

**OXID eSales
documentation
ERP interface (CSV)
protocol version 2.7.0**

Copyright

Copyright © 2010 OXID eSales AG, Germany

All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the prior written permission of OXID eSales AG.

Decompilation of source code, piracy as well as transfer to a third party is not allowed.

Use of this content for any other purpose is expressly prohibited and may result in severe civil and criminal penalties. Violators will be prosecuted to the maximum extent possible.

The information contained within this document was created accordingly to the state of the art technology.

OXID eSales AG assumes no liability or warranty for the accuracy, the completeness or reliability of any content.

In spite of all efforts, the occurrence of mistakes cannot be eliminated completely.

Thus we appreciate any tips.

Conventions

The following typographical conventions are used in this document:

cursive font

used for file names, file paths, email addresses and URLs.

`non-proportional font`

used for code examples and names of code elements.

Non-proportional cursive font

used for navigation steps.

Contact

OXID eSales AG

Bertoldstrasse 48

79098 Freiburg

Germany

Fon: +49 (761) 36889 0

Fax: +49 (761) 36889 29

Represented by the Supervisory Board: Roland Fesenmayr (CEO), Andrea Seeger

Registered Office Freiburg i. Br.

Commercial Register Freiburg

No. HRB 701648

Table of Contents

Copyright	2
Conventions	2
Contact	2
Table of Contents	3
About this Document	5
About the interface	5
1 Installation	5
2 File format conventions for import	5
2.1 Data field specifications	6
2.2 Replacement table	6
2.3 Import file requirements	6
3 Importing	6
3.1 By Cronjob	6
4 Import interface	6
4.1 Version line	6
4.2 Create/update products	7
4.3 Update extended properties of products	14
4.4 Delete products	14
4.5 Create/Update categories	14
4.6 Delete categories	17
4.7 Create/Update vendors	17
4.8 Delete Vendor	18
4.9 Create/update crossselling assignment	18
4.10 Delete Crossselling assignment	19
4.11 Create/Update Accessory assignment	19
4.12 Delete Accessory Assignment	19
4.13 Create/Update Category assignments	19
4.14 Set main category	20
4.15 Delete Category assignment	20
4.16 Create/update action assignment	20
4.17 Delete action assignment	21
4.18 Create/update scale prices	21
4.19 Delete scale prices	22
4.20 Create/update orders	22
4.21 Delete orders	26
4.22 Create/update product assignments to orders	26
4.23 Delete product assignments to orders	29
4.24 Change order status	29
4.25 Create/update product assignments to vendors	29
4.26 Delete product assignments to vendors	30
4.27 Updating stock	30

4.28	Create/update users	30
4.29	Delete users	32
4.30	Create/Update countries.....	32
4.31	Delete Countries	33
4.32	Create/Update attributes	34
4.33	Delete Attributes	34
4.34	Create/Update Attribute assignments.....	34
4.35	Delete Attribute assignment.....	35
5	Export interface	35
5.1	Sorting export data	35
5.2	Login	35
5.3	OXERPGetCategory	36
5.4	OXERPGetCategories.....	36
5.5	OXERPGetArticle.....	36
5.6	OXERPGetArticles	37
5.7	OXERPGetArticleCategory	37
5.8	OXERPGetArticleAction	37
5.9	OXERPGetArticleCrossselling	38
5.10	OXERPGetArticleScalePrice	38
5.11	OXERPGetArticleAccessoire	39
5.12	OXERPGetArticleStock	39
5.13	OXERPGetOrder	39
5.14	OXERPGetOrderArticle.....	39
5.15	OXERPGetVendor	40
5.16	OXERPGetArticleVendor.....	40
5.17	OXERPGetVendorArticles	40
5.18	OXERPGetUser	41
5.19	OXERPGetUsers.....	41
5.20	OXERPGetOrders	42
5.21	OXERPGetVendors	42
5.22	OXERPCallPlugin.....	43
5.23	OXERPGetAttributes.....	43
5.24	OXERPGetArticleAttributes	43
6	Using custom fields	44
6.1	Example	44
6.2	Extending ERP with plugins.....	44
6.3	Creating a plugin.....	44
6.4	Sample plugin.....	45
6.5	Data flow of the sample plugin	45
7	Expandability of CSV interface.....	46
7.1	Define new attribute object.....	46
7.2	Implementing function in oxerpgateway.php.....	47
7.3	Import definition in oxerpcsv.php	47
7.4	Using new OXERPSetAttribute function	48

7.5	Registering function in oxerpcsvexport.php	49
-----	--	----

About this Document

This document describes the protocol version 2.7.0 of the ERP-CSV interface. This interface can be used since eShop version 4.4.0.

Older protocol versions can still be used. Valid protocol versions are:

- 1
- 1.1
- 2
- 2.1.0
- 2.2.0
- 2.3.0
- 2.4.0
- 2.5.0
- 2.6.0
- 2.7.0

About the interface

The CSV interface is used for importing and exporting eShop data (e.g. products, categories, users etc.).

- The import is made from files which were uploaded to the server.
- The export is done by calling a particular URL.
- This URL must contain the version parameter `&version=X.X.X`

In `testdata_examples` directory sample import files for each protocol version are given.

1 Installation

- Copy all files from *copy_this* to the main directory of your eShop
- Open eShop admin
- Go to *Master Settings* -> *Core Settings* -> *System* -> *Modules*
- In *Installed Shop Modules*, add the line `oxerpinterface => erp/oxerpcsv`

2 File format conventions for import

- Text files with Windows line breaks
- character encoding: ANSI

2.1 Data field specifications

- All data fields are enclosed in double quotes and separated by a semicolon.
- For numbers, a point is used as decimal separator.
- Leading zeros are omitted.
- For fields filled with 0 or 1, 0 always means no, 1 means yes.
- Named data types are taken from MySQL database.

2.2 Replacement table

In Import files, the following chars have to be replaced:

char	Description	ASCII-Code	Replacement
CR	Carriage Return	13	
LF	Line Feed	10	

"	Double Quote	34	"
'	Single Quote	39	'

2.3 Import file requirements

The first line has to contain version information. Following data can be in any order.

3 Importing

3.1 By Cronjob

If import is to be run by a cronjob, adjust `modules/ERP/oxerpcron.php` according to your needs. Change file permissions to executable.

4 Import interface

At the beginning of each dataset, a char which indicates the data type is set. This char will be called „Indicator char“ in the following text.

4.1 Version line

The first line always has to contain information about the used protocol version. Example:

"v", "2.7.0"

#	Content/Example	Data type	Range	Field name
0.	Indicator char	char(1)	[V]	
1.	Version number	char(255) NOT NULL default ""	[0-9.]	

4.2 Create/update products

If a product with the given OXID already exists, the product is updated with the given values. Otherwise, a new product is created.

#	Content/Example	Data type	Range	Field name ¹
0.	Indicator char	char(1)	[A]	
1.	Product ID	char(32) NOT NULL	[0-9a-f.]	OXID
2.	Shop ID	char(32) NOT NULL default ""	1 - 64	OXSHOPID ²
3.	Product used in Shops	bigint(20) NOT NULL	binary encoded, 64 bit. <u>Example:</u> Product is in Shops #2 and #7. => 2nd 7th bit have to be set: The result is 66	OXSHOPINCL
4.	Product not used in Shops	bigint(20) NOT NULL	binary encoded, 64 bit. See above.	OXSHOPEXCL ³
5.	Parent-ID For variants: OXID of parent product	char(32) default NULL	[0-9a-f.]	OXPARENTID
6.	Active	tinyint(1) NOT NULL default '1'	[0,1]	OXACTIVE
7.	Active from	datetime default 0000-00-00 00:00:00	YYYY-MM-DD HH:MM:SS	OXACTIVEFROM
8.	Active to	datetime default 0000-00-00 00:00:00	YYYY-MM-DD HH:MM:SS	OXACTIVETO
9.	Product number	varchar(32) NOT NULL default ""	[SPACE-~] ⁴	OXARTNUM
10.	EAN	varchar(13) NOT NULL default ""	[0-9]	OXEAN
11.	EAN of distributor	varchar(13) NOT NULL default ""	[0-9]	OXDISTEAN
12.	EAN of manufacturer	varchar(13) NOT NULL default ""	[0-9]	OXMPN
13.	Title	varchar(255) NOT NULL default ""	[SPACE-~]	OXTITLE

¹ Table: oxarticles

² Always 1 in OXID eShop Professional Edition

³ Always 0 in OXID eShop Professional Edition

⁴ ASCII chr(32) – chr(126)

#	Content/Example	Data type	Range	Field name ¹
14.	Short description	varchar(255) NOT NULL default ''	[SPACE-~]	OXSHORTDESC
15.	Price	double NOT NULL default '0'	- 1.7976931348623157 E+308 to - 2.2250738585072014 E-308, 0, and 2.2250738585072014 E-308 to 1.7976931348623157 E+308 ⁵	OXPRICE
16.	Product has fixed price	tinyint(1) NOT NULL default '0'	[0,1]	OXBLFIXEDPRICE
17.	Price A	double NOT NULL default '0'	- 1.7976931348623157 E+308 to - 2.2250738585072014 E-308, 0, and 2.2250738585072014 E-308 to 1.7976931348623157 E+308	OXPRICEA
18.	Price B	double NOT NULL default '0'	see above	OXPRICEB
19.	Price C	double NOT NULL default '0'	see above	OXPRICEC
20.	Purchase price	double NOT NULL default '0'	see above	OXBPRICE
21.	RRP	double NOT NULL default '0'	see above	OXTPRICE
22.	Unit	varchar(32) NOT NULL default ''	[SPACE-~]	OXUNITNAME
23.	Quantity	double NOT NULL default '0'	see field 16	OXUNITQUANTITY
24.	External URL	varchar(255) NOT NULL default ''	valid URL without <i>http://</i>	OXEXTURL

⁵ Ranges defined by IEEE. The range that can be used is determined by hardware and operating system.

