Migrating to OSPP

How we switched an ongoing evaluation to a new PP

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OSPP

- "With the EAL4 Common Criteria certification of z/OS V1R11, IBM was the first exploiter of the newest addition to the list of Common Criteria Protection Profiles, the Operating System Protection Profile (OSPP). This presentation will provide insight into the experiences of the Evaluator (Atsec) and Vendor (IBM) during the birth of the OSPP concept, the development of the standards, and the final implementation."

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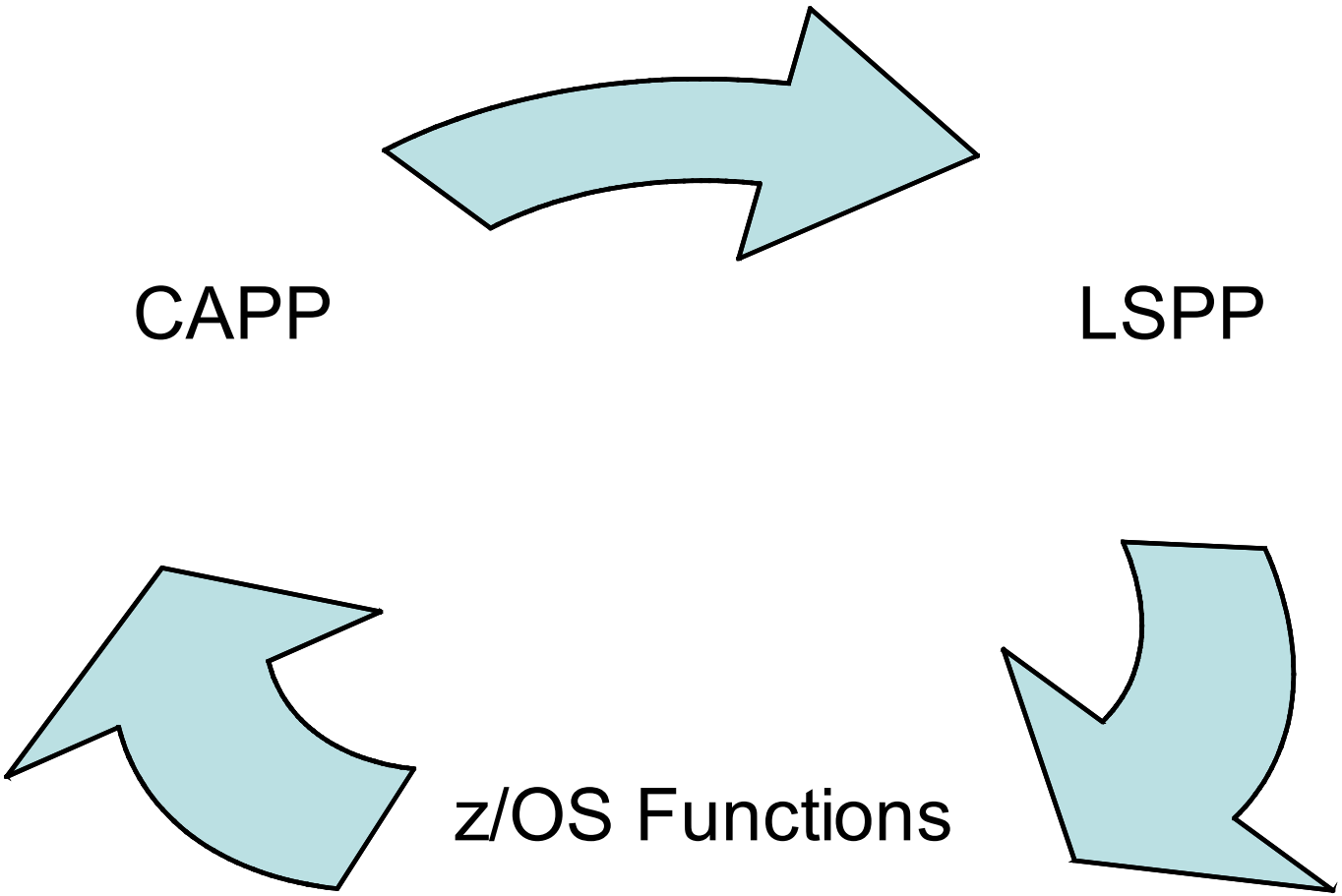
Security Target



