedLabelsResponse GetPrintedLabels(GetPrintedLabelsRequest getPrintedLabelsRequest);
```

### Request

Method	URL examples
POST	https://api.myglshu.com/ParcelService.svc/json/GetPrintedLabels (LATEST VERSION, format JSON, for HU)
	https://api.myglscz.com/ParcelService.svc/xml/GetPrintedLabels_20190201 (SPECIFIC VERSION, format XML, for CZ)

### Request class GetPrintedLabelsRequest

Property	DataType	Description				
ParcelIdList	List<Integer>	List of labels/parcels database record ID. REQUIRED NOT EMPTY				
PrintPosition	Integer	Number of page quarter ACCEPTED ONLY FOR A4-FORMAT <table><tr><td>1</td><td>2</td></tr><tr><td>3</td><td>4</td></tr></table>	1	2	3	4
1	2					
3	4					
ShowPrintDialog	Bool	Flag for third party PDF reader (if supported application shows print dialog immediately after opening document)				

```
public partial class GetPrintedLabelsRequest : APIRequestBase
{
    public GetPrintedLabelsRequest()
    {
        ParcelIdList = new List<int>();
        Initialize();
    }

    partial void Initialize();
    /// <summary>
    /// List of parcel IDs to be returned in label stream.
    /// </summary>
    public List<int> ParcelIdList { get; set; }
    /// <summary>
    /// Starting position for printing labels, used only in A4 format
    /// </summary>
    public int PrintPosition { get; set; }
    /// <summary>
    /// True - show print dialog automatically
    /// </summary>
    public bool ShowPrintDialog { get; set; }
}
```

### Response class GetPrintedLabelsResponse

Property	DataType	Description
<b>Labels</b>	Byte[]	PDF document in byte array.
<b>GetPrintedLabelsErrorList</b>	List< <a href="#">ErrorInfo</a> >	List of potential errors (see <a href="#">Error lists in response classes</a> )

```
public partial class GetPrintedLabelsResponse
{
    public GetPrintedLabelsResponse()
    {
        GetPrintedLabelsErrorList = new List<ErrorInfo>();
        Initialize();
    }

    partial void Initialize();

    public List<ErrorInfo> GetPrintedLabelsErrorList { get; set; }
    /// <summary>
    /// Returned labels byte stream.
    /// </summary>
    public byte[] Labels { get; set; }
}
```

## PrintLabels

Calls both [PrepareLabels](#) and [GetPrintedLabels](#) in one step.

So, it validates parcel data for labels, adds valid parcel data to database, generates parcel numbers and PDF document containing labels in byte array format.

```
PrintLabelsResponse PrintLabels(PrintLabelsRequest printLabelsRequest);
```

### Request

Method	URL examples
<b>POST</b>	https://api.myglshu/ParcelService.svc/json/PrintLables (LATEST VERSION, format JSON, for HU)
	https://api.myglscz/ParcelService.svc/xml/PrintLables_20190201 (SPECIFIC VERSION, format XML, for CZ)

### Request class PrintLabelsRequest

Property	DataType	Description
ParcelList	List< <a href="#">Parcel</a> >	List of labels/parcels data . REQUIRED NOT EMPTY
PrintPosition	Integer	Number of page quarter ACCEPTED ONLY FOR A4-FORMAT
ShowPrintDialog	Bool	Flag for third party PDF reader (if supported application shows print dialog immediately after opening document)

```
public partial class PrintLabelsRequest : APIRequestBase
{
    public PrintLabelsRequest()
    {
        Parcellist = new List<ServiceData.APIDTOs.LabelOperations.Parcel>();
        Initialize();
    }

    partial void Initialize();
    /// <summary>
    /// Parcel list contains mandatory information for labels
    /// </summary>
    public List<ServiceData.APIDTOs.LabelOperations.Parcel> Parcellist { get; set; }
    /// <summary>
    /// Starting position for printing labels (used only for A4 format)
    /// </summary>
    public int PrintPosition { get; set; }
    /// <summary>
    /// True - show print dialog automatically
    /// </summary>
    public bool ShowPrintDialog { get; set; }
}
```

### Response class PrintLabelsResponse

Property	DataType	Description
<b>Labels</b>	Byte[]	PDF document in byte array.

Property	DataType	Description
<b>PrintLabelsErrorList</b>	List< <a href="#">ErrorInfo</a> >	List of potential errors (see <a href="#">Error lists in response classes</a> )
<b>PrintLabelsInfoList</b>	List< <a href="#">PrintLabelsInfo</a> >	List of successfully prepared records (ID and ClientReference) for generating labels.