#	Content/Example	Data type	Range	Field name ¹
25.	Short description for external URL	varchar(255) NOT NULL default ""	[SPACE-~]	OXURLDESC
26.	URL of picture for external URL	varchar(128) NOT NULL default ""	see field 23	OXURLIMG
27.	Special VAT for this product	double default NULL	see field 16 Default: 0	OXVAT
28.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ""	[SPACE-~] ⁶	OXTHUMB
29.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ""	[SPACE-~]	OXICON
30.	Is pictures generated, Default '0'	tinyint(3) NOT NULL	[0-1]	OXPICSGENERATED
31.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ""	[SPACE-~]	OXPIC1
32.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ""	[SPACE-~]	OXPIC2
33.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ""	[SPACE-~]	OXPIC3
34.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ""	[SPACE-~]	OXPIC4
35.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ""	[SPACE-~]	OXPIC5
36.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ""	[SPACE-~]	OXPIC6
37.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ""	[SPACE-~]	OXPIC7
38.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ""	[SPACE-~]	OXPIC8

⁶ Dependant on the file system

#	Content/Example	Data type	Range	Field name ¹
39.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ''	[SPACE-~]	XPIC9
40.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ''	[SPACE-~]	XPIC10
41.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ''	[SPACE-~]	XPIC11
42.	Filename (without path), Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ''	[SPACE-~]	XPIC12
43.	Weight	double NOT NULL default '0'	see field 16	OXWEIGHT
44.	Stock	int(11) NOT NULL default '-1' ⁷	0 – 2147483647	OXSTOCK
45.	Delivery Status	enum('1','2','3','4') NOT NULL default '1'	1. Standard 2. If out of Stock, offline 3. If out of Stock, not orderable 4. External Storehouse	OXSTOCKFLAG
46.	In Stock Message	varchar(255) NOT NULL default ''	[SPACE-~]	OXSTOCKTEXT
47.	Out of Stock Message	varchar(255) NOT NULL default ''	[SPACE-~]	OXNOSTOCKTEXT
48.	Available on	date NOT NULL default '0000-00-00'	YYYY-MM-DD	OXDELIVERY
49.	Date of creation (is ignored, actual date taken instead)	date NOT NULL default '0000-00-00'	YYYY-MM-DD	OXINSERT
50.	Date of last change (is ignored, actual date taken instead)	timestamp NOT NULL default CURRENT_TIMESTAMP on update CURRENT_TIMESTAMP	YYYY-MM-DD HH:MM:SS	OXTIMESTAMP
51.	Length	double NOT NULL default '0'	see field 16	OXLENGTH

⁷ -1 was a special value in older versions. Negative values are not to be used in Enterprise Edition any more.

#	Content/Example	Data type	Range	Field name ¹
52.	Width	double NOT NULL default '0'	see field 16	OXWIDTH
53.	Height	double NOT NULL default '0'	see field 16	OXHEIGHT
54.	File	varchar(128) NOT NULL default ''	[SPACE-~]	OXFILE
55.	Search Terms	varchar(255) NOT NULL default ''	[SPACE-~]	OXSEARCHKEYS
56.	Alt. Template	varchar(128) NOT NULL default ''	[SPACE-~]	OXTEMPLATE
57.	Alt. Contact	varchar(255) NOT NULL default ''	valid e-Mail address	OXQUESTIONEMAIL
58.	Searchable	tinyint(1) NOT NULL default '1'	[0,1]	OXISSEARCH
59.	Is product configurable with persistent parameters, Default '0'	tinyint(1) NOT NULL default '0'	[0,1]	OXISCONFIGURABLE
60.	For variants: Name of variant selection (e.g. Color)	varchar(32) NOT NULL default ''	[SPACE-~]	OXVARNAME
61.	Stock of all variants	int(5) NOT NULL default '0'	0 – 2147483647	OXVARSTOCK
62.	Amount of variants	int(1) NOT NULL default '0'	0 – 2147483647	OXVARCOUNT
63.	Name of variant (e.g. green)	varchar(32) NOT NULL default ''	[SPACE-~]	OXVARSELECT
64.	lowest price of all variants	double NOT NULL default '0'	see field 16	OXVARMINPRICE
65.	Name of variant selection in language 1	varchar(32) NOT NULL default ''	[SPACE-~]	OXVARNAME_1
66.	Name of variant in language 1	varchar(32) NOT NULL default ''	[SPACE-~]	OXVARSELECT_1
67.	Name of variant selection in language 2	varchar(32) NOT NULL default ''	[SPACE-~]	OXVARNAME_2
68.	Name of variant in language 2	varchar(32) NOT NULL default ''	[SPACE-~]	OXVARSELECT_2
69.	Name of variant selection in language 3	varchar(32) NOT NULL default ''	[SPACE-~]	OXVARNAME_3
70.	Name of variant in language 2	varchar(32) NOT NULL default ''	[SPACE-~]	OXVARSELECT_3
71.	Title in language 1	varchar(255) NOT NULL default ''	[SPACE-~]	OXTITLE_1
72.	Short description in language 1	varchar(255) NOT NULL default ''	[SPACE-~]	OXSHORTDESC_1

#	Content/Example	Data type	Range	Field name ¹
73.	URL description in language 1	varchar(255) NOT NULL default ''	see field 23	OXURLDESC_1
74.	Search terms in language 1	varchar(255) NOT NULL default ''	[SPACE-~]	OXSEARCHKEYS_1
75.	Title in language 2	varchar(255) NOT NULL default ''	[SPACE-~]	OXTITLE_2
76.	Short description in language 2	varchar(255) NOT NULL default ''	[SPACE-~]	OXSHORTDESC_2
77.	URL description in language 2	varchar(255) NOT NULL default ''	see field 23	OXURLDESC_2
78.	Search terms in language 2	varchar(255) NOT NULL default ''	[SPACE-~]	OXSEARCHKEYS_2
79.	Title in language 3	varchar(255) NOT NULL default ''	[SPACE-~]	OXTITLE_3
80.	Short description in language 3	varchar(255) NOT NULL default ''	[SPACE-~]	OXSHORTDESC_3
81.	URL description in language 3	varchar(255) NOT NULL default ''	see field 23	OXURLDESC_3
82.	Search terms in language 3	varchar(255) NOT NULL default ''	[SPACE-~]	OXSEARCHKEYS_3
83.	(always empty)	varchar(32) NOT NULL default ''	always empty	OXFOLDER
84.	class	varchar(32) NOT NULL default ''	always <i>oxarticle</i>	OXSUBCLASS
85.	In Stock Message in language 1	varchar(255) NOT NULL default ''	[SPACE-~]	OXSTOCKTEXT_1
86.	In Stock Message in language 2	varchar(255) NOT NULL default ''	[SPACE-~]	OXSTOCKTEXT_2
87.	In Stock Message in language 3	varchar(255) NOT NULL default ''	[SPACE-~]	OXSTOCKTEXT_3
88.	Out of Stock Message in language 1	varchar(255) NOT NULL default ''	[SPACE-~]	OXNOSTOCKTEXT_1
89.	Out of Stock Message in language 2	varchar(255) NOT NULL default ''	[SPACE-~]	OXNOSTOCKTEXT_2
90.	Out of Stock Message in language 3	varchar(255) NOT NULL default ''	[SPACE-~]	OXNOSTOCKTEXT_3
91.	Sorting	int(5) NOT NULL default '0'	0 – 2147483647	OXSORT
92.	Amount of sold units	double NOT NULL default '0'	see field 16	OX SOLDAMOUNT
93.	Intangible Product	int(1) NOT NULL default '0'	[0,1]	OXNONMATERIAL
94.	Free Shipping	int(1) NOT NULL default '0'	[0,1]	OXFREESHIPPING

#	Content/Example	Data type	Range	Field name ¹
95.	Send e-mail if Stock falls below Value	int(1) NOT NULL default '0'	[0,1]	OXREMINDACTIV
96.	Value for low Stock e-mail	double NOT NULL default '0'	see field 16	OXREMINDAMOUNT
97.	(always empty)	varchar(32) NOT NULL default ''	always empty	OXAMITEMID
98.	(always empty)	varchar(16) NOT NULL default '0'	always empty	OXAMTASKID
99.	Vendor ID	varchar(32) NOT NULL default ''	[0-9a-f.]	OXVENDORID
100.	Skip all negative Discounts	tinyint(1) NOT NULL default '0'	[0,1]	OXSKIPDISCOUNTS
101.	Additional info in order confirmation	varchar(255) NOT NULL	[SPACE-~]	OXORDERINFO
102.	Export to pixi*	tinyint(4) NOT NULL default '0'	[0,1]	OXPIXIEXPORT
103.	Export to pixi* timestamp	timestamp NOT NULL default '0000-00-00 00:00:00'	YYYY-MM-DD HH:MM:SS	OXPIXIEXPORTED ⁸
104.	Packaging unit	int(11) NOT NULL default '1'	0 – 2147483647	OXVPE
105.	Average rating	Double NOT NULL default '0'	see field 16	OXRATING
106.	Amount of ratings	Int (11) NOT NULL default '0'	0 – 2147483647	OXRATINGCNT
107.	Minimal delivery time	Int (11) NOT NULL default '0'	0 – 2147483647	OXMINDELTIME
108.	Maximal delivery time	Int (11) NOT NULL default '0'	0 – 2147483647	OXMAXDELTIME
109.	Delivery time unit	varchar(255) NOT NULL default ''	[SPACE-~]	OXDELTIMEUNIT
110.	Long description	text	[SPACE-~]	OXLONGDESC
111.	Long description in language 1	text NOT NULL	[SPACE-~]	OXLONGDESC_1
112.	Long description in language 2	text NOT NULL	[SPACE-~]	OXLONGDESC_2
113.	Long description in language 3	text NOT NULL	[SPACE-~]	OXLONGDESC_3

8

In OXID eShop Professional Edition always 0000-00-00 00:00:00

4.3 Update extended properties of products

With this function long descriptions and tags can be imported for existing products.

