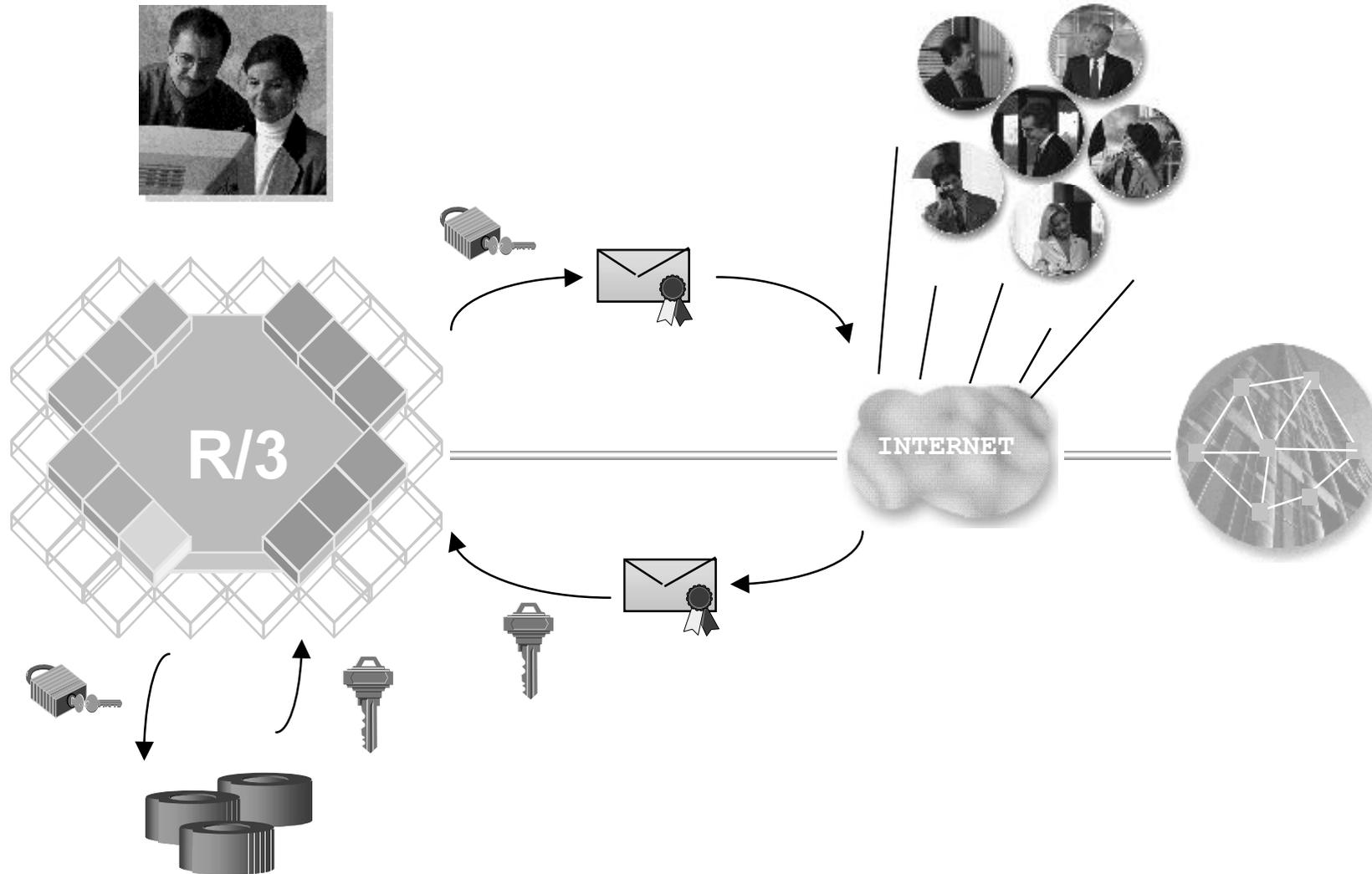
