



Installation and configuration

User Manual

The instructions in this manual are for informational purposes only and are subject to change. Protonic Software GmbH assumes no liability. The software described in this manual requires a license.

The individual functions are described using screenshots. Depending on your easyjob license, operating system or Office version, the functions and screenshots you have in your environment may differ from this manual or may only be available in later versions.

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Introduction	4
Important notice	Fehler! Textmarke nicht definiert.
Main Office	Fehler! Textmarke nicht definiert.
Support	Fehler! Textmarke nicht definiert.
Training	Fehler! Textmarke nicht definiert.
About this manual	Fehler! Textmarke nicht definiert.
How to use this manual	Fehler! Textmarke nicht definiert.
Additional documentation	Fehler! Textmarke nicht definiert.
Installation	9
Getting started	11
Installation and updates	13
System requirements	15
Windows Client (Full use)	15
Web Client (Limited Features)	15
Mobile Client	15
Application server	15
Operation	16
Interfaces	18
Webshop	20
Configuration	20
Directory structure on the server and setup of webshop.xml	21
Processing incoming requests in easyjob	22
Sample structure of an ewsm file	22
WebApi	23
Functions	24
TAPI interface	30
Installation and activation	30
Report Designer	32
Important information for the migration from List & Label 23 to 27	34
Changed behavior of Group Header Lines	35
Operation and provision	36
easyjob system architecture	37
easyjob Clients	37
easyjob Services	39
Third-Party Services	42

INTRODUCTION

Information about the structure and content of this document can be found here



Important notice

This manual provides an overview of the Digital Signature function of the easyjob 6 rental software.

The development of the easyjob rental software as well as the documentation has been done with great care. The individual program functions are constantly checked through our Quality Assurance Process. However, errors can still occur.

Main Office

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<http://www.protonic-software.com>

Support

You can find more information about the support options on-line at <http://www.protonic-software.com/en/easyjob/corporate/support/>.

In addition, there is a support forum where you can exchange information with other users. The support forum can be found at <http://forum.protonic-software.com>

Training

We offer customized training programs for the following extensive topics.

To learn more, please visit our website at

<http://www.protonic-software.com/en/service/training/> or contact our sales office at sales@protonic-software.com

About this manual

The individual functions are described using screenshots of easyjob license 6. Depending on your easyjob license, the forms you have in your environment may differ from the screenshots shown in the manual.

How to use this manual

This document uses the following standards




Functions that require a license

Individual program functions are made available in your easyjob environment based on your license. This may concern individual program functions or entire modules.

Functions that are only available in individual modules are marked with minimum-edition symbols **S**, **M**, **L** or **XL**. Some functions are limited in easyjob S. There is no indication of this. You can find the limitations in the version comparison matrix on our website.

Functions that are only available by subscription are marked with the symbol .

For example:


L	The function is only available in easyjob L and easyjob XL
L 	The function is only available in easyjob L and XL with a current subscription.

easyjob-specific terms

In order to make a description better understood, in some cases easyjob-specific terms are **highlighted** with a color.

For example: with the **Project** and **Job** Groups, you also have the possibility to select a **Template**.


Work steps, buttons, actions and menu paths


Individual work steps, actions, menu paths or clicks are separated from each other or initiated by the symbol ".

Buttons, menus, tabs, etc. used in context are **highlighted** in color.

Example 1: Check the box in the **Activating the List Editor** field.

Example 2: easyjob Menu  **View**  **Monthly Overview**

Example 3:  **Help**

Example 4:  **Ok**

Reference to other chapters

References to other chapters and sections are marked with a manual icon and displayed in color.

Example: See section  **Important information**.

Important information

Important information is highlighted in orange and presented with a light bulb.











Example:



This information is important. This information is important.

Special keys

Special keys are represented with the following symbols:

Special key	Explanation
	Windows key
	Tabulator key
	Arrow keys
	Return key
	Context Menu key
	Escape key
	Function key 1
 + A	Control key. Keep the control key pressed down and press the A button.
 + H	Alt key. Keep the Alt key pressed down and also press the H button
	Delete key

Phrasing

In this manual and in the easyjob examples, terms such as employee, assistant, technician or carpenter are used both for men and for women.

Screenshot explanations

The screenshots will be explained using numbers ① ② ③ and arrows → marked.

Screenshot highlights will be marked with orange frames.

