



## ***biz<sup>2</sup>ScanServer***

### ***Content Processing Server for SAP***

- *Batch Processing of Scans, eMails, Files, IDOCs*
- *Bar-/Patchcode Separation*
- *OCR/ICR*
- *Verification with SAP Master Data*
- *Filing in SAP Archive*
- *Initiation of SAP Workflow*

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The biz<sup>2</sup>ScanServer for SAP is a bulk processing server for incoming content in SAP  
biz<sup>2</sup>ScanServer supports several input channels: scans, directories, emails, IDOCs, XML, fax...

An internal process sequence control is a functionality of the biz<sup>2</sup>ScanServer that can be configured according to the application scenario

Different modules are integrated in the operating process also according to the application scenario:

- Image processing
- Converting
- Barcode Reader
- OCR/ICR for different document types (full text, data extraction, free-form)
- SAP communication (multitenant, master data, filing/archiving in SAP, workflow)

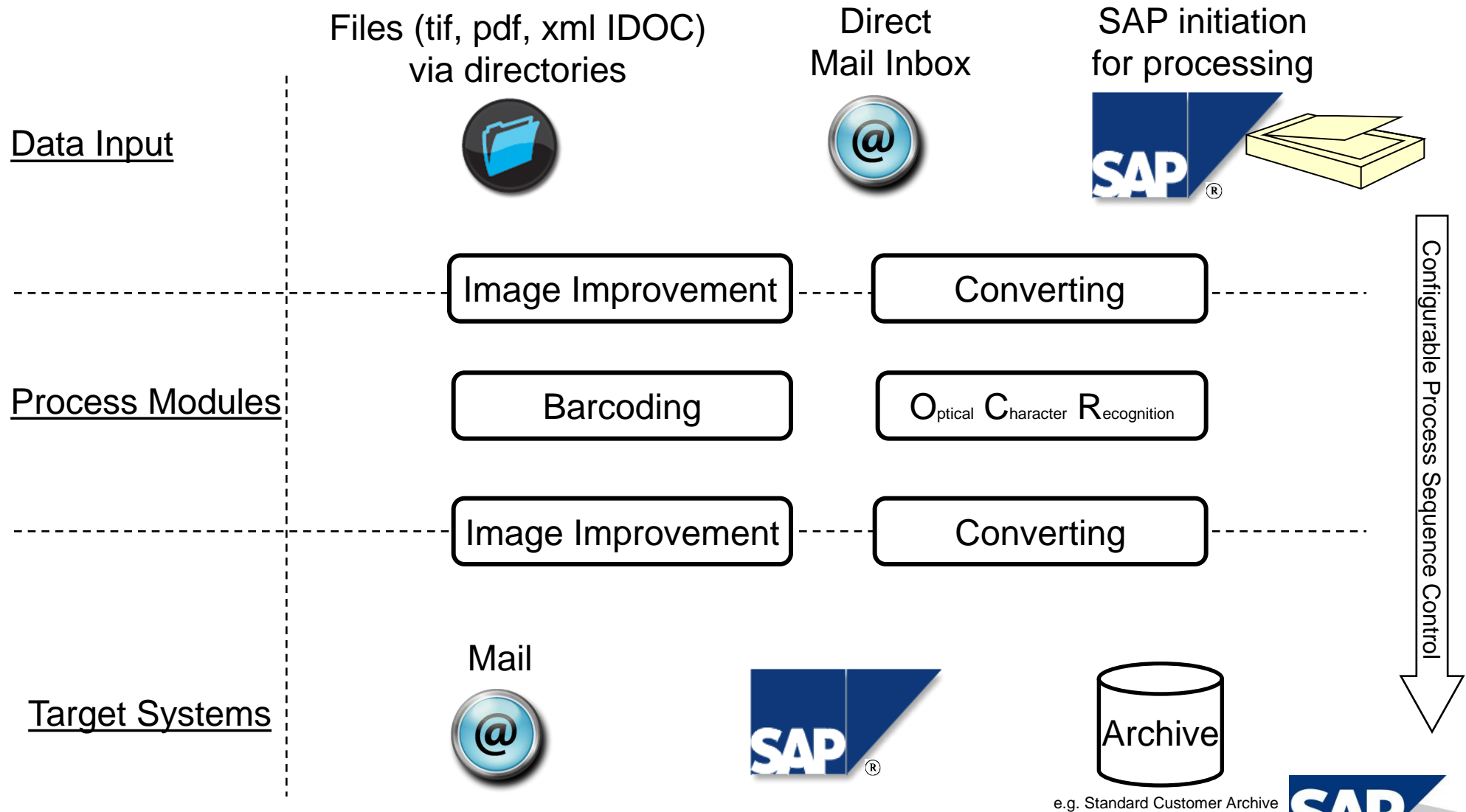
No own data management is needed – all data are SAP data