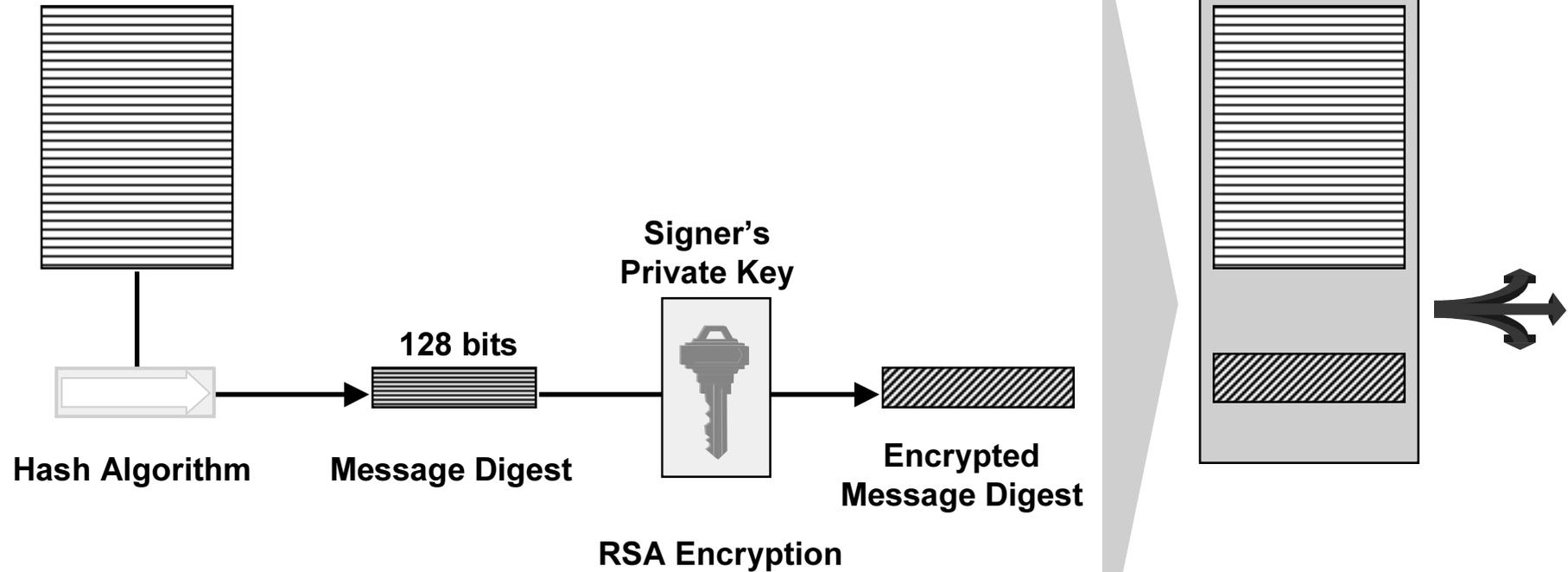


