

Example ANSI Manufacturers Registry DNS:

<ICAO Mfr Hash>.<ogaid>.0000.0001.hhit.rid.aero HIP ...
<ICAO Mfr Hash>.<ogaid>.0000.0001.hhit.rid.aero CERT <Certificate: HID Registry on ANSI Mfr Registry>

<ANSI Mfr Code>.mfr.rid.aero CNAME <Mfr Hash>.<ogaid>.xxxx.0001.hhit.rid.aero
xxxx.0001.hhit.rid.aero NS <Mfr Hash>.<ogaid>.xxxx.0001.hhit.rid.aero
<Mfr Hash>.<ogaid>.xxxx.0001.hhit.rid.aero AAAA <ipv6 address>

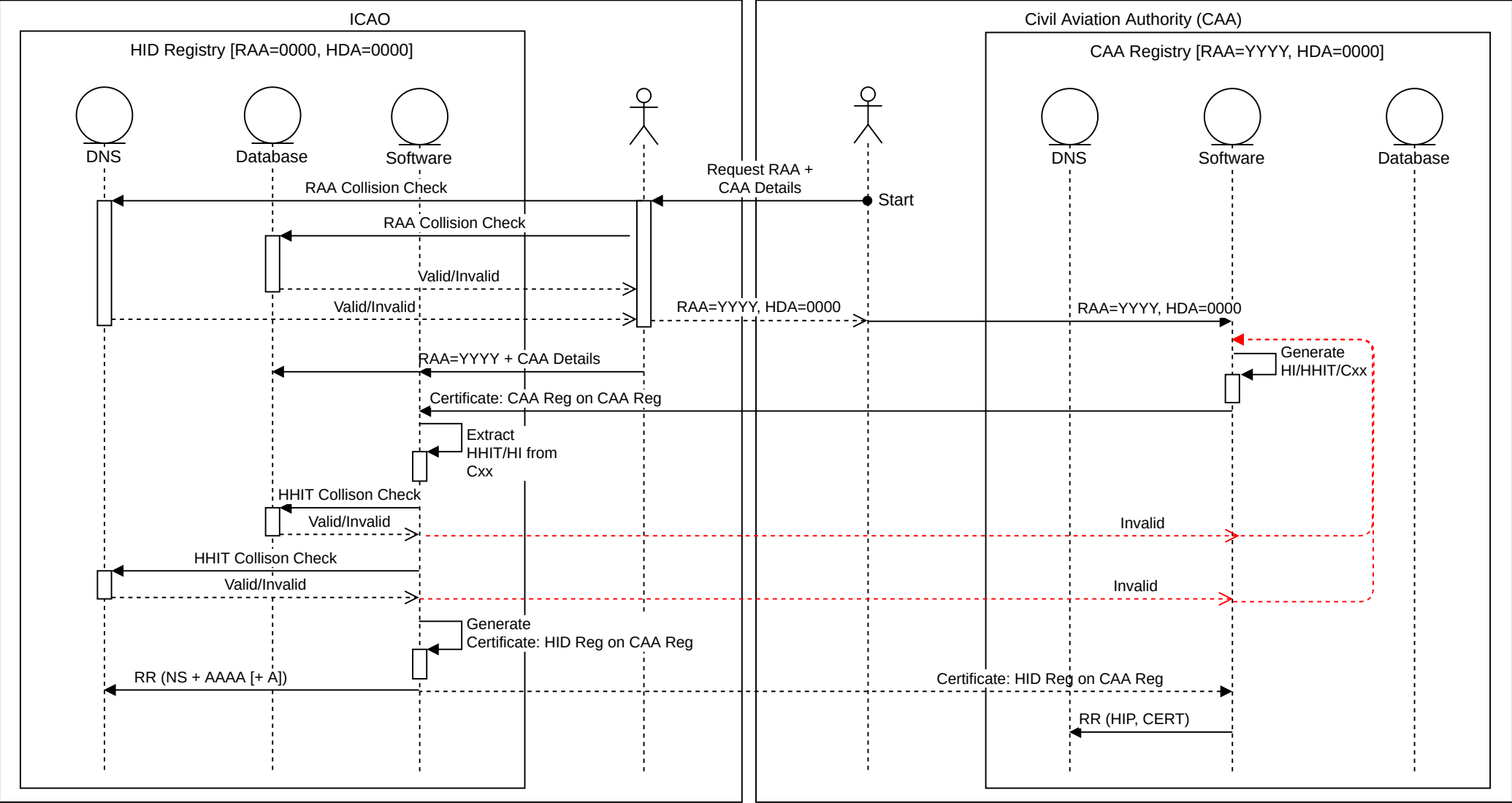
Example ANSI Manufacturers Registry Database:

ANSI Mfr Code [Primary Key], HDA Value, Mfr Details

Example Manufacturer Registry DNS:

<Mfr Hash>.<ogaid>.xxxx.0001.hhit.rid.aero HIP ...
<Mfr Hash>.<ogaid>.xxxx.0001.hhit.rid.aero CERT <Certificate: ANSI Mfr Registry on Mfr Registry>

- Notes:**
- "Hash" is the lower 64 bits of the HHIT
 - ANSI Mfr Code is assigned by ICAO to UAS Manufacturers for use in ANSI CTA2063-A Serial Numbers. It is a 4 character code using [A-Z0-9] except for the letters "O" and "I"
 - Cxx = sign(HI[private], HHIT + HI[public] + Timestamp)



Example HID Registry DNS:

<ICAO Hash>.<ogaid>.0000.0000.hhit.rid.aero HIP ...
<ICAO Hash>.<ogaid>.0000.0000.hhit.rid.aero CERT <X.509 from ICAO?>

yyyy.hhit.rid.aero NS <CAA Hash>.<ogaid>.0000.yyyy.hhit.rid.aero
<CAA Hash>.<ogaid>.0000.yyyy.hhit.rid.aero AAAA <ipv6 address>