### **Examples for application scenarios of the biz<sup>2</sup>ScanServer:**

- Mass scanning of incoming paper documents, for example invoices (with barcode) for SAP – „late“ archiving
- Adoption of personnel record (incl. barcode (identification) and patchcodes (for customizing the document types)); purposed is digital archiving (eRecord) within SAP-HR
- Processing of email with attachments; purposed is their direct assignment followed by their filing/archiving in SAP
- Automated invoice processing (incl. OCR/ICR), master data verification, initiation of SAP workflow, SAP filing/archiving
- Bulk processing of paper documents (e.g. reading cards/templates) followed by triggering of processes in SAP
- Inbox scenarios – separating of mail units, initiation of SAP workflow, as well as further separation based on the document types in SAP
- ...

## **Examples for application scenarios of the biz<sup>2</sup>ScanServer:**

- Integration of multi-function scanning devices (scan-to-file, scan-to-email)
- Automated linkage between SAP orders and order confirmations
- Initiation of qualified approval processes as a result of the read-out values in the documents (incl. specific master data validation)
- SAP scenario - „early“ archiving incl. ad-hoc SAP workflow which serves the purpose to inform the SAP user in charge
- Processing of IDOCS / XMLs – SAP workflow integration etc.
- ...and much more



## Directories



- Files (tif, pdf, xml, fax, IDOC)
- File access patterns are free to define
- SAP system/client matching
- Initiation of SAP workflows immediate after data input
- Workflows are assignable
- Special directory for the email files processing (.eml)

```
<pollserver name="IE5_800_HR_TIF" extension=".tif"
  poll_dir="FilePollDir\IE5\800\HR" state="On">
  <DefaultLogin>
    <default name="sapsystem" value="IE5" />
    <default name="mandt" value="800" />
    <default name="user" value="scanservuser" />
    <default name="language" value="DE" />
  </DefaultLogin>
  <!-- service-specific default: infos for sequences -->
  <DefaultSeqInfos>
    <default name="type" value="" />
    <default name="subtype" value="HR" />
    <default name="command" value="SEP_BC_PC" />
  </DefaultSeqInfos>
</pollserver >
```

## Mail



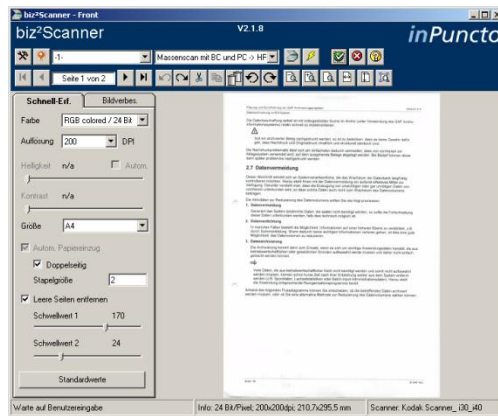
- Integration of multi-function scanning devices
- Process sequence control initiates register entries as well
- Workflow assignment according to the receiver address
- Images supposed for processing (Scans) in the mail attachments
- Authorisation functionality for the mail sender