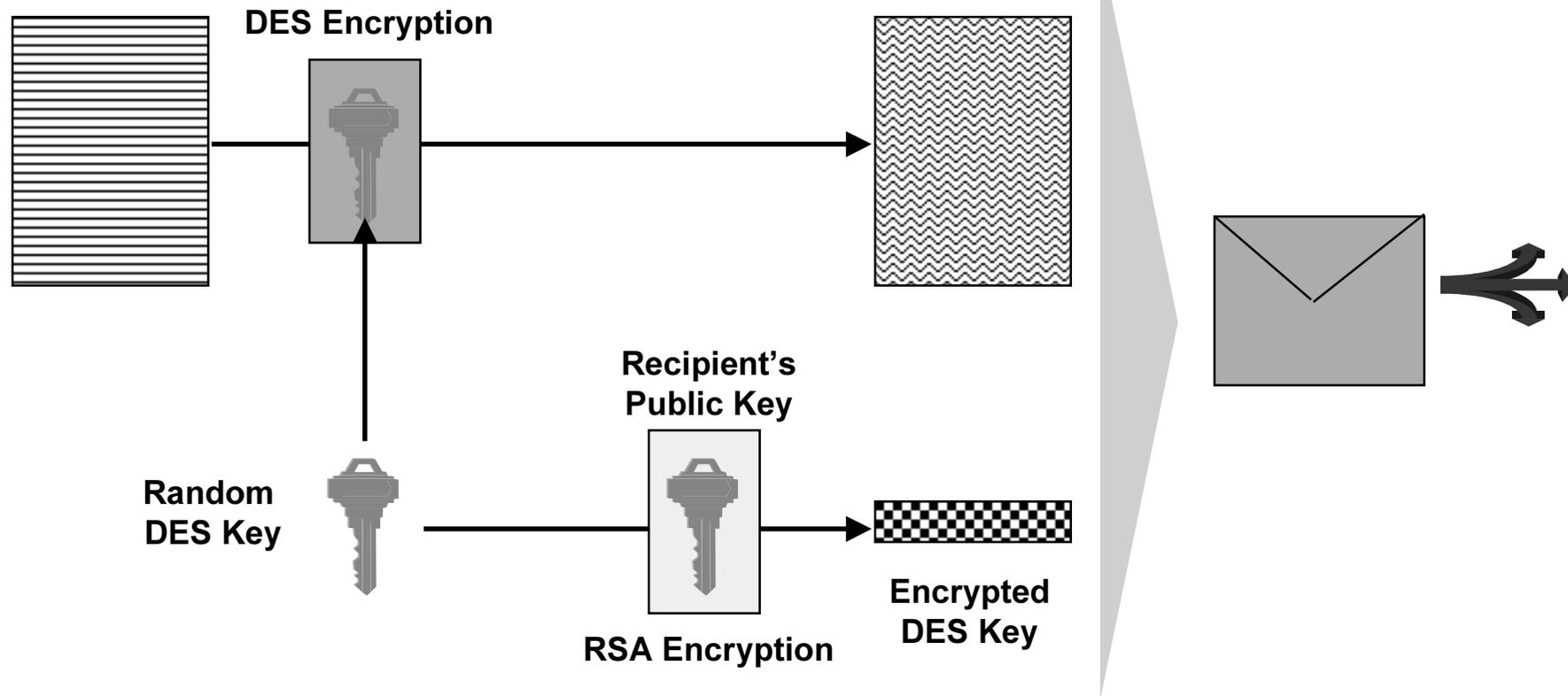
Secure Store & Forward (SSF)