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Initial Strategy

- Switch to OSPP was risky near end of evaluation work
- Minimize risk:
  - No new functions
    - Restrict changes to ST and mappings from ST to other documentation
  - Claim only extended packages which are fully covered by already evaluated functionality
  - Using XML tools to rewrite ST will help to ensure consistency
- Extended packages:
  - Labeled Security
  - Advanced I & A

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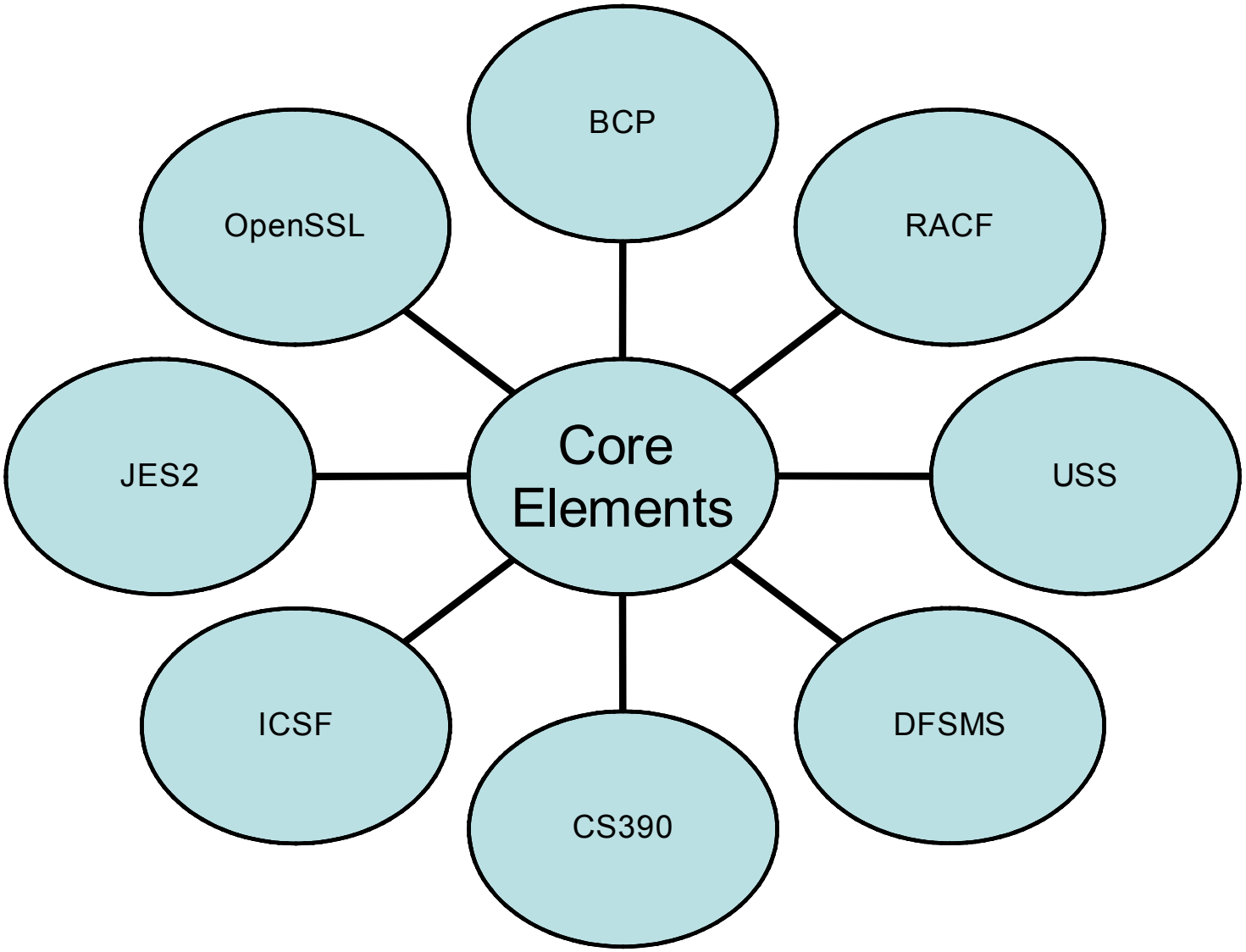