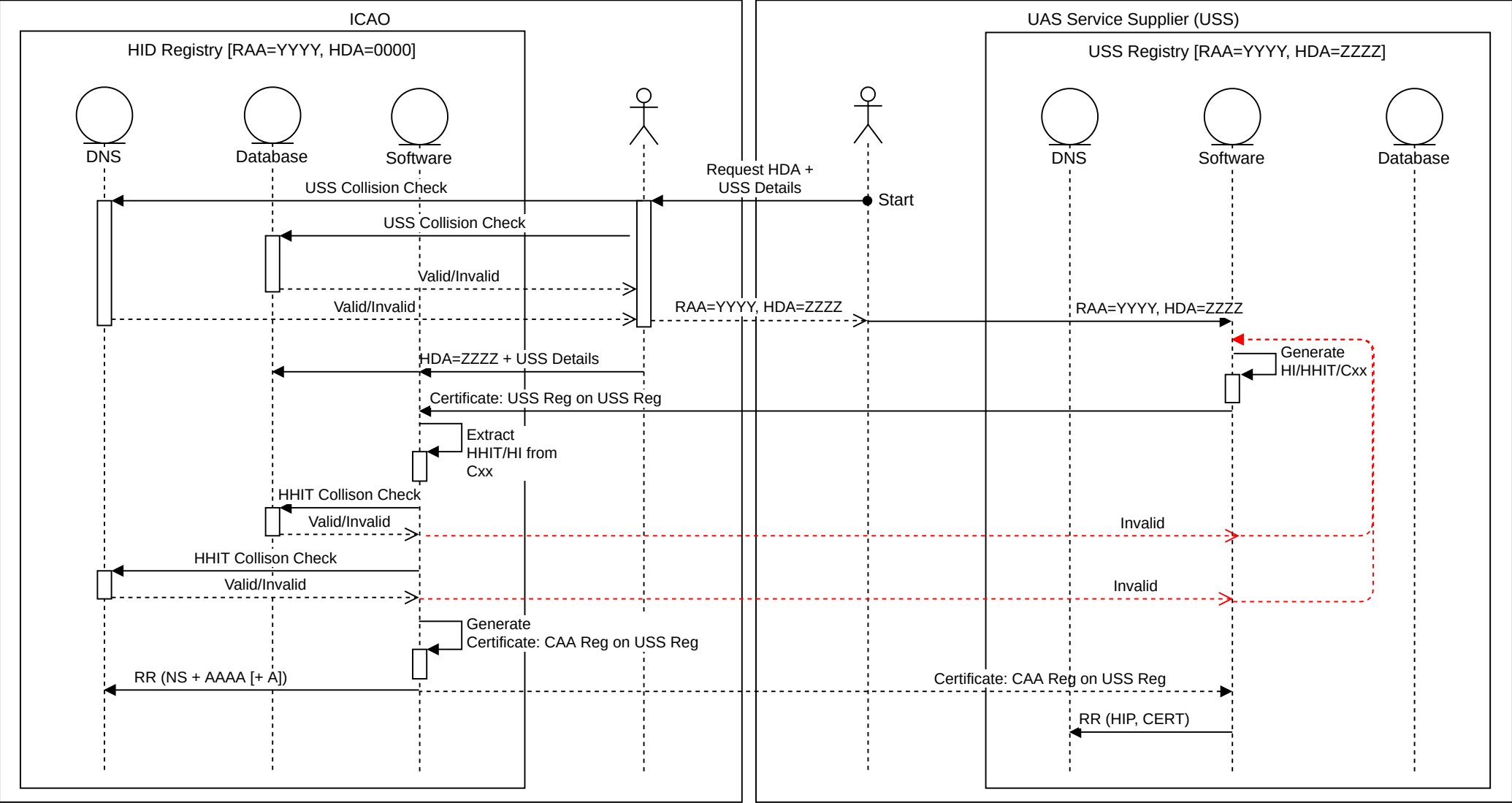
Example HID Registry Database:

RAA Value, CAA Details

Example CAA Registry DNS:

<CAA Hash>.<ogaid>.0000.yyyy.hhit.rid.aero HIP ...
<CAA Hash>.<ogaid>.0000.yyyy.hhit.rid.aero CERT <Certificate: HID Registry on CAA Registry>

- Notes:**
- "Hash" is the lower 64 bits of the HHIT
 - Cxx = sign(HI[private], HHIT + HI[public] + Timestamp)



Example CAA Registry DNS:

<CAA Hash>.<ogaid>.0000.yyyy.hhit.rid.aero HIP ...
<CAA Hash>.<ogaid>.0000.yyyy.hhit.rid.aero CERT <Certificate: HID Registry on CAA Registry>

zzzz.yyyy.hhit.rid.aero NS <USS Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero
<USS Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero AAAA <ipv6 address>

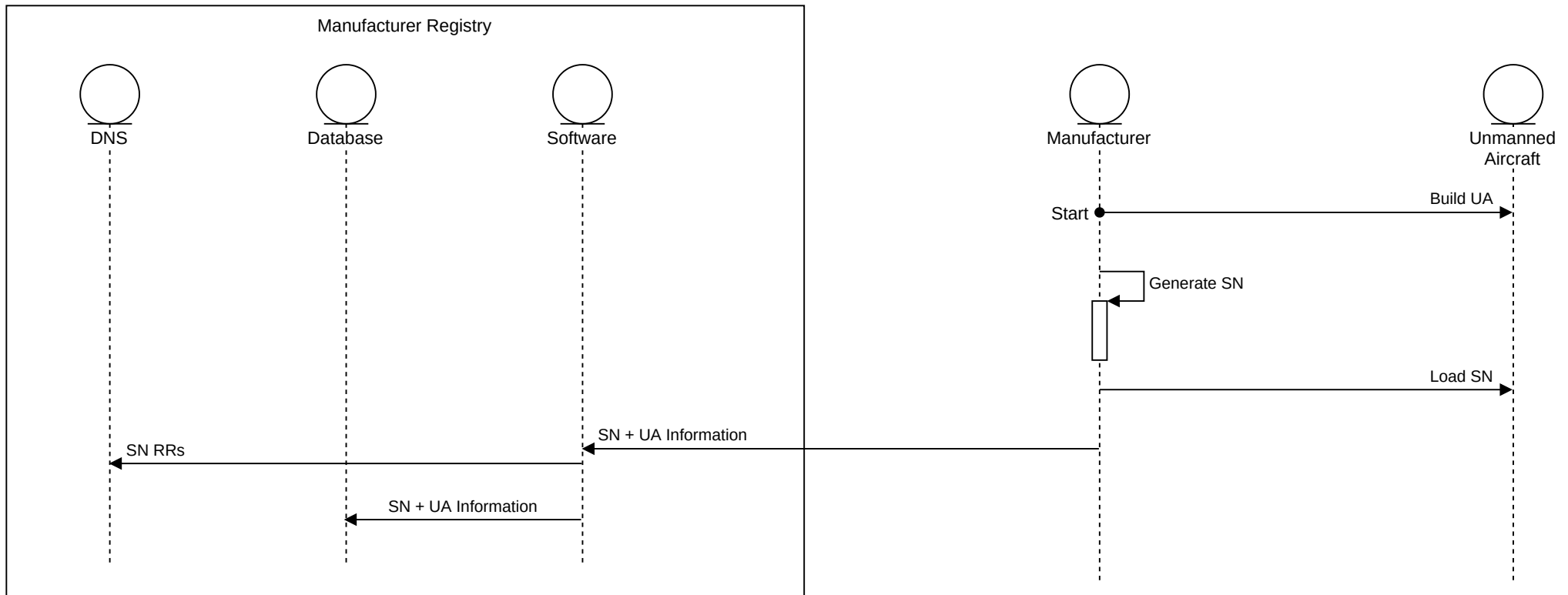
Example CAA Registry Database:

HDA Value, USS Details

Example USS Registry DNS:

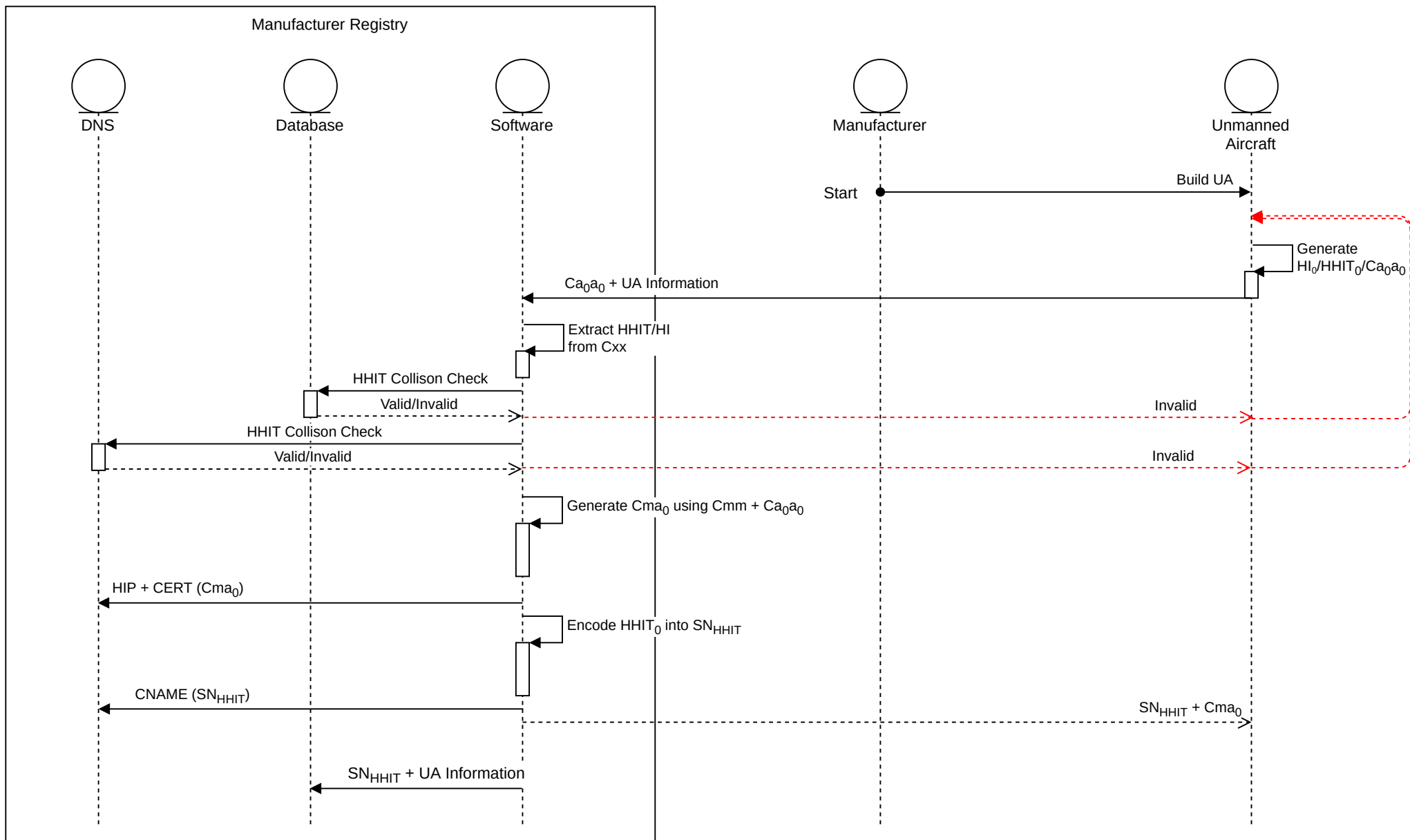
<USS Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero HIP ...
<USS Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero CERT <Certificate: CAA Registry on USS Registry>

- Notes:**
- "Hash" is the lower 64 bits of the HHIT
 - Cxx = sign(HI[private], HHIT + HI[public] + Timestamp)



Example Manufacturer Registry DNS:

<Mfr Hash>.<ogaid>.xxxx.0001.hhit.rid.aero HIP ...
 <Mfr Hash>.<ogaid>.xxxx.0001.hhit.rid.aero CERT <Certificate: ANSI Mfr Registry on Mfr Registry>
 <SN ID>.<length>.<ANSI Mfr Code>.mfr.hhit.aero *** ...