```
public partial class PrintLabelsResponse
{
    public PrintLabelsResponse()
    {
        PrintLabelsErrorList = new List<ErrorInfo>();
        PrintLabelsInfoList = new List<PrintLabelsInfo>();
        Initialize();
    }

    partial void Initialize();
    /// <summary>
    /// Byte array labels response. Default is PDF format
    /// </summary>
    public byte[] Labels { get; set; }
    public List<ErrorInfo> PrintLabelsErrorList { get; set; }
    public List<PrintLabelsInfo> PrintLabelsInfoList { get; set; }
}
```

### PrintLabelsInfo class (inherits [ParcelInfo](#))

Property	DataType	Description
<b>ClientReference</b>	String	Client custom tag identifying parcel.
<b>ParcelId</b>	Integer	Label/Parcel database record ID.
<b>ParcelNumber</b>	Long	Parcel number

```
public partial class PrintLabelsInfo : ParcelInfo
{
    public PrintLabelsInfo()
    {
        Initialize();
    }

    partial void Initialize();
    /// <summary>
    /// Parcel number of printed parcel
    /// </summary>
    public long ParcelNumber { get; set; }
}
```



## GetPrintData

Validates parcel data for labels, adds valid parcel data to database, generates parcel numbers and returns data for custom generating labels.

```
GetPrintDataResponse GetPrintData(GetPrintDataRequest getPrintDataRequest);
```

### Request

Method	URL examples
<b>POST</b>	https://api.myglshu/ParcelService.svc/json/GetPrintData (LATEST VERSION, format JSON, for HU)
	https://api.myglscz/ParcelService.svc/xml/GetPrintData_20190201 (SPECIFIC VERSION, format XML, for CZ)

### Request class GetPrintDataRequest

Property	DataType	Description
<b>Parcellist</b>	List< <a href="#">Parcel</a> >	List of labels/parcels data . REQUIRED NOT EMPTY

```
public partial class GetPrintDataRequest : APIRequestBase
{
    public GetPrintDataRequest()
    {
        Parcellist = new List<ServiceData.APIDTOs.LabelOperations.Parcel>();
        Initialize();
    }

    partial void Initialize();
    public List<ServiceData.APIDTOs.LabelOperations.Parcel> Parcellist { get; set; }
}
```

### Response class GetPrintDataResponse

Property	DataType	Description
<b>GetPrintDataErrorList</b>	List< <a href="#">ErrorInfo</a> >	List of potential errors (see <a href="#">Error lists in response classes</a> )
<b>PrintDataInfoList</b>	List< <a href="#">PrintDataInfo</a> >	List of successfully prepared records (ID, ClientReference, ParcelNumber) for generating labels.

```
public partial class GetPrintDataResponse
{
    public GetPrintDataResponse()
    {
        GetPrintDataErrorList = new List<ErrorInfo>();
        PrintDataInfoList = new List<PrintDataInfo>();
        Initialize();
    }

    partial void Initialize();
    public List<ErrorInfo> GetPrintDataErrorList { get; set; }
    public List<PrintDataInfo> PrintDataInfoList { get; set; }
}
```

### PrintDataInfo class

Property	DataType	Description
<b>Parcel</b>	<a href="#">Parcel</a>	Object containing necessary data for printing labels.
<b>ParcelId</b>	Integer	Label/Parcel database record ID.
<b>ParcelNumber</b>	Long	Parcel number
<b>ParcelNumberWithCheckdigit</b>	Long	Parcel number contains last check-digit
<b>DepotNumber</b>	String	Depot number
<b>TourNumber</b>	String	Driver tour number

```
public partial class PrintDataInfo
{
    public PrintDataInfo()
    {
        Initialize();
    }

    partial void Initialize();
    /// <summary>
    /// Depot number - optional
    /// </summary>
    public string DepotNumber { get; set; }
    public GLS.MyGLS.ServiceData.APIDTOs.LabelOperations.Parcel Parcel { get; set; }
    /// <summary>
    /// Stored Parcel Id for future use
    /// </summary>
    public int ParcelId { get; set; }
    /// <summary>
    /// Stored parcel number
    /// </summary>
    public long ParcelNumber { get; set; }
    /// <summary>
    /// Parcel number in full format with checkdigit (must be printed on label)
    /// </summary>
    public long ParcelNumberWithCheckdigit { get; set; }
    /// <summary>
    /// Driver tour number - optional
    /// </summary>
    public string TourNumber { get; set; }
}
```

## DeleteLabels

Set DELETED state for already printed labels/parcels with specific database record ID.