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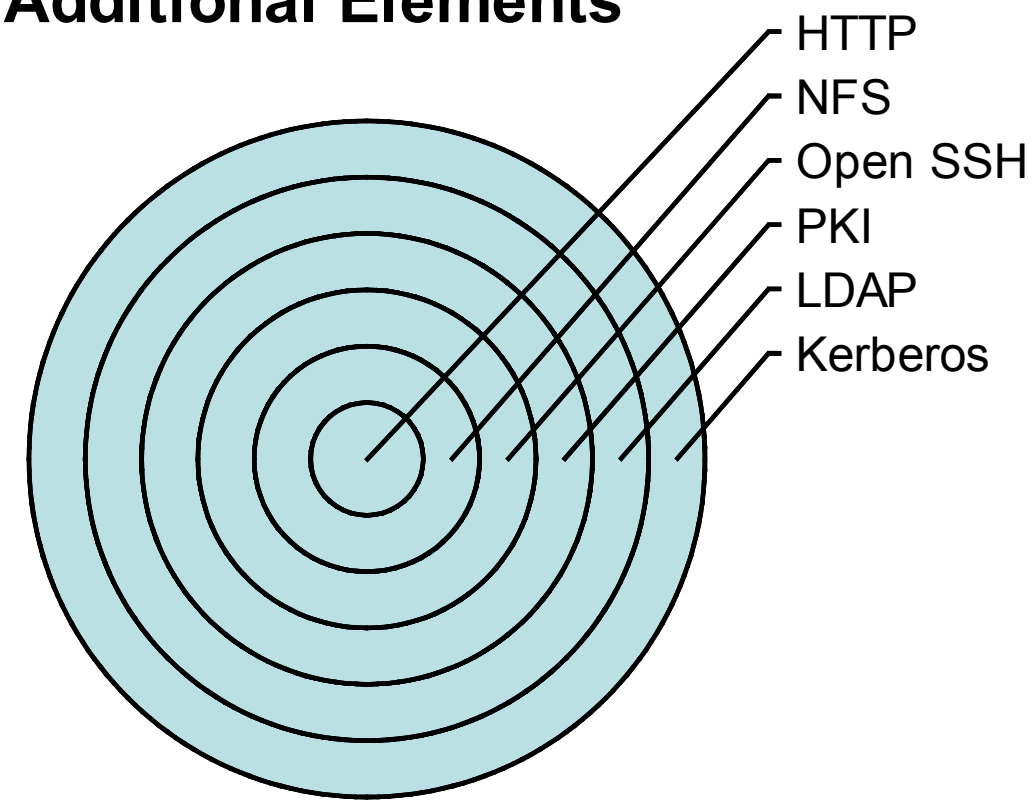
Additional Elements



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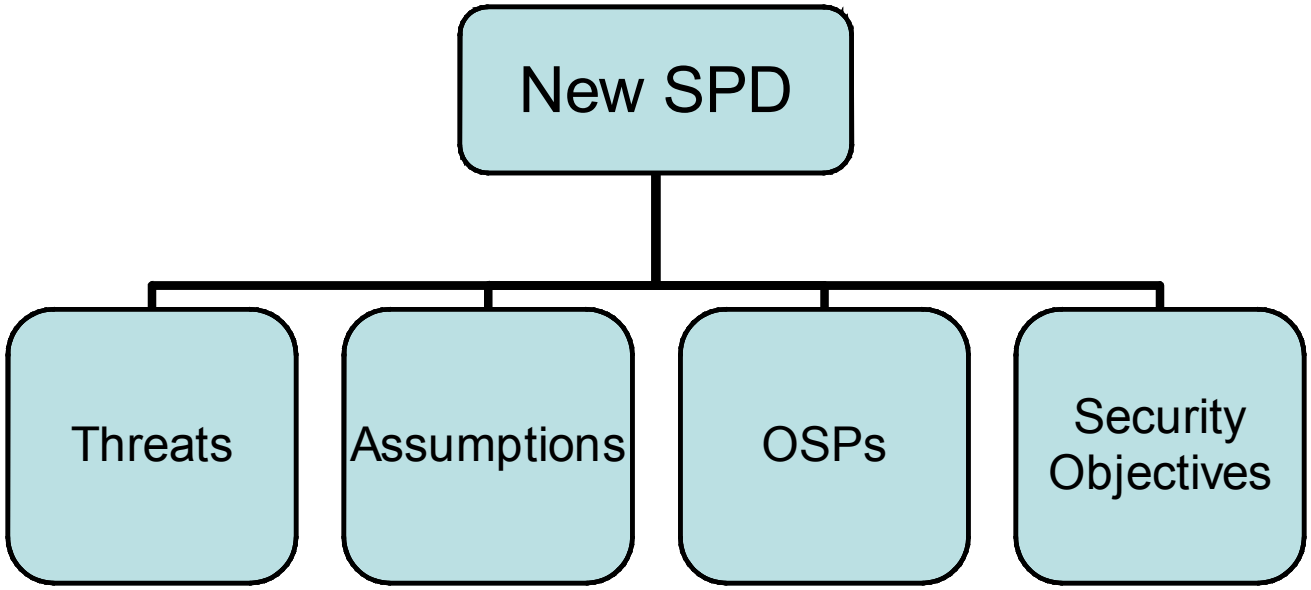

