

**Overall Rating:** ★ ★ ★ ★ ☆

Minor process gaps and low severity vulnerabilities identified from active validation. DPP compliant (Excludes SEC-256).  
Hyperscalers configuration issues identified during secure operations review.

Activity done	Result	Comment
<b>Secure Development</b>	★ ★ ★ ★ ☆	<ul style="list-style-type: none"> <li>• ACD is well documented. Customer and Security documentation provided</li> <li>• Threat modelling performed, some of the threats are mitigated and threats which are planned(critical and medium) for mitigation have exception approval</li> <li>• PSC:14 requirements are planned to fulfill out of which 6 are TopX requirement and 1 TopX requirement is in not fulfilled state, all of these have exception approval</li> <li>• SAST: Checkmarx, sonar and fortify scans performed and issues are audited.</li> <li>• OSS: Whitesource scan performed and few medium severity vulnerabilities are open and are within SLA</li> <li>• Secure Operations: Multiple issues related to Hyperscalers configuration have been identified.</li> </ul>
<b>Vulnerabilities</b>	★ ★ ★ ★ ☆	<ul style="list-style-type: none"> <li>• 2 low severity issues identified during active validation</li> </ul>
<b>Data Protection &amp; Privacy</b>	★ ★ ★ ★ ☆	<ul style="list-style-type: none"> <li>• There is an aligned roadmap (exceptional approval) in place for deletion requirement therefore we have skipped analysis of the same in the current validation</li> <li>• Read Access Logging: Application delivers the business partner attachments download and thumbnails as sensitive personal data. Whenever a user views it, the system creates a Read Access Log (RAL) entry.</li> <li>• Consent requirement is not applicable</li> <li>• Data disclosure and Change history features implemented to fulfil the SEC-255 and SEC-265</li> <li>• SEC-364 and SEC-363 requirements planned for Q4 2022</li> </ul>

#	Issue Description	Tracking (System/Link/Message No.)	Status	Severity/ CVSS Rating
10	Product Standard Security Compliance: 14 requirements are planned to fulfill out of which 6 are TopX requirement   1 TopX requirement is in not fulfilled state with exception approval Recommendations: <ul style="list-style-type: none"> <li>Fulfill the requirements as planned.</li> </ul>		Open	Minor
11	OSS : Whitesource scans are performed and few medium severity vulnerable libraries are observed (within SLA) Recommendations: <ul style="list-style-type: none"> <li>Update all the vulnerable libraries to latest libraries.</li> </ul>		Open	Minor
12	Threat Modeling: 1 critical(planned), 8 high(4 mitigated, 4 planned), 13 mediums(6 mitigated, 7 planned) and 1 low(planned mitigation) risk has been identified Recommendations: <ul style="list-style-type: none"> <li>Mitigate all the risks as planned.</li> </ul>		Open	Moderate
25	User Management: AWS access keys not rotated for within 90 days of creation   Few access keys idle and not used for more than 90 days Recommendations: <ul style="list-style-type: none"> <li>Follow the Hyperscaler hardening guidelines provided by the requirement SEC-370.</li> </ul>	<a href="#">STC4CPERF2021-2666</a>	Open	Minor
26	Authorization: AWS IAM Roles have administrator access permissions   AWS MFA not enabled for IAM users Recommendations: <ul style="list-style-type: none"> <li>IAM roles should not have administrator access permissions.</li> <li>Enable MFA for IAM users.</li> <li>Following the Hyperscalers hardening guidelines provided by SEC-370.</li> </ul>	<a href="#">STC4CPERF2021-2292</a>	Open	Moderate