```
DeleteLabelsResponse DeleteLabels(DeleteLabelsRequest deleteLabelsRequest);
```

### Request

Method	URL examples
<b>POST</b>	https://api.myglshu/ParcelService.svc/json/DeleteLables (LATEST VERSION, format JSON, for HU)
	https://api.myglscz/ParcelService.svc/xml/DeleteLables_20190201 (SPECIFIC VERSION, format XML, for CZ)

### Request class DeleteLabelsRequest

Property	Data Type	Description
<b>ParcelIdList</b>	List<Integer>	List of labels/parcels database ID. REQUIRED NOT EMPTY MAX. 50 ITEMS PER REQUEST

```
/// <summary>
/// Delete labels request class
/// </summary>
public partial class DeleteLabelsRequest : APIRequestBase
{
    public DeleteLabelsRequest()
    {
        ParcelIdList = new List<int>();

        Initialize();
    }

    partial void Initialize();

    /// <summary>
    /// List of parcel ID to be deleted.
    /// </summary>
    public List<int> ParcelIdList { get; set; }
}
```

### Response class DeleteLabelsResponse

Property	Description
<b>SuccessfullyDeletedList</b>	List of successfully deleted labels/parcels database ID. When deleted parcel wasn't only one in shipment, there is filled array of sub-parcels ID.
<b>DeleteLabelsErrorList</b>	List of potential errors (see <a href="#">Error lists in response classes</a> )

```
public partial class DeleteLabelsResponse
{
    public DeleteLabelsResponse()
    {
        DeleteLabelsErrorList = new List<Common.ErrorInfo>();
        SuccessfullyDeletedList = new List<SuccessfullyDeleted>();

        Initialize();
    }

    partial void Initialize();

    public List<Common.ErrorInfo> DeleteLabelsErrorList { get; set; }
    public List<SuccessfullyDeleted> SuccessfullyDeletedList { get; set; }
}
```

## ModifyCOD

Changes COD amount for specific parcel.

```
ModifyCODResponse ModifyCOD(ModifyCODRequest modifyCODRequest);
```

### Request

Method	URL examples
<b>POST</b>	https://api.myglshu.com/ParcelService.svc/json/ModifyCOD (LATEST VERSION, format JSON, for HU)
	https://api.myglscz.com/ParcelService.svc/xml/ModifyCOD_20190201 (SPECIFIC VERSION, format XML, for CZ)

### Request class ModifyCODRequest

Property	DataType	Description
<b>ParcelId</b>	Integer	Label/parcel database ID. REQUIRED IF ParcelNumber IS NULL
<b>ParcelNumber</b>	Long	Parcel number. REQUIRED IF ParcelId IS NULL
<b>CODAmount</b>	Decimal	Cash on delivery amount. ZERO OR POSITIVE

```
public partial class ModifyCODRequest : APIRequestBase
{
    public ModifyCODRequest()
    {
        Initialize();
    }

    partial void Initialize();
    /// <summary>
    /// New cash on delivery amount
    /// </summary>
    public decimal CODAmount { get; set; }
    /// <summary>
    /// Parcel ID to change cash on delivery amount - optional
    /// </summary>
    public int? ParcelId { get; set; }
    /// <summary>
    /// Parcel Number to change cash on delivery amount - optional
    /// </summary>
    public long? ParcelNumber { get; set; }
}
```

## Response class ModifyCODResponse

Property	DataType	Description
<b>Successful</b>	Bool	True = modifying COD without error
<b>ModifyCODError</b>	List< <a href="#">ErrorInfo</a> >	List of potential errors (see <a href="#">Error lists in response classes</a> )

```
public partial class ModifyCODResponse
{
    public ModifyCODResponse()
    {
        ModifyCODError = new List<ErrorInfo>();
        Initialize();
    }