Number	Name	Invoice Date	Total	Total incl. Tax	Name1	Status	Paid	Site	Manager	Open	Payments
DFT21-0010	ABC Product Lounge	10/5/2021	€23,537.70	€23,537.70	XY Event Productions	Finalized	<input checked="" type="checkbox"/>	Default	Gabriel Gibbs	€0.00	€23,537.70
DFT21-0006	ABC Product Lounge	8/11/2021	€29,537.10	€29,537.10	XY Event Productions	Open	<input checked="" type="checkbox"/>	Default	Protonic Support	€0.00	€53,682.90
DFT21-0005	ABC Product Lounge	8/11/2021	€12,072.90	€12,072.90	XY Event Productions	Open	<input checked="" type="checkbox"/>	Default	Protonic Support	€0.00	€12,072.90
DFT21-0002	Future Planet	8/11/2021	€58,108.40	€58,108.40	XY Event Productions	Open	<input checked="" type="checkbox"/>	Default	Protonic Support	€0.00	€58,108.40
DFT21-0001	ABC Product Lounge	7/1/2021	€75,586.82	€75,586.82	XY Event Productions	Exported	<input checked="" type="checkbox"/>	Default	Protonic Support	€0.00	€77,854.42
DFT21-0013	Party	10/26/2021	€250.00	€250.00	Pro Sound	Open	<input type="checkbox"/>	Tomorrowland	Gabriel Gibbs	€0.00	€242.20
DFT21-0007	Rechnung urf.wi.17533	10/5/2021	€4,500.00	€4,500.00	Pro Sound	Finalized	<input checked="" type="checkbox"/>	Default	Gabriel Gibbs	€0.00	€4,500.00
20-0002	Big Festival	10/19/2020	€62,048.40	€62,048.40	Pro Sound	Finalized	<input type="checkbox"/>	Default	Mateo Mullen	€62,048.40	€0.00
20-0001	Technology Center	10/19/2020	€104,230.00	€112,568.40	Meeting Today	Finalized	<input type="checkbox"/>	Default	Tom Tyson	€112,568.40	€0.00
DFT21-0012	Cinema Event	10/12/2021	€550.00	€550.00		Finalized	<input checked="" type="checkbox"/>	Tomorrowland	Protonic Support	€0.00	€532.84
DFT21-0011	Cinema Event	10/20/2021	€0.00	€0.00		Open	<input type="checkbox"/>	Tomorrowland	Brad Casagni	(€532.84)	€532.84
DFT21-0009	ABC Product Lounge	10/5/2021	€0.00	€0.00		Open	<input type="checkbox"/>	Tomorrowland	Gabriel Gibbs	€0.00	€0.00
Totals	Quantity	12	Total	€370,421.32	Total incl. Tax	€378,759.72					

Additional documentation

In order to make it easier to become acquainted with and consult the easyjob documentation, we have divided it into multiple sections.

You can find an overview of all documentation on the following website.

<https://help.protonic-software.com/en/documentation>.

INSTALLATION

Here you can find information and assistance for the operation and provision of easyjob.

Installation and Configuration - Additional documentation

This chapter will be published soon.

GETTING STARTED

Installation and Configuration - Additional documentation

This chapter will be published soon.

INSTALLATION AND UPDATES

Installation and Configuration - Additional documentation

This chapter will be published soon.

System requirements

For perfect easyjob performance, the minimum system requirements described below must be fulfilled.

Windows Client (Full use)

Operating system in the physical or virtual computer: Windows 7, 8, 8.1, 10 or 11
Operating system for remote desktop environments: Windows 2012, 2012 R2, 2016, 2019, 2022, 7, 8, 8.1, 10 or 11
Min 2 GB free RAM
Minimum screen resolution 1280x1024

Web Client (Limited Features)

Current web browser

Mobile Client

Android or iOS

Application server

You may require further upgrades to your existing infrastructure in order to achieve optimal performance.

The easyjob server applications can be installed in desktop PCs in parallel in small environments and in addition to other applications on a server in medium-sized environments. We recommend an application server for large environments.

For operation, a Microsoft SQL Server database is also necessary.

Depending on the size of the environment, the SQL Server Express variant provided with the installation is sufficient.

A large amount of data is read and written in the SQL database. For this reason, the entire performance depends mainly on the SQL Server environment. We recommend using very fast disks and processors, and to have sufficient free RAM available.

Windows Server 2016, 2019 and 2022 server operating systems are supported.

Microsoft SQL Server 2016, 2017 and 2019 can be used in all editions for the SQL database.

OPERATION

Installation and Configuration - System requirements

This chapter will be published soon.

INTERFACES

Connecting external tools to
easyjob

Installation and Configuration

The easyjob WebApi offers real-time access to easyjob. Depending on user rights, Items, availability, addresses and projects can be called up via a JSON interface and partially edited. The WebApi has the same functional scope as the easyjob WebApp and the app for mobile end devices, as the same interface is used.

Webshop

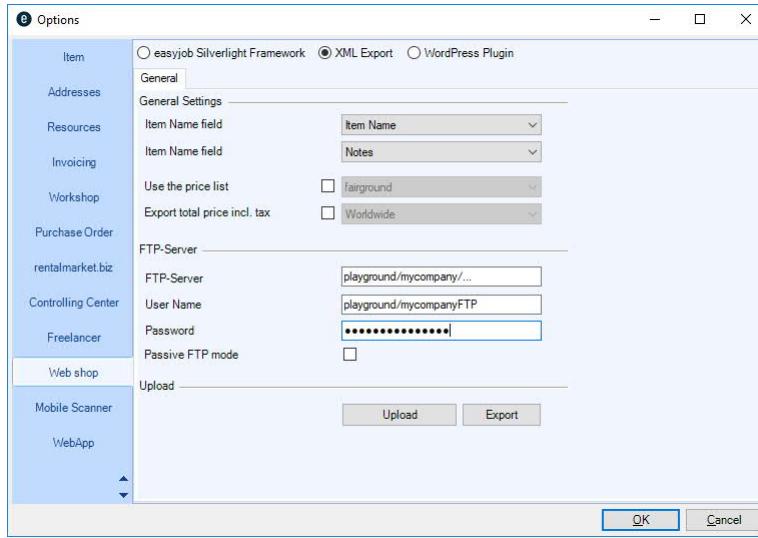
With the easyjob Webshop you can automatically load Item information for your own Webshop in XML format to a server via FTP.