#	Issue Description	Tracking (System/Link/Message No.)	Status	Severity/ CVSS Rating
27	Secure Default: AWS - EKS endpoint publicly enabled   RDS database instance is in a public subnet Recommendations: <ul style="list-style-type: none"> <li>Follow the Hyperscalers hardening guidelines provided by SEC-370.</li> </ul>	<a href="#">STC4CPERF2021-1653</a>	Open	Moderate
28	Secure Default: AWS - ELB access log disabled Recommendations: <ul style="list-style-type: none"> <li>Access Log should be enabled.</li> </ul>	<a href="#">STC4CPERF2021-2292</a>	Open	Minor
29	Secure Default: AWS Elastic Load Balancer with listener is not configured with TLS/SSL Recommendations: <ul style="list-style-type: none"> <li>Harden as per Hyperscalers compliance.</li> </ul>	<a href="#">STC4CPERF2021-2292</a>	Open	Minor
16	Insecure CORS configuration Recommendations: <ul style="list-style-type: none"> <li>Properly configure the CORS headers.</li> </ul>		Open	3.1
17	Missing JWT invalidation after logout Recommendations: <ul style="list-style-type: none"> <li>Invalidate the JWT after log out.</li> </ul>		Open	3.5
18	SDOL-006: SEC-364 Conduct data transfer impact assessments on a regular basis & SEC-363: Engage subprocessors in a compliant and transparent manner: Planned for Q4 2022 Recommendations: <ul style="list-style-type: none"> <li>Fulfil the requirement as per the plan.</li> </ul>		Open	Minor

## Security Validation Level: 2

### Security Validation Activities

Review provided documentation

- Architecture | Customer Documentation | Security Guide | Threat Modelling | Secure Operations

Conference call with developers

Manual runtime test focus: Session Management | Authorization | Configuration review | File upload

Tools: BurpSuite

Check code scan findings(SAST): Scans are performed using fortify, checkmarx and sonarqube, all the issues are audited as per guidelines

OSS scans are performed with whitesource and few medium severity libraries observed(within SLA)

### Secure Operations Review:

- SEC-301: No DR agreements as part of customers contracts. Restoration possible from Backups and Infra DRs available
- SEC-303: Program is part of C4C - Cloud Native Stack and Breach notification is fulfilled by CX C4C
- SEC-307: All AWS accounts are now MFA enabled which is recommended by MultiCloud team
- SEC-308: AWS Cloud Trail logs are sent to Splunk and monitored by SGS | Use cases are defined and controlled by MultiCloud team
- SEC-311: Regular AWS Cloud and MongoDB backups are maintained | Restoration steps and test results are provided
- SEC-340: C4C Cloud Native CAM profiles exist for various support activities
- SEC-370: Following Hyperscaler configuration issues identified
  - AWS access keys not used for more than 90 days
  - AWS IAM access keys should be rotated within 90 days of creation
  - AWS IAM Roles should not have administrator access permissions
  - AWS MFA not enabled for IAM users
  - AWS Elastic Load Balancer (Classic) with access log disabled
  - AWS Elastic Load Balancer with listener TLS/SSL is not configured
  - AWS EKS cluster endpoint access publicly enabled
  - AWS RDS database instance is in a public subnet



## Test landscape

Customer-like landscape requested for validation: YES

Tests performed on Validation system

Test landscape issues: NONE

## Security Validation Coverage

Process review, Active testing, DPP, Secure Operations

# Star Rating Matrix



## CORPORATE REQUIREMENT VIOLATION

Activity done	☆☆☆☆☆ (0)	★☆☆☆☆ (1)	★★☆☆☆ (2)	★★★☆☆ (3)	★★★★☆ (4)	★★★★★ (5)
<b>Secure Development</b>	>= 3 open Severe / Significant OR >=7 open Moderate	2 open Severe / Significant OR 6 open Moderate	1 open Severe / Significant OR 5 open Moderate	No open Severe / Significant, 4 open Moderate	1 - 3 open Moderate	No Severe / Significant issues found during AND no open Moderate at end of Security Validation
<b>Vulnerabilities</b>	1 open Vulnerability with CVSS >= 9	1 open Vulnerability with CVSS >= 8	1 open Vulnerability with CVSS >= 7	>= 5 open Vulnerabilities with CVSS < 7	1 - 4 open Vulnerabilities with CVSS < 7	No open Vulnerabilities at end of Security Validation
<b>Data Protection &amp; Privacy</b>	>= 3 open Severe / Significant	2 open Severe / Significant	1 open Severe / Significant OR >= 4 open Moderate	1 - 3 open Moderate	All Severe / Significant / Moderate findings closed, open Minor	No Severe / Significant issues during AND no open findings at end of DPP Validation

Security Validation Wiki for Process Description and Frequently Asked Questions:

<https://wiki.wdf.sap.corp/wiki/display/SecVal/Project+Close+and+Security+Validation+Report>

<https://wiki.wdf.sap.corp/wiki/display/SecVal/After+Project+Close++Handling+Open+Issues+for+RDM>