Design Studio topologies

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Design Studio recommended topology

1. Quality requirements & best practices
2. Recommended topology
3. Best practices
4. Alternative topologies
    1. Advanced topology
    2. Limited topology

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Quality requirements

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Quality requirements

- Traceability
  - Full history on all changes
  - No manual changes of T24 configuration
- Verification
  - All changes are verified (automated build and tested)
  - Review of all changes
- Continuous Release
  - Limited manual actions for releasing

Best practices

- Use a source control management (SCM)
  - For basic, version, enquiry, local field fields
  - Distributed / centralized, resource locking / merge
- One local T24 env. per developer
- Only modify T24 test and production env. by the DS package
  - No manual change
- Only modify T24 local development by DS

Topologies

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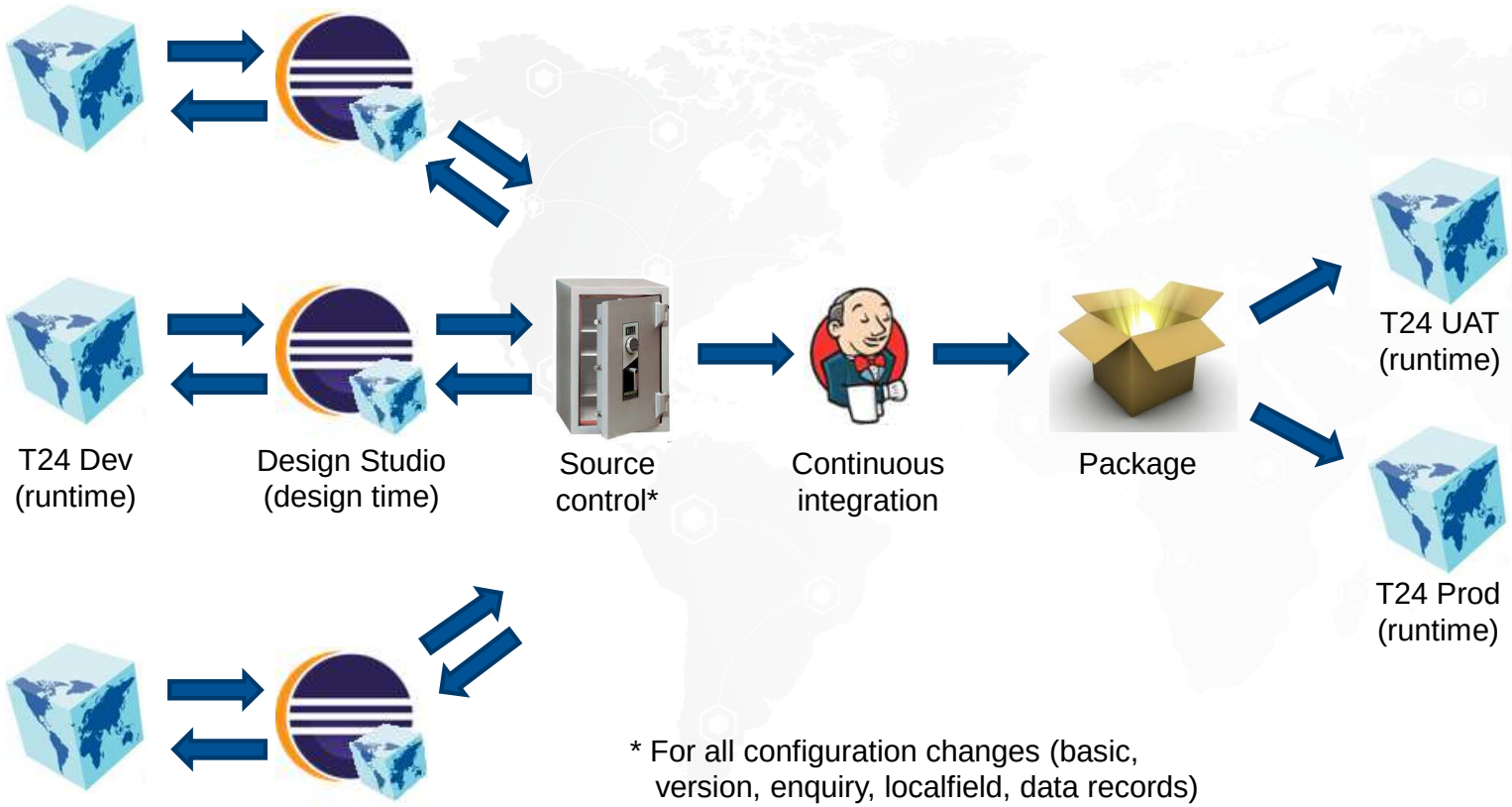
Recommended topology