Requests that are generated by the Webshop can be imported into easyjob as a project in a special file format (ewsm).

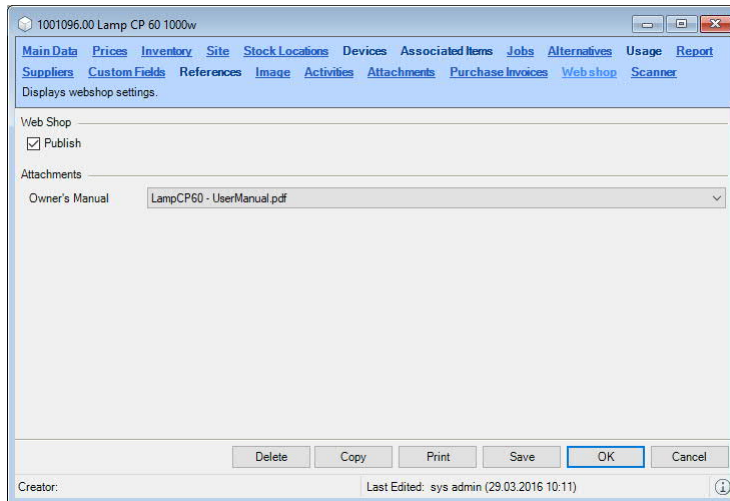
An easyjob WebShop license is necessary to use the interface.

Configuration

The export information for the Item master data is configured in the easyjob program settings.



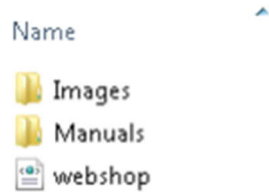
It is defined in the Item master data which Items should be available in the Webshop.



Directory structure on the server and setup of webshop.xml

The Item image data is stored in a large and small format in the Images directory. The manual associated with the item is stored in the Manuals folder.

All items inclusive of the sub-category hierarchy are exported to Webshop.xml.



Structure of the webshop.xml

```
<?xml version="1.0" encoding="utf-8"?>
<webshop>
  <categories>
    <category id="61">
      <name><![CDATA[Lighting]]></name>
      <subcategories>
        <subcategory id="225">
          <name><![CDATA[Control]]></name>
          <items>
            <item id="7755">
              <name><![CDATA[2 CH Rack]]></name>
              <description><![CDATA[]]></description>
              <price>0.00</price>
              <SmallImageUrl>Images/small7755.png</SmallImageUrl>
              <LargeImageUrl>Images/large7755.png</LargeImageUrl>
              <ManualUrl>Manuals/manual7755.pdf</ManualUrl>
            </item>
          </items>
        </subcategory>
      </subcategories>
    </category>
  </categories>
</webshop>
```

Processing incoming requests in easyjob

easyjob can import Webshop requests. To do so, the Webshop must create a file with the extension .ewsm.

easyjob records the file extension during installation. After the file is called (e.g. via an email attachment), easyjob automatically starts the import process.

Sample structure of an ewsm file

```
<?xml version="1.0" encoding="utf-8"?>
<root>
  <ShopOrder xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" Version="1.0.0">
    <Header>
      <OrderId>695ab491-e931-47c6-bf25-f54ce7ba51d6</OrderId>
      <CryptCode></CryptCode>
      <Address>
        <Name1></Name1>
        <Addressnumber></Addressnumber>
        <Firstname></Firstname>
        <Lastname></Lastname>
        <Street></Street>
        <Line2></Line2>
        <Zip></Zip>
        <City></City>
        <Email>info@protonic-software.com</Email>
        <Phone></Phone>
        <IdCountry>6</IdCountry>
        <State></State>

      <CountryCaption>Belgium</CountryCaption>
    </Address>
    <ProjectName>sdfsfsdf</ProjectName>
    <StartDate>2019-03-21T09:00:00</StartDate>
    <EndDate>2019-03-21T17:00:00</EndDate>
    <Comment>sdfdfs</Comment>
    <Service.Delivery>True</Service.Delivery>
    <Service.Setup>True</Service.Setup>
    <IdStock>1</IdStock>
    <Service_FullService>True</Service_FullService>
    <IdUserManager>0</IdUserManager>
  </Header>
  <Body>
    <Items>
      <Item>
        <IdStockType>7742</IdStockType>
        <Factor>10</Factor>
        <Price>0</Price>
      </Item>
    </Items>
  </Body>
</ShopOrder>
</root>
```

