Digital Invoicing with EBICS

EBICS Forum Switzerland
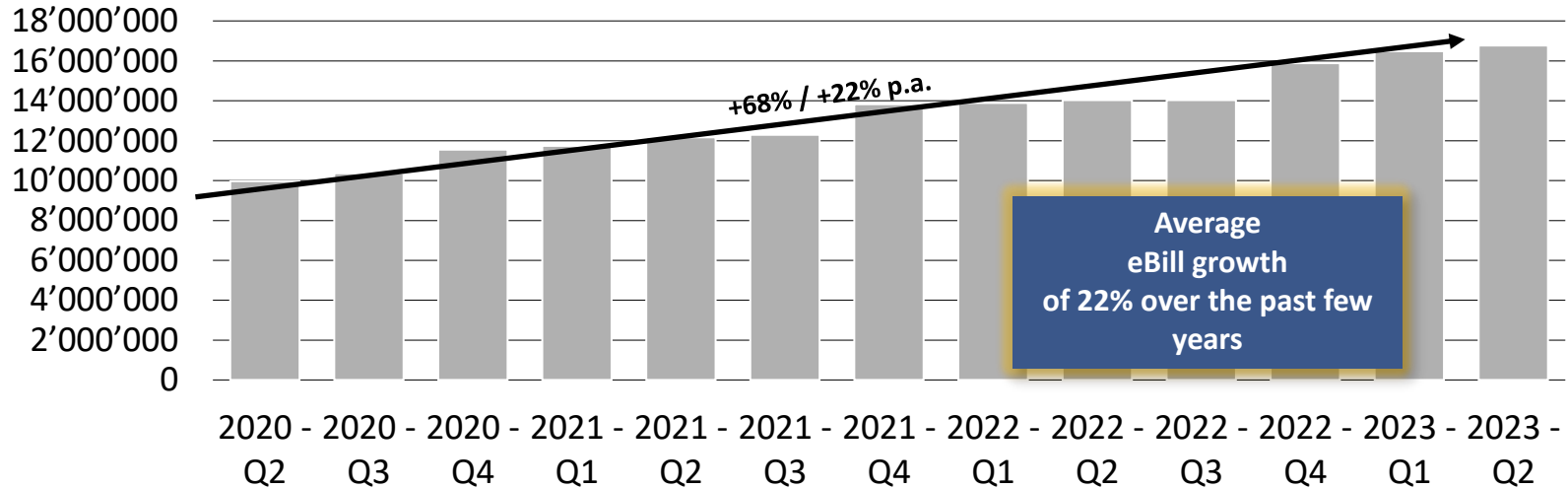
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Number of eBills per quarter

Number of eBills

+68% / +22% p.a.

Average
eBill growth
of 22% over the past few
years

2020 - Q2, 2020 - Q3, 2020 - Q4, 2021 - Q1, 2021 - Q2, 2021 - Q3, 2021 - Q4, 2022 - Q1, 2022 - Q2, 2022 - Q3, 2022 - Q4, 2023 - Q1, 2023 - Q2

UBS   **Digital invoicing is a growing need for customers in payment transactions**

Customer retention thanks to digital invoicing

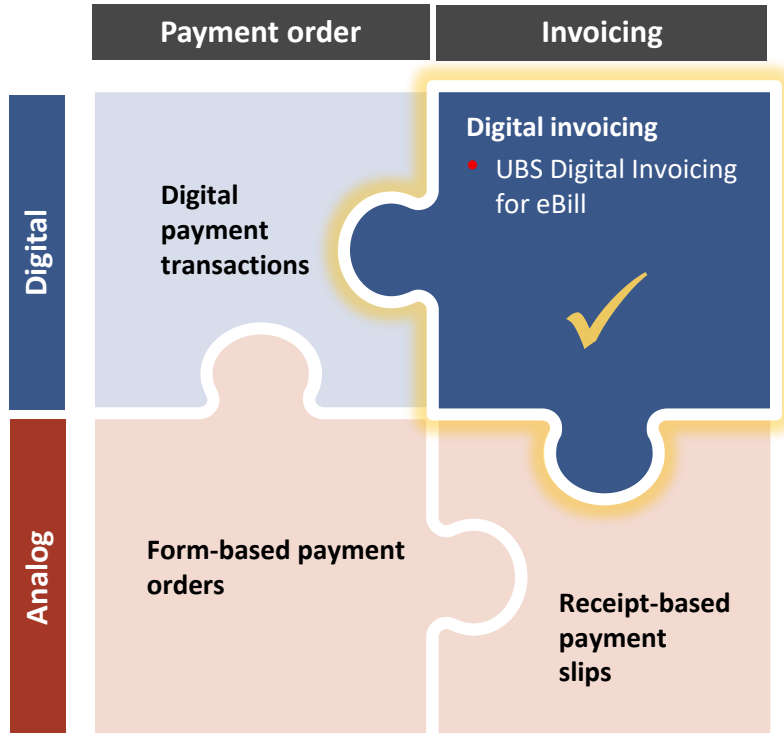Digital invoicing has become a **basic need**