#	Content/Example	Data type	Range	Field name ⁹
0.	Indicator char	char(1)	[Y]	
1.	Product ID	char(32) NOT NULL	[0-9a-f.]	OXID
2.	long description	text	[SPACE-~]	OXLONGDESC
3.	Long description in language 1	text NOT NULL	[SPACE-~]	OXLONGDESC_1
4.	Long description in language 2	text NOT NULL	[SPACE-~]	OXLONGDESC_2
5.	Long description in language 3	text NOT NULL	[SPACE-~]	OXLONGDESC_3
6.	Tags	varchar(255) NOT NULL	[SPACE-~]	OXTAGS
7.	Tags in language 1	varchar(255) NOT NULL	[SPACE-~]	OXTAGS_1
8.	Tags in language 2	varchar(255) NOT NULL	[SPACE-~]	OXTAGS_2
9.	Tags in language 3	varchar(255) NOT NULL	[SPACE-~]	OXTAGS_3

4.4 Delete products

When deleting a product, all assignments for this product (crossselling, categories etc.) are deleted from database aswell.

#	Content/Example	Data type	Range	Field name
0	Indicator char	char(2)	[XA]	
1	Product number	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.5 Create/Update categories

If a category with the given OXID already exists, the category is updated with the given values. Otherwise, a new category is created.

#	Content/Example	Data type	Range	Field name ¹⁰
0.	Indicator char	char(1)	[K]	
1.	Category ID	varchar(32) NOT NULL default ''	[0-9a-f.]	OXID
2.	Parent category ID	varchar(32) NOT NULL default ''	[0-9a-f.]	OXPARENTID
3.	Nested category tree left	int(11) NOT NULL default '0'	0 to 2147483647	OXLEFT

⁹ Table: oxartextends

¹⁰ Table: oxcategories

#	Content/Example	Data type	Range	Field name ¹⁰
4.	Nested category tree right	int(11) NOT NULL default '0'	0 to 2147483647	OXRIGHT
5.	Nested Category tree root	varchar(32) NOT NULL default ''	[0-9a-f.]	OXROOTID
6.	Sorting	int(11) NOT NULL default '9999'	0 to 2147483647	OXSORT
7.	Active	tinyint(1) NOT NULL default '1'	[0,1]	OXACTIVE
8.	Hidden	tinyint(1) NOT NULL default '0'	[0,1]	OXHIDDEN
9.	Shop-ID of Shop in which Category was created	varchar(255) NOT NULL default ''	1 to 64	OXSHOPID
10.	Category used in Shops	bigint(20) unsigned NOT NULL default '0'	binary encoded, 64 bit. <u>Example:</u> Category is in Shops #2 and #7. => 2nd 7th bit have to be set: The result is 66	OXSHOPINCL
11.	Category not used in Shops	bigint(20) unsigned NOT NULL default '0'	see field 10	OXSHOPEXCL
12.	Title	varchar(254) NOT NULL default ''	[SPACE-~]	OXTITLE
13.	Short description	varchar(255) NOT NULL default ''	[SPACE-~]	OXDESC
14.	Long description	text NOT NULL	[SPACE-~]	OXLONGDESC
15.	Filename of Thumbnail (without path)	varchar(128) NOT NULL default ''	[SPACE-~]	OXTHUMB
16.	External URL	varchar(255) NOT NULL default ''	valid URL	OXEXTLINK
17.	Alt. Template	varchar(128) NOT NULL default ''	[SPACE-~]	OXTEMPLATE
18.	Fast sorting(field name from oxarticles)	varchar(64) NOT NULL default ''	[a-z]	OXDEFSORT
19.	sorting mode (asc/desc)	tinyint(1) NOT NULL default '0'	[0,1]	OXDEFSORTMODE

#	Content/Example	Data type	Range	Field name ¹⁰
20.	Price from	double	- 1.7976931348623157 E+308 to - 2.2250738585072014 E-308, 0, and 2.2250738585072014 E-308 to 1.7976931348623157 E+308	OXPRICEFROM
21.	Price to	double NOT NULL	see above	OXPRICETO
22.	Active in language 1	char(1) NOT NULL default ""	[0,1]	OXACTIV_1
23.	Title in language 1	varchar(255) NOT NULL default ""	[SPACE-~]	OXTITLE_1
24.	Short description in language 1	varchar(255) NOT NULL default ""	[SPACE-~]	OXDESC_1
25.	Long description in language 1	text NOT NULL	[SPACE-~]	OXLONGDESC_1
26.	Active in language 2	char(1) NOT NULL default ""	[0,1]	OXACTIV_2
27.	Title in language 2	varchar(255) NOT NULL default ""	[SPACE-~]	OXTITLE_2
28.	Short description in language 2	varchar(255) NOT NULL default ""	[SPACE-~]	OXDESC_2
29.	Long description in language 2	text NOT NULL	[SPACE-~]	OXLONGDESC_2
30.	Active in language 3	char(1) NOT NULL default ""	[0,1]	OXACTIV_3
31.	Title in language 3	varchar(255) NOT NULL default ""	[SPACE-~]	OXTITLE_3
32.	Short description in language 3	varchar(255) NOT NULL default ""	[SPACE-~]	OXDESC_3

#	Content/Example	Data type	Range	Field name ¹⁰
33.	Long description in language 3	text NOT NULL	[SPACE-~]	OXLONGDESC_3
34.	Filename of category image (without path)	varchar(128) NOT NULL	[SPACE-~]	OXICON
35.	Special VAT	float default NULL		OXVAT
36.	Skip all negative Discounts	tinyint(1) NOT NULL default '0'	[0,1]	OXSKIPDISCOUNTS
37.	Show SEO Suffix in Category	tinyint(1) NOT NULL default '1'	[0,1]	OXSHOWSUFFIX

4.6 Delete categories

#	Content/Example	Data type	Range	Field name
0.	Indicator char	char(2)	[XK]	
1.	Category ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.7 Create/Update vendors

If a vendor with the given OXID already exists, the vendor is updated with the given values. Otherwise, a new vendor is created.

#	Content/Example	Data type	Range	Field name ¹¹
0.	Indicator char	char(1)	[H]	
1.	Vendor ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID
2.	Shop ID of Shop in which vendor was created	char(32) NOT NULL default ''	1 to 64	OXSHOPID
3.	Vendor used in Shops	bigint(20) unsigned NOT NULL default '0'	binary encoded, 64 bit. <u>Example:</u> Category is in Shops #2 and #7. => 2nd 7th bit have to be set: The result is 66	OXSHOPINCL
4.	Vendor not used in Shops	bigint(20) unsigned NOT NULL default '0'	Binary encoded, see above	OXSHOPEXCL

¹¹

Table: oxvendor

#	Content/Example	Data type	Range	Field name ¹¹
5.	Active	tinyint(1) NOT NULL default '1'	[0,1]	OXACTIVE
6.	Filename of Icon	char(128) NOT NULL default ''	[SPACE-~]	OXICON
7.	Title	char(255) NOT NULL default ''	[SPACE-~]	OXTITLE
8.	Short description	char(255) NOT NULL default ''	[SPACE-~]	OXSHORTDESC
9.	Title in language 1	char(255) NOT NULL default ''	[SPACE-~]	OXTITLE_1
10.	Short description in language 1	char(255) NOT NULL default ''	[SPACE-~]	OXSHORTDESC_1
11.	Title in language 2	char(255) NOT NULL default ''	[SPACE-~]	OXTITLE_2
12.	Short description in language 2	char(255) NOT NULL default ''	[SPACE-~]	OXSHORTDESC_2
13.	Title in language 3	char(255) NOT NULL default ''	[SPACE-~]	OXTITLE_3
14.	Short description in language 3	char(255) NOT NULL default ''	[SPACE-~]	OXSHORTDESC_3
15.	Show SEO suffix	tinyint(1) NOT NULL default '1'	[0,1]	OXSHOWSUFFIX

4.8 Delete Vendor

#	Content/Example	Data type	Range	Field name
	Indicator char	char(2)	[XH]	
	Vendor ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.9 Create/update crossselling assignment

If a crossselling assignment with the given OXID already exists, the crossselling assignment is updated with the given values. Otherwise, a new crossselling assignment is created.