Strategy: Use SPD from OSPP, replacing LSPP/CAPP SPD

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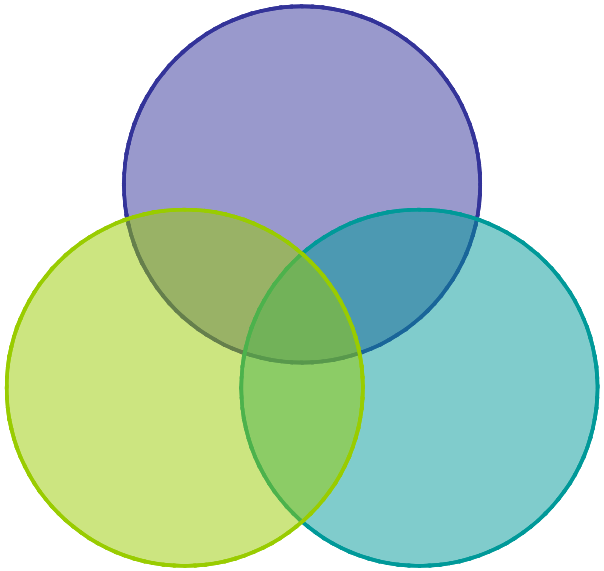
New ST

New SFRs



New
TSF to SFR
Mapping

Updated
Rationale

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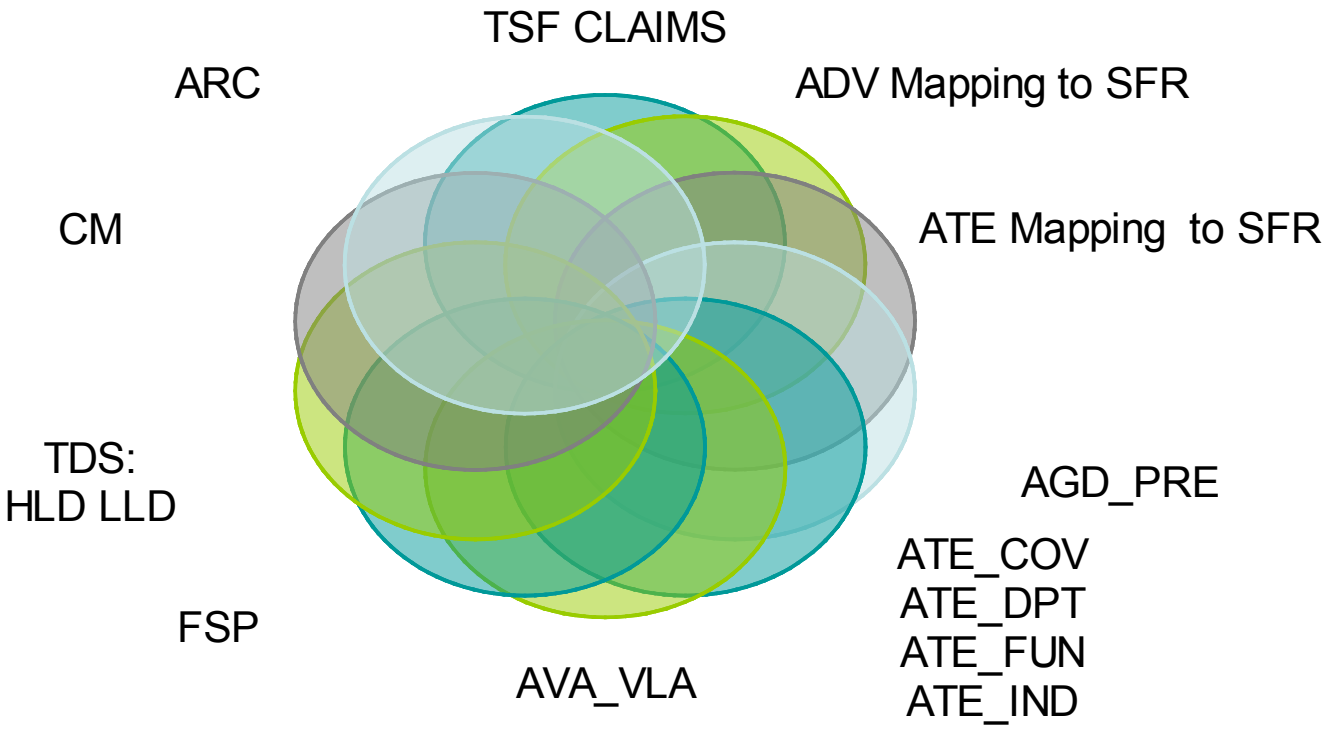
What remained the same?



