Routing Decision (I)

START

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

>1 → ARJ incompleteAddress

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 or gw prefix in registration table)

no → ARJ incompleteAddress

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

yes → ACF

Routing is unique

=0 → profile for CdPN exists

no ← / **yes** →

search for match against telephoneNumber attribute in existing databases (CdPN is prefix of a number in a database entry OR a number in a database entry is prefix of CdPN OR both numbers are equal)

gateway found

search in registration table for gateway with longest match (the RegTable entry is prefix of CdPN)

no match → ARJ calledPartyNotRegistered

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

found at least 1 router → ACF

Routing complete but not necessarily unique

ACF → Routing Decision (II) (see special diagram)

will choose one out of a list of possible routes (honors metrics, carrier codes) NOT YET IMPLEMENTED

CdPN is prefix of database entry's telephoneNumber → ARJ incompleteAddress

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

CdPN is equal to database 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

no match → ARJ unreachableDestination

If we fail here, the CdPN is neither a subscriber of ours nor do we have a route to this destination
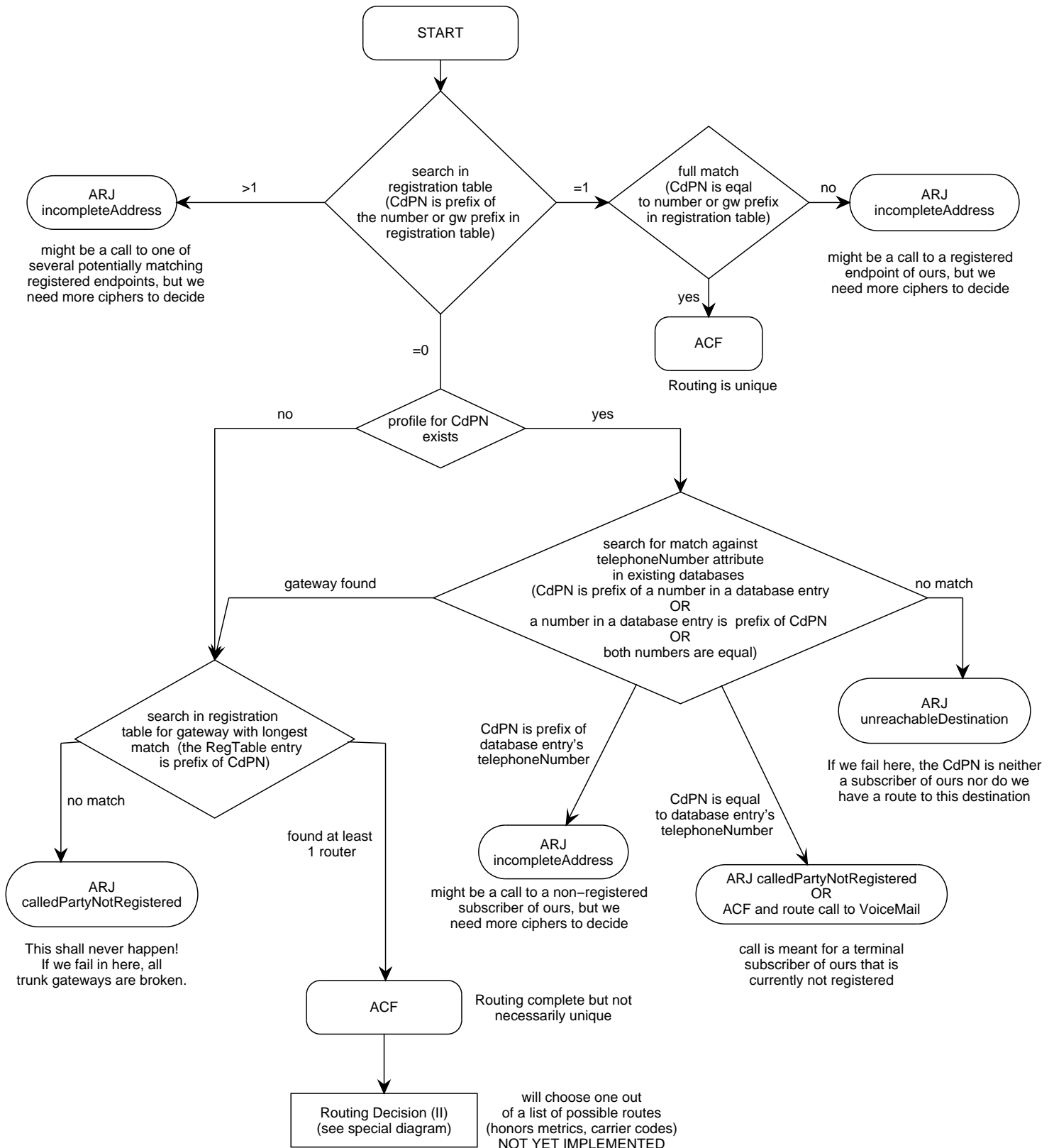
Prefix of:
+49532 is a prefix of +49532801520
Equal:
+49532 is not equal to +49532801520
+49542801520 is (only) equal to +49542801520

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.....*))