* For all configuration changes (basic, version, enquiry, localfield, data records)

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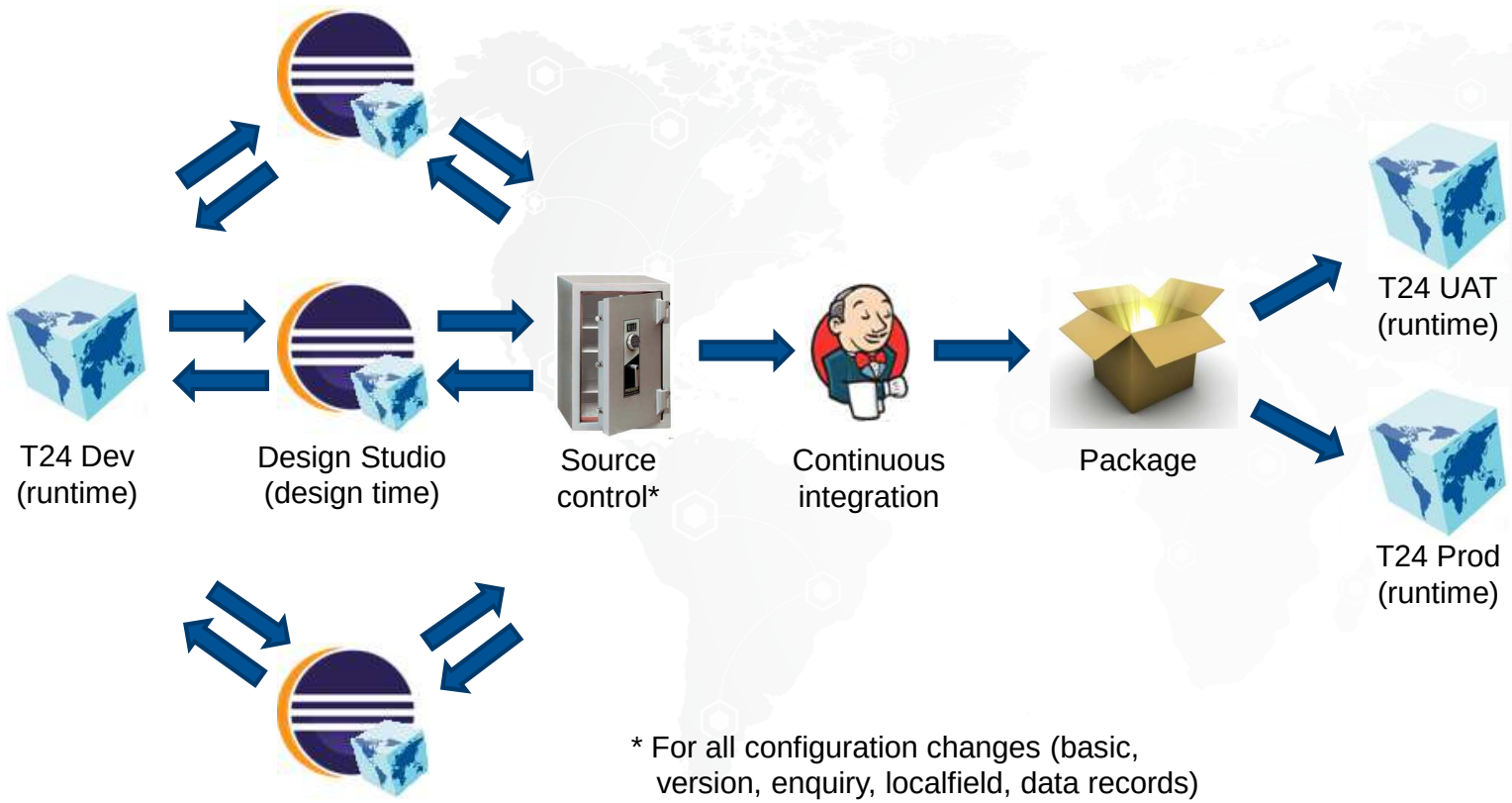
Limited topology