WebApi

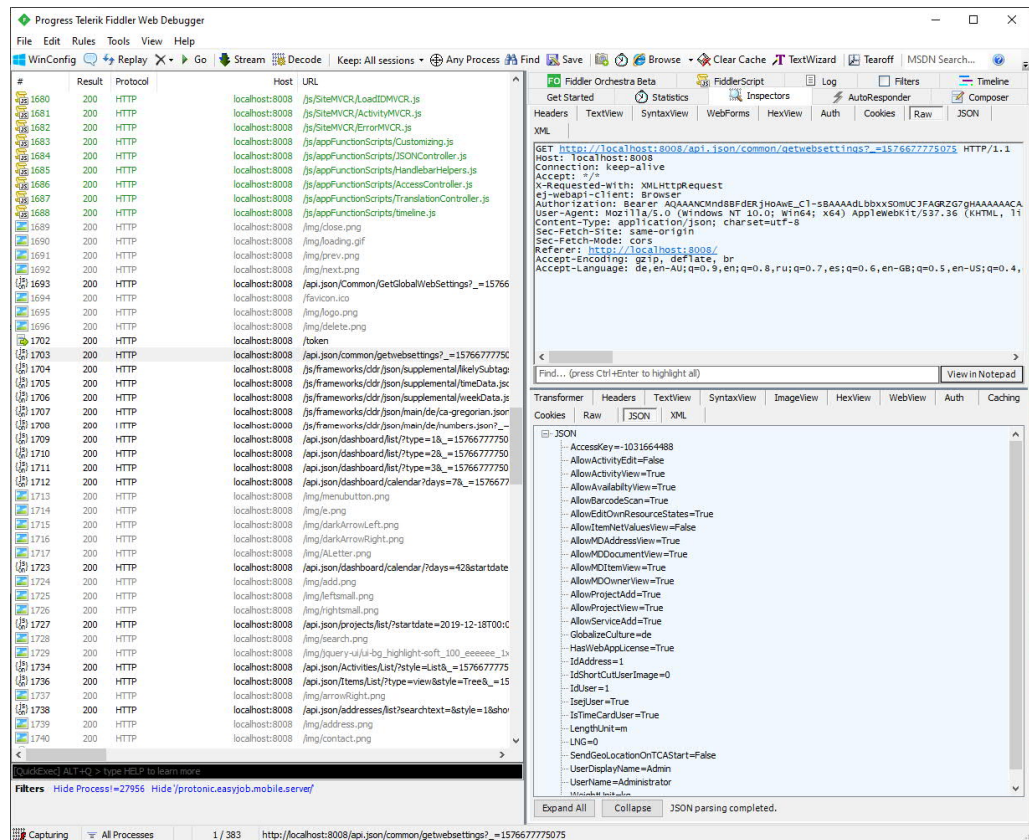
With the easyjob WebApi interface, data is retrieved and updated in easyjob in real-time.

The data is transferred in JSON format by means of GET and POST instructions.

Based on the login, only data for which the user has rights is transferred.

This WebApi documentation shows only the most important functions and calls to help you get started. For a complete overview, use an "HTTP Sniffer" program (such as Fiddler <https://www.telerik.com/fiddler>).

In the following example, the list of the individual WebApi calls is shown to the left. The data for the selected call that is sent and received is shown to the right.



Functions

Authorization

Authorization takes place via the OAuth 2.0 Bearer Token. It must first be requested at the end point `/token` in the WebApi.

The request to this endpoint must be performed as an HTTP-POST request

The `"Content-Type"` header must be set as follows: *"Content-Type: application/x-www-form-urlencoded; charset=UTF-8"*.

The user name and password are transferred in the Request-Body with the following structure:
`grant_type=password&username=Administrator&password=123"`

Authorization takes place both via the user's easyjob login or via the login data in the address/contact (WebApi license required).

Token request example:

```
POST http://server:8008/token HTTP/1.1
```

```
Content-Length: 55
```

```
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
```

```
grant_type=password&username=Administrator&password=123
```

The WebApi answers the request as follows:

```
{  
  "access_token": "ACCESS_TOKEN",  
  "token_type": "bearer",  
  "expires_in": 172799,  
  "userName": "Administrator",  
  ".issued": "Wed, 22 Jan 2020 15:05:12 GMT",  
  ".expires": "Fri, 24 Jan 2020 15:05:12 GMT"  
}
```

The answer contains a validity date next to the Access Token that indicates until when the token is valid ("`expires_in`" is indicated in seconds).

Installation and Configuration - WebApi

The received token must be set in all further requests in the Authorization Header: "Authorization: Bearer **ACCESS_TOKEN**".

The content type must be set to "*application/json; charset=utf-8*".

Project details request example:

```
GET http://server:8008/api.json/projects/details/62 HTTP/1.1
```

```
Authorization: Bearer ACCESS_TOKEN
```

```
Content-Type: application/json; charset=utf-8
```

The WebApi answers the request as follows:

```
HTTP/1.1 200 OK
```

```
Content-Length: 1002
```

```
Content-Type: application/json; charset=utf-8
```

```
{  
  "AllowHeadEdit": true,  
  "AllowDocumentView": true,  
  "AllowTimeCardView": true,  
  "AllowPriceView": true,  
  "AllowActivityView": true,  
  "AllowJobAdd": true,  
  "AllowCostplanView": true,  
  "HtmlColor": "#C9F3C9",  
  "CurrencySymbol": "EUR",  
  "IdProject": 65,  
  "Number": "20-0003",  
  "CustomNumber": "",  
  "Caption": "Sample project",  
  "ProjectState": {  
    "IdProjectState": 1,  
    "Caption": "Confirmed",  
    "Color": -3542071  
  },  
  "StartDate": "2020-01-22T00:00:00",  
  "EndDate": "2020-03-01T00:00:00",  
  "Address_Customer": {  
    "IdAddress": 8,  
    "Number": "1000008.00",  
    "Company": "Sample company LLC",
```

```
    "FirstName": "Max",
    "Surname": "Smith",
    "Street": "Main street 1",
    "Zip": "0000",
    "City": "Any town",
    "Phone": "",
    "PhoneCompany": "",
    "Fax": "",
    "EMail": "",
    "WWWAddress": ""
  },
  "Contact_Customer": {
    "IdContact": 8,
    "Surname": "Smith",
    "FirstName": "Max",
    "Phone": "",
    "Fax": "",
    "Mobile": "",
    "Email": ""
  },
  "Jobs": [
    {
      "IdJob": 120,
      "Number": "20-0003.01",
      "Caption": "Sample job",
      "Stock": {
        "IdStock": 1,
        "Caption": "Default"
      }
    }
  ],
  "Stock": { "Stock": {
    "IdStock": 1,
    "Caption": "Default"
  }
}
```