Digital world
- Self-service by customer
- Automatic processing
- Quick settlement
- Few media disruptions
- Precise
- Efficient and affordable
- Sustainable

Receipt-based world
- Paper-based
- Manual work steps
- Slow settlement
- Many media disruptions
- Possibility of errors
- Complex and expensive
- Not sustainable

	Payment order	Invoicing
Digital	Digital payment transactions	**Digital invoicing** • UBS Digital Invoicing for eBill ✓
Analog	Form-based payment orders	Receipt-based payment slips

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Starting point - interfaces for data exchange

SFTP (Secure File Transfer Protocol)

An SFTP protocol is a network protocol used to send and receive encrypted files to/from remote systems. With SFTP, you can securely exchange electronic invoices and other files with UBS Digital Invoicing.

General information about the channel:

Characteristic	Scope
More information	ubs.com/digital-invoicing Setting up the Digital Invoicing Portal
Recommended for	All company sizes
Processing	Collective processing of invoices
Supported formats	All UBS Digital Invoicing formats
Report	SFTP

REST API - JSON

A REST API is a set of rules and conventions for creating and interacting with web services over the Internet. UBS Digital Invoicing's REST API supports the submission of electronic invoices and payment advices.

General information about the channel:

Characteristic	Scope
More information	ubs.com/digital-invoicing UBS eBill Invoice – REST API
Recommended for	All company sizes, e-commerce shops
Processing	Individual processing of invoices
Supported formats	Submission of electronic invoices and notifications
Report	REST API - JSON

🎗 UBS

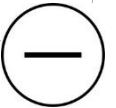# Starting point - interfaces for data exchange

SFTP

Pros

- Relatively simple setup (username/password)
- Common interface
- Flexible use cases for data exchange

$+$
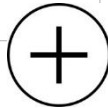
Cons

- From the bank's point of view, the security requirements for the transfer of customer data and invoices are too low (FINMA regulation)
- Authentication using certificates is more secure but more complex than basic authentication
- Encryption of ZIP containers causes problems for invoice issuers

$-$

UBS

Requirements from customers in cash management

Payment transactions are a basic need of customers and a core issue for banks

Digital bank documents enable customers to process their bank documents sustainably and efficiently

Efficient management of payment transactions is essential

Payments

Reporting

EBICS

Electronic documents

Direct debits

Securities

Optimization of cash flows by means of direct debits

Securities reporting enables efficient management of assets

UBS

Requirements from customers in cash management

- Digital invoicing ideally complements existing cash management needs

- Digital bank documents enable customers to process their bank documents sustainably and efficiently

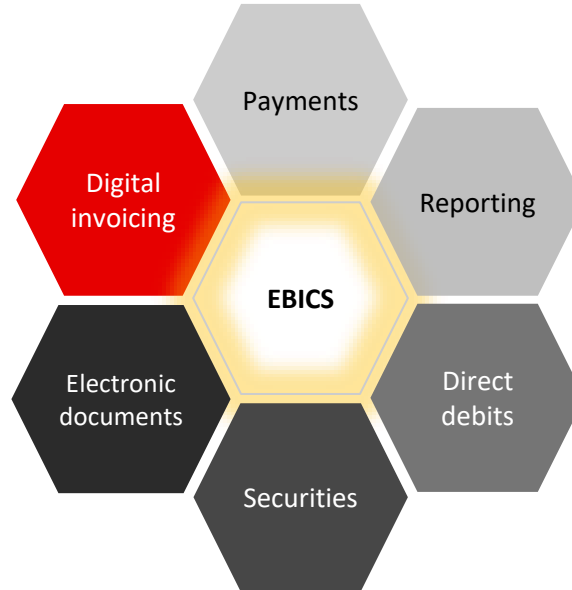- Securities reporting enables efficient management of assets