SAP





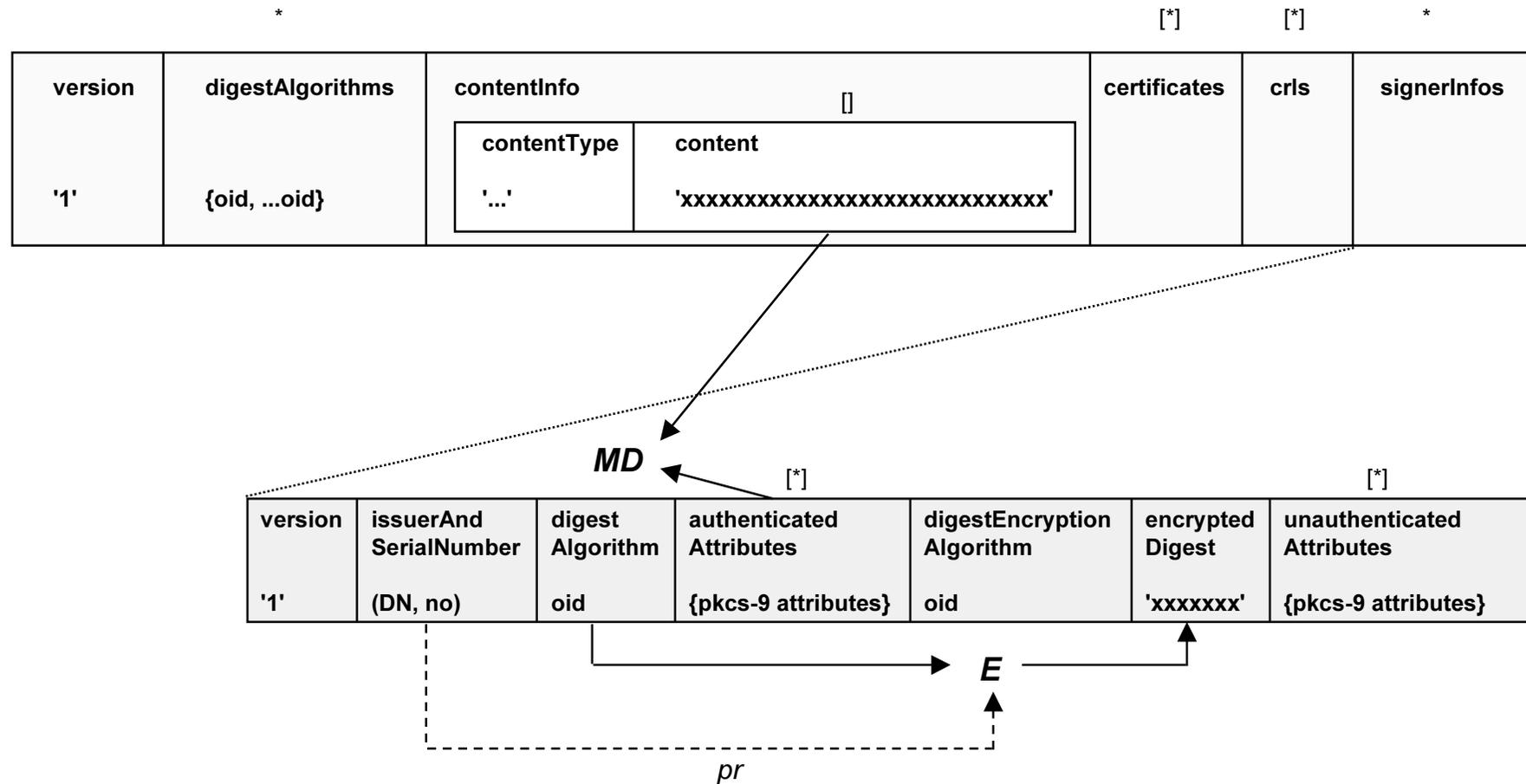
➔ provides data integrity, authentication, non