Routing Decision (I)

search in registration table (CdPN is prefix of the number in registration table)

>1 →

ARJ incomplete Address

might be a call to one of several potentially matching registered endpoints, but we need more ciphers to decide

=1 →

full match (CdPN is eqal to number in registration table)

no →

ARJ incomplete Address

might be a call to a registered endpoint of ours, but we need more ciphers to decide

yes →

ACF

Routing is unique

= 0 →

LDAP Search for possibly matching CPE entries against telephonenumber attribute in LDAP After search, "." are stripped from LDAP entries. If more than 1 LDAP entry is found, comparison is done against the one with the longest prefix.

CdPN is equal to LDAP entry's telephoneNumber →

ARJ calledPartyNotRegistered OR ACF and route call to VoiceMail

call is meant for a terminal subscriber of ours that is currently not registered

CdPN is prefix of LDAP entry's telephoneNumber →

ARJ incomplete Address

might be a call to a non−registered subscriber of ours, but we need more ciphers to decide

"else" case (LDAP entry's telephonenumber is a prefix of CdPN)

no match →

search in Registration table for trunk gateway with longest match (i.e. the RegTable entry is prefix of CdPN)

not found →

search in Database (ini) for match

not found →

ARJ unreachableDestination

If we fail here, the CdPN is neither a subscriber of ours nor do we have a route to this destination

found →

ARJ calledPartyNotRegistered

This shall never happen! If we fail in here, all trunk gateways are broken.

found at least 1 router →

search in Registration table for CPE gateway with longest match (i.e. the RegTable entry is prefix of CdPN)

found at least 1 router →

ACF

Routing complete but not necessarily unique

will choose one out of a list of possible routes (honors metrics, carrier codes)

not found →

ARJ calledPartyNotRegistered OR ACF and route call to VoiceMail

Call to provisioned, but non−registered CPE

ACF →

Routing Decision (II) (see special diagram)

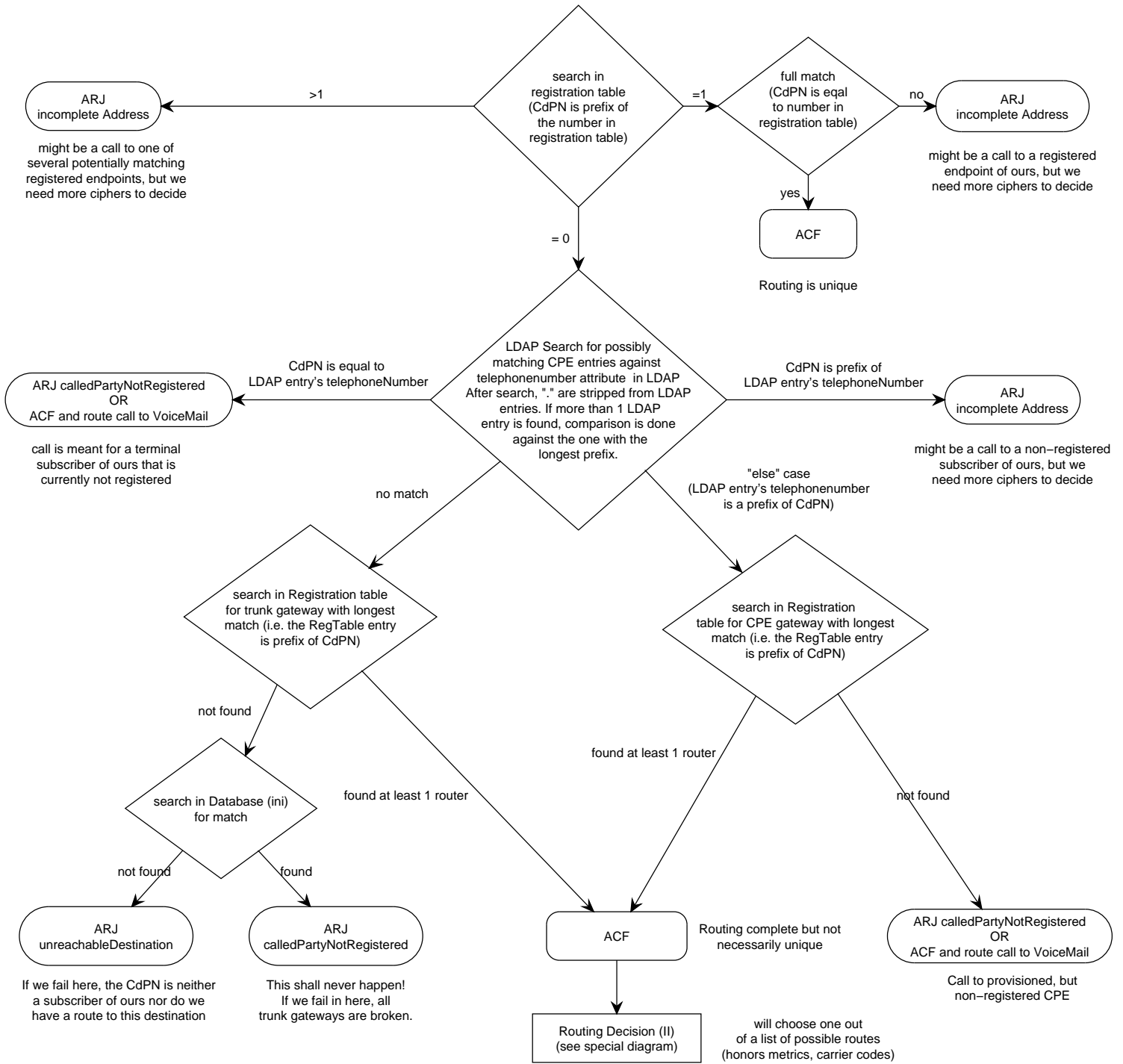
Prefix of:
+49532 is prefix of +49532801520
Equal:
+49532 is not equal +49532801520
+49542801520 is (only) equal to +49542801520

for a CdPN 495246801867, we know that 495246 is countryCode + AreaCode and 801867 is subscriber number + extension
LDAP search filter is (|(telephonenumber=4952461867*)(telephonenumber=49524680186.*)(telephonenumber=4952468018..*)
(telephonenumber=495246801...*)(telephonenumber=49524680....*)(telephonenumber=4952468.....*))