- Payment transactions are a basic need of customers and a core issue for banks

- Efficient management of payment transactions is essential

- Optimization of cash flows by means of direct debits

Payments

Digital invoicing

Reporting

EBICS

Electronic documents

Direct debits

Securities

UBS

Interfaces for data exchange

EBICS

Pros

- Secure and common interface for customer–bank services, especially payment transactions and reporting
- Standardized setup using EBICS protocol
- Flexible use cases for data exchange
- Secure authentication of invoice issuers through EBICS initialization
- Flexible rights management (E/A/B/T) including VEU possible
- Standardized logging of orders
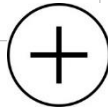
Cons

- EBICS software required, if not already in use
- Initial setup more time-consuming due to higher security (but similar or even more time-consuming for SFTP/API with certificates)
- Order types currently not yet widely supported by standard software

❖ UBS
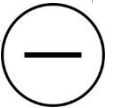
Digital invoicing via EBICS

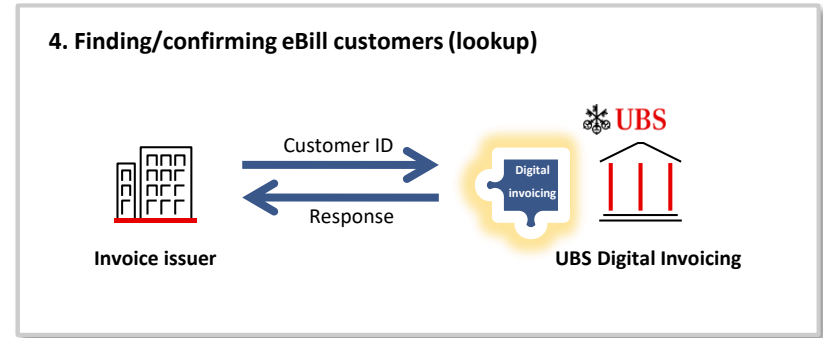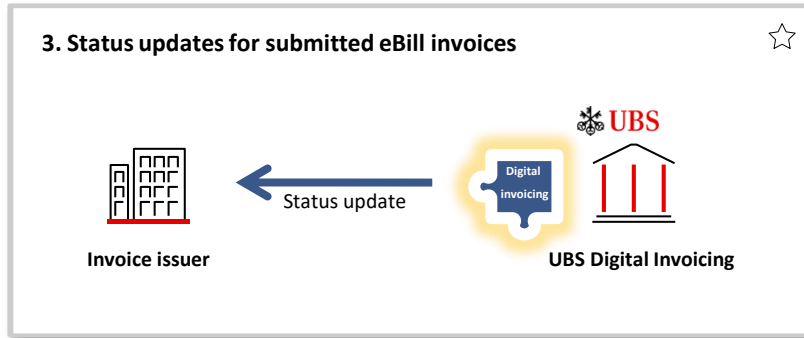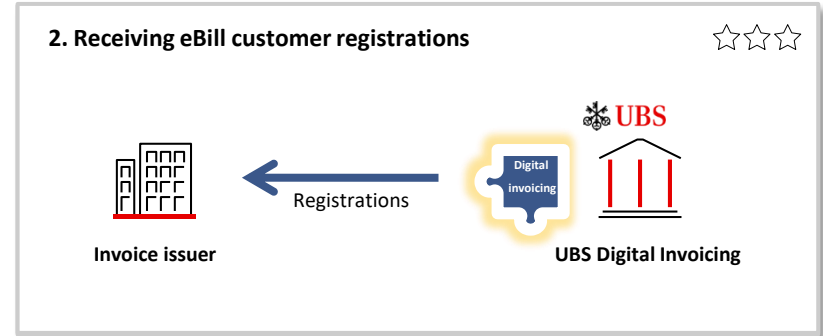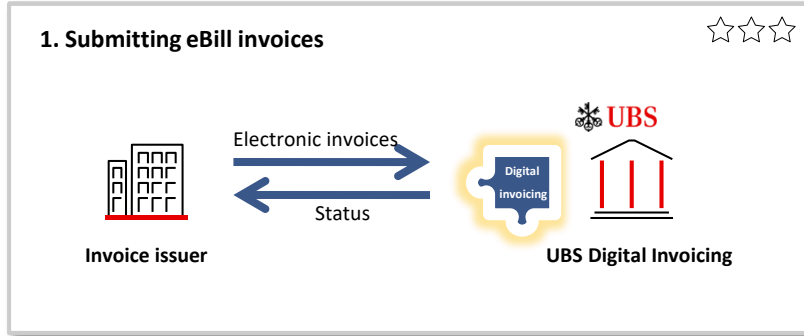Bank customer wants connection via UBS KeyPort (EBICS) also for digital invoicing service