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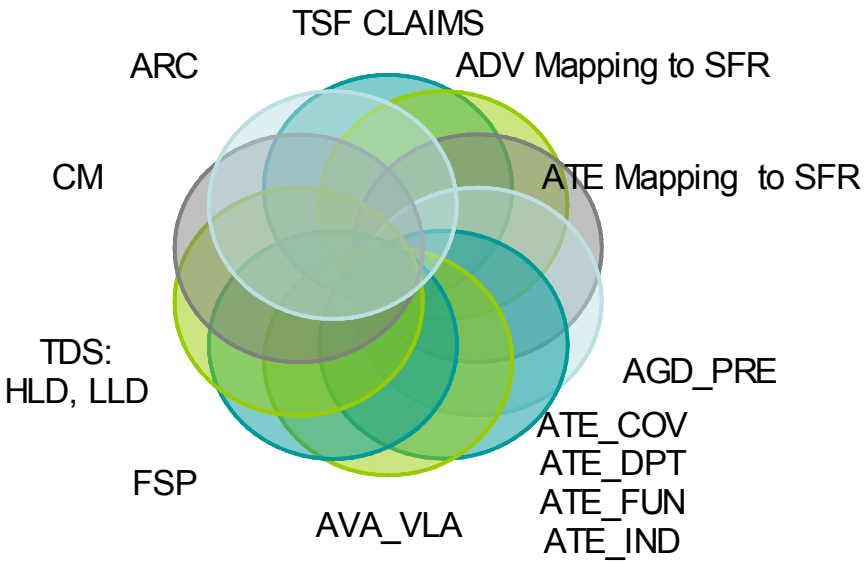
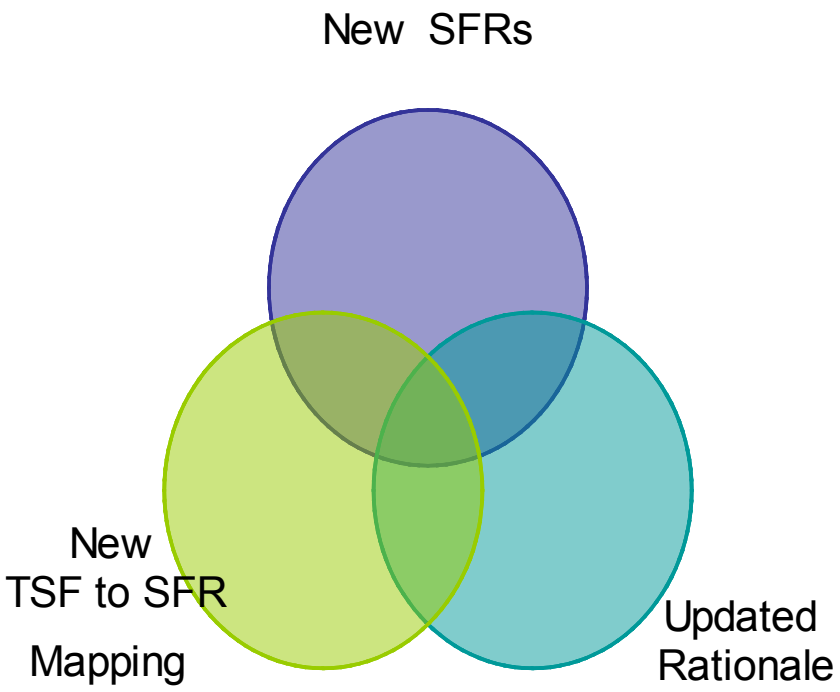
COMPARISON of ST Changes

