Let’s get together to agree an approach to Operationalizing FUT and to see if we can get a simple “Plan, Do, Check, Act” cycle in place to manage this. Here are some questions and potential answers.

**PI06 Operationalize on FUT**

1. Who is responsible for the overall management of FUT ?
   * TecOps / System Team when it is in place
   * From Wed 25-May – Overall management of FUT - Aravind Desai and his Support CX team will lead this.
   * Scrum masters on teams also need to be responsible for FUT being up – they must attend Camila’s daily environments call
   * Maintain TecOps ticket system
   * Track on Camila’s Daily environments call – SA2.0 FUT
2. Frequency of deployments to FUT – 4 Repos – (initial goal – once per DAY)
   * Platform Repo – Matthias Franz
     1. wipe all data (optional) and re-install everything, regression tests
     2. **Platform Repo currently deployed/tested nightly on FUT**
   * Integration Repo - sa-index-product/sa-index-km/sa-index-sw - Patrick Hoban
     1. **Deployment frequency ? currently ad-hoc**
     2. Not fully automated
     3. Deployments includes new test data
     4. Data is not wiped
     5. Portal is a dependency on this.
     6. Goal is deployed/tested nightly on FUT
   * Integration Repo - data-tee - Colin Shine
     1. **Deployment frequency ? currently ad-hoc**
     2. Goal is deployed/tested nightly on FUT
   * Integration Repo - case-manager - Mihai Matei
     1. **Deployment frequency ? currently ad-hoc**
     2. Goal is deployed/tested nightly on FUT
   * Integration Repo - capability-access-manager - Tushar Sharma
     1. **Deployment frequency ? currently ad-hoc**
     2. Data dependency on SA1.0 ICM and AAE
     3. Goal is deployed/tested nightly on FUT
   * Integration Repo - sa-hpesc-search - Appala Lagudu / Mahmood Hussain
     1. **Deployment frequency ? ??????????**
     2. ???????????
   * Integration Repo - sa-media-storage - Prashant Kumar
     1. **Deployment frequency ? currently ad-hoc**
     2. Goal is deployed/tested nightly on FUT
   * Analysis Repo - Aneesh Joseph
     1. **Deployment frequency ? currently ad-hoc**
     2. Goal is deployed/tested nightly on FUT
   * Portal Repo - Jackson Kurian / Ramesh Movva
     1. **Deployment frequency ?**
     2. Currently ad hoc
     3. Goal is deployed/tested nightly on FUT
3. **Also required for FUT:** 
   * Smoke test #1 – configuration management tests – manually crafted dashboard – versions of all repos and s/w components deployed in FUT and their status – up and running - this needs to be automated (later)
   * Smoke test #2 – use case tests – verify components working together
   * Retrofit Domino ITG tests to FUT
   * Teams need to validate their component integration with other components in sandboxes before going to FUT
4. Where do we run all our tests before we merge to master and deploy to FUT ?
   * What dev system do we need ?
   * What level of quality (solution view) can we achieve using sandbox and identify the gaps ?
   * Padraig Brennan to pull together a team to discuss and propose solutions/options
     1. Who ? – Platform (Jing), Integration (Padraig), Analysis (Aneesh), Portal (Mahmood & Ramesh)
     2. also pull in Mark Davis & John Callery.
   * **Update from Padraig (& team) discussed at Wed 25-May meeting),**
   * The full notes presented by Padraig and team are included at the end of this document and are partly outdated (italics related to ‘old’ sandbox )
   * **Here is the output from today’s (Wed 25-May) meeting:**
   * Operational Model for push to FUT
     1. Require platform dev environment pre push to FUT [environment will have Analysis/Integration ?]
     2. Preference to have a clustered environment
     3. Work to get there
        1. Define Process Local -> Dev –>  FUT
        2. Define how to address / problems that arise
        3. Who will create that environment
           1. Validation how much of new sandboxes do we use
           2. What else would do we need
     4. Who
        1. Padraig and team, same as yesterday, to define the process.
     5. Question:
     + Any port issues? Check with Paul .
     + 1.0 Connectivity, is this anything different between sandbox and FUT env ?
       - 1.0 connectivity not required for dev
5. Should the build for all Repo modules be a Single job and the deployment be a single deployment ?
   * **Yes, one build job for each Repo and one single deployment per Repo.**
   * **This is to be managed by the Repo stewarts:**
   * **Platform Repo stewarts – who ?** – Sean Naughton to identify Lead stewart and backups
   * **Integration Repo stewarts – who ?** – Sean Naughton to identify Lead stewart and backups
   * **Analysis Repo stewarts – who ?** – Alan Duggan to identify Lead stewart and backups
   * **Portal Repo stewarts - who ?** – Alan Duggan to identify Lead stewart and backups
6. What about CDP into FUT ?
   * The cadence for deployment / integration / test …target is daily……guidance needed from solution integration team
   * this needs collaborative discussion agreement by all stakeholders.
7. Who owns Data Refresh / Data Integrity in FUT ?
   * Data Team -> TecOps. Question is will data be flushed and if so how often. What data is volatile vs what data is seed data
   * TecOPS ?.....Aravind and his team to lead this and engage the POs in the scrum teams as needed
8. Is there a tool/process to get the status of what is deployed on FUT and the version of components deployed ?
   * Manually tracked in 1.0….can we re-create for 2.0 and automate ?
   * Combination of Platform and / TecOps – this is critical to have from get go – otherwise flying blind
9. How do the scrum teams check the integrity of the FUT environment ?
   * Whatever is put in place for Auto Configuration Management -> should also have dashboard view for teams to use
   * Support – Damien/Orla – need to look at this
10. How do the scrum teams use FUT i.e. any restrictions to deploying into FUT ?
    * The rules of engagement for integration, build, deployment, test need to be set across the teams – and in a way that its collaborative and not hand off ticketing like we had with SA 1.0. System team should spear head this.
11. We need a Solution Integration Team for FUT that is made up of members from:
    * TecOps – DMT team - Data Team
    * TecOps – Support CX team (triage of environment issues)
    * Tecops – Dev CX – (Jenkins, docker)
    * TecOps - System Team (Chandru, Jackson(backup))
    * Member form each scrum team
    * The Solution Integration Team is separate to system team. Solution Integration Team would be staffed with Software Design Architects and look at architecting, design and assembly of software for SA 2.0 and how this all hangs together. Essentially there is a gap between Solution Architects and engineering teams in terms of solution design and integration.
12. **Full notes presented by Padraig and team which are partly outdated (italics related to ‘old’ sandbox )**

