Failed to re-index objectSid (SambaDB)

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GITLAB:

Failed to re-index objectSid in a non ucs@school environment, may happen if you add a user.

Problem:

```
21.12.2020 15:15:44.228 LDAP          (PROCESS): sync from ucs: [
user] [        add] cn=cscheini,cn=users,DC=cc,DC=schein,DC=ig
21.12.2020 15:15:44.245 LDAP          (PROCESS): sync_from_ucs: error during
add, searching for conflicting deleted object in S4
21.12.2020 15:15:44.246 LDAP          (PROCESS): sync_from_ucs: no conflicting
deleted object found
21.12.2020 15:15:44.256 LDAP          (WARNING): sync failed, saved as
rejected
        /var/lib/univention-connector/s4/1608543247.897682
21.12.2020 15:15:44.256 LDAP          (WARNING): Traceback (most recent call
last):
  File "/usr/lib/python2.7/dist-
packages/univention/s4connector/__init__.py", line 891, in
__sync_file_from_ucs
    if ((old_dn and not self.sync_from_ucs(key, mapped_object,
pre_mapped_ucs_dn, unicode(old_dn, 'utf8'), old, new)) or (not old_dn and
not self.sync_from_ucs(key, mapped_object, pre_mapped_ucs_dn, old_dn, old,
new))):
  File "/usr/lib/python2.7/dist-
packages/univention/s4connector/s4/__init__.py", line 2402, in sync_from_ucs
    self.lo_s4.lo.add_ext_s(compatible_modstring(object['dn']),
compatible_addlist(addlist), serverctrls=ctrls)  # FIXME encoding
  File "/usr/lib/python2.7/dist-packages/ldap/ldapobject.py", line 195, in
add_ext_s
    resp_type, resp_data, resp_msgid, resp_ctrls =
self.result3(msgid,all=1,timeout=self.timeout)
  File "/usr/lib/python2.7/dist-packages/ldap/ldapobject.py", line 514, in
result3
    resp_ctrl_classes=resp_ctrl_classes
  File "/usr/lib/python2.7/dist-packages/ldap/ldapobject.py", line 521, in
result4
```

```
    ldap_result =
self._ldap_call(self._l.result4,msgid,all,timeout,add_ctrls,add_intermediate
s,add_extop)
  File "/usr/lib/python2.7/dist-packages/ldap/ldapobject.py", line 106, in
_ldap_call
    result = func(*args,**kwargs)
CONSTRAINT_VIOLATION: {'info': '0000202F:
../../ldb_key_value/ldb_kv_index.c:2506: Failed to re-index objectSid in
CN=cscheini,CN=users,DC=cc,DC=schein,DC=ig -
../../ldb_key_value/ldb_kv_index.c:2351: unique index violation on objectSid
in CN=cscheini,CN=users,DC=cc,DC=schein,DC=ig', 'desc': 'Constraint
violation'}
```

Investigation:

The message indicates, that the SID, samba would like to give, is already occupied by an other userobject. To find out, you can check the 'Rid Set' of the server.

```
ldbsearch -H /var/lib/samba/private/sam.ldb \
CN="RID Set" \
-b CN="$(ucr get hostname),OU=Domain Controllers,$(ucr get ldap/base)" \
rIDAllocationPool rIDNextRID
```

dn: CN=RID Set,CN=MASTER,OU=Domain Controllers,DC=schein,DC=ig
rIDNextRID: **1161**
The attribute rIDNextRID shows the last successfully given RID. Now you can check if this RID (should) and the next following RID (should not) (be)/is used.
Take the SID from an other user or extract the Domain SID part:

```
univention-ldapsearch -xLLL sambaDomainName=* sambaSID | sed -ne
's|sambaSID: ||p'
S-1-5-21-2438365080-1175145288-4246282840
```

```
univention-ldapsearch -LLL
sambaSID=S-1-5-21-2438365080-1175145288-4246282840-1161 dn
```

dn: uid=b.baumann,cn=users,dc=schein,dc=ig → OK

```
univention-ldapsearch -LLL
sambaSID=S-1-5-21-2438365080-1175145288-4246282840-1162 dn
```

dn: uid=l.croft,cn=users,dc=schein,dc=ig → NOK
The user l.croft already occupies the rid, which should be next in samba's opinion. So this is the cause of the '"constraint violation"' from.

Solution:

Edit the 'Rid Set' in samba to the last successfully used RID.

```
ldbedit -H /var/lib/samba/private/sam.ldb CN="RID Set" -b CN="$(ucr get
hostname),OU=Domain Controllers,$(ucr get ldap/base)"
```

```
# editing 1 records
# record 1
dn: CN=RID Set,CN=MASTER,OU=Domain Controllers,DC=schein,DC=ig
objectClass: top
objectClass: rIDSet
cn: RID Set
instanceType: 4
whenCreated: 20190514144243.0Z
whenChanged: 20190514144243.0Z
uSNCreated: 3667
uSNChanged: 3667
showInAdvancedViewOnly: TRUE
name: RID Set
objectGUID: 993ec2b2-c611-4cb4-8924-781111a47832
rIDAllocationPool: 1100-1599
rIDPreviousAllocationPool: 1100-1599
rIDUsedPool: 0
objectCategory: CN=RID-Set,CN=Schema,CN=Configuration,DC=schein,DC=ig
rIDNextRID: 1162
distinguishedName: CN=RID Set,CN=MASTER,OU=Domain
Controllers,DC=schein,DC=ig
```

Source: https://help.univention.com/t/problem-failed-to-re-index-objectsid-non-school/16853