-repudiation



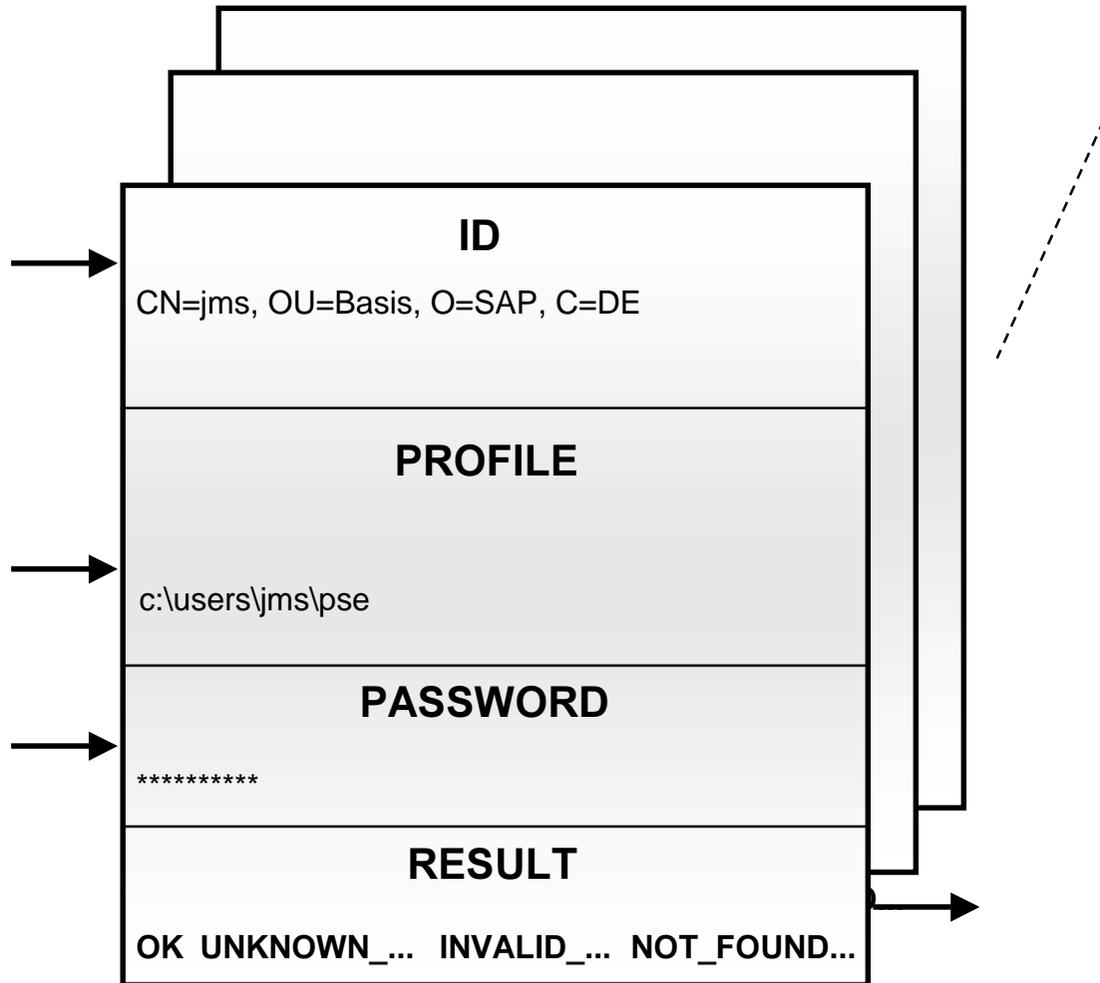
➔ provides privacy (confidentiality)