Notes which are partly outdated (italics related to ‘old’ sandbox )

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* Assumptions: Initially FUT regression tests would only run nightly, but the target is that this will run on merge to master.  Concern that this will be deploying/ building regularly
* Concern
  + Current 'Platform' Sandbox is not sufficient environment to have quality deployments to FUT for Platform or Downstream Applications, ones in *Italic*should be resolved when new sandbox in use  ?
    - Reasons:
      * Could have local changes (data base )
      * Not reset nightly or 'cleaned' very regularly
      * Testing in a clustered environment
      * Conflicts around commits as its LOCAL
      * Local user can change config
      * *No kibana logging on current  sandbox ?*
      * *Are deployments scripts (ansible) same as FUT ?*
      * *Has a rather rudimentary upgrade script*

* Questions to resolve:
  + What dev environment do we need

* Platform requirements (from meeting)
  + Require Dev clustered environment **for testing and integration of platform** changes.  Dev current sandbox not ok because
    - *No kibanna/logging on current sandbox ?*
    - *Are deployments scripts (ansible) same as FUT ?*
    - *Has a rather rudimentary upgrade script*
    - Testing in a clustered environment
  + Local Sandbox
    - Could have local changes (e.g. data base )
    - May not reset nightly or 'cleaned' very regularly
    - Local user can change config
    - More potential that would not always have latest before merge

* Portal Development (probably applicable to other users of platform) :
  + Require a Dev Portal environment (2 apache servers, 4 applications)
    - Where are the Portal nodes ?
  + Case 1 : Applications do not require changes with platform
    - Requires stable **Sa20** **platform** to test towards
    - This can be another shared helion platform sandbox  (better clustered)
      * Needs to  be able to be deploy daily or automatically specific versions
      * Needs to be owned by someone !
        + Manage by train , team ? [Techops or someone ?] ??

BB, Portal suggested team could manage :-)

* We would not use FUT as
  + It may not be stable (as planned)
  + Many deploys done to it each day
* Case 2: Applications require changes with platform
  + This can be another shared helion platform sandbox
    - Probably owned and updated by team making updates