#	Content/Example	Data type	Range	Field name ¹²
0.	Indicator char	char(1)	[C]	
1.	ID of product which is assigned as crossselling	char(32) NOT NULL default ''	[SPACE-~]	OXOBJECTID
2.	ID of the product to which the other product is assigned to.	char(32) NOT NULL default ''	[SPACE-~]	OXARTICLEID

¹²

Table: oxobject2article

#	Content/Example	Data type	Range	Field name ¹²
3.	Sorting	int(5) NOT NULL default '0'	0 to 2147483647	OXSORT
4.	Crossselling assignment ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.10 Delete Crossselling assignment

#	Content/Example	Data type	Range	Field name
	Indicator char	char(2)	[XC]	
	Crossselling assignment ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.11 Create/Update Accessory assignment

If an accessory assignment with the given OXID already exists, the accessory assignment is updated with the given values. Otherwise, a new accessory assignment is created.

#	Content/Example	Data type	Range	Field name ¹³
0.	Indicator char	char(1)	[Z]	
1.	ID of product which is assigned as accessory	char(32) NOT NULL default ''	[SPACE-~]	OXOBJECTID
2.	ID of the product to which the other product is assigned to.	char(32) NOT NULL default ''	[SPACE-~]	OXARTICLEID
3.	Sorting	int(5) NOT NULL default '0'	0 to 2147483647	OXSORT
4.	Accessory assignment ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.12 Delete Accessory Assignment

#	Content/Example	Data type	Range	Field name
	Indicator char	char(2)	[XZ]	
	Accessory assignment ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.13 Create/Update Category assignments

If a category assignment with the given OXID already exists, the category assignment is updated with the given values. Otherwise, a new category assignment is created.

#	Content/Example	Data type	Range	Field name ¹⁴
0.	Indicator char	char(1)	[T]	
1.	category assignment ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID
2.	Shop-ID	integer(11) NOT NULL	1 to 64	OXSHOPID

¹³ Table: oxaccessoire2article

¹⁴ Table: oxobject2category

#	Content/Example	Data type	Range	Field name ¹⁴
3.	Assignment used in Shops	bigint(20) NOT NULL	binary encoded, 64 bit. <u>Example:</u> Category is in Shops #2 and #7. => 2nd 7th bit have to be set: The result is 66	OXSHOPINCL
4.	Assignment not used in Shops	bigint(20) NOT NULL	see above	OXSHOPEXCL
5.	Product ID	char(32) NOT NULL default ''	[0-9a-f.]	OXOBJECTID
6.	Category ID	char(32) NOT NULL default ''	[0-9a-f.]	OXCATNID
7.	Sorting	int(11) NOT NULL default '0'	0 to 2147483647	OXPOS
8.	Timestamp (The entry with the oldest timestamp is automatically set as main category)	int(11) NOT NULL default '0'	0 to 2147483647	OXTIME

4.14 Set main category

If a main category is already set, the setting is overwritten.

#	Content/Example	Data type	Range	Field name
0.	Indicator char	char(1)	[M]	
1.	Product ID	char(32) NOT NULL default ''	[0-9a-f.]	OXOBJECTID
2.	Category ID	char(32) NOT NULL default ''	[0-9a-f.]	OXCATNID

4.15 Delete Category assignment

#	Content/Example	Data type	Range	Field name
	Indicator char	char(2)	[XT]	
	Category Assignment ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.16 Create/update action assignment

If an action assignment with the given OXID already exists, the action assignment is updated with the given values. Otherwise, a new action assignment is created.

#	Content/Example	Data type	Range	Field name ¹⁵
0.	Indicator char	char(1)	[I]	
1.	Shop-ID	char(32) NOT NULL default ''	1 – 64	OXSHOPID
2.	Action ID	char(32) NOT NULL default ''	<u>oxstart</u> front page <u>oxtopstart</u> Top offer front page <u>oxfirststart</u> Big offer front page <u>oxbargain</u> Bargain <u>oxtop5</u> Top of the Shop <u>oxcatoffer</u> Category offer <u>oxnewest</u> Just arrived	OXACTIONID
3.	Product ID	char(32) NOT NULL default ''	[0-9a-f.]	OXARTID
4.	Sorting	int(11) NOT NULL default '0'	0 to 2147483647	OXSORT
5.	Action assignment ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.17 Delete action assignment

#	Content/Example	Data type	Range	Field name
	Indicator char	char(2)	[XI]	
	Action Assignment ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.18 Create/update scale prices

If a scale price with the given OXID already exists, the scale price is updated with the given values. Otherwise, a new scale price is created.

#	Content/Example	Data type	Range	Field name ¹⁶
0.	Indicator char	char(1)	[P]	
1.	Shop ID	char(32) NOT NULL default ''	1 to 64	OXSHOPID
2.	Product ID	char(32) NOT NULL default ''	[0-9a-f.]	OXARTID

¹⁵ Table: oxactions2article

¹⁶ Table: oxprice2article

3.	Absolute surcharge	double NOT NULL default '0'	- 1.7976931348623157 E+308 to - 2.2250738585072014 E-308, 0, und 2.2250738585072014 E-308 to 1.7976931348623157 E+308	OXADDABS
4.	Relative surcharge in %	double NOT NULL default '0'	siehe Feld 3	OXADDPERC
5.	Amount from	double NOT NULL default '0'	siehe Feld 3	OXAMOUNT
6.	Amount to	double NOT NULL default '0'	siehe Feld 3	OXAMOUNTTO
7.	Scale price ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.19 Delete scale prices

#	Content/Example	Data type	Range	Field name
	Indicator char	char(2)	[XP]	
	Scale price ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.20 Create/update orders

If an order with the given OXID already exists, the order is updated with the given values. Otherwise, a new order is created.

If `OXORDERNR` is set to 0, the eShop automatically creates a new order number: The highest existing order number is taken and incremented by 1.

#	Content/Example	Data type	Range	Field name
0.	Indicator char	char(1)	[0]	
1.	Order ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID
2.	Shop ID	char(32) NOT NULL default ''	1 to 64	OXSHOPID
3.	User ID	char(32) NOT NULL default ''	[0-9a-f.]	OXUSERID

#	Content/Example	Data type	Range	Field name
4.	Order date	datetime NOT NULL default '0000-00-00 00:00:00'	YYYY-MM-DD HH:MM:SS	OXORDERDATE
5.	Order number	int(11) NOT NULL default '0'	0 to 2147483647	OXORDERNR
6.	Billing address: company	varchar(255) NOT NULL default ''	[SPACE-~]	OXBILLCOMPANY
7.	Billing address: e-mail	varchar(255) NOT NULL default ''	Gültige E-Mail- Adresse	OXBILLEMAIL
8.	Billing address: first name	varchar(255) NOT NULL default ''	[SPACE-~]	OXBILLFNAME
9.	Billing address: last name	varchar(255) NOT NULL default ''	[SPACE-~]	OXBILLLNAME
10.	Billing address: Street	varchar(255) NOT NULL default ''	[SPACE-~]	OXBILLSTREET
11.	Billing address: street number	varchar(16) NOT NULL default ''	[SPACE-~]	OXBILLSTREETNR
12.	Billing address: Additional information	varchar(255) NOT NULL default ''	[SPACE-~]	OXBILLADDINFO
13.	Billing address: VAT ID	varchar(255) NOT NULL default ''	[SPACE-~]	OXBILLUSTID
14.	VAT ID status	tinyint(1) NOT NULL default '0'	[0;1]	OXBILLUSTIDSTATUS
15.	Billing address: city	varchar(255) NOT NULL default ''	[SPACE-~]	OXBILLCITY
16.	Billing address: country	varchar(32) NOT NULL default ''	[SPACE-~]	OXBILLCOUNTRYID
17.	Billing address: state	varchar(32) NOT NULL default ''	[SPACE-~]	OXBILLSTATEID
18.	Billing address: ZIP	varchar(16) NOT NULL default ''	[SPACE-~]	OXBILLZIP
19.	Billing address: phone	varchar(128) NOT NULL default ''	[SPACE-~]	OXBILLFON
20.	Billing address: fax	varchar(128) NOT NULL default ''	[SPACE-~]	OXBILLFAX
21.	Billing address: title	varchar(128) NOT NULL default ''	[SPACE-~]	OXBILLTITEL
22.	Shipping address: company	varchar(255) NOT NULL default ''	[SPACE-~]	OXDELCOMPANY
23.	Shipping address: first name	varchar(255) NOT NULL default ''	[SPACE-~]	OXDELFNAME