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-	-	SYP01	.CL010	.STFI	.COSEP_BC_OCR	@	biz2ScanServer.Firma.de
<b>SYP01.CL010.STFI.COSEP_BC_OCR@biz2ScanServer.Firma.de</b>							

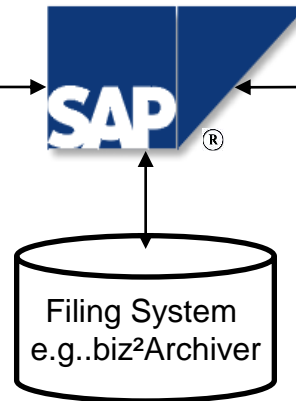
## SAP initiation for processing



### biz²Scanner

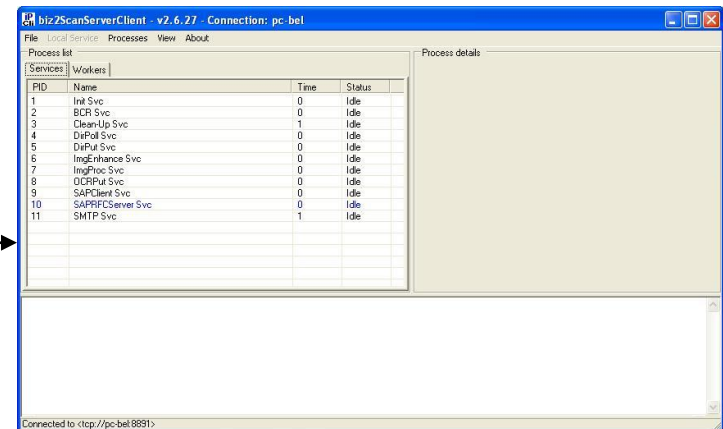


Mass scanning



Temporary/permanent filing/archiving

### biz²ScanServer



Bulk processing, master data validation, SAP-directed results (workflow, archive)

## **Converting/Image Improvement**

- Integration of a new image processing library involves imaging improvement and document clean-up
- Converting of the input document formats (jpg, pdf, etc.)
- Data preparation
  - Removing of automatically generated lines by the fax-/scanning devices
  - Colour reduction
  - Scan resolution reduction
- Target format converting (jpg, pdf, etc.)

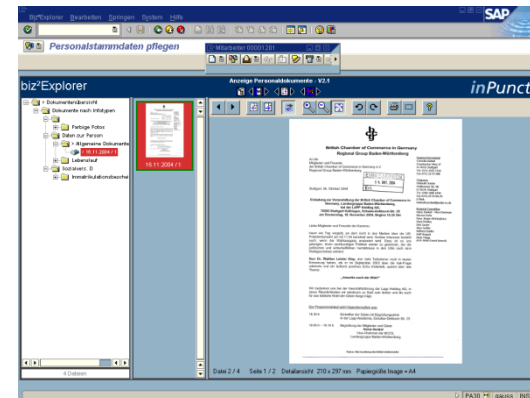
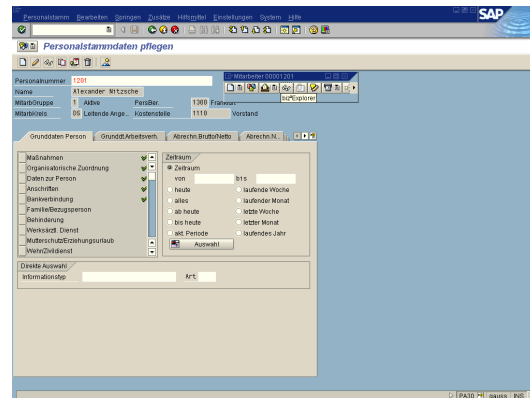
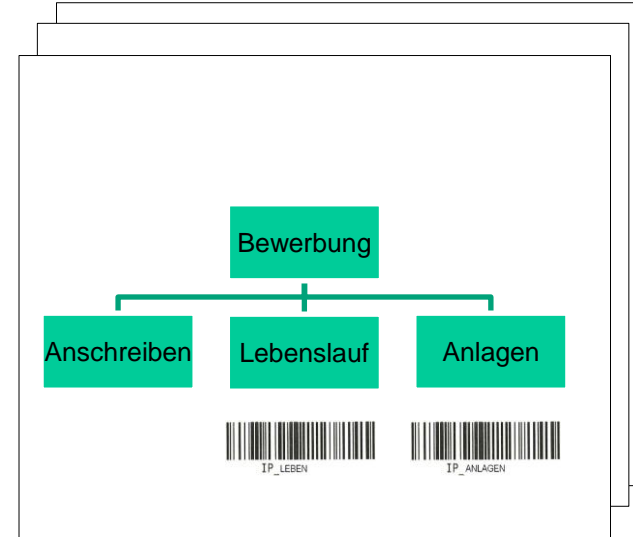
## BCR