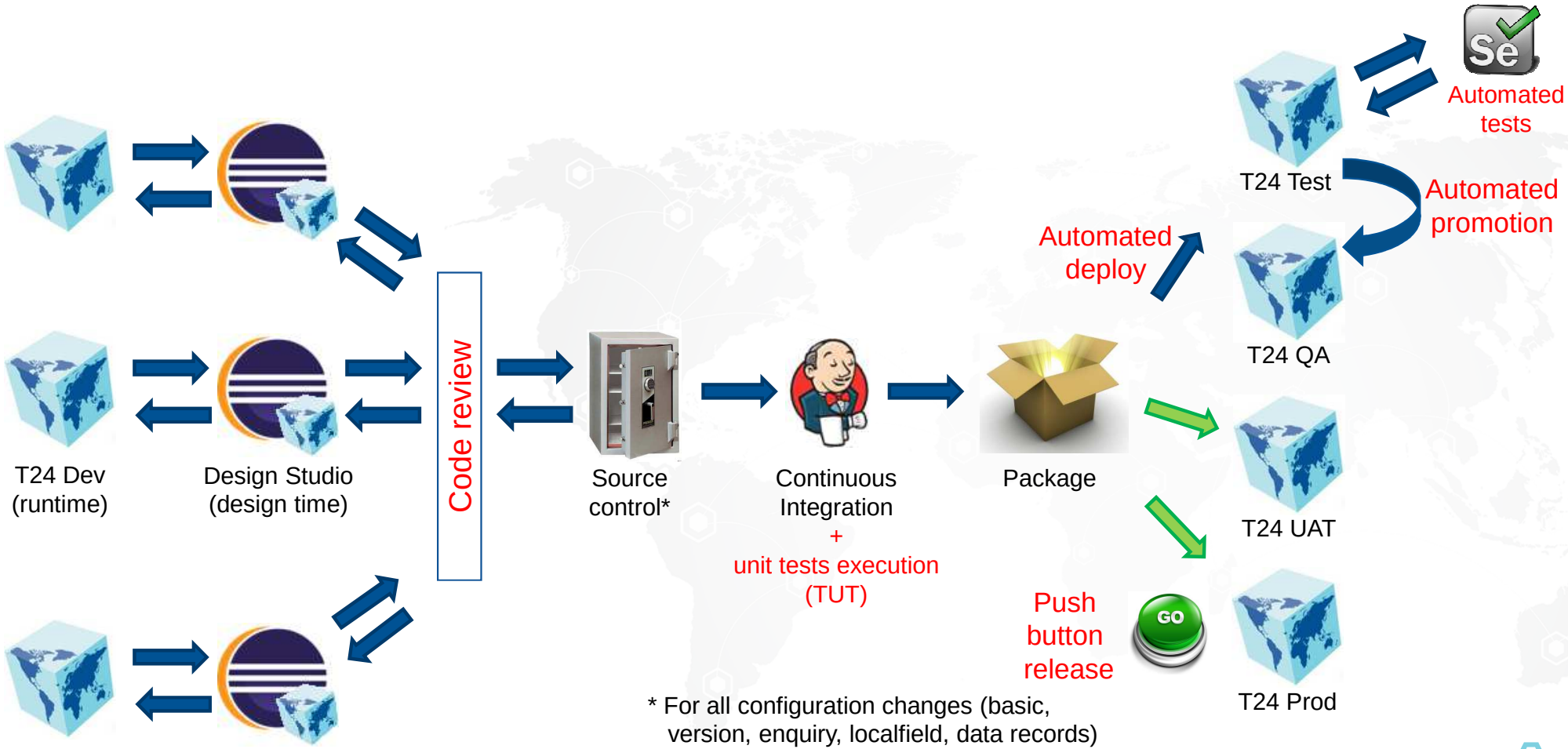


* For all configuration changes (basic, version, enquiry, localfield, data records)

Limited topology

- Limitations
  - Conflict between updates/developers
  - Dev environments contains many work in progress changes
  - Less ownership/accountability in case of problem

Advanced topology



* For all configuration changes (basic, version, enquiry, localfield, data records)