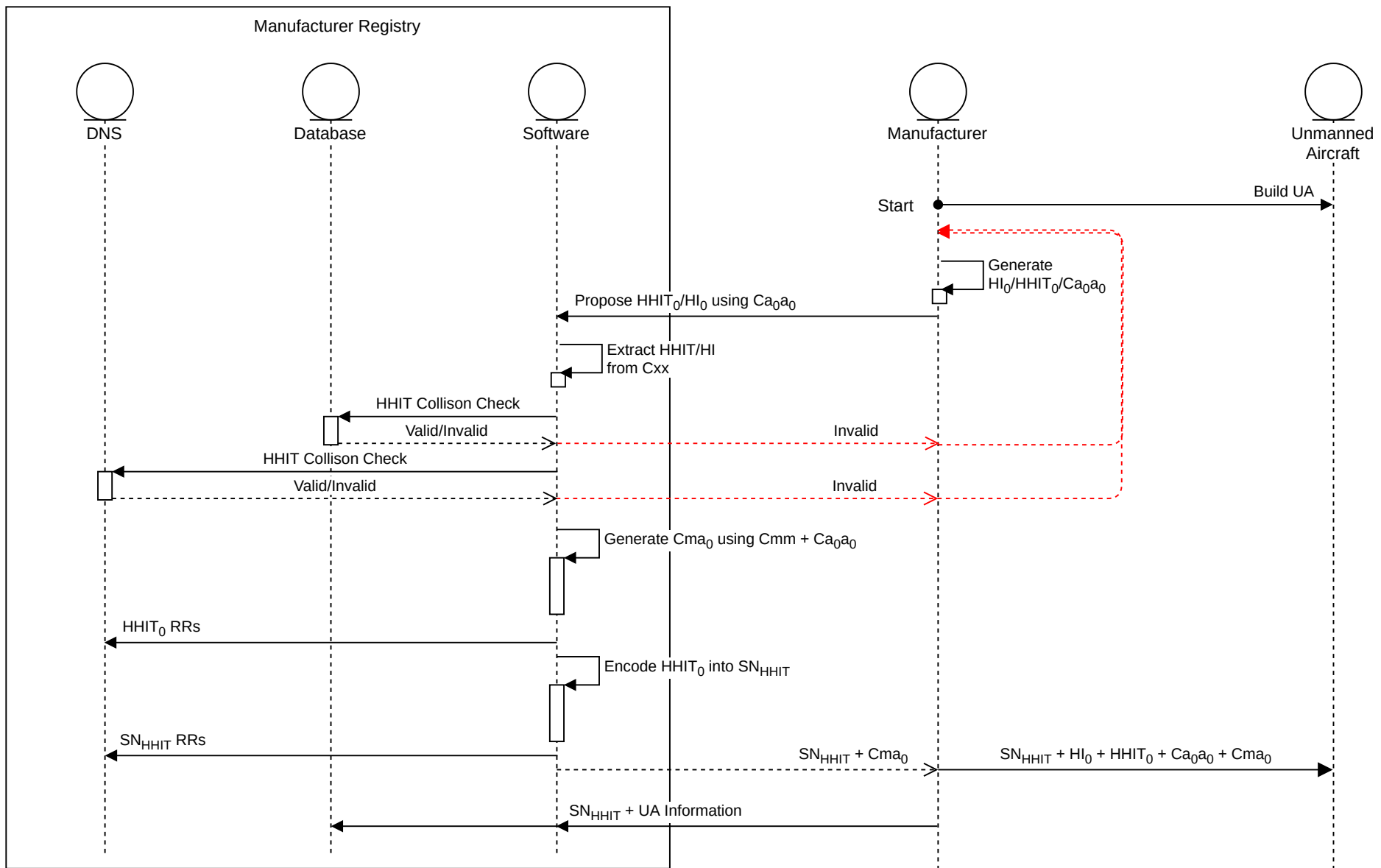


Example Manufacturer Registry DNS:

<Mfr Hash>.<ogaid>.xxxx.0001.hhit.rid.aero HIP ...
 <Mfr Hash>.<ogaid>.xxxx.0001.hhit.rid.aero CERT <Certificate: ANSI Mfr Registry on Mfr Registry>
 <SN ID>.<length>.<ANSI Mfr Code>.<mfr>.hhit.aero CNAME <SN Hash>.<ogaid>.xxxx.0001.hhit.rid.aero
 <SN Hash>.<ogaid>.xxxx.0001.hhit.rid.aero HIP ...
 <SN Hash>.<ogaid>.xxxx.0001.hhit.rid.aero CERT <Certificate: Manufacturer on Aircraft 0>

Notes:

- "Hash" is the lower 64 bits of the HHIT
- RID Module manufacturers would be more interested in this than Standard RID manufacturers

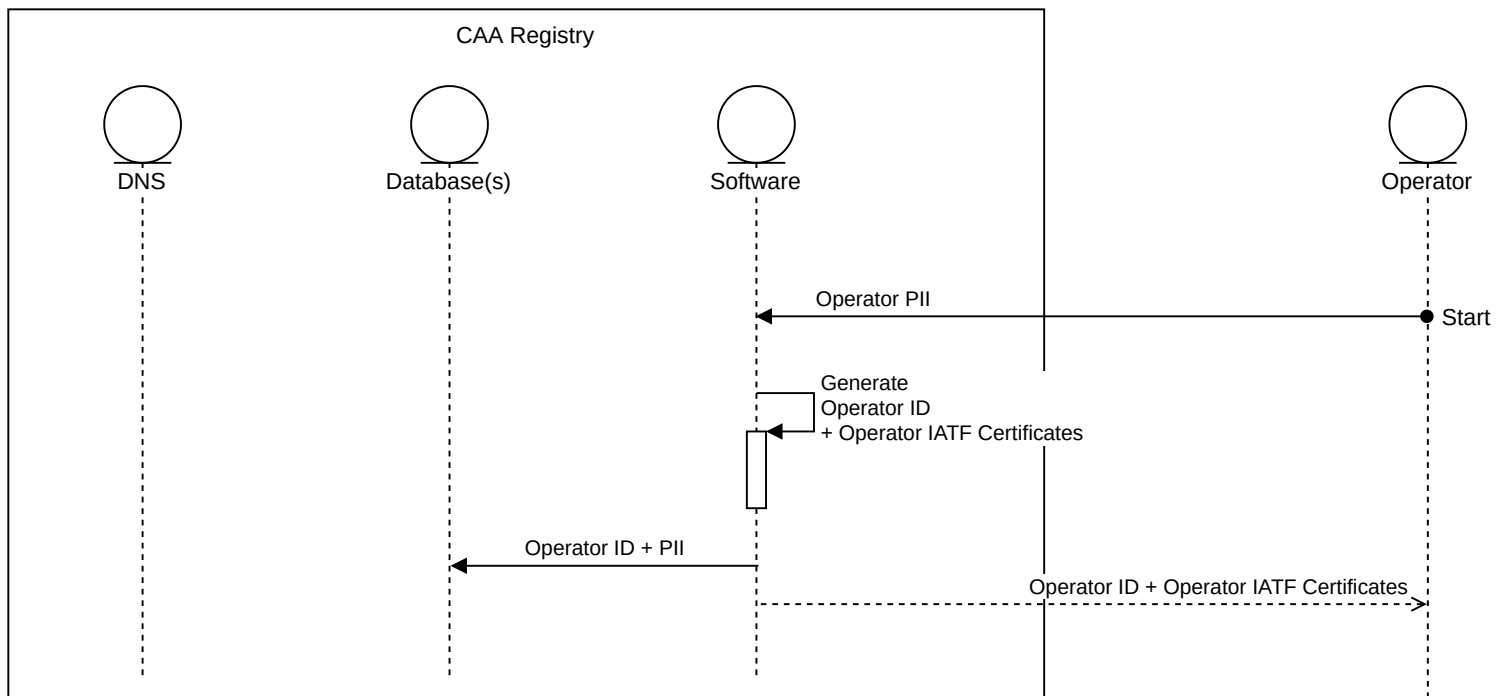


Example Manufacturer Registry DNS:

<Mfr Hash>.<ogaid>.<xxxx.0001.hhit.rid.aero HIP ...
 <Mfr Hash>.<ogaid>.<xxxx.0001.hhit.rid.aero CERT <Certificate: ANSI Mfr Registry on Mfr Registry>
 <SN ID>.<length>.<ANSI Mfr Code>.<mfr.hhit.aero CNAME <SN Hash>.<ogaid>.<xxxx.0001.hhit.rid.aero
 <SN Hash>.<ogaid>.<xxxx.0001.hhit.rid.aero HIP ...
 <SN Hash>.<ogaid>.<xxxx.0001.hhit.rid.aero CERT <Certificate: Manufacturer on Aircraft 0>