- Barcode
  - Separation of particular documents in the scanned pile
  - Barcode body design drives the document processing
  - Barcode body design initiates the diverse SAP processes
- Patchcode
  - Customizing of document types
  - Recognition, arrangement of partial documents in groups, mapping with SAP document types
- Barcodes/Patchcodes
  - Barcode corresponding to a SAP receipt
  - Driving the SAP function modules



## BCR on the example of SAP-HR

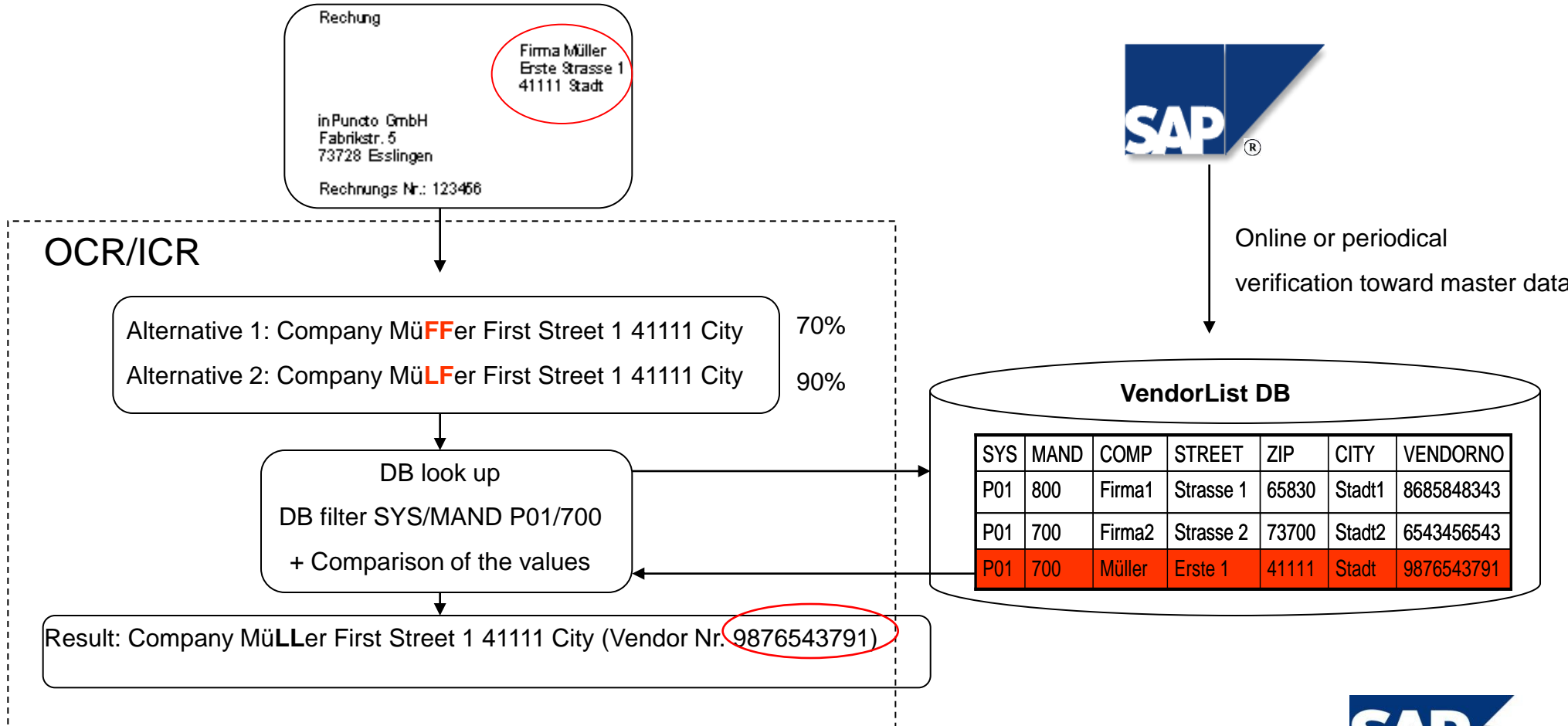
- Barcode separation of (already scanned in a pile) job applications
- Assignment of the diverse document classes via patchcodes
- Additional control functionality for the document separation, e.g. inserting a new page in a targeted batch etc.





