Workflows with and without plug-in
(experts' point of view)

Currently

OP records fault
- AFT system sends Email notification to experts

Experts follow up fault
- Documents in EAM
- Reviews & Documents (/links EAM) in AFT

RAWG review & reassignment
- Reclassifications trigger new notifications
- Existing EAM link gets deleted - tbc
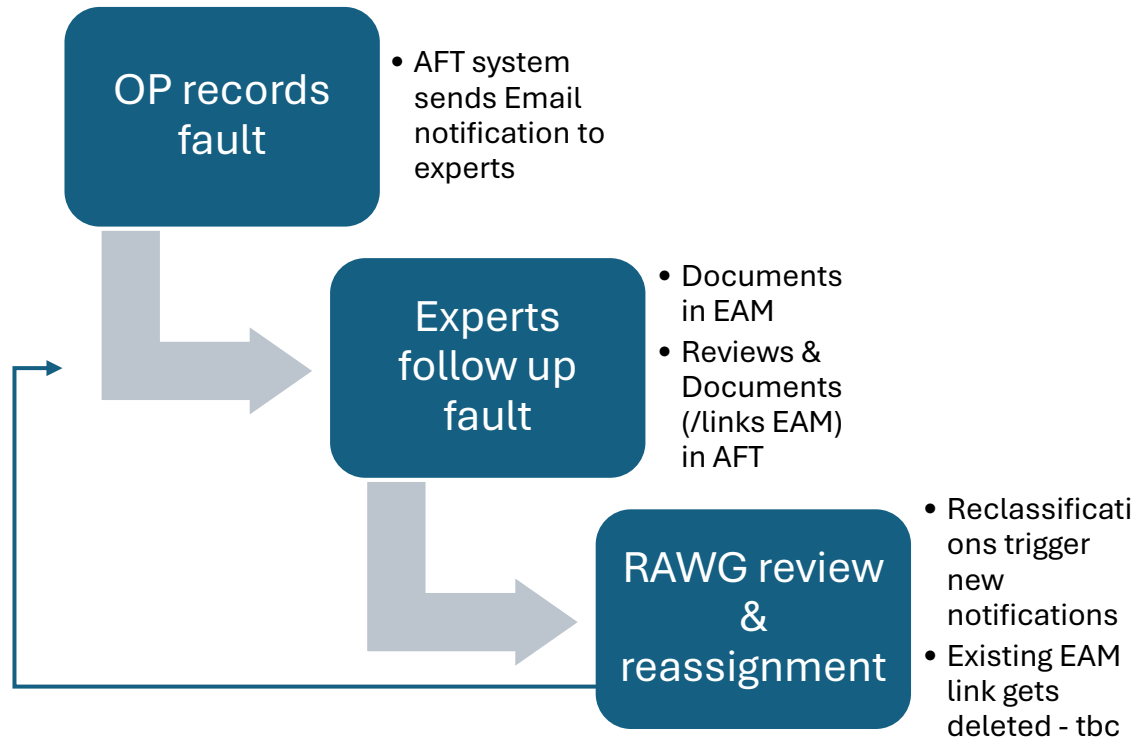
With EAM/AFT integration

OP records fault
- AFT system sends Email notification to experts – **still relevant?**
- **AFT creating EAM log if desired (already linked)**

Experts follow up fault
- Documents in EAM
- Use plug-in to link to AFT
- **Auto-document & review?**