#	Content/Example	Data type	Range	Field name
24.	Shipping address: last name	varchar(255) NOT NULL default ''	[SPACE-~]	OXDELLNAME
25.	Shipping address: street	varchar(255) NOT NULL default ''	[SPACE-~]	OXDELSTREET
26.	Shipping address: street number	varchar(16) NOT NULL default ''	[SPACE-~]	OXDELSTREETNR
27.	Shipping address: additional information	varchar(255) NOT NULL default ''	[SPACE-~]	OXDELADDINFO
28.	Shipping address: city	varchar(255) NOT NULL default ''	[SPACE-~]	OXDELCITY
29.	Shipping address: country	varchar(32) NOT NULL default ''	[SPACE-~]	OXDELCOUNTRYID
30.	Shipping address: state	varchar(32) NOT NULL default ''	[SPACE-~]	OXDELSTATEID
31.	Shipping address: ZIP	varchar(16) NOT NULL default ''	[SPACE-~]	OXDELZIP
32.	Shipping address: phone	varchar(128) NOT NULL default ''	[SPACE-~]	OXDELFON
33.	Shipping address: fax	varchar(128) NOT NULL default ''	[SPACE-~]	OXDELFAX
34.	Shipping address: title	varchar(128) NOT NULL default ''	[SPACE-~]	OXDELSAL
35.	Payment ID(from table oxuserpayments)	varchar(32) NOT NULL default ''	[SPACE-~]	OXPAYMENTID
36.	Payment type (from table oxpayments)	varchar(32) NOT NULL default ''	[SPACE-~]	OXPAYMENTTYPE
37.	Net sum	double NOT NULL default '0'	- 1.79769313486231 57 E+308 to - 2.22507385850720 14 E-308, 0, and 2.22507385850720 14 E-308 to 1.79769313486231 57 E+308	OXTOTALNETSUM
38.	Gross sum	double NOT NULL default '0'	see above	OXTOTALBRUTSUM
39.	Total sum (incl. Shipping costs etc.)	double NOT NULL default '0'	see above	OXTOTALORDERSUM

#	Content/Example	Data type	Range	Field name
40.	VAT percent 1	double NOT NULL default '0'	see above	OXARTVAT1
41.	VAT price 1	double NOT NULL default '0'	see above	OXARTVATPRICE1
42.	VAT percent 2	double NOT NULL default '0'	see above	OXARTVAT2
43.	VAT price 2	double NOT NULL default '0'	see above	OXARTVATPRICE2
44.	Shipping costs	double NOT NULL default '0'	see above	OXDELCOST
45.	VAT of shipping costs	double NOT NULL default '0'	see above	OXDELVAT
46.	Payment costs	double NOT NULL default '0'	see above	OXPAYCOST
47.	VAT of payment costs	double NOT NULL default '0'	see above	OXPAYVAT
48.	Gift wrapping costs	double NOT NULL default '0'	see above	OXWRAPCOST
49.	VAT of gift wrapping	double NOT NULL default '0'	see above	OXWRAPVAT
50.	Greeting card ID	varchar(32) NOT NULL default ''	[0-9a-f.]	OXCARDID
51.	Greeting card text	text NOT NULL	[SPACE-~]	OXCARDTEXT
52.	Discount	double NOT NULL default '0'	see field 35	OXDISCOUNT
53.	Export status for Lexware	tinyint(4)	0,1	OXEXPORT
54.	Invoice number	varchar(128) NOT NULL default ''	[0-9]	OXBILLNR
55.	Tracking code	varchar(128) NOT NULL	[SPACE-~]	OXTRACKCODE
56.	Shipping date	Datetime	YYYY-MM-DD HH:MM:SS	OXSENDDATE
57.	Remark	text NOT NULL	[SPACE-~]	OXREMARK
58.	Coupon discount	double NOT NULL default '0'	see field 35	OXVOUCHERDISCOUNT
59.	Currency	char(32) NOT NULL default ''	[SPACE-~]	OXCURRENCY
60.	Conversion factor	double NOT NULL default '0'	see field 35	OXCURRATE
61.	Order folder in admin	varchar(32)	[SPACE-~]	OXFOLDER
62.	Payment gateway Transaction ID	varchar(64) NOT NULL default ''	[SPACE-~]	OXTRANSID

#	Content/Example	Data type	Range	Field name
63.	Payment gateway payment ID	varchar(64) NOT NULL default ''	[SPACE-~]	OXPAYID
64.	Payment gateway X-ID	varchar(64) NOT NULL default ''	[SPACE-~]	OXXID
65.	Paid on	varchar(64) NOT NULL default ''	YYYY-MM-DD HH:MM:SS	OXPAID
66.	Order cancelled	tinyint(1)	[0,1]	OXSTORNO
67.	IP number	varchar(64) NOT NULL default ''	valid IP	OXIP
68.	Payment gateway transaction status	varchar(30) NOT NULL default ''	[SPACE-~]	OXTRANSSTATUS
69.	language	int(2) NOT NULL default '0'	0 to 99	OXLANG
70.	Invoice number	integer(11) NOT NULL	0 to 2147483647	OXINVOICENR
71.	Shipping method	char(32) NOT NULL default ''	[SPACE-~]	OXDELTYPE
72.	Export status for pixi*	tinyint(4) NOT NULL	[0,1]	OXPIXIEXPORT
73.	Trusted shops Buyers Protection product id, e.g. TS080501_500_30_EUR	char(64) NOT NULL default ''	[~]	OXTSPROTECTID
74.	Buyers Protection cost	double NOT NULL default '0'	2.22507385850720 14 E-308 to 1.79769313486231 57 E+308	OXTSPROTECTCOSTS

4.21 Delete orders

#	Content/Example	Data type	Range	Field name
	Indicator char	char(2)	[XO]	
	Order ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.22 Create/update product assignments to orders

If a product assignment with the given OXID already exists, the product assignment is updated with the given values. Otherwise, a new product assignment is created.

#	Content/Example	Data type	Range	Field name ¹⁷
0.	Indicator char	char(1)	[R]	
1.	Product assignment ID	char(32) NOT NULL	[0-9a-f.]	OXID
2.	Order ID	char(32) NOT NULL	[0-9a-f.]	OXORDERID

¹⁷

Table: oxorderarticles

#	Content/Example	Data type	Range	Field name ¹⁷
3.	Amount	double NOT NULL default '0'	see field 9	OXAMOUNT
4.	Product ID	char(32) NOT NULL	[0-9a-f.]	OXARTID
5.	Product number	varchar(255) NOT NULL	[SPACE-~]	OXARTNUM
6.	Title	varchar(255) NOT NULL	[SPACE-~]	OXTITLE
7.	Short description	varchar(255) NOT NULL	[SPACE-~]	OXSHORTDESC
8.	Selected variant	varchar(255) NOT NULL	[SPACE-~]	OXSELVARIANT
9.	Total sum net	double NOT NULL default '0'	1.7976931348623157 E+308 to - 2.2250738585072014 E-308, 0, und 2.2250738585072014 E-308 to 1.7976931348623157 E+308 ¹⁸	OXNETPRICE
10.	Total sum brut	double NOT NULL default '0'	see field 9	OXBRUTPRICE
11.	VAT Total	double NOT NULL default '0'	see field 9	OXVATPRICE
12.	Special VAT	double NOT NULL	see field 9	OXVAT
13.	Persistent parameters (not used in standard eShop)	Text NOT NULL	[SPACE-~]	OXPERSPARAM
14.	Product price	double NOT NULL default '0'	see field 9	OXPRICE
15.	Brut product price	double NOT NULL default '0'	see field 9	OXBPRICE
16.	Net product price	double NOT NULL default '0'	see field 9	OXNPRICE
17.	Gift wrapping ID	varchar(32)	[SPACE-~]	OXWRAPID
18.	External URL	varchar(255) NOT NULL default "	valid URL without http://	OXEXTURL
19.	Description for external URL	varchar(255) NOT NULL default "	[SPACE-~]	OXURLDESC

¹⁸ Ranges defined by IEEE. The range that can be used is determined by hardware and operating system

#	Content/Example	Data type	Range	Field name ¹⁷
20.	URL of picture for external URL	varchar(128) NOT NULL default ''	see field 23	OXURLIMG
21.	Filename (without path) , Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ''	[SPACE-~] ¹⁹	OXTHUMB
22.	Filename (without path) , Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ''	[SPACE-~]	OXPIC1
23.	Filename (without path) , Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ''	[SPACE-~]	OXPIC2
24.	Filename (without path) , Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ''	[SPACE-~]	OXPIC3
25.	Filename (without path) , Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ''	[SPACE-~]	OXPIC4
26.	Filename (without path) , Default: <i>nopic.jpg</i>	varchar(128) NOT NULL default ''	[SPACE-~]	OXPIC5
27.	Weight	double NOT NULL default '0'	see field 9	OXWEIGHT
28.	Stock	int(11) NOT NULL default '-1' ²⁰	-2147483648 to 2147483647	OXSTOCK
29.	Available on	date NOT NULL default '0000-00-00'	YYYY-MM-DD	OXDELIVERY
30.	Date of creation (is ignored, actual date is used instead)	date NOT NULL default '0000-00-00'	YYYY-MM-DD	OXINSERT
31.	Date of last change (is ignored, actual date is used instead)	timestamp NOT NULL default CURRENT_TIMESTAMP on update CURRENT_TIMESTAMP	YYYY-MM-DD HH:MM:SS	OXTIMESTAMP
32.	Length	double NOT NULL default '0'	see field 9	OXLENGTH
33.	Width	double NOT NULL default '0'	see field 9	OXWIDTH
34.	Height	double NOT NULL default '0'	see field 9	OXHEIGHT
35.	File	varchar(128) NOT NULL default ''	[SPACE-~]	OXFILE
36.	Search terms	varchar(255) NOT NULL default ''	[SPACE-~]	OXSEARCHKEYS

¹⁹ Dependent on operating system

²⁰ -1 was a special value in older versions. Negative values are not to be used in Enterprise Edition any more.