- **Data**
- **SignedData**
- **EnvelopedData**
- **DigestedData**

PKCS#7 "Signed-data"



- **SsfEncode**
- **SsfSign**
- **SsfEnvelope**
- **SsfAddSign**
- **SsfVersion**
- **SsfDecode**
- **SsfVerify**
- **SsfDevelope**
- **SsfDigest**
- **SsfProperty**



- **SSF_SIGN** create digital signature(s)
- **SSF_VERIFY** verify digital signature(s)
- **SSF_ENVELOPE** encrypt for recipient(s)
- **SSF_DEVELOPE** decrypt for recipient
- **SSF_ADDSIGN** add a digital signature

- **SSF_KRN_...** done directly by the AS

call function 'SSF_SIGN'

exporting

ssf_dest = 'SAP_SSFATGUI'

str_format = 'PKCS7'

b_inc_certs = '' (or 'X')

b_detached = '' (or 'X')

ostr_input_data_l = ...

importing

ostr_signed_data_l = ...

tables

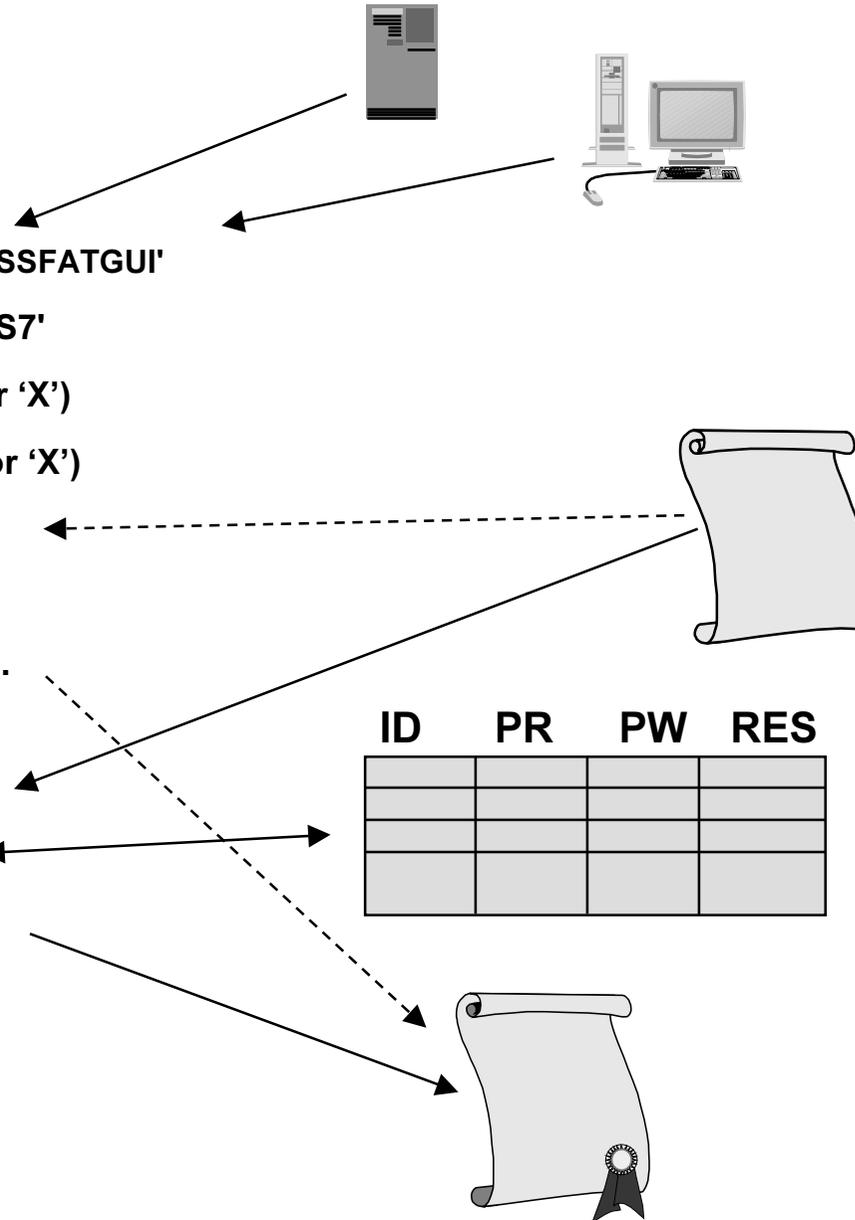
ostr_input_data = ...

signer_list = ...

ostr_signed_data = ...

exceptions

...



call function 'SSF_VERIFY'

exporting

ssf_dest = 'SAP_SSFATGUI'
 str_format = 'PKCS7'
 b_inc_certs = '' (or 'X')
 ostr_signed_data_l = ...
 str_pab = ...
 str_pab_password = ...