## SAP master data module

Automated verification of the OCR/ICR results to the available SAP master data



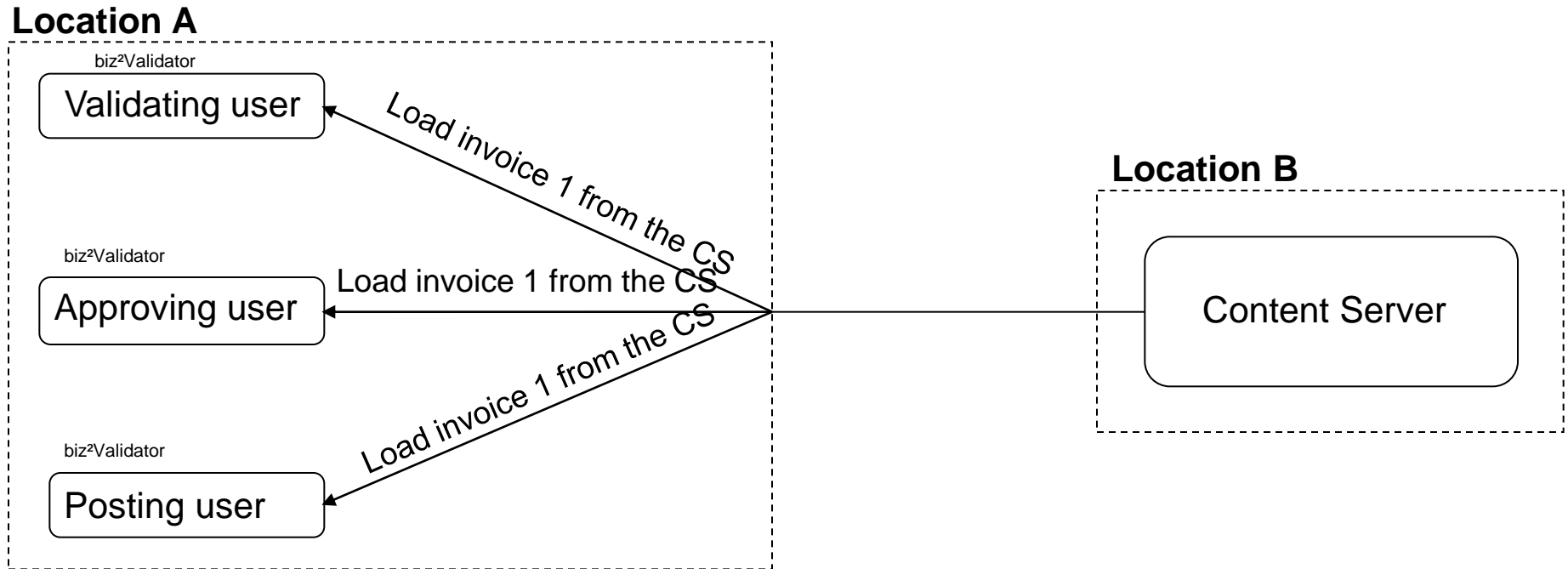
## **Administration/Availability**

- Virtual machines can be applied
- Load-balancing/FailOver supported when more than one biz<sup>2</sup>ScanServers are installed on different servers
- Persistent data saving for a single working process. Started and interrupted processes are continued from the last check point
- Administrative process information delivered via email
- Traces / Logs / Job-History