RAWG review & reassignment
- Reclassifications trigger new notifications
- Existing EAM link gets deleted – **notification?**
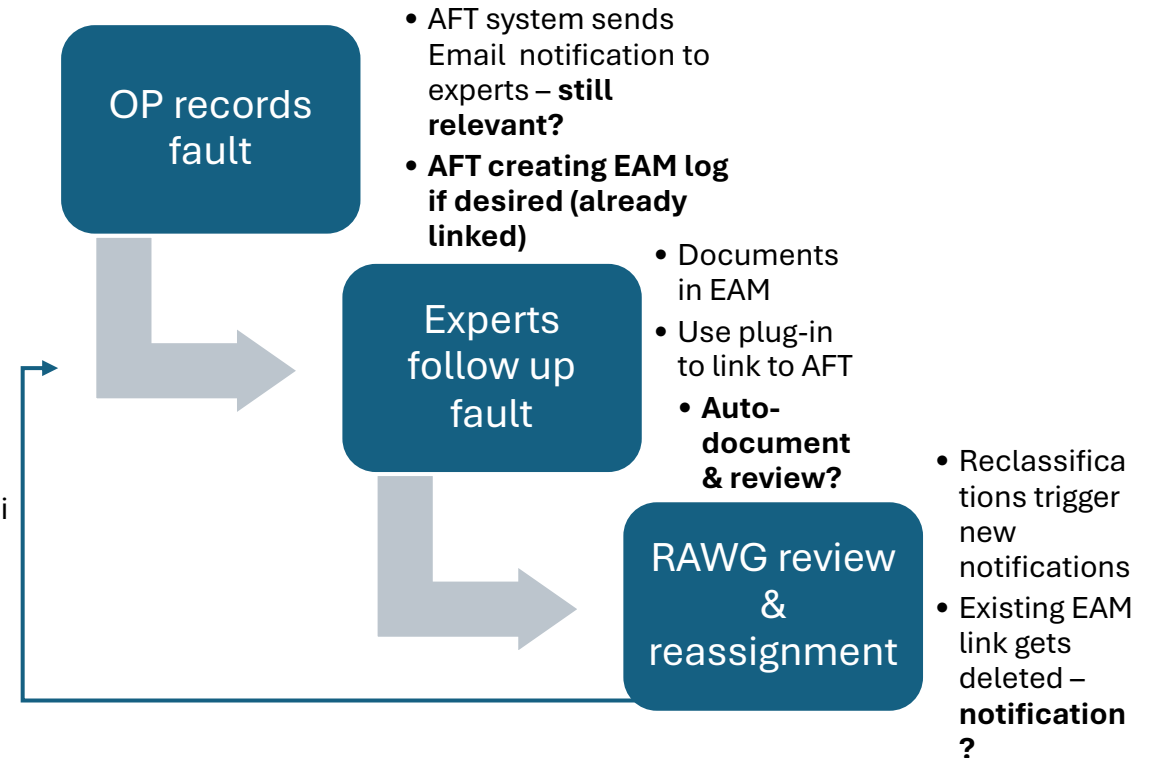
Plug-in to link to AFT

Feedback received

- Lionel (CRG)
  - It does not take into account the Site/Subsystem/equipment : for instance, in the LHC logbook, we may have the following Accelerators: LHC, ELENA, PS, AD, EA, etc.
  - For the LHC Cryogenic logbook, we have all systems: Injector Complex, Radio Frequency, etc.
  - It looks like the margin of error takes into account the start date and the end date as well.
  - The same AFT id can be recorded multiple time whenever the logbook is saved.

- Jesper (TIOC)
  - Limit the list of AFT events to those within the same time frame. Perhaps with the possibility to manually expand the list - **done**
  - Group the list by machine, then order by start time ?
  - Remove from the list the ones you have already attached
  - Perhaps add more description when the AFT is attached. You see only the ID now, perhaps it could be useful to see also the description from the AFT inside EAM? - **next slide**

What could we propose?

- System filter for each logbook
  - Egroup based
    - Long-term: integration with IT egroups - grabber
  - Mapping (how to maintain? Put reference on start page of eam logbook & send yearly reminder)
- Ordering search results - done
- Avoid double linking - easy
- Fine-tuning of duration - ignore

Auto-document & review

Auto-Review

- With link made, experts would still need to go to AFT and toggle review state

- We could consider an EAM 'claimed' AFT fault to toggle automatically reviewed
  - Would need to be set from EAM side, cause logic on AFT level could not distinguish between properly linked fault and 'someone' just adding EAM link for info

Auto-Document

- Idea remains to separate information between EAM & AFT instead of duplicating

- Nevertheless, certain fields worth in both EAM & AFT. E.g.
  - EAM description as comment into AFT
  - Functional position/equipment code
  - System (if breakdowns equal between AFT & EAM)
  - System specific properties (if group implements this) – e.g. CRG timestamps, EN-EL glitch dip/swell & duration

Have to watch out for access rights! Current linking plug-in has full write access to database (CV could claim CRG fault etc.)

Next steps

- Aim to finish features of linking-plug-in as discussed and make equipment groups aware so they can use it for 2025 operation

- Features as discussed are
    - o   Only show relevant AFT systems in each EAM logbook (mapping attached – note that it is sufficient to filter by top level system)
    - o   Avoid double linking
    - o   Add failure description to linked AFT faults
    - o   add EAM description as comment to AFT fault

- Make equipment groups aware
    - o   I will invite for meeting in about a month from now
    - o   I will update the proposal & workflow taking into account your comments
    - o   We may iterate upon that before the meeting with the equipment groups

- The linking plug in functionality will remain limited for now (resources) as
    - o   Auto-document/complete AFT fault information requires handling of access rights of EAM plug-in
    - o   Auto-review action requires extension of AFT API on top of that
    - o   Writing AFT logs to EAM requires updating of current work order creation & discussion on how to handle AFT fault updates etc.