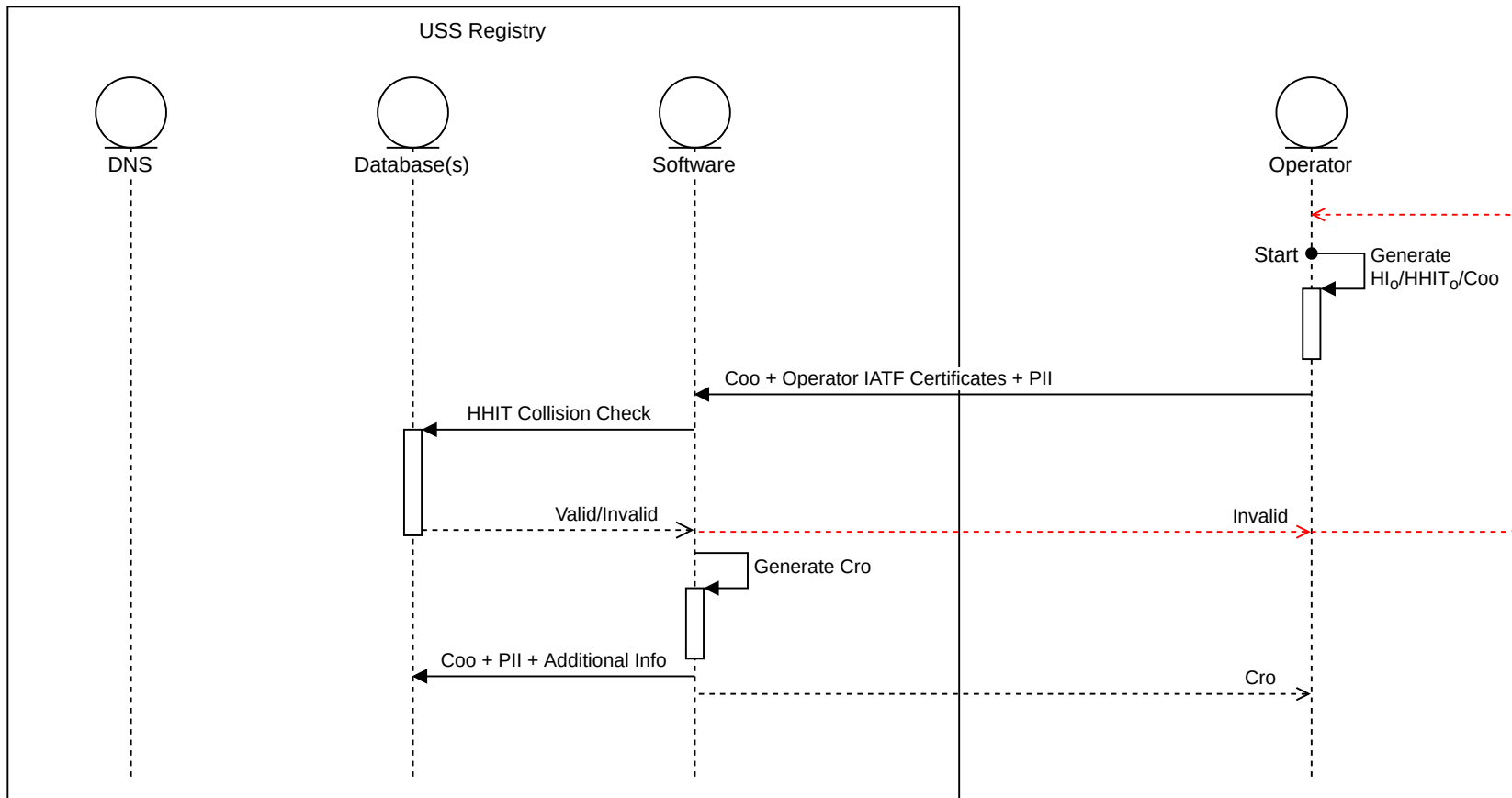
Notes:

- "Hash" is the lower 64 bits of the HHIT
- RID Module manufacturers would be more interested in this than Standard RID manufacturers



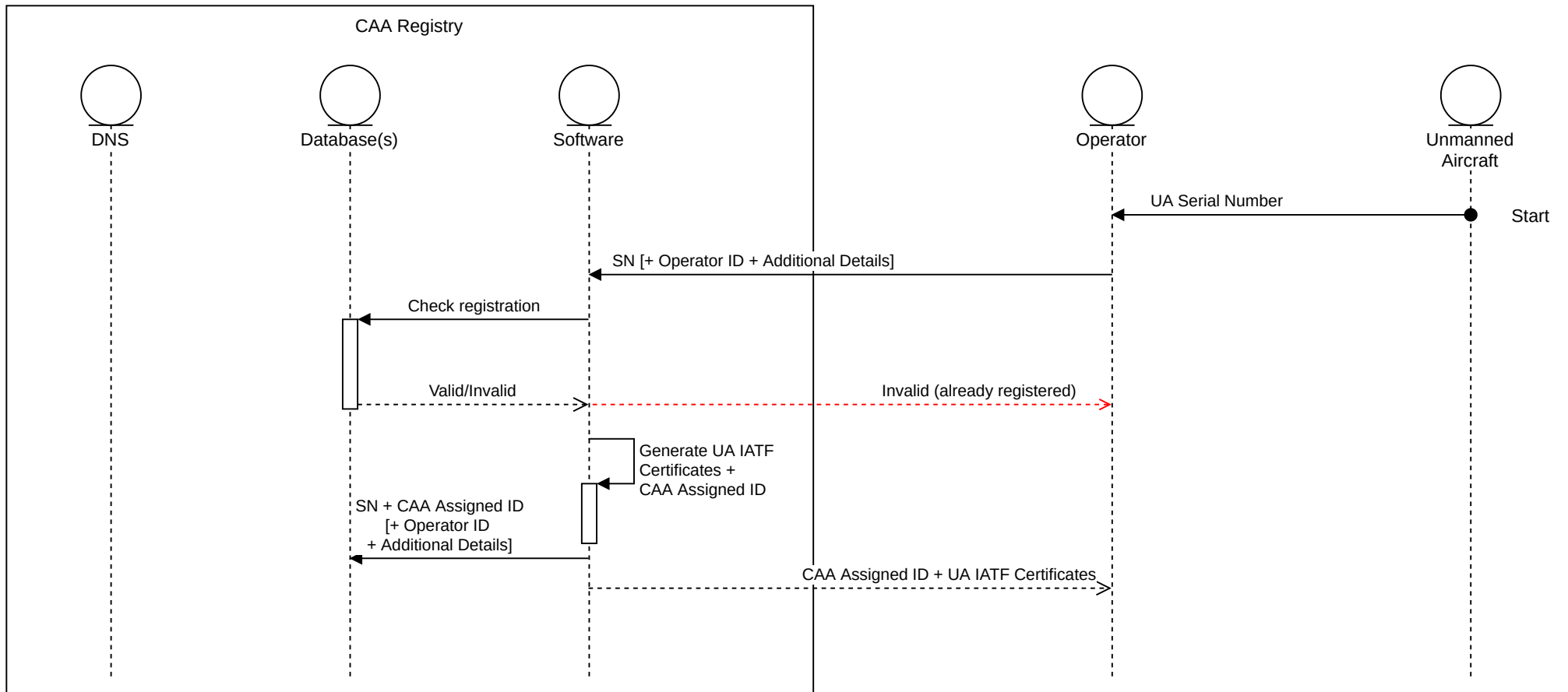
Notes:

