

TREADSTONE 71

**CYBER AND THREAT INTELLIGENCE
FOURTH QUARTER 2020 MATURITY
ASSESSMENT AND TRAINING COMBO**

Treadstone 71

Maturity & Training Combo



Cyber Intelligence Maturity Assessment - Online training of Certified Cyber Intelligence Analyst Your Company Focused Customization

Tier 1 Cyber Intelligence Maturity Assessment - Overview

- In-depth questionnaire - we provide oversight for you to complete the questionnaire
 - Customization – Stakeholder interviews
 - Questionnaire update
 - Maturity level targets
- Artifact review
 - **Analysis of questionnaire results - we will request supporting documentation firsthand (secure review after signing your NDA) to validate the scoring**
- Create the Assessment Report (review and brief with core team)
 - Final adjustments
- Final report delivery, point-of-contact brief
- Online executive brief of the results
- NOTE: There are additional (optional) Tiers for the assessment that require more time

Q42020 Maturity & Training Combo



- Tier 1
 - We guide you through the self-assessment questionnaire – how to complete the questionnaire
 - Review the questions so you can gather your artifacts
 - 10 days to complete on your end
 - 10 days to complete on our end
 - Update the assessment
 - Provide a 1-2 page written corresponding to the final assessment
 - Recommendations
 - Modifications to existing cyber intelligence lifecycle training
 - Adjust training based on gaps
 - Mix, match, update

CTIC-CMM - Introduction

General Information

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Date	2018-10-10

The CTIC-CMM is a capability maturity model that can be used to perform a self-assessment of your Cyber and Threat Intelligence Center (CTIC). The model is based on review conducted on literature regarding CTIC setup and existing CTIC models as well as literature on specific elements within a CTIC. The literature analysis was then validated by questioning several cyber and threat intelligence programs in different sectors and on different maturity levels to determine which elements were actually in place. The output from the survey, combined with the initial analysis is the basis for this self-assessment.

For more information regarding the scientific background and the literature used to create the CTIC-CMM self-assessment tool, please refer to the thesis document as available through: <https://www.treadstone71.com>

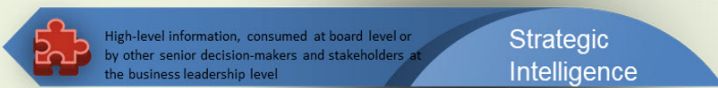
If you have any questions or comments regarding the contents of this document, please use the above information to contact me.

Purpose & Intended Audience

The purpose of the CTIC-CMM is to gain insight into the strengths and weaknesses of the CTIC. This enables the CTIC management to make informed decisions about which elements of the CTIC require additional attention and/or budget. By regularly assessing the CTIC for maturity and capability, progress can be monitored.

Besides the primary purpose of performing an assessment of the CTIC, the assessment can also be used for extensive discussions about the CTIC and can thus provide valuable insights.

This tool is intended for use by CTIC managers, experts within the CTIC and CTIC consultants.



CTIC-CMM Scope

Scope

Please select the services and technologies that should be included into the assessment. Excluding a service or technology here will exclude it from scoring.

CTIC Tools (Technology domain)	Include into CMM?	Remarks
TIP Tool	Yes <input type="checkbox"/>	Threat Intelligence Tools
Collection Tool - Data Provenance	Yes <input type="checkbox"/>	Collection Management and Data Provenance (credibility/validity/relevance)
Open Source Tools	Yes <input type="checkbox"/>	Open source and 'small money' tools used for passive collection
CTIC Services (services domain)		
Planning - Intelligence Requirements	Yes <input type="checkbox"/>	
Collection Management - OSINT	Yes <input type="checkbox"/>	
Structured Analytic Techniques	Yes <input type="checkbox"/>	
Threat Intelligence and Hunting	Yes <input type="checkbox"/>	
Analysis	Yes <input type="checkbox"/>	
Analytic Writing/Reporting/Dissemination	Yes <input type="checkbox"/>	