importing

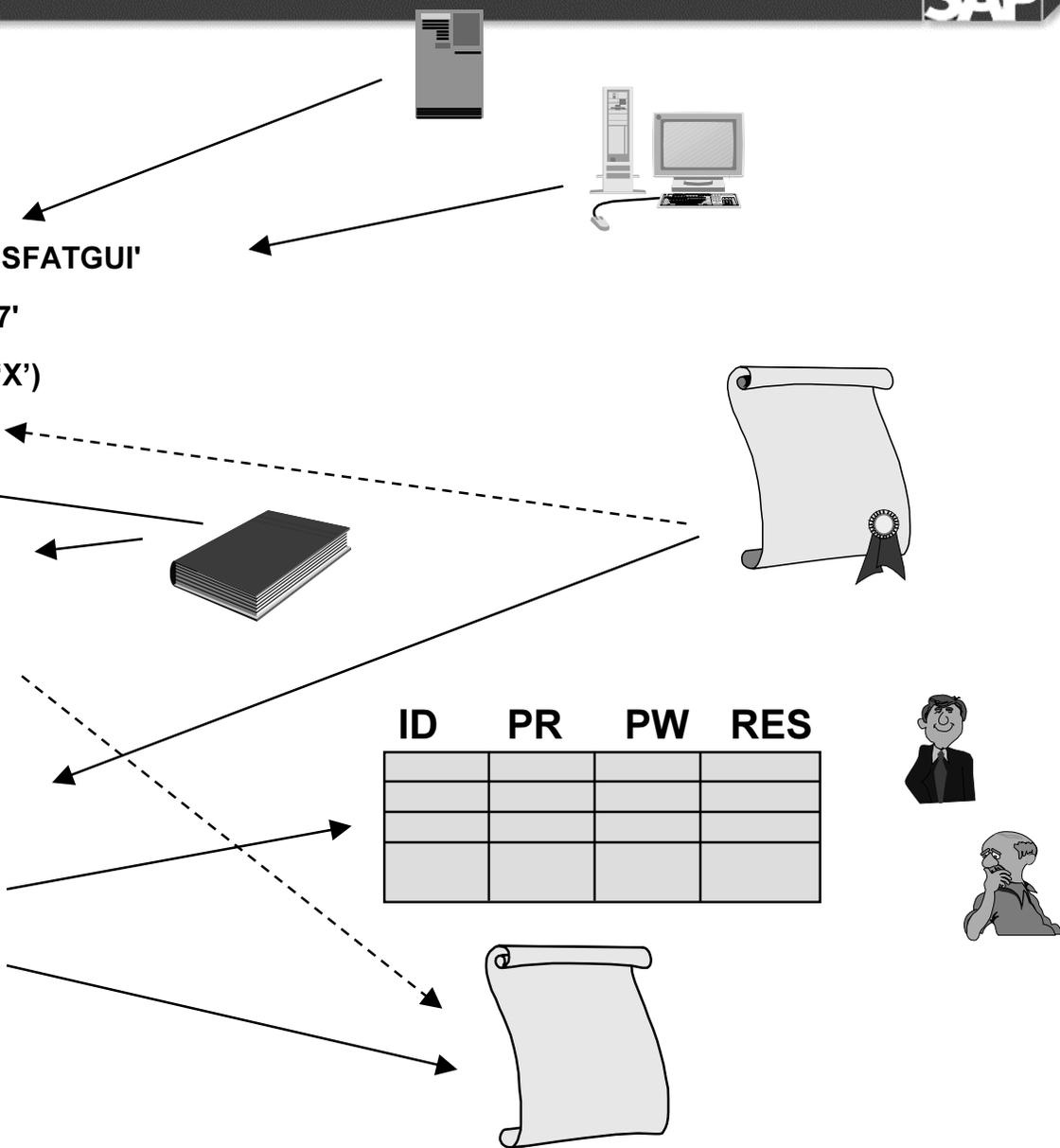
ostr_output_data_l = ...

tables

ostr_signed_data = ...
 ostr_input_data = ...
 signer_result_list = ...
 ostr_output_data = ...

exceptions

...



ID	PR	PW	RES

call function 'SSF_ENVELOPE'

exporting

ssf_dest = 'SAP_SSFATGUI'
str_format = 'PKCS7'
ostr_input_data_l = ...
str_pab = ...
str_pab_password = ...