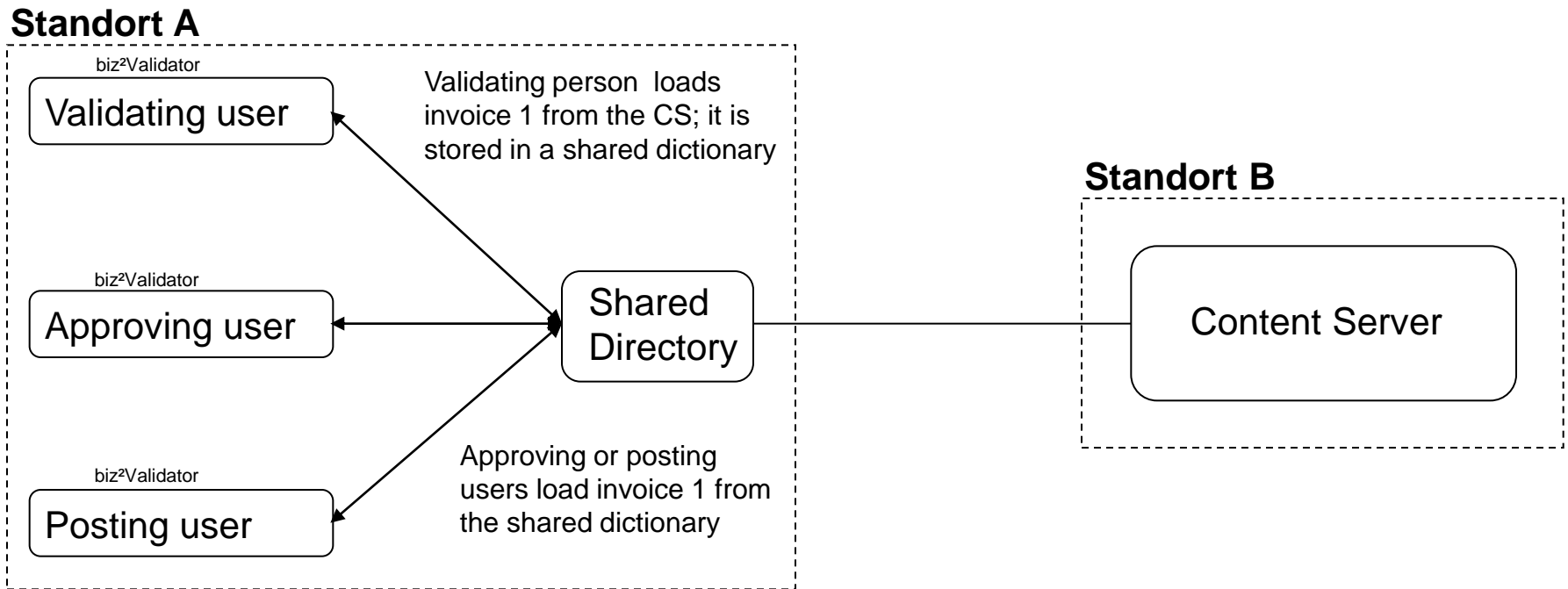
## **Problematic network status -> Solution via FileCaching**

- The required data is stored in an archive or content server that is hardly linked to the network
- Content server is located by the provider, connection  $\leq 2$  Megabit line
- Generally only restricted band width available
- Network-traffic is dangerously overwhelming
- For completing of many working steps, one or several SAP users require the same images (e.g. invoices etc.) repeatedly
- Some image files can have considerable sizes; these images oversize the typical transferred data volumes in SAP
- => these trouble-shootings are solved via the iP File Caching!