General

Possible calls

- GET /api.json/Common/GetGlobalWebSettings (Anonymous)
- GET /api.json/Common/GetWebSettings
- GET /api.json/Common/AutoComplete/?searchtext=abc&table=project

Dashboard

Provides a view of the current processes related to the login

Possible calls

- GET /api.json/Dashboard/List/(type=Important|Today|FromTodayOn)
- GET /api.json/Dashboard/Calendar/?days=7&(startdate=2019-01-01T00:00:00.000Z)&(tables=7)

Views

Access to all Navigator/easyjob Today views

Possible calls:

- GET /api.json/Views/List
- GET /api.json/Views/Execute/viewname

Addresses

Access to the easyjob address master data

Possible calls

- GET /api.json/Addresses/List/(searchtext=abc)&(style=List|Compact)
- GET /api.json/Addresses/Details/123?(Idcontact=123|-1)
- GET /api.json/Addresses/ActivityList/123?(style=List|Compact)&(tables=7)
- GET /api.json/Contacts/Details/123

Projects and Jobs

Access to easyjob Projects and Jobs

Possible calls

- GET /api.json/Projects/List/(searchtext=abc)&(style=List|Compact)&(startdate=2019-01-01T00:00:00.000Z)&(enddate=2019-01-01T00:00:00.000Z)
- GET /api.json/Projects/Details/123
- POST /api.json/Projects/Save/[model]
- GET /api.json/Projects/GetFormData/(type=add|edit)
- GET /api.json/ShortCuts/List2Object/123?table=project&(style=List|Compact)
- GET /ShortCuts/download|image|thumb|thumb2/123?access_token=abc&access_key=123
- GET /api.json/Job/Details/123
- POST /api.json/Job/Save/[model]
- GET /api.json/Job/GetFormData/(123)?(type=add|edit)

Items

Access to easyjob Items

Possible calls

- GET /api.json/Items/List/(searchtext=abc)&(type=View|Book)&(style=List|Compact)&(IdCategoryParent=123)&(IdCategory=123)
- GET /api.json/Items/CategoryList/(type=View|Book)
- GET /api.json/Items/Details/123
- GET /api.json/Items/BillOfItems/123
- GET /api.json/Items/LinItemDetails/(123)?(idst=123)&(idjob=123)&(idst2jg=123)
- GET /api.json/Items/GetLinItemFormData/(123)?(idjob=123)&(idst2jg=123)
- POST /api.json/Items/Book/[model]
- GET /api.json/Items/Avail/123?startdate=2019-01-01T00:00:00.000Z&enddate=2019-01-01T00:00:00.000Z&(stock=123)

Resources

Access to resource planning

Possible calls

- //GET /api.json/Resources/List/?(searchtext=abc)&(resourcetype=Staff|Vehicle|GenericRessource)&(style=List|Compact)
- GET /api.json/Resources/List2Object/123?(table=job)
- GET /api.json/Resources/AllocationList/123
- GET /api.json/Resources/Details/123
- GET /api.json/Resources/GetFormData/(123)?(idjob=123)&(resourcetype=Staff|Vehicle|GenericRessource)&(idresourcefunction=123)
- POST /api.json/Resources/Save/[model]
- POST /api.json/Resources/Delete/123

Print

Starting printing processes (PDF generation)

Possible calls

- GET /api.json/Reports/List/?table=project
- GET /Print/123/project/123?access_token=abc&access_key=123

Time Card

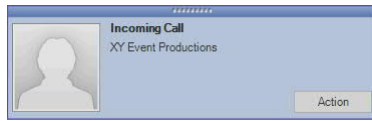
Access to time recording

Possible calls

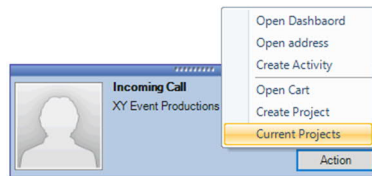
- GET /api.json/TimeCard/List2Object/123?(table=project)
- GET /api.json/TimeCard/Details/?(d=2019-01-01T00:00:00.000Z)
- POST /api.json/TimeCard/StartWorkTime
- POST /api.json/TimeCard/CloseWorkTime/?(d=2019-01-01T00:00:00.000Z)&(force=0|1)
- GET /api.json/TimeCard/GetFormData/?(worktype=123)
- POST /api.json/TimeCard/SaveWorkTrace/[model]
- POST /api.json/TimeCard/SaveWorkQualification/[model]
- GET /api.json/TimeCard/GetWorkQualificationTemplates
- GET /api.json/TimeCard/GetWorkTraceTemplates
- GET /api.json/TimeCard/UserList (Anonymous)
- POST /api.json/TimeCard/DeleteWorkTrace/123
- POST /api.json/TimeCard/DeleteWorkQualification/123