Advantages:

- Simple: Customer can use their existing EBICS contract
- Standardized: Fast set-up thanks to EBICS standard
- Efficient: One interface between the customer and the bank for many use cases
- Secure: Data transmission is protected via EBICS (compliant with bank secrecy)
- Controlled: Flexible user permissions including VEU
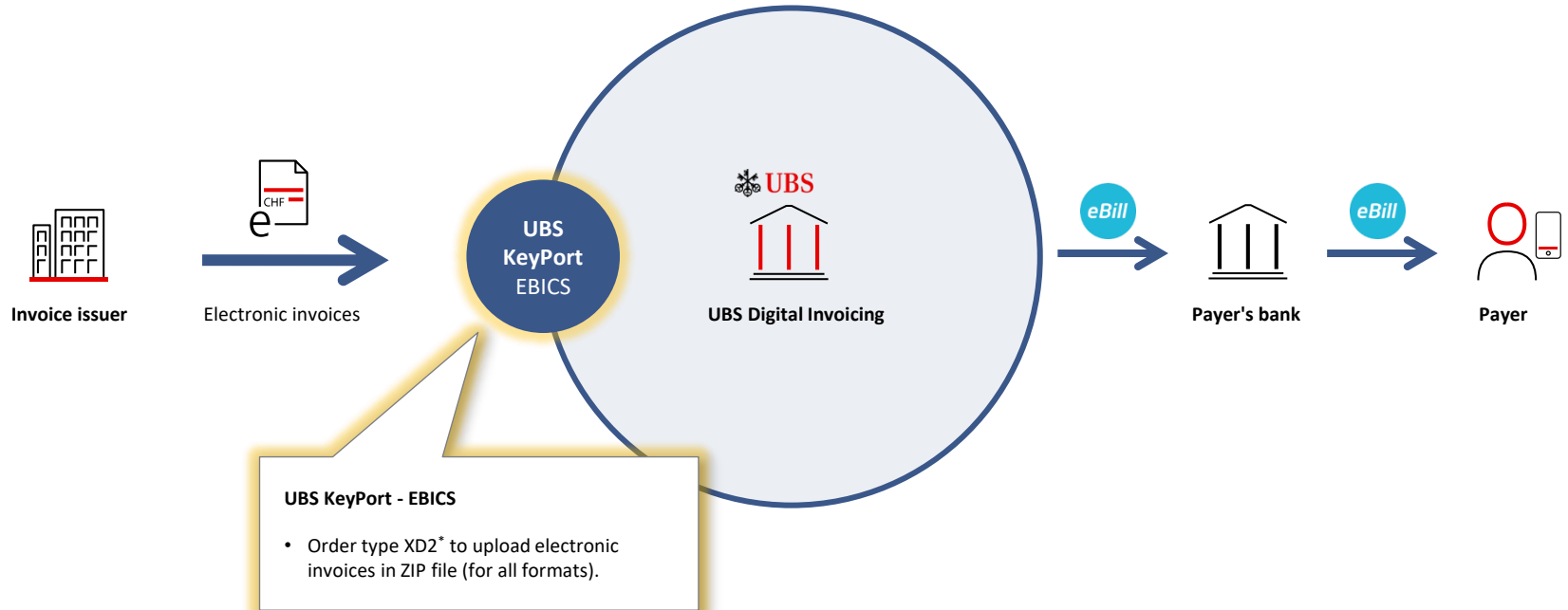- Clear: Processing status at a glance at all times