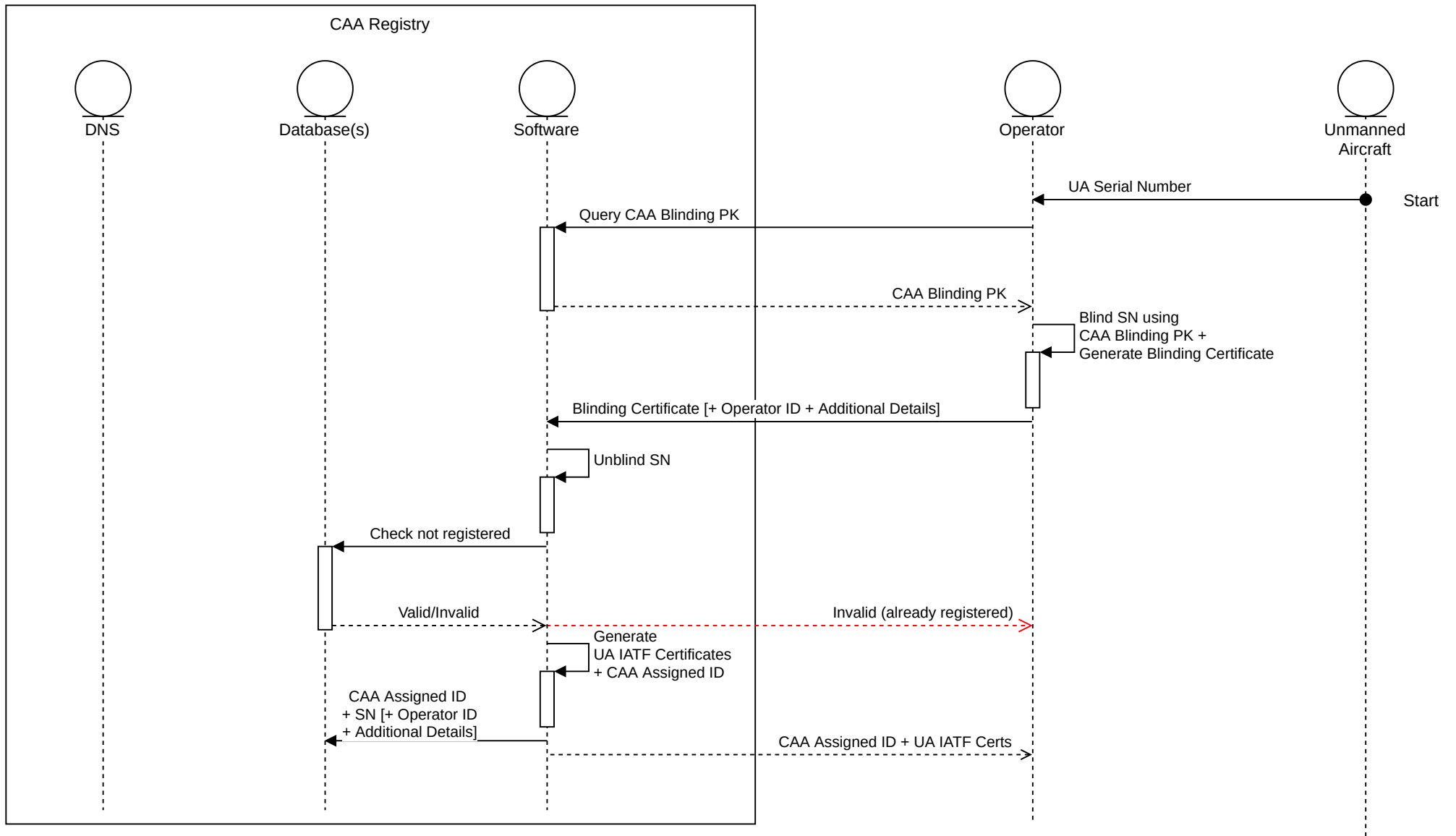
- PII here is information such as SSN, address, etc.