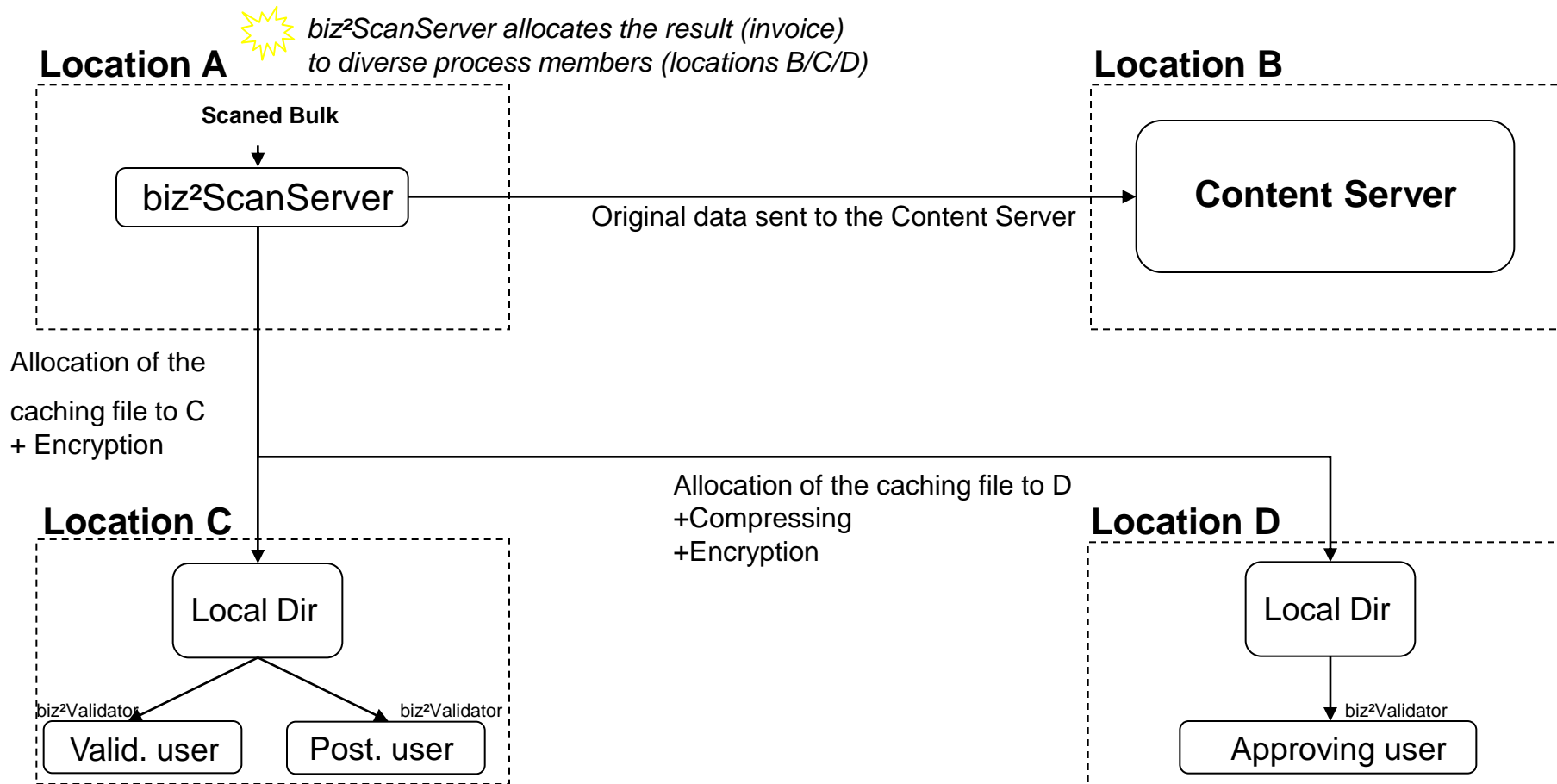
### Example 1: Network status by automated invoice processing (without Caching)