Remained the Same



Changed



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Unplanned and Unexpected SFRs

- FCS_RNG (used BSI Test Suite)
- FTA_SSL
  - Irrelevant: No “direct” sessions
  - Current CC cannot deal with conditional SFRs
- FDP_IPC (packet filters)
  - So far, only RACF’s access control to the firewall functions had been claimed
  - Additional Design work (TDS)
  - Required additional unexpected testing
    - Testcases already existed
  - Test documentation updated

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Summary: Evaluator Experience

- Migration was smooth, even though evaluation was in advanced stage
- Major effort: re-writing ST and ASE report
- Numbered Security Claims in TDS helpful to minimize changes
  - No changes in mappings required for TSF and TSFI (FSP, TDS, ATE)
- Few changes for additional functions resulted in few additional changes to evaluation reports
- Tool-based ST authoring reduced ASE work
- **OSPP proven to work for complex system**

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Summary: Vendor Experience

- OSPP Migration was made easier by working closely with evaluator and certifier.
- New SFRs caused some rework during end of cycle.
- Extended evaluation schedule – for good results.

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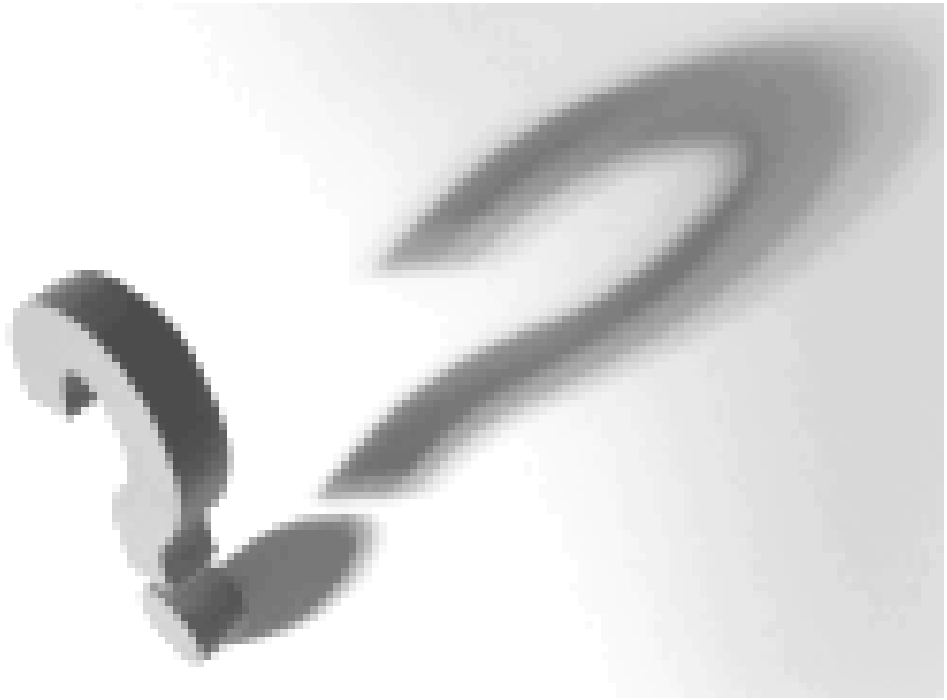
Questions



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