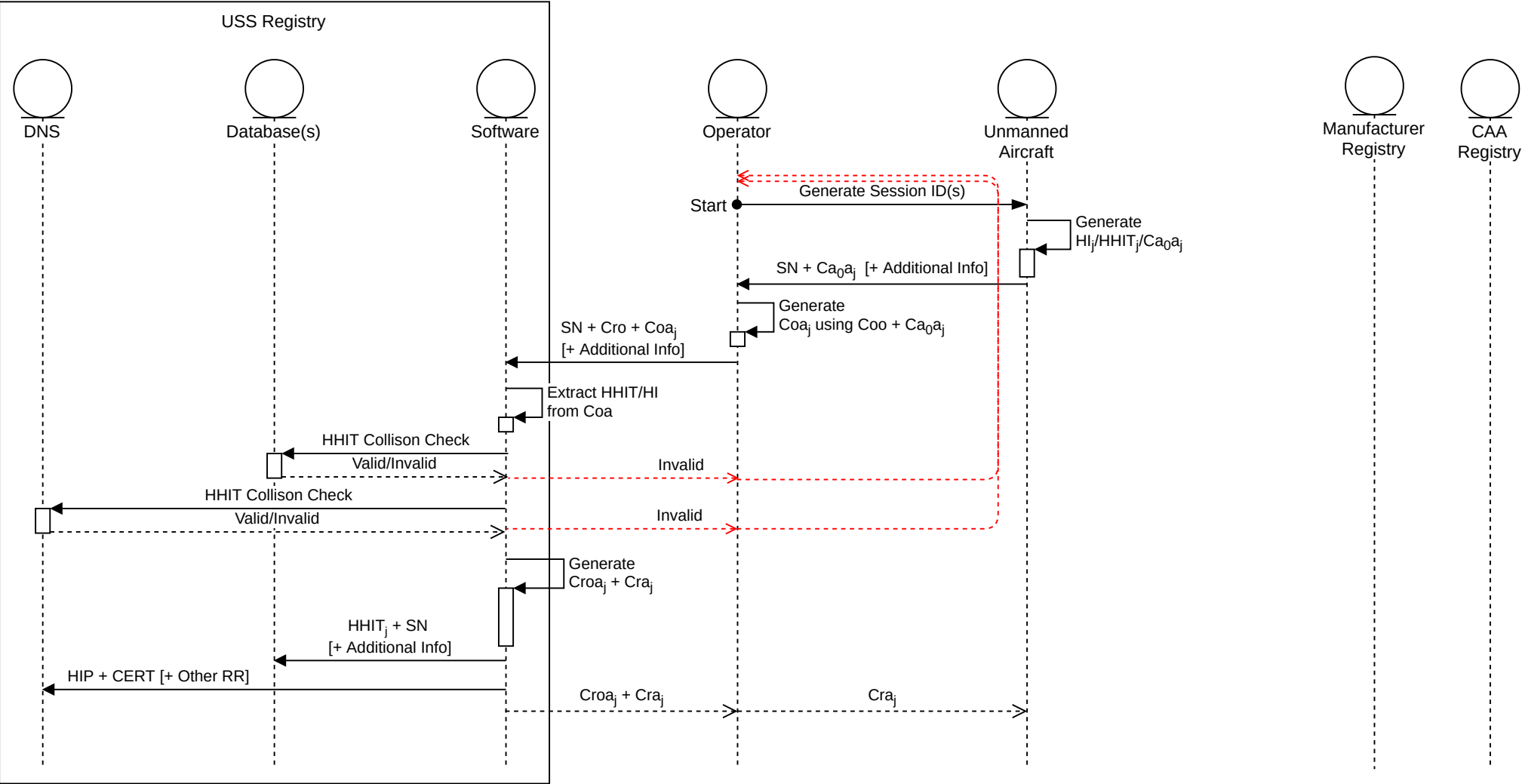


Notes:

- PII here is information such registration email address, credit card info, etc.







Example USS Registry DNS:

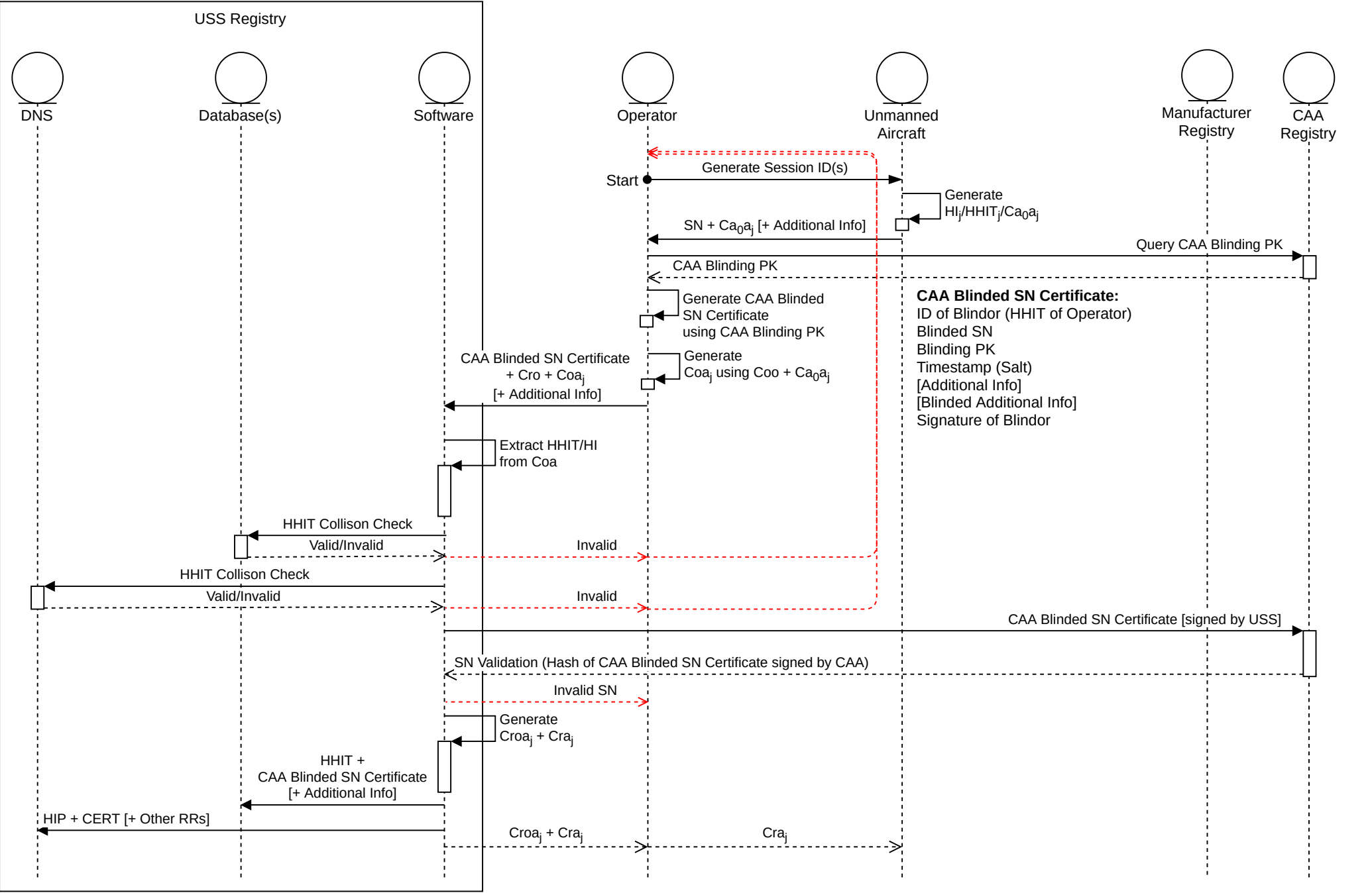
<USS Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero HIP ...
<USS Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero CERT <Certificate: CAA Registry on USS Registry>

<UA Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero HIP ...
<UA Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero CERT <Cra_j>
<UA Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero *** ...

