



PROTECTED B

GenAI Copilot for Curam to Assist Agents

Benefits Delivery Modernization

Service Canada

Risk Mitigation Plan

CYBER AND IT SECURITY
INNOVATION, INFORMATION AND TECHNOLOGY BRANCH

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Document Revision History

	Description	Author	Date
0.1	Risk Mitigation Plan - initial draft	Dan Bastianello	2024-Mar-25
0.2	Adding LOE for identified risk	Dan Bastianello	2024-Mar-27
0.3	Updating LOE and costing of mitigation	Dan Bastianello	2024-Mar-27
0.4	Initial internal review	Andrea Lemieux	2024-Mar-28
0.5	Adjustments to the risk wording	Erin Rowlinson	2024-04-02
0.6	Initial internal editing review	Beth Roodman	2024-04-04
0.7	Second internal review	Erin Rowlinson	2024-04-05
0.8	Comment review and reply	Dan Bastianello	2024-04-08
1.0	Clean up of comments and updates to signature blocks	Erin Rowlinson	2024-04-08
1.1	Removal of ACME Consolidated risks	Erin Rowlinson	2024-04-12
1.2	Adjusted wording of second sentence in inherited risks section	Erin Rowlinson	2024-04-15

1. Introduction, Purpose and Use

This Risk Mitigation Plan (RMP) was prepared for ESDC GenAI Copilot for Curam to Assist Agents (Copilot).

The purpose of this RMP is to document risk mitigation actions which, if implemented, could reduce the risk of Copilot. This RMP was initially developed and reviewed within IT Security before being submitted to the IT solution development team for review and completion.

Once Copilot is authorized, the RMP serves as the action plan to address outstanding risks as noted and allows IT Security to monitor and report on the progress of the risk mitigation to the IT and Business Authorities.

2. Risk Mitigation Plan

The following table outlines the RMP. Below is a description of each column:

- **Number:** Sequential number
- **Risk Statement and Risk Level:** Short description of the risk and level of the risk
- **Recommendation and Mitigation Strategy:** Indication of the residual risk after mitigation
- **Lead:** Individual responsible for the action(s)
- **LOE:** Level of Effort (days) required for action(s) to mitigate the risk
- **Cost:** Estimated cost of action(s) to mitigate the risk
- **Commence:** Planned commencement of action(s) to mitigate the risk
- **Completion:** Planned completion of action(s) to mitigate the risk

2.1 Inherited Risks

Only risks that require mitigation by the Copilot solution team are included in the Risk Items and Action Items section of this RMP. Risks that are inherited by this solution are listed in the following table.

The inherited risks impacting Copilot are listed below.

Note: as of April 8, 2024, there are 67 risks inherited from the Azure Cloud Management Environment (ACME). Refer to the ACME Risk Mitigation Plan for additional details on all ACME risks.

Parent Risk ID #	Risk Statement	Risk Level	Planned Completion
TBDs	Inherited risks related to the Azure Cloud Management Environment (ACME)	HIGH	Q4 2027

2.2 Risk Items and Action Items

	Risk Statement and Risk Level	Recommendation and Mitigation Strategy	Lead	LOE	Cost	Commence	Completion
1	<p>Risk to Confidentiality and Integrity because phased out TLS 1.2 ciphers potentially continue to be enabled - MEDIUM RISK</p> <p>There is a possible risk to Confidentiality and Integrity due to potentially enabled phased out TLS 1.2 ciphers as per ITSP.40.062 Table 3: Recommended Cipher Suites for TLS 1.2. The phased out ciphers could allow eavesdropping and manipulation on secured communications. This risk is identified as Medium because the solution will only be used within ESDC and the documents consumed by the solution do not contain any sensitive or classified information.</p> <p>This is assessed as a MEDIUM risk, more specifically:</p> <ul style="list-style-type: none">• Risk Rating - Confidentiality – MEDIUM• Risk Rating - Integrity – MEDIUM• Risk Rating - Availability - LOW <p>Risk Calculation: Asset Value (AV) x Threat (T) x Vulnerability (V)</p> <p>Values: AV = 2, T = 3, V = 3</p> <p>Total Risk Score = 18 which is MEDIUM in accordance with HTRA methodology</p>	<p>The use of an API proxy be used with the solution is recommended, which would allow for enabling or disabling of supported ciphers. The following phased out ciphers must be disabled in accordance with ITSP.40.062 Table 3 TLS 1.2 cipher suites:</p> <ul style="list-style-type: none">• TLS_RSA_WITH_AES_256_GCM_SHA384• TLS_RSA_WITH_AES_128_GCM_SHA256• TLS_RSA_WITH_AES_256_CBC_SHA256• TLS_RSA_WITH_AES_256_CBC_SHA• TLS_RSA_WITH_AES_128_CBC_SHA256• TLS_RSA_WITH_AES_128_CBC_SHA• TLS_ECDHE_ECDSA_WITH_3DES_EDE_CBC_SHA• TLS_ECDHE_RSA_WITH_3DES_EDE_CBC_SHA• TLS_DHE_RSA_WITH_3DES_EDE_CBC_SHA• TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA• TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA• TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA• TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA• TLS_DHE_RSA_WITH_AES_256_CBC_SHA• TLS_DHE_RSA_WITH_AES_128_CBC_SHA <p>The residual risk rating after the mitigation strategy is implemented has been evaluated as:</p> <ul style="list-style-type: none">• Risk Rating - Confidentiality - LOW• Risk Rating - Integrity - LOW• Risk Rating - Availability - LOW	Benoit Phaneuf	IT-SecDev x 1 day	\$1500	May 2024	May 2024

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