TAPI interface

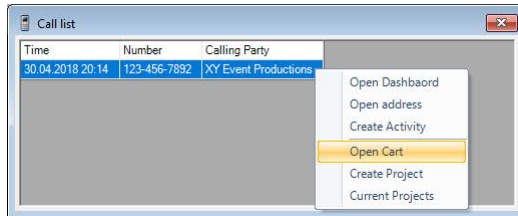
When integrating a phone, incoming calls will be resolved based on the stored phone number data and signaled with a popup window.



You can perform additional activities using the context menu.



From the call list context menu you can perform additional actions using a known address.



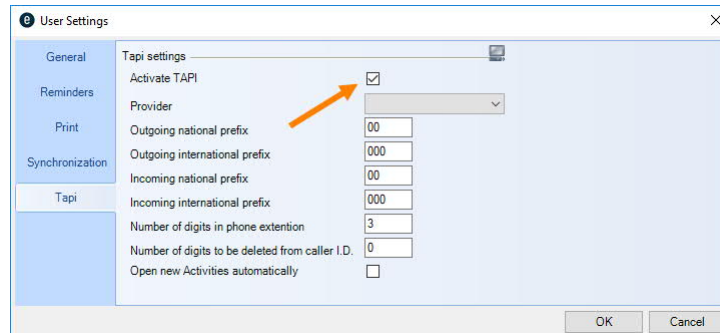
Installation and activation

User options

TAPI integration is activated in the user options.

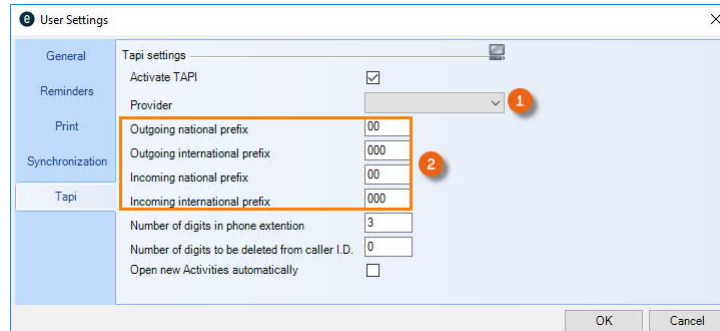
Activating TAPI

1. easyjob Menu Tools User Settings
2. TAPI
3. Check the **Activate TAPI** box



Installation and Configuration - TAPI interface

In the user options, also select the provider ① made available by the installed TAPI driver of the telephone system. The prefix settings ② are inclusive of any numbers for accessing an outside line as well as local and international codes. If you have to select 0 for an outside line, for a national call it is = 00 (one 0 for the outside line and 0 for the area code). Internationally, you need one more 0: 0 = outside line 00 = int. code.



For incoming prefixes, it depends if the telephone sends the 0 for the outside line as a code for external calls. If yes, it is the same as for outgoing prefixes, otherwise with one less 0. (0 = national, 00= int.).

Company address

Your own company address is selected in the program options from the master data. In order for the TAPI interface to function, the company address must contain the country.

Storing the company address

1. easyjob Menu ↪ • **Tools** ↪ • **Settings**
2. ↪ • **General**
3. Select your company address
4. ↪ • **Ok**

easyjob must be restarted to activate the settings.

Countries

The country phone prefix must be entered in the country master data.

Managing countries

1. easyjob Menu ↪ • **Master Data** ↪ • **Countries**
2. Select a country you want to **Edit** or create a new country with **Add**.
3. Enter a name, country code and phone prefix.