%UBS

eBill use cases

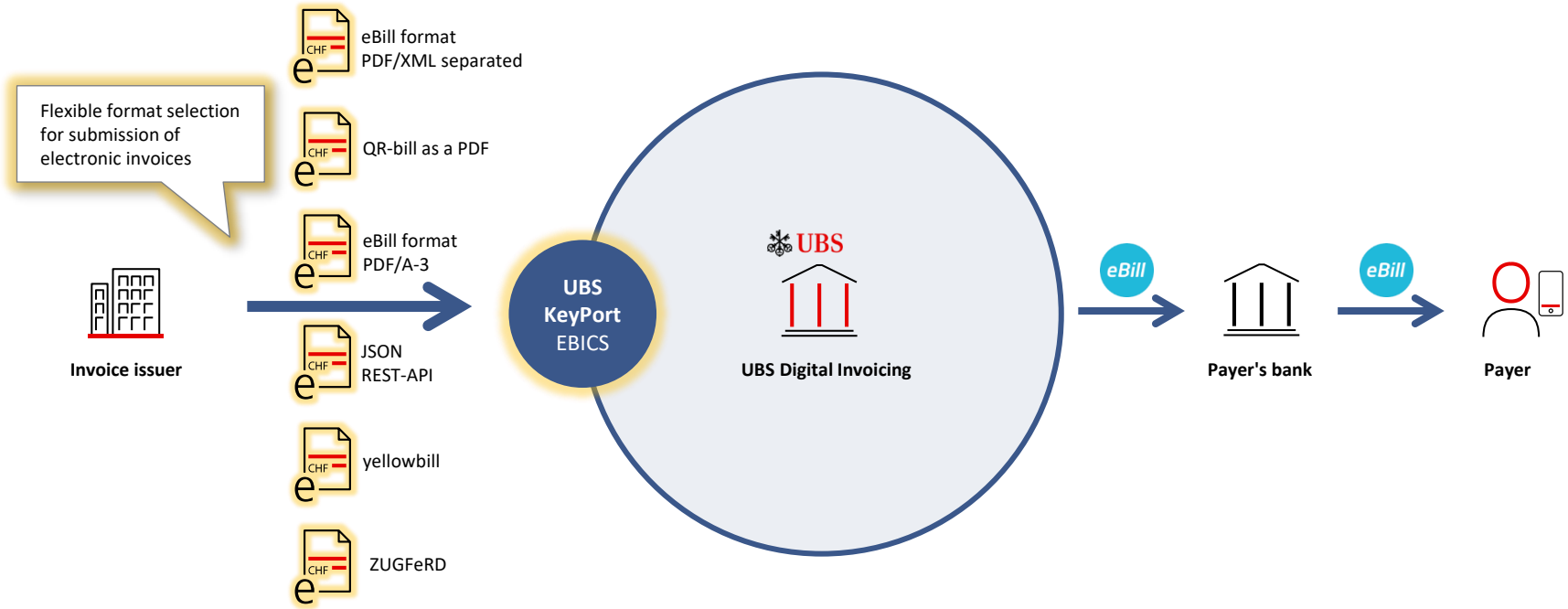eBill use cases supported by UBS Digital Invoicing

1. Submitting eBill invoices ☆☆☆

Electronic invoices

Status

Invoice issuer → Digital invoicing → **UBS** → **UBS Digital Invoicing**

2. Receiving eBill customer registrations ☆☆☆

Registrations

Invoice issuer ← Digital invoicing → **UBS** → **UBS Digital Invoicing**

3. Status updates for submitted eBill invoices ☆

Status update

Invoice issuer ← Digital invoicing → **UBS** → **UBS Digital Invoicing**

4. Finding/confirming eBill customers (lookup)

Customer ID

Response

Invoice issuer → Digital invoicing → **UBS** → **UBS Digital Invoicing**

☆☆☆ = necessary use case for invoice issuer   ☆ = recommended use case for invoice issuer

Channels for sending electronic invoices

Flexible channel selection for upload in detail

Invoice issuer

Electronic invoices

UBS KeyPort EBICS

UBS Digital Invoicing

eBill

Payer's bank

eBill

Payer

UBS KeyPort - EBICS

- Order type XD2* to upload electronic invoices in ZIP file (for all formats).