Example USS Registry Database:

Session ID (HHIT_j), Serial Number (SN), Additional Info

- Notes:**
- Signature coming back from UA might need a broader scope
 - "Hash" is the lower 64 bits of the HHIT



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- "Hash" is the lower 64 bits of the HHIT

Example USS Registry Database:

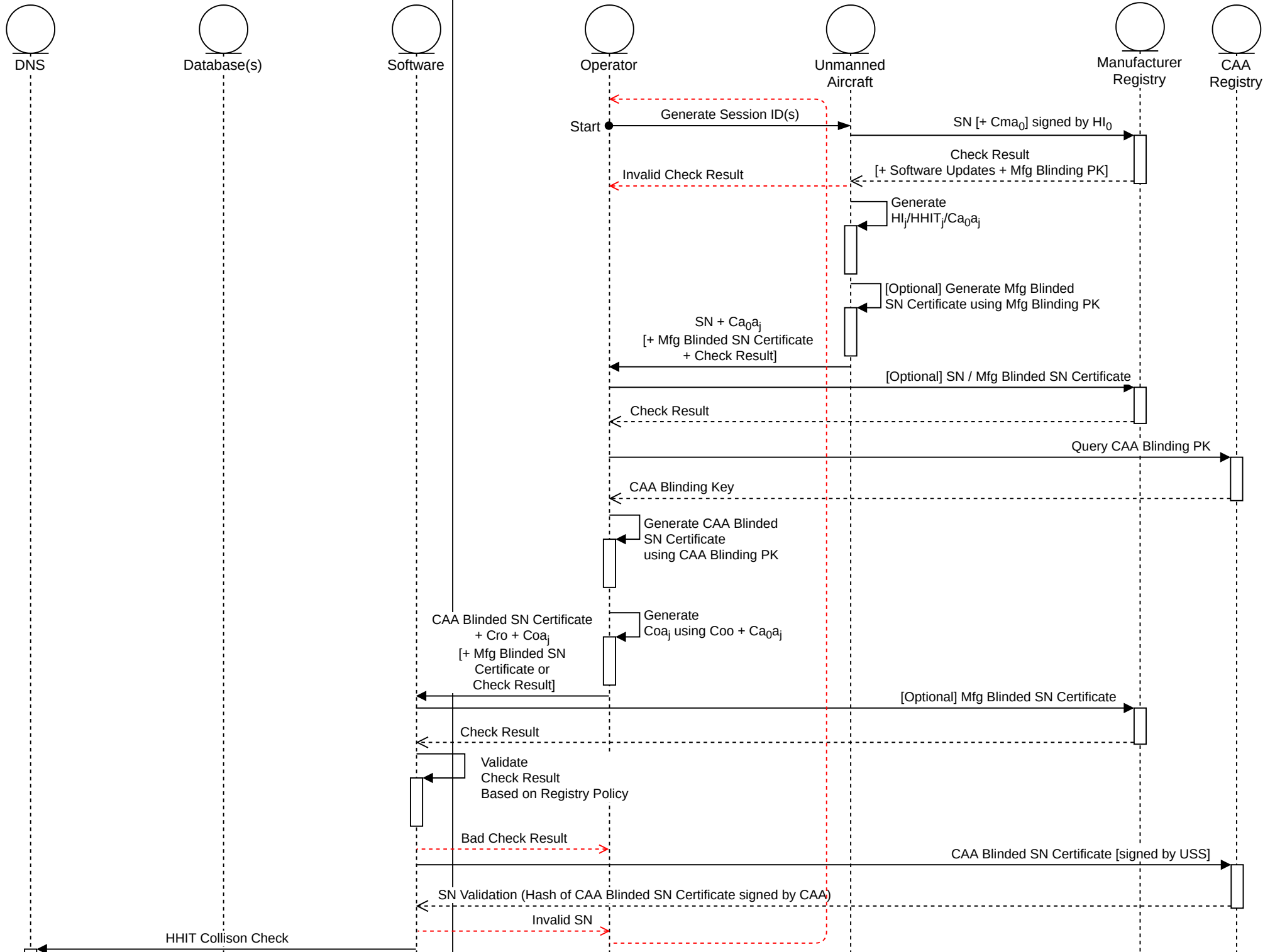
Session ID ($HHIT_j$), Serial Number, (CAA Blinded SN Certificate), Additional Info

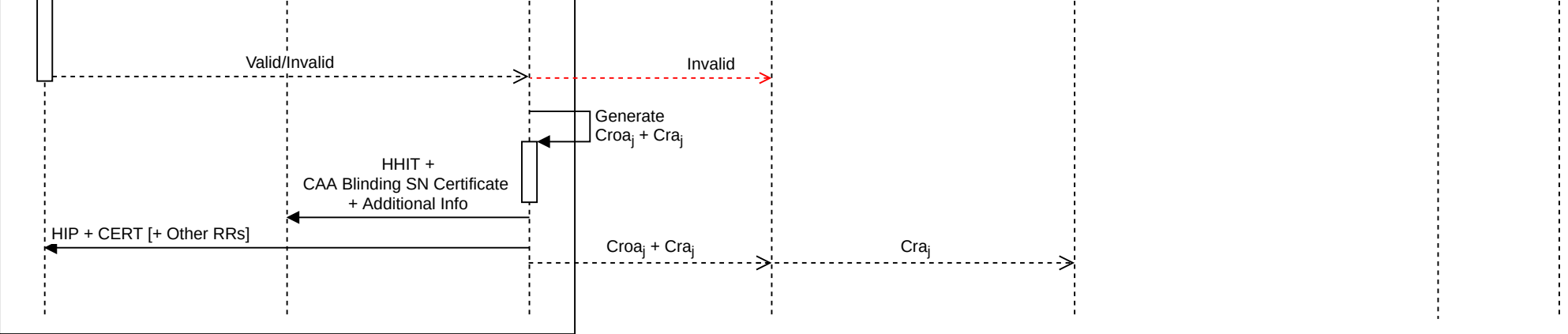
Example USS Registry DNS:

<USS Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero HIP ...
<USS Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero CERT <Certificate: CAA Registry on USS Registry>

<UA Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero HIP ...
<UA Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero CERT < Cra_j >
<UA Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero *** ...

USS Registry





Example USS Registry DNS:

<USS Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero HIP ...
 <USS Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero CERT <Certificate: CAA Registry on USS Registry>

 <UA Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero HIP ...
 <UA Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero CERT <Cra_j>
 <UA Hash>.<ogaid>.zzzz.yyyy.hhit.rid.aero *** ...

Example USS Registry Database:

Session ID (HHIT_j), SN (CAA Blinded SN Certificate), Additional Info

Notes:

- Signature coming back from UA might need a broader scope
- "Hash" is the lower 64 bits of the HHIT
- When the Operator or Registry performs a check with the Manufacturer Registry it does not use any contact information provided by UA to perform the check.
- Checks with the Manufacturer are optional
- Blinding the SN using a Mfr PK is optional but recommended when SN is to be used by Registry to perform a independent check with Mfr.
- The SN Validation done by Registry is optional but recommended as necessary