Advanced toplology

- Advantages
  - Increased code quality (code review, unit tests)
  - Increased testing (automated tests, env. staging with automated promotion)
  - Increased rollout quality (push button release)

Anti-patterns

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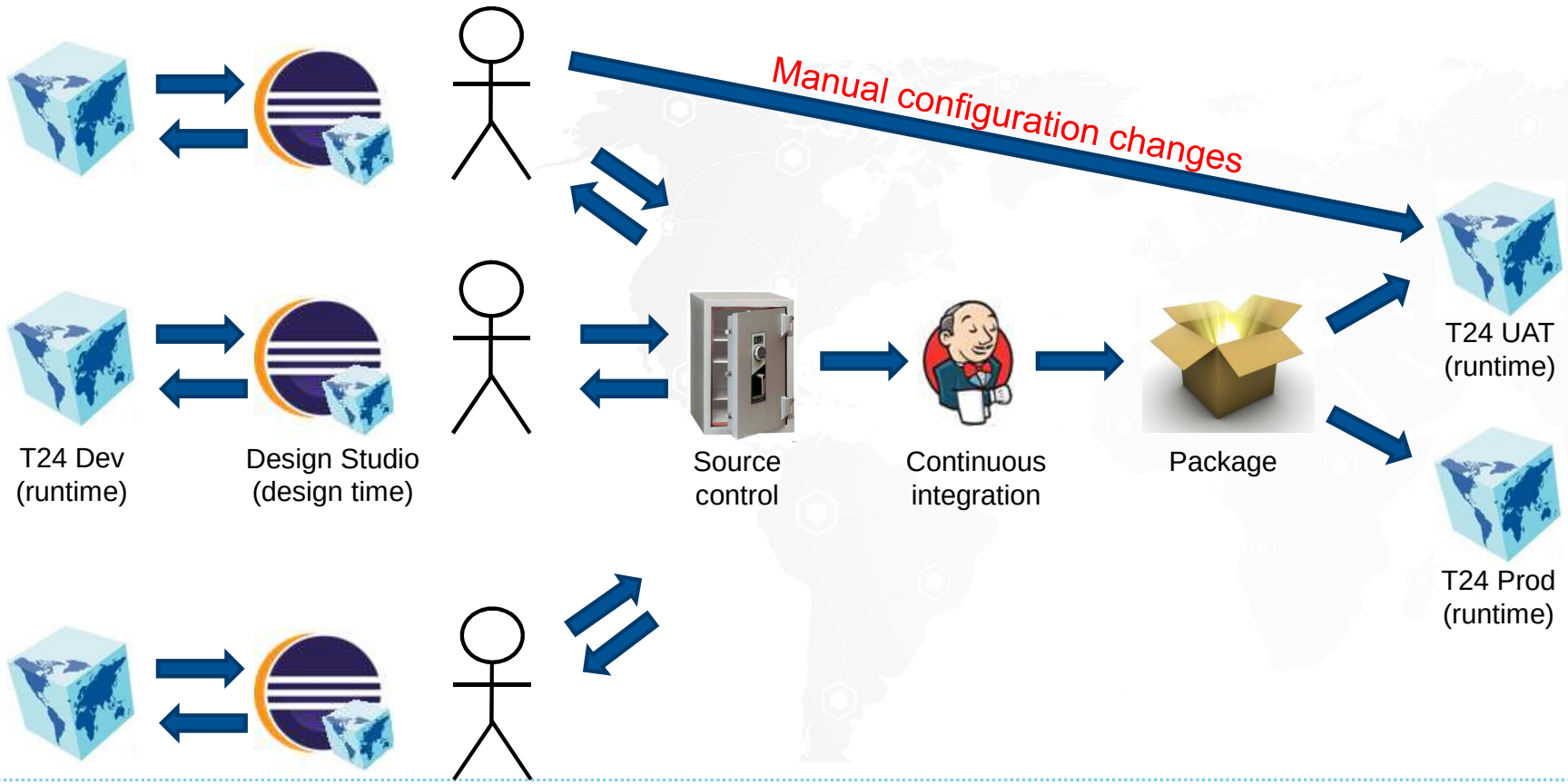
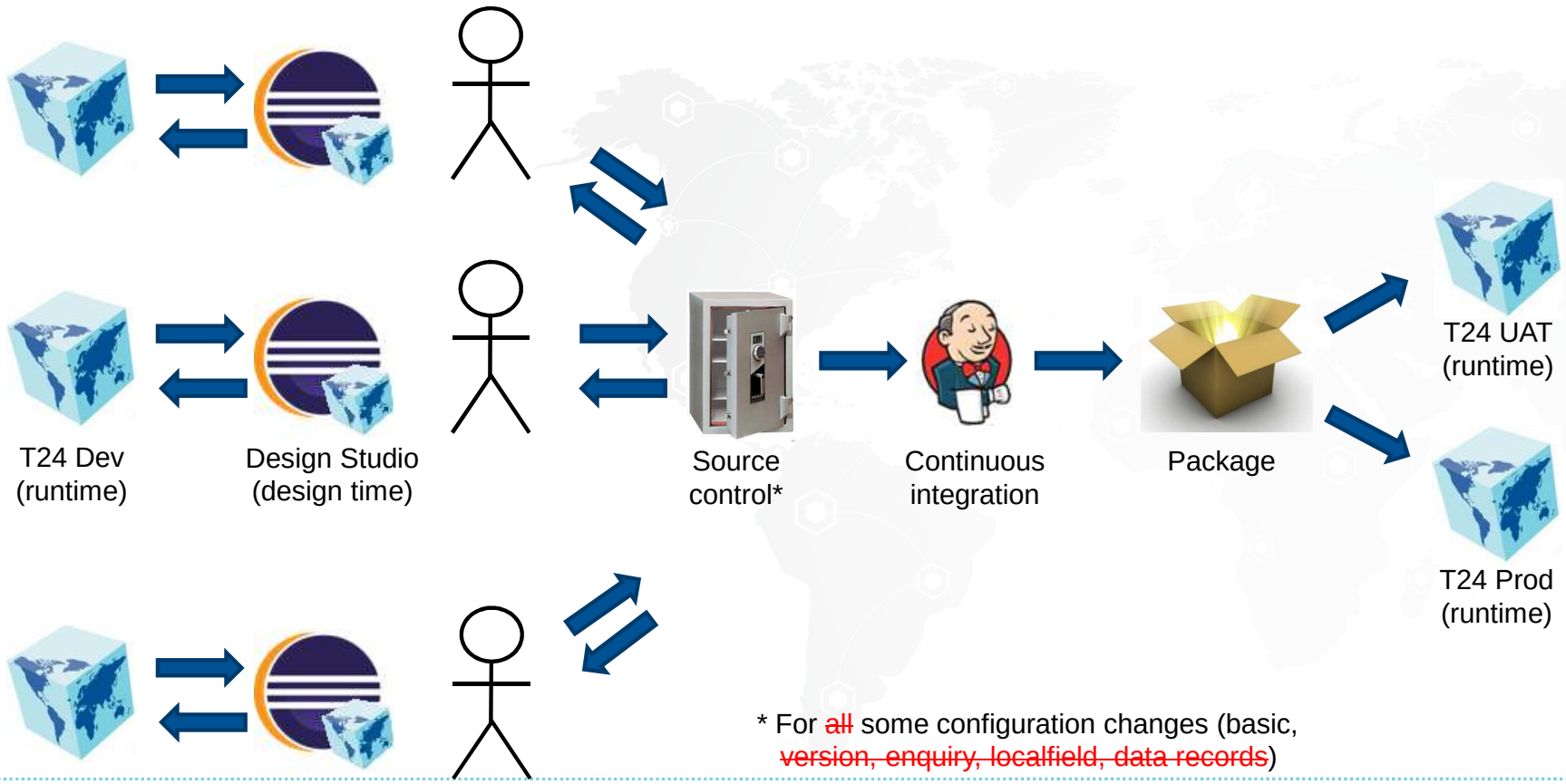
Anti-pattern: manual change