#	Content/Example	Data type	Range	Field name ¹⁷
37.	Alt. template	varchar(128) NOT NULL default ''	[SPACE-~]	OXTEMPLATE
38.	Alt. contact	varchar(255) NOT NULL default ''	valid e-mail address	OXQUESTIONEMAIL
39.	Searchable	tinyint(1) NOT NULL default '1'	[0,1]	OXISSEARCH
40.	(always empty)	varchar(32) NOT NULL default ''	always empty	OXFOLDER
41.	Class	varchar(32) NOT NULL default ''	always <i>oxarticle</i>	OXSUBCLASS
42.	Cancelled	Tinyint(1) NOT NULL default '1'	[0,1]	OXSTORNO
43.	Shop-ID	varchar(32) NOT NULL	[SPACE-~]	OXORDERSHOPID
44.	VAT Total	Double NOT NULL	see field 9	OXTOTALVAT
45.	Order status	text	See 4.24	OXERPSTATUS ²¹

4.23 Delete product assignments to orders

#	Content/Example	Data type	Range	Field name
	Indicator char	char(2)	[XR]	
	Product assignment ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

4.24 Change order status

If an order status with the given OXID already exists, the order status is updated with the given values. Otherwise, a new order status is created.

#	Content/Example	Data type	Range	Field name ²²
0.	Indicator char	char(1)	[S]	
1.	ID from <i>oxorderarticles</i>	char(32) NOT NULL default ''	[0-9a-f.]	OXID
2.	Status text	text NOT NULL	[SPACE-~]	OXERPSTATUS_STATUS
3.	Date and time	Datetime	YYYY-MM-DD HH:MM:SS	OXERPSTATUS_TIME
4.	Tracking ID	char(32) NOT NULL default ''	[SPACE-~]	OXERPSTATUS_TRACKID

4.25 Create/update product assignments to vendors

If a product is already assigned to a vendor, this assignment is overwritten.

²¹ Always empty in OXID eShop Professional Edition

²² Table: *oxorderarticles*

#	Content/Example	Data type	Range	Field name
0.	Indicator char	char(1)	[D]	
1.	Product ID	char(32) NOT NULL default ""	[0-9a-f.]	OXID
2.	Vendor ID	char(32) NOT NULL default ""	[0-9a-f.]	OXVENDORID

4.26 Delete product assignments to vendors

#	Content/Example	Data type	Range	Field name
	Indicator char	char(2)	[XD]	
	Product assignment ID	char(32) NOT NULL default ""	[0-9a-f.]	OXID

4.27 Updating stock

#	Content/Example	Data type	Range	Field name
0.	Indicator char	char(1)	[E]	
1.	Product ID	char(32) NOT NULL default ""	[0-9a-f.]	OXID
2.	Stock	Integer(11) NOT NULL default -1	-2147483648 to 2147483647	OXSTOCK

4.28 Create/update users

If a user with the given OXID already exists, the user is updated with the given values. Otherwise, a new user is created.

#	Content/Example	Data type	Range	Field name ²³
0.	Indicator char	char(1)	[U]	
1.	User ID	char(32) NOT NULL	[0-9a-f.]	OXID
2.	Active	tinyint(1) NOT NULL default 0	[0,1]	OXACTIVE
3.	Rights	char(32)	'user', 'malladmin' or subshop ID	OXRIGHTS
4.	Shop ID	char(32)	[SPACE-~]	OXSHOPID
5.	Login/e-mail address	varchar(255) NOT NULL	[SPACE-~]	OXUSERNAME
6.	Password	varchar(128) NOT NULL	[SPACE-~]	OXPASSWORD

²³ Table: oxuser

#	Content/Example	Data type	Range	Field name ²³
7.	Salt (see also chapter 5.18)	char(128)	[SPACE-~]	OXPASSSALT
8.	Customer number	Integer(11)	0 to 2147483647	OXCUSTNR
9.	VAT ID	varchar(255) NOT NULL	[SPACE-~]	OXUSTID
10	VAT ID status	tinyint(1) NOT NULL default '0'	[0,1]	OXUSTIDSTATUS
11	Company	varchar(255) NOT NULL	[SPACE-~]	OXCOMPANY
12	First name	varchar(255) NOT NULL	[SPACE-~]	OXFNAME
13	Last name	varchar(255) NOT NULL	[SPACE-~]	OXLNAME
14	Street	varchar(255) NOT NULL	[SPACE-~]	OXSTREET
15	Street number	varchar(16) NOT NULL	[SPACE-~]	OXSTREETNR
16	Additional information	varchar(255) NOT NULL	[SPACE-~]	OXADDINFO
17	City	varchar(255) NOT NULL	[SPACE-~]	OXCITY
18	Country ID	varchar(32) NOT NULL	[SPACE-~]	OXCOUNTRYID
19	State ID	varchar(32) NOT NULL	[SPACE-~]	OXSTATEID
20	ZIP	varchar(16) NOT NULL	[SPACE-~]	OXZIP
21	Phone number	varchar(128) NOT NULL	[SPACE-~]	OXFON
22	Fax number	varchar(128) NOT NULL	[SPACE-~]	OXFAX
23	Salutation	varchar(128) NOT NULL	[SPACE-~]	OXSAL
24	Credit rating	integer(11)	0 to 2147483647	OXBONI
25	Date of creation	datetime	YYYY-MM-DD HH:MM:SS	OXCREATE
26	Date of registration	datetime	YYYY-MM-DD HH:MM:SS	OXREGISTER
27	Private phone number	varchar(64) NOT NULL	[SPACE-~]	OXPRIVFON
28	Cellular phone number	varchar(64) NOT NULL	[SPACE-~]	OXMOBFON
29	Date of birth	date	YYYY-MM-DD	OXBIRTHDATE

#	Content/Example	Data type	Range	Field name ²³
30	URL	varchar(255) NOT NULL	[SPACE-~]	OXURL
31	Automatic user group assignment	tinyint(1) NOT NULL	[0,1]	OXDISABLEAUTOGRP
32	LDAP-Key	varchar(128) NOT NULL	[SPACE-~]	OXLDAPKEY
33	Amount of invalid login attempts	integer(11)	0 to 2147483647	OXWRONGLOGINS
34	Key for „forgot password“ function	char(32)	[SPACE-~]	OXUPDATEKEY
35	Timestamp when key from field 33 expires	integer(11)	0 to 2147483647	OXUPDATEEXP
36	OpenID Indicates if account was created by OpenID	tinyint(1)	[0,1]	OXISOPENID
37	„Credit points“ from the users invitations	double NOT NULL default '0'	- 1.797693134862315 7 E+308 to - 2.225073858507201 4 E-308, 0, and 2.225073858507201 4 E-308 to 1.797693134862315 7 E+308	OXPOINTS

4.29 Delete users

#	Content/Example	Data type	Range	Field name
0.	Indicator char	char(2)	[XU]	
1.	User ID	char(32) NOT NULL	[0-9a-f.]	OXID

4.30 Create/Update countries

If a country with the given OXID already exists, the country is updated with the given values. Otherwise, a new country is created.

#	Content/Example	Data type	Range	Field name ²⁴
0.	Indicator char	char(1)	[N]	

²⁴

Table: oxcountry

#	Content/Example	Data type	Range	Field name ²⁴
1.	Country ID	char(32) NOT NULL	[0-9a-f.]	OXID
2.	Active	tinyint(1) NOT NULL default 0	[1,0]	OXACTIVE
3.	Name	char(128) NOT NULL	[SPACE-~]	OXTITLE
4.	ISO 2	char(2) NOT NULL	[A-Z]	OXISOALPHA2
5.	ISO 3	char(3) NOT NULL	[A-Z]	OXISOALPHA3
6.	ISO UN number	char(3) NOT NULL	[0-999]	OXUNNUM3
7.	Sorting	int(11) NOT NULL default 9999	0 to 2147483647	OXORDER
8.	Short description	char(255) NOT NULL	[SPACE-~]	OXSHORTDESC
9.	Description	char(255) NOT NULL	[SPACE-~]	OXLONGDESC
10.	Name in language 1	char(128) NOT NULL	[SPACE-~]	OXTITLE_1
11.	Name in language 2	char(128) NOT NULL	[SPACE-~]	OXTITLE_2
12.	Name in language 3	char(128) NOT NULL	[SPACE-~]	OXTITLE_3
13.	Short description in language 1	char(128) NOT NULL	[SPACE-~]	OXSHORTDESC_1
14.	Short description in language 2	char(128) NOT NULL	[SPACE-~]	OXSHORTDESC_2
15.	Short description in language 3	char(128) NOT NULL	[SPACE-~]	OXSHORTDESC_3
16.	Description in language 1	char(255) NOT NULL	[SPACE-~]	OXLONGDESC_1
17.	Description in language 2	char(255) NOT NULL	[SPACE-~]	OXLONGDESC_2
18.	Description in language 3	char(255)	[SPACE-~]	OXLONGDESC_3
19.	VAT Handling	tinyint(1) NOT NULL default 0	[0,1]	OXVATSTATUS

4.31 Delete Countries

#	Content/Example	Data type	Range	Field name
	Indicator char	char(2)	[XN]	
	Country ID	char(32) NOT NULL	[0-9a-f.]	OXID

4.32 Create/Update attributes

If a attribute with the given OXID already exists, the attribute is updated with the given values. Otherwise, a new attribute is created.