4. ↪ • **Ok**

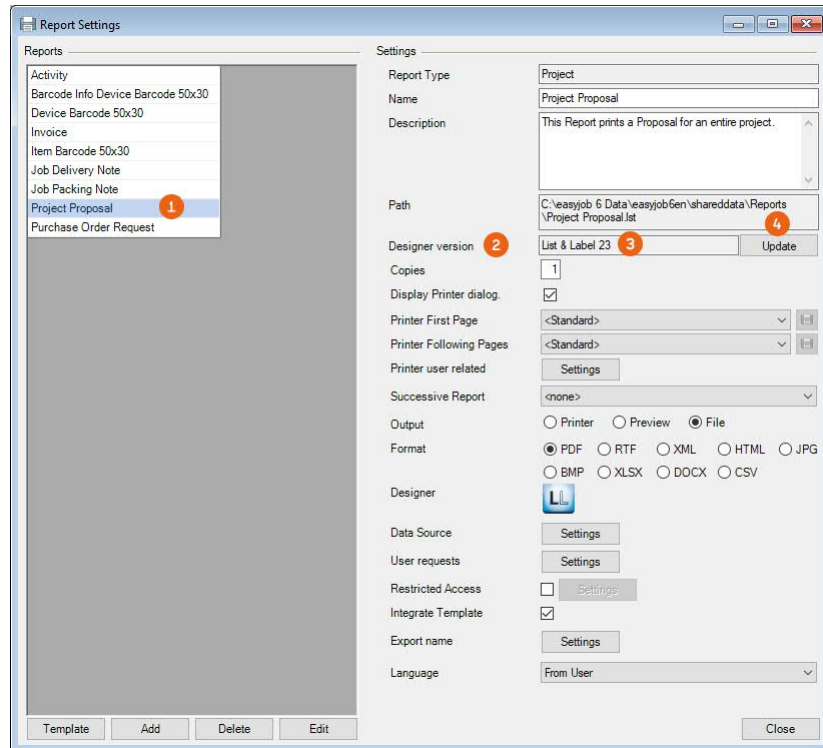
REPORT DESIGNER

Installation and Configuration

This chapter will be published soon.

Important information for migration List & Label 23 to 27

From easyjob 6.17 you have the option to migrate your reports individually to a higher List & Label Version. After you have selected the desired Report ①, the Designer Version ② (e.g. List & Label 23 ③) of the selected report will be displayed. With Update ④ you can convert the reports to the current List & Label Version.



When converting the report, a backup will be automatically stored in Version 23 in the Shared Report directory (`SERVER\easyjob 6\Data\easyjob\shreddata\Reports\`).



Please note that this update cannot be reversed. After converting, please fully test your report to make sure that it functions like before the conversion.

Changed behavior of Group Header Lines

Behavior up to Version 23:

The group header was output up until now to the field type of the first printed data line.

New behavior from Version 24:

The group header is output up to the first data line, regardless if it is printed, presented visually or not.

This change influences the behavior of the totals variables when Parts data source is used as a counter. If Parts in the data source are transferred at the beginning as a counter, they will not be executed and will be output up to the first data line, which should not be optically printed in the report. Here the group header must be intercepted and be excluded from the Parts counter of the data source by means of a display condition, so that they are executed and can also be counted.

You can find this in our Standard Report Templates [Job Delivery Note](#), [Job Pack Lists](#), [Job Pack Lists according to Stock Location](#), [Project Item Lists](#). The total quantity of the items/packages that could be counted via the totals variable is output at the top in the header.

If you do not have a group header or if the totals variable can no longer be used in a Version 27 report, the following approaches are possible:

- PreCalc() function (see the L&L manual in the Designer)
- Multi-pass processing ([Multi-Pass processing : Finally – a Glance in the Crystal Ball \(combit.blog\)](#))

Which procedure is right depends on the individual report. Newly revised report templates are available from Version 6.17. You can find information about further changes and new features in the List & Label Designer at <https://www.combit.com/>.

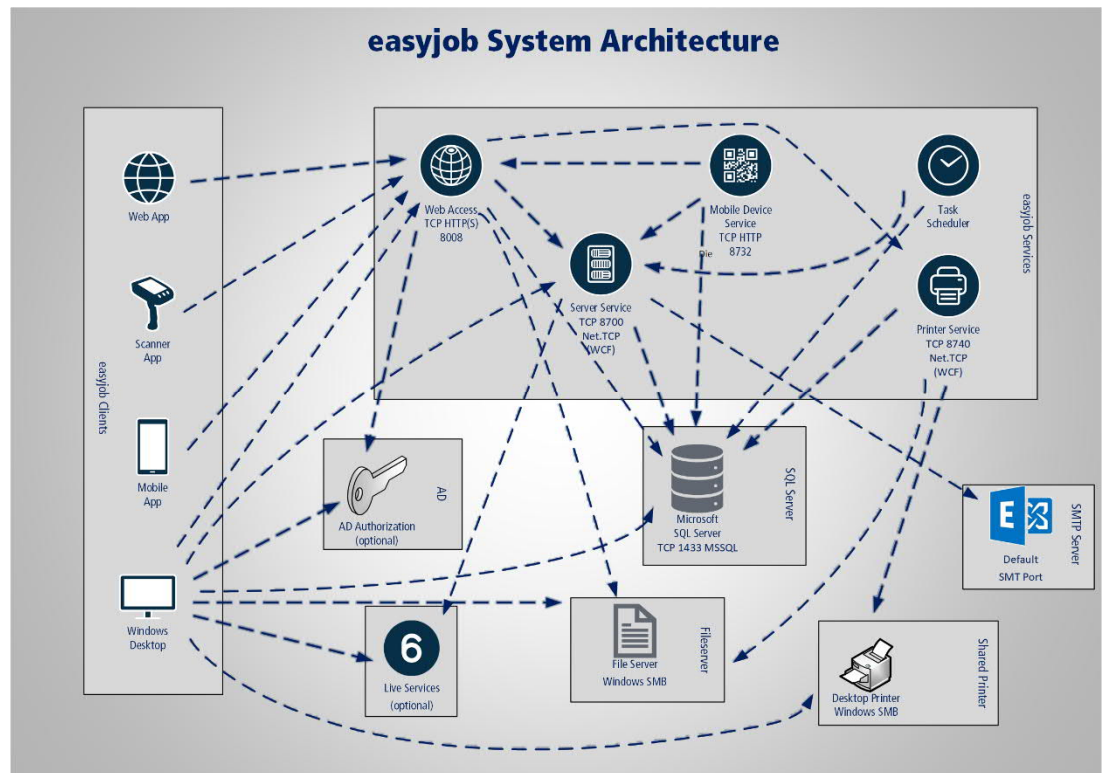
If you require support for the migration of the List & Label Designer Version, please contact our [Support](#).