    partial void Initialize();
    public List<ErrorInfo> ModifyCODError { get; set; }
    /// <summary>
    /// true - modify cash on delivery completed without error
    /// </summary>
    public bool Successful { get; set; }
}
```

## Appendix A: API error codes

Error number	Meaning	Since change number
<b>1</b>	Request parameter is null	1
<b>2</b>	Parcel ID list is null	1
<b>3</b>	Parcel ID list is empty	1
<b>4</b>	Parcel ID not exists	1
<b>5</b>	Access denied for this parcel ID	1
<b>6</b>	Parcel with this ID has different status than PRINTED	1
<b>7</b>	Missing parcel data in request	1
<b>8</b>	COD amount has to be $\geq 0$	1
<b>9</b>	Parcel number not exists	1
<b>10</b>	Parcel number was not assigned yet	1
<b>11</b>	Parcel list is null	1
<b>12</b>	Parcel list is empty	1
<b>13</b>	Parcel validation issue	1
<b>14</b>	User not exists	1
<b>15</b>	User is not authorized to access parcel	1
<b>16</b>	Label is empty	1
<b>17</b>	There are no parcel numbers	1
<b>18</b>	Parcel label is already generated	1
<b>19</b>	Parcel number generator failed	1
<b>20</b>	Parcel numbers were not generated	1
<b>21</b>	There are no printable labels	1
<b>22</b>	Count of parcels for deleting is out of limit	1
<b>1000</b>	Unexpected exception happened	1
<b>1001</b>	Internal Problem	1

## Appendix B: List of services

Not all services are available in each country or area.

Service code	Service name	Parameter
<b>24H</b>	Service guaranteed delivery shipment in 24 Hours	
<b>ADR</b>	Agreement about Dangerous goods by Road	
<b>AOS</b>	Addressee Only Service	
<b>COD</b>	Cash On Delivery service	
<b>CS1</b>	Contact Service	
<b>DAW</b>	Delivery At Work service	
<b>DDS</b>	Day Definite Service	
<b>DPV</b>	Declared Parcel Value service	
<b>FDS</b>	Flexible Delivery Service	
<b>FSS</b>	Flexible delivery Sms Service	
<b>INS</b>	Insurance Service	
<b>LDS</b>		
<b>MCC</b>		
<b>MMP</b>	Middle Man Price service	
<b>PCC</b>		
<b>PRS</b>		
<b>PSD</b>	Parcel Shop Delivery service	
<b>PSS</b>	Pick & Ship Service	
<b>SAT</b>	SATurday service	
<b>SBS</b>	Stand By Service	
<b>SDS</b>	Scheduled Delivery Service	
<b>SM1</b>	SMs service	
<b>SM2</b>	SMs pre-advice	
<b>SRS</b>		
<b>SZL</b>	document return service (SZÁLLítólevél visszaforgatás)	
<b>T09</b>	Express service	
<b>T10</b>	Express service	
<b>T12</b>	Express service	
<b>TGS</b>	Think Green Service	
<b>XS</b>	Exchange Service	



## Appendix C: Copy / Paste snippet section

### Password SHA512 C# implementation

```
/// <summary>
/// From password calculates hash to byte array
/// </summary>
/// <param name="password">raw password</param>
/// <returns>password hash</returns>
public static byte[] Sha512(string password)
{
    using (SHA512 sha512 = new SHA512Managed())
    {
        return sha512.ComputeHash(Encoding.UTF8.GetBytes(password));
    }
}
```

### Password SHA512 PHP implementation

```
<?php
$password_hash = hash('sha512', $password);
?>
```

## Appendix D: Jargon

**API (Application Program Interface)** is a set of routines, rules and tools for building software. In this case, it is a set of clearly defined methods for parcel processing. It helps to develop fast and clear communication between MyGLS online system and customer systems. [More...](#)

**Domain (in this case means “country code top level domain”)** is used and reserved for country, sovereign state or territory identified with a country code. [More...](#)

**HTTPS (Hypertext Transfer Protocol Secure)** is used for encrypted communication over a computer network. [More...](#)

**JSON (JavaScript Object Notation)** is an open standard file format that uses human readable object consisting of attribute-value pair and array data. [More...](#)

**REST (Representational State Transfer)** is a software architectural style that defines a set of constraints to be used for creating web services. [More...](#)

**SHA512 (Secure Hash Algorithm 512 bits)** is a cryptographic hash function from set of SHA-2 family. Method computes 64 bytes (512 bits / 8 bits per byte) from any content. Every byte can store values 0-255 (0x00-0xFF), so hexadecimal string takes 128 chars (64 bytes \* 2 characters per byte). [More...](#)

**SOAP (Simple Object Access Protocol)** is specification for exchanging structured information in web service implementation. It uses XML for describing message format. [More...](#)

**URL (Uniform Resource Locator)** is reference to specific web resource – network location and a mechanism for retrieving it. [More...](#)

**XML (Extensible Markup Language)** defines a set of rules for encoded documents in a format that is both human and machine readable. [More...](#)