Anti-pattern: manual change

- Issues
  - Poor automation
    - The environment tested cannot be replicated to the next stage automatically
  - Poor traceability
    - Hard to find out the missing configuration to get the next environment working

Anti-pattern: incomplete design time



* For ~~all~~ some configuration changes (basic, ~~version, enquiry, localfield, data records~~)

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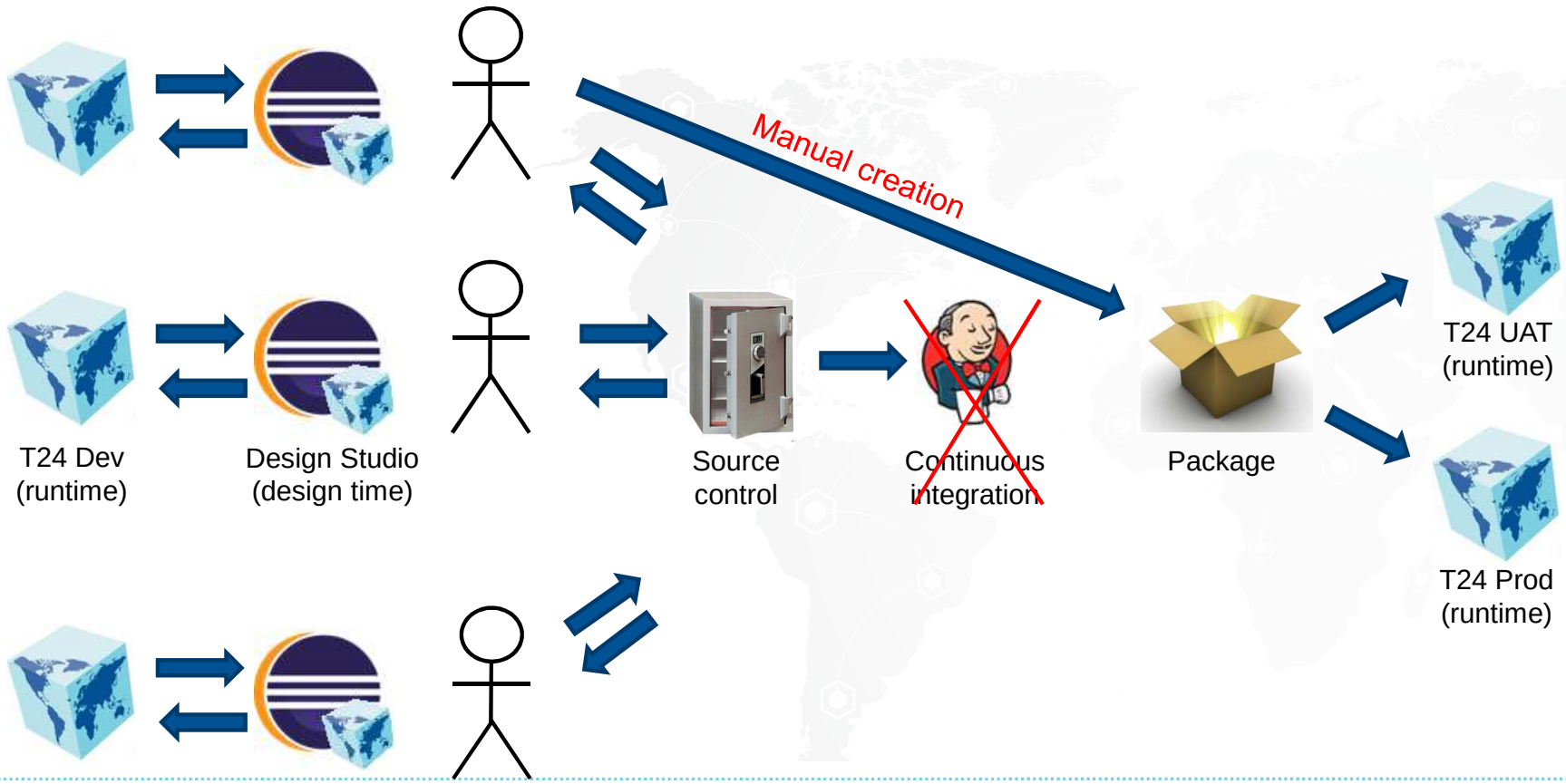
Anti-pattern: incomplete design time

- Issues
  - Limited automation
    - Manual operations are error prone and reduce quality
  - Poor traceability
    - Impossible to know who has changed what and when

Anti pattern: manual modification of test env



Anti-pattern: incomplete design time

- Issues
  - No guaranties the package include all changes in source control
  - Manual operations are error prone and reduce quality
  - Poor traceability
    - Impossible to know who which changes are included in the package
  - Late defects detection

Thank you

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