importing

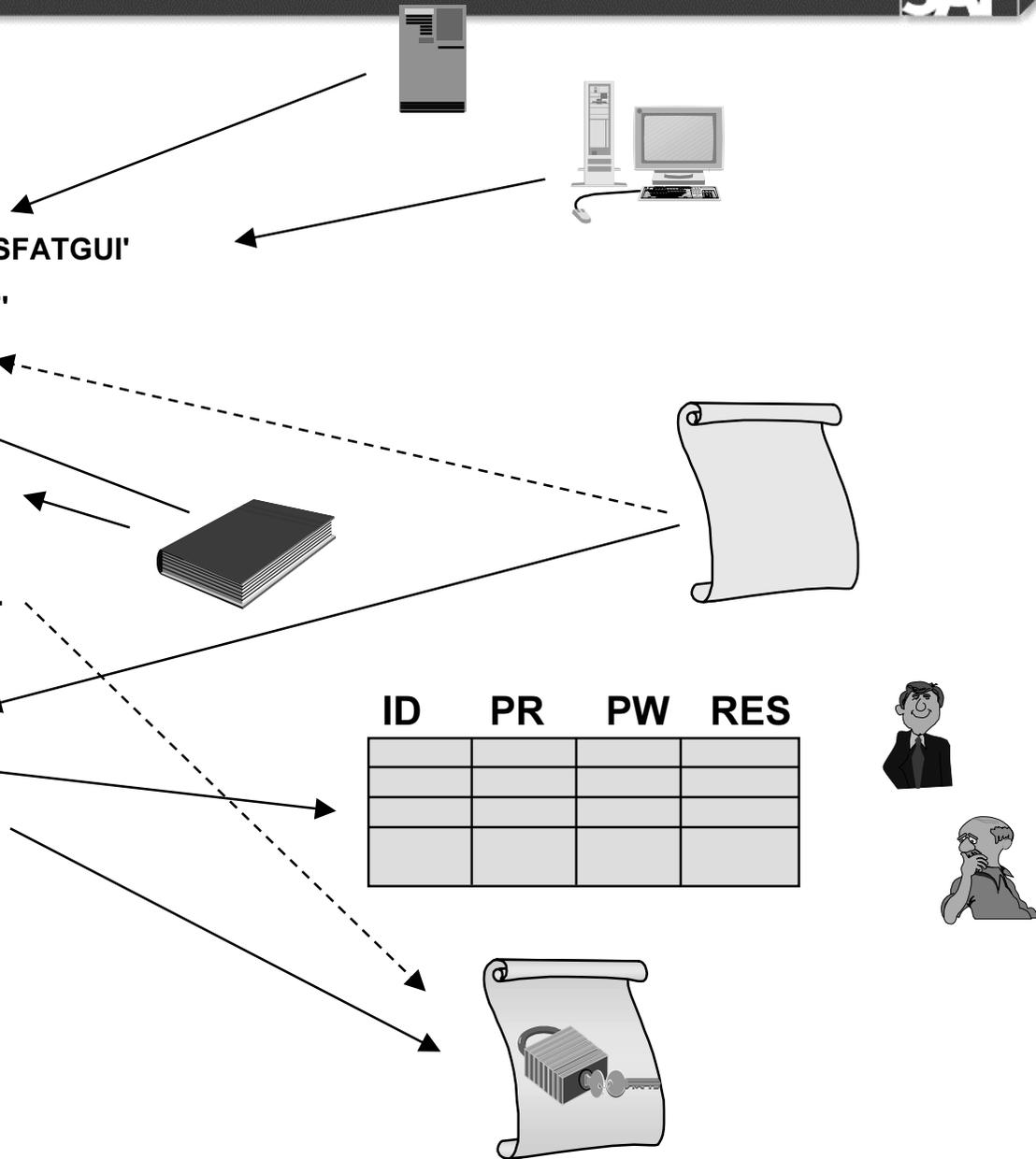
ostr_enveloped_data_l = ...

tables

ostr_input_data = ...
recipient_list = ...
ostr_enveloped_data = ...

exceptions

...



call function 'SSF_DEVELOPE'

exporting

ssf_dest = 'SAP_SSFATGUI'

str_format = 'PKCS7'

ostr_enveloped_data_l = ...

importing

ostr_output_data_l = ...

tables

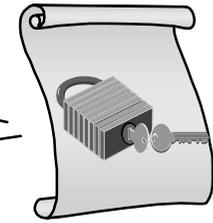
ostr_enveloped_data = ...

recipient = ...

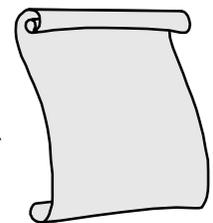
ostr_output_data = ...

exceptions

...



ID	PR	PW	RES



SSF Signer/Recipient Internal Table



ID	PROFILE	PASSWORD	RESULT
CN=jms, OU=Basis, O=SAP, C=DE	c:\users\jms\pse	*****	OK
CN=alice, OU=Basis, O=SAP, C=DE	\\sc-dev1...	*****	UNKNOWN_...
CN=bob, OU=FI, O=SAP, C=DE	d:\users\bob\pse	*****	INVALID_...
CN=tom, OU=Basis, O=SAP, C=DE	\\sc-dev2...	*****	NOT_FOUND...

(DDIC Structure: SSFINFO)