Sample question areas

- 1.6.1 Aggregation
- 1.6.2 Correlation
- 1.6.3 Enrichment
- 1.6.4 Threat Hunting integration
- 1.6.5 New data source onboarding
- 1.6.6 Automated alerting
- 1.6.7 Alert acknowledgement
- 1.6.8 Automated threat transfer to threat hunting
- 1.6.9 Internal indexing and search
- 1.6.10 Visualize threat intelligence information
- 1.6.11 TIP Workflow for case assignment
- 1.6.12 Automated report generation for IOCs
- 1.6.13 Automated report generation for Adversaries and Campaigns
- 1.6.14 Extract adversary and campaign data from unstructured reports
- 1.6.15 Standardized tagging methods
- 1.6.16 Data feed metrics for false positives
- 1.6.17 Standard rules
- 1.6.18 Custom rules
- 1.6.19 Classification levels and TLP
- 1.6.20 Customised TIP reports
- 1.6.21 Customised TIP dashboards
- 1.6.22 Granular access control
- 1.6.23 API Integration
- 1.6.24 Support confidence ratings for IOCs and warning signals
- 1.6.25 Generate reports combining structured and unstructured, and internal external threat intel

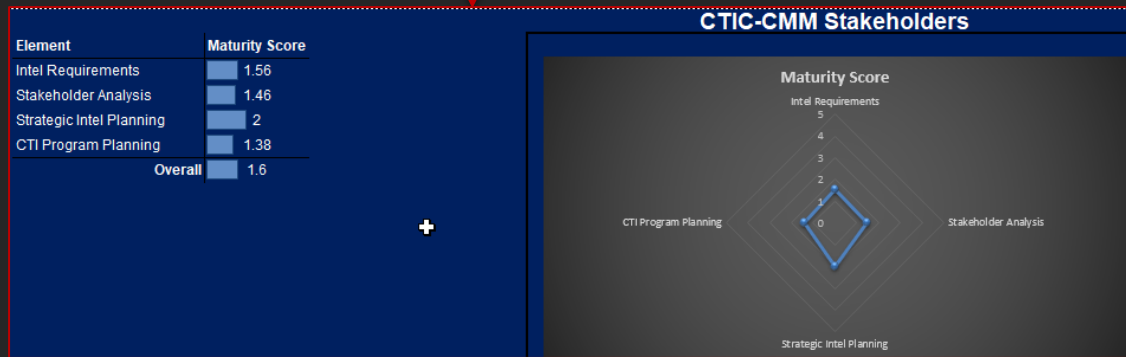
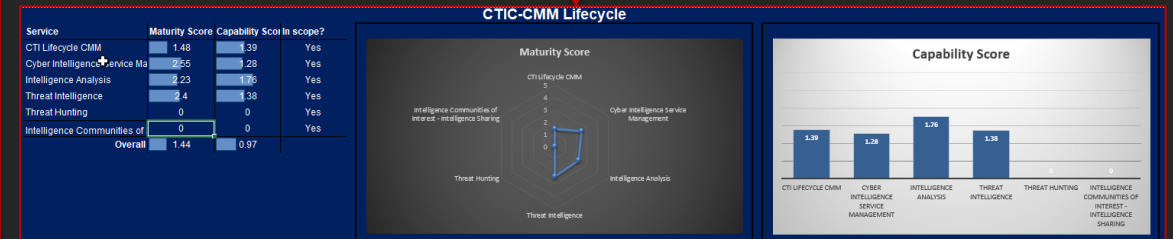
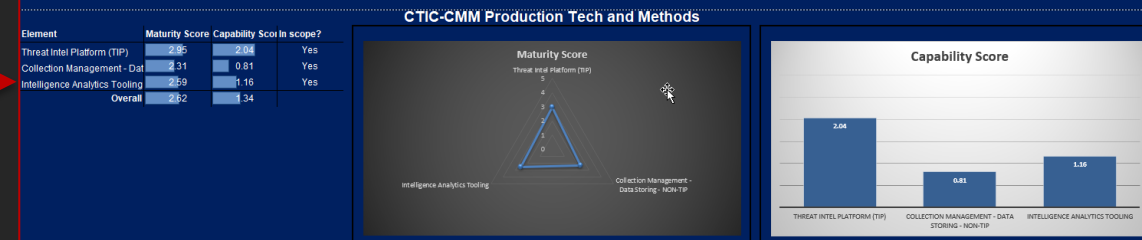
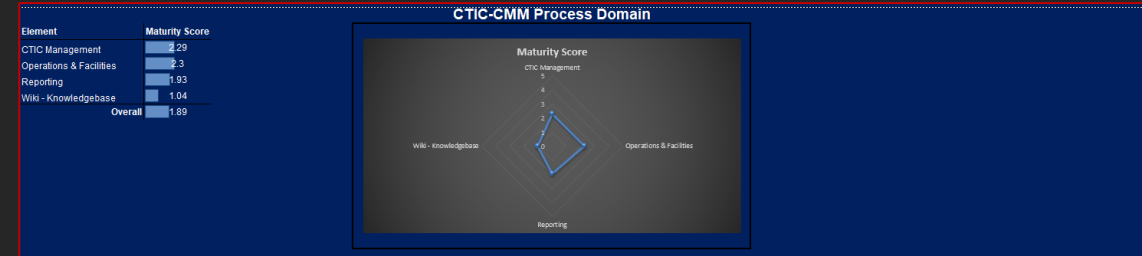
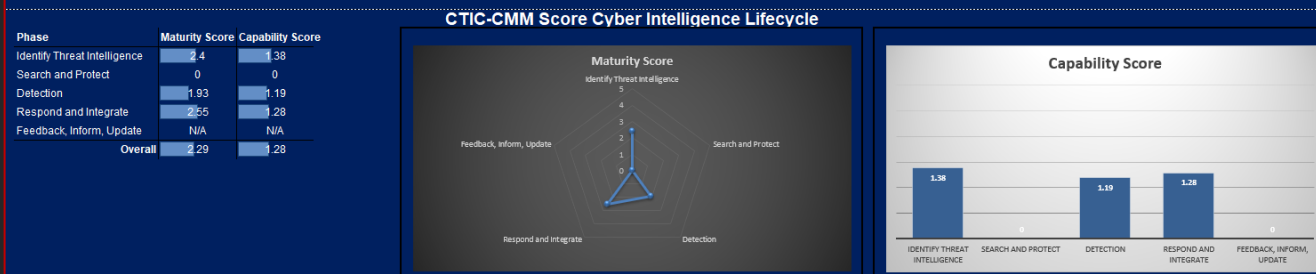
- Integration of security incident management
- Integration of security monitoring
- External threat intelligence integration
- Advanced searching and querying
- Data visualisation techniques
- Data drilldowns
- Detailed audit trail of analyst activities
- Historical activity detection
- Structured data collection
- Unstructured data collection
- Mitre ATT&CK Usage
- Adversary ATT&CK Models created and maintained?
- Tactics updated and maintained?
- Techniques updated and maintained?
- Targeted Adversary Matrices
- Limited / Adversary to Organization
- Generic Adversary Matrix
- Adversary General to Association
- Complex and Client Critical Systems

