



ANCHOR CYBER SECURITY LLC

BEC Prevention Checklist

Business Email Compromise — wire transfer controls, email authentication, financial process safeguards, and social engineering red flags. Based on FBI IC3 guidance and FinCEN advisories.

Wire Transfer & Payment Controls

BEC causes more dollar losses than any other cybercrime category. The attack exploits process gaps, not technical vulnerabilities — controls must be procedural.

☐ Establish a call-back verification procedure for all wire transfers

Call
the
requestor
at a
known,
pre-
established
phone
number
—
not
a
number
in
the
email.
Never
use
contact
information
from
the
request
itself.

☐ Require dual authorization for any outbound wire above a defined threshold

Two
individuals
must
independently
approve
—
not
just
review
the
same
email
thread.
Define
the
threshold
in
written
policy
(common:
\$5,000–
\$25,000).

☐ **Create an explicit change-of-bank-account procedure**

Any
request
to
update
a
vendor
or
employee
bank
account
requires:
written
request
+
manager
approval
+
call-
back
verification
to
an
established
number.
Changes
are
not
effective
until
confirmed.

☐ **Prohibit wire transfers or ACH changes initiated solely by email**

Email
can
be
the
notification,
never
the
sole
authorization.
The
actual
approval
must
occur
through
an
out-
of-
band
channel.

☐ **Limit same-day wire capability to named, pre-approved staff**

Attackers
exploit
urgency.

Require
next-
day
settlement
for
new
payees
unless
the
urgency
has
been
verbally
verified
by
a
senior
officer.

 Review and verify new-vendor ACH instructions before first payment

Call
the
vendor
directly
using
a
number
from
your
records
or
their
official
website
—
not
from
the
invoice.
Confirm
routing
and
account
numbers
verbally.

 Train accounts payable staff on common BEC scenarios annually

CEO
fraud,
vendor
impersonation,
invoice
manipulation,
and
real
estate
wire
fraud
are

the
four
most
common
patterns.
Tabletop
the
scenarios,
not
just
slides.

\$ bec --email-auth

Email Authentication — SPF, DKIM, DMARC

SPF and DKIM establish identity; DMARC enforces policy on mismatches. A domain without DMARC enforcement (p=none) is spoofable by anyone.

□ Publish an SPF record listing every server authorized to send as your domain

Include

all

email

sending

sources:

mail

servers,

ESPs,

marketing

tools,

HR

systems.

Use

`~all`

(softfail)

initially,

then

`-`

`all`

(hardfail)

once

the

full

sending

inventory

is

confirmed.

□ Enable DKIM signing in your email platform for your primary domain

DKIM

key

length:

minimum

2048

bits.

Rotate

DKIM

keys

annually.

Verify

signature

via

a

header

analyzer

after

enabling.

□ Publish a DMARC record and advance to enforcement (p=reject) over time

Start
with
`p=none`
to
collect
reports,
then
`p=quarantine`,
then
`p=reject`.
Use
DMARC
aggregate
reports
(`rua=`)
to
find
legitimate
sources
before
tightening
policy.

☐ **Enable DMARC reporting and review aggregate reports monthly**

Aggregate
reports
(`rua`)
show
all
sources
sending
as
your
domain.
Forensic
reports
(`ruf`)
include
sample
failing
messages.
Both
are
needed
to
catch
unauthorized
use.

☐ **Cover all subdomains in DMARC policy**

Set
`sp=reject`
in
your
DMARC
record
to
apply
enforcement

to
subdomains
you
don't
use
for
email.
Unprotected
subdomains
are
common
BEC
spoofing
targets.

Monitor for lookalike domain registrations

Attackers
register
domains
like
`company-invoices.com`
or
`c0mpany.com`.
Use
a
domain
monitoring
service
or
periodic
manual
searches
for
common
substitutions
on
your
key
domains.

Example DMARC record (enforcement)

```
TXT @ _dmarc.yourdomain.com
"v=DMARC1; p=reject; sp=reject; adkim=s; aspf=s; rua=mailto:dmarc-reports@yourdomain.com; pct=100"
```

Example SPF record

```
TXT @ yourdomain.com
"v=spf1 include:_spf.google.com include:sendgrid.net ip4:203.0.113.10 -all"
```

Social Engineering Red Flags

BEC relies on bypassing process controls by manufacturing urgency, authority, or trust. Train staff to recognize these patterns — and to treat them as reasons to slow down, not speed up.

Unusual urgency

Request must be done today, before EOD, while the executive is traveling

Secrecy demand

"Don't tell anyone," "this is confidential," "handle this personally"

Executive impersonation

Email appears from CEO/CFO but reply-to is a different domain

New bank account for existing vendor

Change of payment details with a plausible explanation attached

New contact at a known vendor

"Our accounting team changed — please send invoices to this new address"

Slight domain variation

vendor-corp.com instead of vendorcorp.com; character substitution

Request skips normal process

"Skip the usual approval — I'll handle it when I'm back"

Wire to unfamiliar geography

Domestic vendor suddenly requesting wire to foreign account

Sources: FBI IC3 BEC Advisory, FinCEN Advisory FIN-2019-A006, CISA #StopRansomware resources. Anchor Cyber Security LLC.

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