#	Content/Example	Data type	Range	Field name
0.	Indicator char	char(1)	[B]	
1.	Attribute ID	char(32) NOT NULL	[0-9a-f.]	OXID
2.	Shop-ID	char(32) NOT NULL	1 - 64	OXSHOPID
3.	Attribute used in Shops	bigint(20) NOT NULL UNSIGNED	binary encoded, 64 bit. <u>Example:</u> Product is in Shops #2 and #7. => 2nd 7th bit have to be set: The result is 66	OXSHOPINCL
4.	Attribute not used in Shops	bigint(20) NOT NULL	binary encoded, 64 bit. See above.	OXSHOPEXCL
5.	Name	char(128) NOT NULL	[SPACE-~]	OXTITLE
6.	Name in language 1	char(128) NOT NULL	[SPACE-~]	OXTITLE_1
7.	Name in language 2	char(128) NOT NULL	[SPACE-~]	OXTITLE_2
8.	Name in language 3	char(128) NOT NULL	[SPACE-~]	OXTITLE_3
9.	Sorting	integer(11)	0 to 2147483647	OXPOS

4.33 Delete Attributes

#	Content/Example	Data type	Range	Field name
0.	Indicator char	char(2)	[XB]	
1.	Attribute ID	char(32) NOT NULL	[0-9a-f.]	OXID

4.34 Create/Update Attribute assignments

If a attribute assignment with the given OXID already exists, the attribute assignment is updated with the given values. Otherwise, a new attribute assignment is created.

#	Content/Example	Data type	Range	Field name
0.	Indicator char	char(1)	[F]	

1.	attribute assignment ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID
2.	Product ID	char(32) NOT NULL default ''	[0-9a-f.]	OXOBJECTID
3.	Attribute ID	char(32) NOT NULL default ''	[0-9a-f.]	OXATTRID
4.	Attribute value	char(255) NOT NULL default ''	[SPACE-~]	OXVALUE
5.	Sorting	int(11) NOT NULL default '0'	0 to 2147483647	OXPOS
6.	Attribute value in language 1	char(255) NOT NULL default ''	[SPACE-~]	OXVALUE_1
7.	Attribute value in language 2	char(255) NOT NULL default ''	[SPACE-~]	OXVALUE_2
8.	Attribute value in language 3	char(255) NOT NULL default ''	[SPACE-~]	OXVALUE_3

4.35 Delete Attribute assignment

#	Content/Example	Data type	Range	Field name
0.	Indicator char	char(2)	[XF]	
1.	Attribute Assignment ID	char(32) NOT NULL default ''	[0-9a-f.]	OXID

5 Export interface

All objects (products, users, categories and so on) can be exported. The structure of the exported file is the same as described above. For accessing import, a particular URL is called via browser. We strongly recommend to password-protect and SSL-protect (https://) the export so it's not openly accessible.

5.1 Sorting export data

In some exports you can set by which field and in which direction (`ASC` or `DESC`) the data is to be sorted. If no sorting parameter is given, the fields are sorted by `OXID`.

5.2 Login

Before CSV Data can be exported, you have to login first. This is done with `OXERPLLogin` function:
<https://www.youreshop.com/modules/ERP/oxerpcsvexport.php?fnc=OXERPLLogin&user=admin&pw=password&version=2.7.0&shopid=1&langid=0>

The following parameters are given:

Parameter	Description
fnc=	Name of function (here: <code>OXERPLLogin</code>)
user=	Admin name (here: <code>admin</code>)
pw=	Password (here: <code>password</code>)
shopid=	Shop ID of Shop in which login is done (here: <code>1</code>)
langid=	Language ID (here: <code>0</code>)

The function returns a Session ID which has to be used in every other export function.

5.3 OXERPGetCategory

This function exports a category.

Parameters

Parameter	Description
fnc=OXERPGetCategory	Function name
sid=	Session ID returned by OXERPLLogin.
id=	ID of the category.

Example

`https://www.youreshop.com/modules/ERP/oxerpcsvexport.php?fnc=OXERPGetCategory&sid=xxxxxxxx&version=2.5.0&id=yyyyyyyyyy`

5.4 OXERPGetCategories

This function exports several categories at once.

Parameters

Parameter	Description
fnc=OXERPGetCategories	Function name
sid=	Session ID returned by OXERPLLogin.
sSortFieldName= (optional)	The field the returned categories are sorted by.
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.

Example

`https://www.youreshop.com/modules/ERP/oxerpcsvexport.php?fnc=OXERPGetCategories&sid=xxxxx&version=2.7.0&sSortFieldName=OXID&sSortType=DESC&iStart=0&iCount=5`

5.5 OXERPGetArticle

This function exports a product.

Parameters

Parameter	Description
fnc=OXERPGetArticle	Function name
sid=	Session ID returned by OXERPLLogin.
id=	ID of the product.

5.6 OXERPGetArticles

This function exports several products at once.

Parameters

Parameter	Description
fnc=OXERPGetArticles	Function name
sid=	Session ID returned by OXERPLLogin.
sSortFieldName= (optional)	The field the returned products are sorted by.
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.
id= (optional)	Category ID. Only products assigned to this category are exported.

5.7 OXERPGetArticleCategory

This function exports the categories a product is assigned to.

Parameters

Parameter	Description
fnc=OXERPGetArticleCategory	Function name
sid=	Session ID returned by OXERPLLogin.
id=	Product ID
sSortFieldName= (optional)	The field the returned categories are sorted by.
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.

5.8 OXERPGetArticleAction

This function exports the actions a product is assigned to.

Parameters

Parameter	Description
fnc=OXERPGetArticleAction	Function name

sid=	Session ID returned by OXERPLogin.
id=	The ID of the product.
sSortFieldName= (optional)	The field the returned actions are sorted by.
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.

5.9 OXERPGetArticleCrossselling

This function exports the products which are assigned as crosssellings to another product.

Parameters

Parameter	Description
fnc=OXERPGetArticleCrossselling	Function name
sid=	Session ID returned by OXERPLogin.
id=	The ID of the product.
sSortFieldName= (optional)	The field the returned products are sorted by.
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.

5.10 OXERPGetArticleScalePrice

This function exports scale prices assigned to a product.

Parameters

Parameter	Description
fnc=OXERPGetArticleScalePrice	Function name
sid=	Session ID returned by OXERPLogin.
id=	The ID of the product.
sSortFieldName= (optional)	The field the returned scale prices are sorted by.
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.

iCount= (optional)	Limits amount of returned objects.
-----------------------	------------------------------------

5.11 OXERPGetArticleAccessoire

This function returns products which are assigned as accessories to another product.

Parameters

Parameter	Description
fnc=OXERPGetArticleAccessoire	Function name
sid=	Session ID returned by OXERPLogin.
id=	The ID of the product.
sSortFieldName= (optional)	The field the returned products are sorted by.
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.

5.12 OXERPGetArticleStock

This function exports the stock of a product.

Parameters

Parameter	Description
fnc=OXERPGetArticleStock	Function name
sid=	Session ID returned by OXERPLogin.
id=	The ID of the product.

5.13 OXERPGetOrder

This function exports an order.

Parameters

Parameter	Description
fnc=OXERPGetOrder	Function name
sid=	Session ID returned by OXERPLogin.
id=	ID of the order.

5.14 OXERPGetOrderArticle

This function exports products of assigned to an order.

Parameters

Parameter	Description
fnc=OXERPGetOrderArticle	Function name
sid=	Session ID returned by OXERPLLogin.
id=	The OXID of the order
sSortFieldName= (optional)	The field the returned products are sorted by.
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.

5.15 OXERPGetVendor

This function exports a vendor.

Parameters

Parameter	Description
fnc=OXERPGetVendor	Function name
sid=	Session ID returned by OXERPLLogin.
id=	ID of the vendor.

5.16 OXERPGetArticleVendor

This function exports the vendor of a product.

Parameters

Parameter	Description
fnc=OXERPGetArticleVendor	Function name
sid=	Session ID returned by OXERPLLogin.
id=	ID of the product.

5.17 OXERPGetVendorArticles

This function returns all products assigned to a vendor.

Parameters

Parameter	Description
fnc=OXERPGetVendorArticles	Function name
sid=	Session ID returned by OXERPLLogin.
id=	The ID of the vendor.

Parameter	Description
sSortFieldName= (optional)	The field the returned products are sorted by.
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.

5.18 OXERPGetUser

This function exports a user.

Since OXID eShop version 4.0.1.0, passwords are MD5 encrypted with a salt:

```
OXUSER.OXPASSWORD = MD5 (PASSWORD+SALT)
```

These passwords cannot be decrypted. They cannot be imported in older eShop versions. The salt is always a HEX value.

Parameters

Parameter	Description
fnc=OXERPGetUser	Function name
sid=	Session ID returned by OXERPLLogin.
id=	The ID of the user.

5.19 OXERPGetUsers

This function exports several users at once.

Parameters

Parameter	Description
fnc=OXERPGetUsers	Function name
sid=	Session ID returned by OXERPLLogin.
sSortFieldName= (optional)	The field the returned users are sorted by.
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.

Parameter	Description
timestamp=yyyy-mm-dd hh:mm:ss (optional)	Only users created after this point of time are exported.

5.20 OXERPGetOrders

This function exports several orders at once.