Please specify capabilities and artefacts of Threat Hunting process

- 5.14.1 Threat Hunting Lifecycle
- 5.14.2 Threat Hunting Policies
- 5.14.3 Threat Hunting Procedures
- 5.14.4 Threat Hunting RACIs
- 5.14.5 Threat Hunting Patrolling
- 5.14.6 Threat Hunting Stalking
- 5.14.7 Searching, clustering, grouping, stack counting
- 5.14.8 Threat Hunting Process Flow
- 5.14.9 Threat Hunting Entry Point

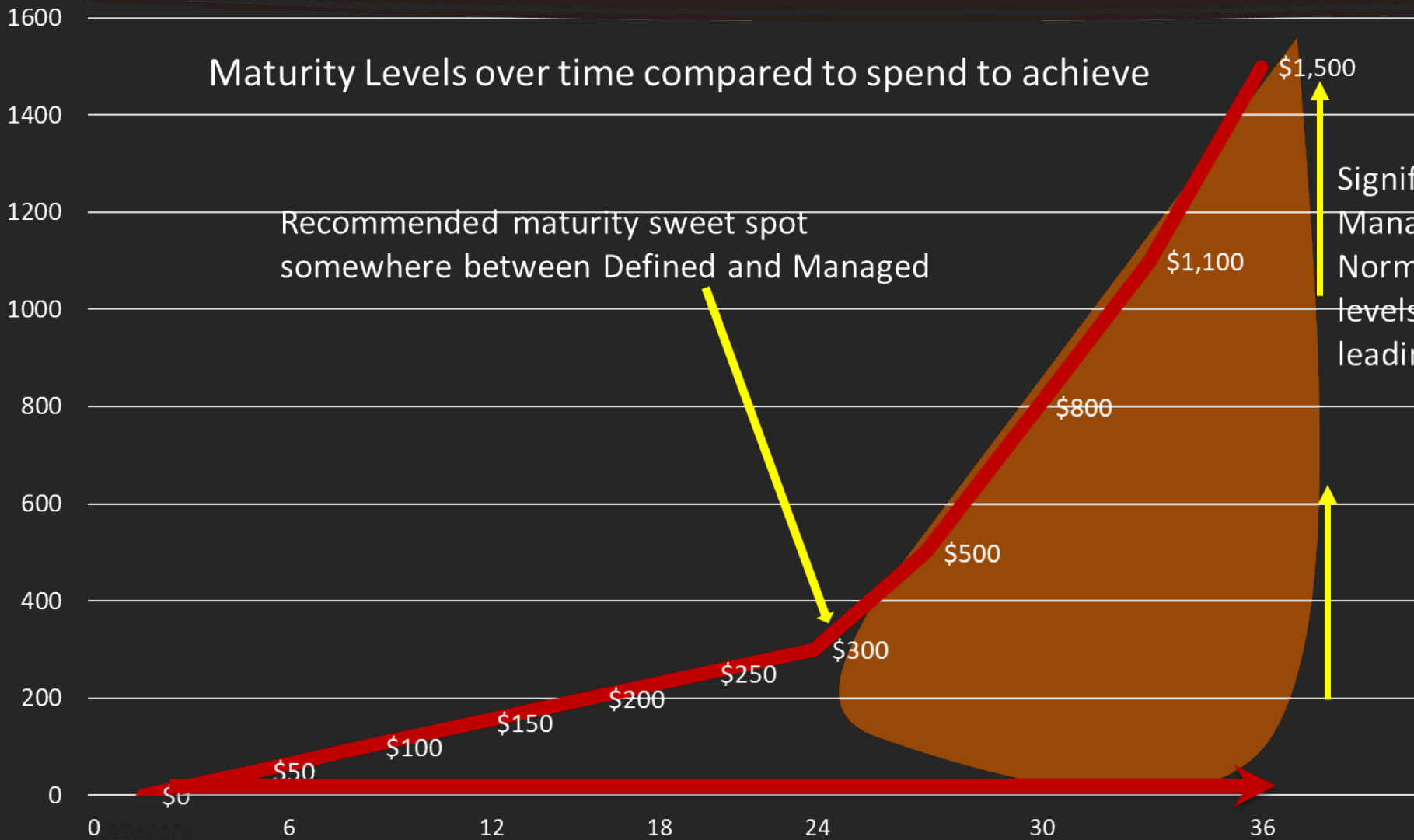
Averagely	Mostly
Averagely	No
Partially	Partially
Partially	No
Fully	Partially
Averagely	
Averagely	
Partially	
Averagely	
46	
Answer	
Have you formally built a threat hunting capability?	Normal
Please specify elements of the threat hunting service document:	
Key performance indicators	No
Quality indicators	No

Result Charts



Understand the Cyber Intelligence Maturity Levels – Diminishing Returns

Increasing Spend need to achieve Maturity Levels



Maturity Levels over time compared to spend to achieve

Recommended maturity sweet spot somewhere between Defined and Managed

Significant spend to achieve Managed and Optimized. Normal achievement of highest levels is difficult to maintain leading to additional spend.

0 to 36 months aligned to potential maturity level achievement

Initial Repeatable Defined Managed Optimized

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Note: Spend numbers used for this example are arbitrary and set to demonstrate Diminishing Return on Investment

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