* or corresponding EBICS 3.0 parameters

One order type for all formats

Flexible format delivery under one order type

eBill format
PDF/XML separated

QR-bill as a PDF

eBill format
PDF/A-3

JSON
REST-API

yellowbill

ZUGFeRD

Flexible format selection for submission of electronic invoices

Invoice issuer

UBS
KeyPort
EBICS

UBS

UBS Digital Invoicing

eBill

Payer's bank

eBill

Payer

UBS

Channels for collecting customer registrations and status updates

Flexible channel selection for download in detail

UBS KeyPort - EBICS

- Order type ZD2* for status report for uploaded ZIP file
- Order type ZD3* for eBill customer registrations
- Order type ZD4* for status update for submitted eBill invoices

Invoice issuer

Registrations and status updates

UBS KeyPort EBICS

UBS

UBS Digital Invoicing

Registrations and status updates

Actions

Payer's bank

Payer

UBS

* or corresponding EBICS 3.0 parameters

Summary: Connection via EBICS

EBICS order types

Business transaction	EBICS 2.x (order type)	EBICS 3.0 (BTF)						
		Direction	Service name	Scope	Option	Container	Message name	Version
Upload electronic invoices in ZIP file (all formats)	XD2	BTU	INV	BIL	CH003XD2	ZIP	inv.file	
Status report for uploaded ZIP file	ZD2	BTD	INV	BIL	CH003ZD2	ZIP	inv.rep	
eBill customer registrations	ZD3	BTD	INV	BIL	CH003ZD3	ZIP	reg.status	
Status updates for submitted eBill invoices	ZD4	BTD	INV	BIL	CH003ZD4	ZIP	inv.status	

Standardization of BTF and order types targeted in the Swiss market

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More information

UBS Digital Invoicing | UBS KeyPort
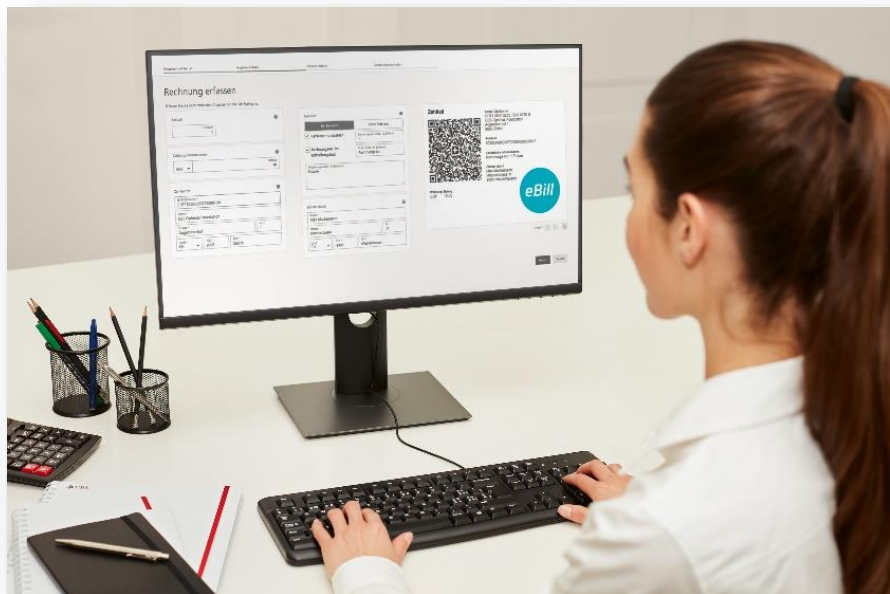
ubs.com/keyport

ubs.com/ebics

ubs.com/digital-invoicing

UBS

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Q&A

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