Parameters

Parameter	Description
fnc=OXERPGetOrders	Function name
sid=	Session ID returned by OXERPLLogin.
sSortFieldName= (optional)	The field the returned orders are sorted by.
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.
timestamp=yyyy-mm-dd hh:mm:ss (optional)	Alle Bestellungen werden exportiert, die an und nach diesem Zeitpunkt angelegt wurden.

5.21 OXERPGetVendors

This function exports several vendors

Parameters

Parameter	Description
fnc=OXERPGetVendors	Function name
sid=	Session ID returned by OXERPLLogin.
sSortFieldName= (optional)	The field the returned vendors are sorted by.
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.

5.22 OXERPCallPlugin

OXERPCallPlugin invokes an external plugin. Sample call:

```
http://shopurl/modules/erp/oxerpcsvexport.php?sid=MYSID&fnc=OXERPCallPlugin&sPluginName=examplePlugin&aRequestData[var1]=val1&aRequestData[var2]=val2
```

Parameters

Parameter	Description
fnc=OXERPCallPlugin	Function name
sid=	Session ID returned by OXERPLLogin.
sPluginName=	The name of a plugin to be called.
aRequestData=	Data passed to the plugin

5.23 OXERPGetAttributes

This function exports several attributes which are defined in sIn.

Parameters

Parameter	Description
fnc=OXERPGetAttributes	Function name
sid=	Session ID returned by OXERPLLogin.
sIn=	List of attributnames
sSortFieldName= (optional)	The field by which the returned attributes are sorted
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.

5.24 OXERPGetArticleAttributes

This function returns product assignments to attribute.

Parameters

Parameter	Description
fnc=OXERPGetArticleAttributes	Function name
sid=	Session ID returned by OXERPLLogin.
sArticleID=	ID of the product. May be left empty.
sAttributeID=	ID of the attribute. May be left empty.
sSortFieldName= (optional)	The field the returned data is sorted by.

Parameter	Description
sSortType= (optional)	ASC (ascending) or DESC (descending)
iStart= (optional)	Amount of objects which are skipped and not returned.
iCount= (optional)	Limits amount of returned objects.

6 Using custom fields

If additional fields were created in tables, the ERP module files have to be adjusted. The files are stored in `/modules/erp/objects`. The filename indicates for which table file is used. At the beginning, the files contain a field list. This list has to be extended with the names of the additional fields.

6.1 Example

In this example, the table `oxcategories` was extended with the field `articles_amount`. This field contains the amount of products assigned to the category. For using this field, `oxerptype_oxcategory.php` is adjusted:

The file contains a definition of database fields:

```
'OXID'           => 'OXID',
'OXPARENTID'     => 'OXPARENTID',
'OXORDER'        => 'OXORDER',
'OXACTIV'        => 'OXACTIV',
```

This definition is extended with `articles_amount`:

```
.
.
.
'OXSEOID_3'      => 'OXSEOID_3',
'ARTICLES_AMOUNT' => 'ARTICLES_AMOUNT'
);
```

6.2 Extending ERP with plugins

With plugins, you can extend the functionality of the CSV interface. Plugins are called using the function `OXERPCallPlugin` (See 5.22).

6.3 Creating a plugin

A Plugin class has to extend the class `oxErpPluginBase` and implement `invoke()` function (which is defined abstract by `oxErpPluginBase`). The class name has to contain *Plugin* at the end (e.g. *examplePlugin* as below).

The Plugins are stored in the <erp base>/plugins directory. The filename has to be the same as the class name of the plugin **in lowercase** (e.g. *exampleplugin.php* for the example below).

6.4 Sample plugin

```
<?php
/**
 * plugin which duplicates input
 */
class examplePlugin extends oxErpPluginBase
{
    /**
     * plugin entry point
     *
     * @param array $aParams 'name=>value' based passed parameters map
     *
     * @return oxERPReturn[]
     */
    public function invoke($aParams)
    {
        $oResult = new oxERPReturn();
        $oResult->aResult = $aParams;
        $oResult->blResult = true;
        $oResult->sMessage = 'example msg';
        return array($oResult, clone $oResult);
    }
}
```

6.5 Data flow of the sample plugin

Assuming data of a csvexport request is:

```
http://...&fnc=OXERPCallPlugin&sPluginName=examplePlugin&aRequestData[myvarname1]=value1&
aRequestData[myvarname2]=value2
```

The plugin's **invoke** method gets:

```
array (
    'myvarname1' => 'value1',
    'myvarname2' => 'value2',
)
```

The example plugin duplicates data, and returns it to the call handler. The result data is:

```
array (
    0 =>
```

```

OXERPReturn::__set_state(array(
    'blResult' => true,
    'sMessage' => 'example msg',
    'aResult' =>
        array (
            'myvarname1' => 'value1',
            'myvarname2' => 'value2',
        ),
    ),
    1 =>
    OXERPReturn::__set_state(array(
        ... [same as 0th entry] ...
    )),
)

```

Such result is formatted (by `oxERPGateway`) according to the request type (SOAP or CSV) and returned to the client.

CSV client would get duplicated input in csv format:

```

myvarname1,myvarname2
value1,value2
value1,value2

```

The first line of the output file is a header line, containing variable names (array key values of the first data record, returned by the plugin, if resulting lines column count is equal). If column count in data is not equal, header line is skipped.

7 Expandability of CSV interface

You can also extend the CSV interface with own functions, but we advise you to use plugins (See chapter 6.2) for keeping the ERP easily updatable.

How to extend CSV interface is explained with an example: The import of attributes is implemented. As a guideline, `oxcountry` entries can be taken.

7.1 Define new attribute object

For accessing attributes, an attribute object has to be defined. Existing object files are stored in `modules/objects`. Here, a new file has to be created: `oxerptype_attribute.php`:

```

<?php

require_once( 'oxerptype.php' );

```

```

class oxERPTType_Attribute extends oxERPTType
{
    public function __construct()
    {
        global $myConfig;

        parent::__construct();

        $this->_sTableName = 'oxattribute';
        $this->_sShopObjectName = 'oxattribute';

        $this->_aFieldList = array(
            'OXID'          => 'OXID',
            'OXSHOPID'     => 'OXSHOPID',
            'OXSHOPINCL'   => 'OXSHOPINCL',
            'OXSHOPEXCL'   => 'OXSHOPEXCL',
            'OXTITLE'      => 'OXTITLE',
            'OXTITLE_1'    => 'OXTITLE_1',
            'OXTITLE_2'    => 'OXTITLE_2',
            'OXTITLE_3'    => 'OXTITLE_3',
            'OXPOS'        => 'OXPOS'
        );
    }
}

```

In `$this->_aFieldList`, all database fields from *oxattribute* table are defined.

7.2 Implementing function in *oxerpgateway.php*

```

public function OXERPSetAttribute($oParameters)
{
    try{
        $this->_loadSession($oParameters->sSessionID);
        $aAttribute = $this->_formatInput($oParameters->aAttribute);
        $oResult = $this->_import('attribute',$aAttribute);
    }
    catch (Exception $e) {
        $oResult = $this->_exception2OxErpReturn($e);
    }
    return $this->_formatResult($oResult,'OXERPSetAttributeResult',true);
}

```

7.3 Import definition in *oxerpcsv.php*

In *oxerpcsv.php* the function `_ImportAttribute` has to be implemented:

```
protected function _ImportAttribute(oxERPTyp & $oType, $aRow)
{
    $sResult = $this->_Save( $oType, $aRow);
    $this->_aResults[$this->_iIdx] = $sResult;
    return (boolean) $sResult;
}
```

In *oxerp.csv.php* the indicator chars are defined in `$_aObjects` array. For attribute import, we choose 'B' as indicator char and add it to `$_aObjects` array:

```
'B' => 'attribute',
```

Take care that each indicator char is used only once.

7.4 Using new OXERPSetAttribute function

If an attribute with the given OXID already exists, the attribute is updated with the given values. Otherwise, a new attribute is created.

#	Content/Example	Data type	Range	Field name ²⁵
0.	Indicator char	char(1)	[B]	
1.	Attribute ID	char(32) NOT NULL	[0-9a-f.]	OXID
2.	Shop-ID	char(32) NOT NULL	1 - 64	OXSHOPIDError: Reference source not found
3.	Attribute used in Shops	bigint(20) NOT NULL UNSIGNED	binary encoded, 64 bit. <u>Example:</u> Product is in Shops #2 and #7. => 2nd 7th bit have to be set: The result is 66	OXSHOPINCLError: Reference source not found
4.	Attribute not used in Shops	bigint(20) NOT NULL	binary encoded, 64 bit. See above.	OXSHOPEXCLError: Reference source not found
5.	Name	char(128) NOT NULL	[SPACE-~]	OXTITLE
6.	Name in language 1	char(128) NOT NULL	[SPACE-~]	OXTITLE_1

²⁵

Table: oxattribute

#	Content/Example	Data type	Range	Field name ²⁵
7.	Name in language 2	char(128) NOT NULL	[SPACE-~]	OXTITLE_2
8.	Name in language 3	char(128) NOT NULL	[SPACE-~]	OXTITLE_3
9.	Sorting	integer(11)	0 to 2147483647	OXPOS

7.5 Registering function in oxerpcsvexport.php

In oxerpcsvexport.php, all get functions are defined. `OXERPSetAttribute` is not an export function, nothing has to be changed.

If a get function `OXERPGetAttribute` was implemented, in the field list at the beginning of the file the following line had to be added:

```
"OXERPGetAttribute" => "sAttributeID",
```