OPERATION AND PROVISION

Information and assistance for the
operation and provision of easyjob.

easyjob system architecture

The easyjob system architecture is comprised of the easyjob Clients, easyjob Services as well as third-party services such as the Microsoft SQL Server.



easyjob Clients



easyjob Windows Desktop

The Windows Client with full functional scope can be virtualized on a local client or used as a remote desktop.

Necessary user context rights	<ul style="list-style-type: none"> - Read access to the easyjob program directory - Read access to the global data directory - Write permission for the global data directory (e.g. to add document attachments) - Temp write permission - Access to the printer
Provided network services (server)	<ul style="list-style-type: none"> - None
Utilized network services (client)	<ul style="list-style-type: none"> - SQL database - LDAP Authorization (if configured) - easyjob Server Service - easyjob Web Access - servicepoint.easyjob6.com (if errors should be sent or if a check for updates should be performed. Can be deactivated)



easyjob Mobile App

Provides mobile access to the most important easyjob functions. The app is available for IOS and Android.

Utilized network services (client)	- easyjob Web Access
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easyjob Web App

It provides mobile access to the most important easyjob functions via the web browser. All commonly used browsers are supported.

Utilized network services (client)	- easyjob Web Access
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easyjob Scanner App

It optimizes easyjob functionality for use with barcode scanners. The app is available for IOS and Android.

Utilized network services (client)	- easyjob Web Access
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easyjob Services



easyjob Server Service

It is the central communication interface between the individual easyjob components and takes over central tasks, such as the performance of workflows.

Necessary user context rights	<ul style="list-style-type: none"> - Read access to the easyjob program directory - Read access to the global data directory - Temp write permission - Run as service rights - TCP lists on configured port
Provided network services (server)	<ul style="list-style-type: none"> - Microsoft .net TCP (WCF). Standard port 8700, can be configured
Utilized network services (client)	<ul style="list-style-type: none"> - SQL database - servicepoint.easyjob6.com (if errors should be sent or if a check for updates should be performed. Can be deactivated) - SMTP (Optional) - EWS (Optional)



easyjob Web Access Service

Provision of HTTP(S) requests for access to easyjob data via JSON as well as provision of HTML applications.

Necessary user context rights	<ul style="list-style-type: none"> - Read access to the easyjob program directory - Read access to the global data directory - Write permission for the global data directory when document attachments should be added - Temp write permission - Run as service rights - TCP lists on configured port
Provided network services (server)	<ul style="list-style-type: none"> - TCP HTTP(S) Standard port 8008, can be configured
Utilized network services (client)	<ul style="list-style-type: none"> - SQL database - LDAP Authorization (if configured) - easyjob Server Service - easyjob Printer Service



easyjob Mobile Device Service

The service is still used on old barcode scanners due to compatibility reasons and should end in the future.

Necessary user context rights	<ul style="list-style-type: none"> - Read access to the easyjob program directory - Read access to the global data directory Temp write permission - Run as service rights - TCP lists on configured port
Provided network services (server)	<ul style="list-style-type: none"> - TCP HTTP(S) Standard port 8732, can be configured
Utilized network services (client)	<ul style="list-style-type: none"> - SQL database - easyjob Server Service - easyjob Web Access



easyjob Task Scheduler

This triggers the performance of recurring server tasks, such as synchronization with third-party services, maintenance tasks. etc.

Necessary user context rights	<ul style="list-style-type: none"> - Read access to the easyjob program directory - Read access to the global data directory - Write permission for the global data directory when document attachments should be added - Temp write permission - Run as service rights
Provided network services (server)	None
Utilized network services (client)	<ul style="list-style-type: none"> - SQL database - easyjob Server Service



easyjob Printer Service

Performance of printing processes if there is no user context. For example, for the generation of delivery notes via the barcode scanner or automatic reporting via the workflow engine.

Necessary user context rights	<ul style="list-style-type: none">- Read access to the easyjob program directory- Read access to the global data directory- Temp write permission- Run as service rights- Access to the utilized printer- TCP lists on configured port
Provided network services (server)	<ul style="list-style-type: none">- Microsoft .net TCP (WCF). Standard port 8740, can be configured
Utilized network services (client)	<ul style="list-style-type: none">- SQL database

Third-Party Services



Microsoft-SQL-Server

Access takes place via the standard Microsoft protocol. The TCP port can be configured on the SQL Server. Data communication can be encrypted.

Live Services (servicepoint.easyjob6.com)

The service point provides various (optional) live services via http(s):

- Sending program errors
- Checking for easyjob updates
- Activation of the license
- Geolocalization of addresses



Windows File and Printer Services

A standard Windows interface is used for document storage, report definitions, printing procedures, etc.



LDAP Authorization (Optional)

The authorization provided by easyjob can be used for authorization. Alternatively, authorization can take place via LDAP.



SMTP Service and EWS

Emails can be sent from the system via SMTP. Additionally, it is possible to synchronize appointments, tasks, etc. with EWS.