## Example 2: Network status by automated invoice processing (with Caching)

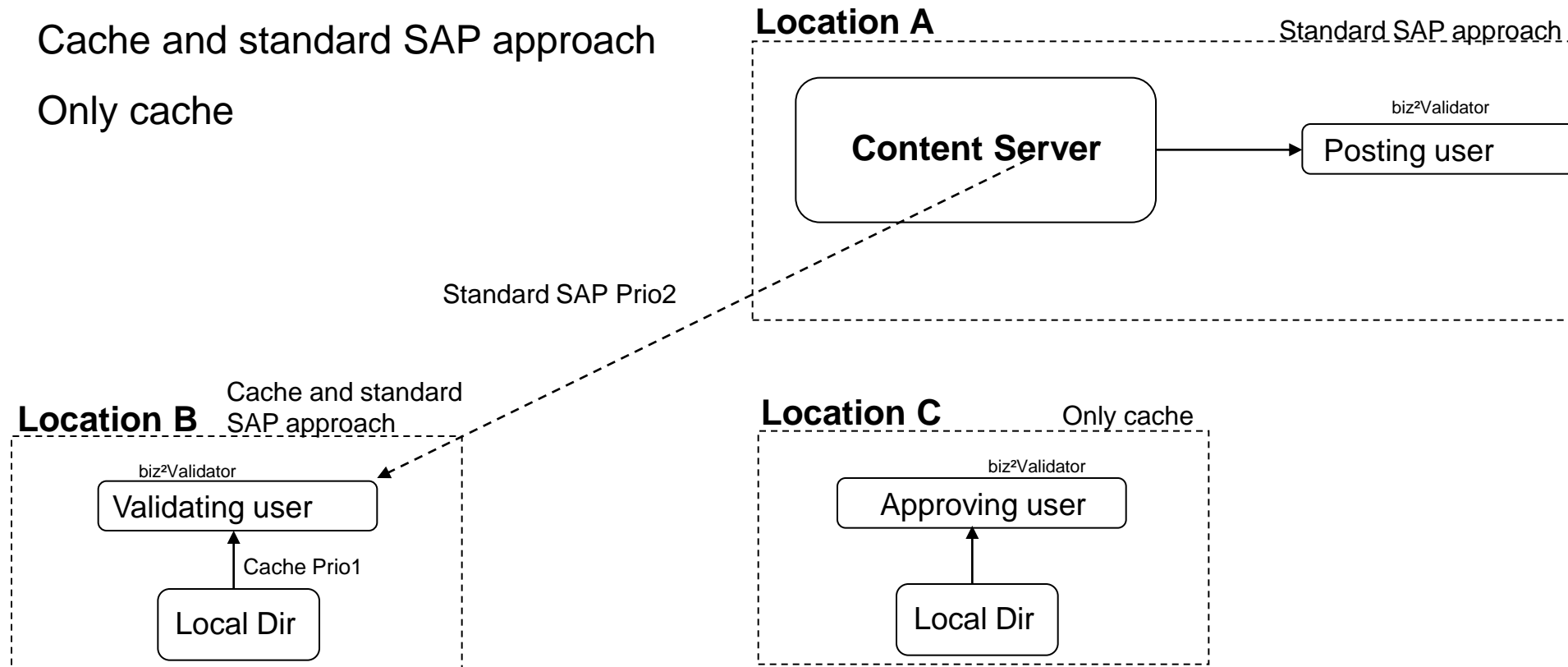


## Example 3: Network Status by Automated Invoice Processing (with Caching)



## Realisation of diverse caching strategies

- Standard SAP approach
- Cache and standard SAP approach
- Only cache



## **Caching Facts**

- Optimal support for various network statuses and working process configurations
- Flexible data feeding to potential process participants
- It runs in the background, timed-controlled automated clean up of the data
- Encryption of the security relevant data via AES (Advanced Encryption Standard)
- Caching data are also compressible

Thank you very much for your attention!



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