

draft-ietf-mile-rfc5070-bis-00

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Firefox Custom Query – mile

http://trac.tools.ietf.org/wg/mile/trac/report/1

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Ticket	Summary	Component	Status	Type	Priority	Milestone
#1	Fix internationalization	rfc5070-bis	new	defect	major	
#2	Add better reference (citation) to RecordPattern@type=regex	rfc5070-bis	new	defect	major	
#3	Review implementation of extending enumerated values	rfc5070-bis	new	task	major	
#4	Add support for domain name meta data	rfc5070-bis	new	enhancement	major	
#5	Review all requirements key words (RFC 2119)	rfc5070-bis	new	task	major	
#6	Harmonize the specification for Reference with other WG activity	rfc5070-bis	new	task	major	
#7	Review completeness of NodeRole@category	rfc5070-bis	new	task	major	
#8	Review completeness of HistoryItem@action	rfc5070-bis	new	defect	major	
#9	Review completeness of @restriction	rfc5070-bis	new	defect	major	
#10	Review completeness of Impact@type	rfc5070-bis	new	defect	major	
#11	Add geolocation representation to Node/System	rfc5070-bis	new	enhancement	major	
#12	Define clear scope for the core data model relative to other WG documents and future extensions	rfc5070-bis	new	task	major	
#13	Review completeness of recent additions in 5070-bis	rfc5070-bis	new	enhancement	major	
#14	Add predicate logic for indicators	rfc5070-bis	new	enhancement	major	
#15	Missing description of classes introduced in -00 draft	rfc5070-bis	new	defect	major	
#16	Add support for describing if a device is physical or virtual	rfc5070-bis	new	enhancement	major	
#17	Review completeness of Incident@purpose	rfc5070-bis	new	defect	major	

Note: See [TracQuery](#) for help on using queries.

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○ Will be fixed in -01 draft (that didn't make the cut-off)

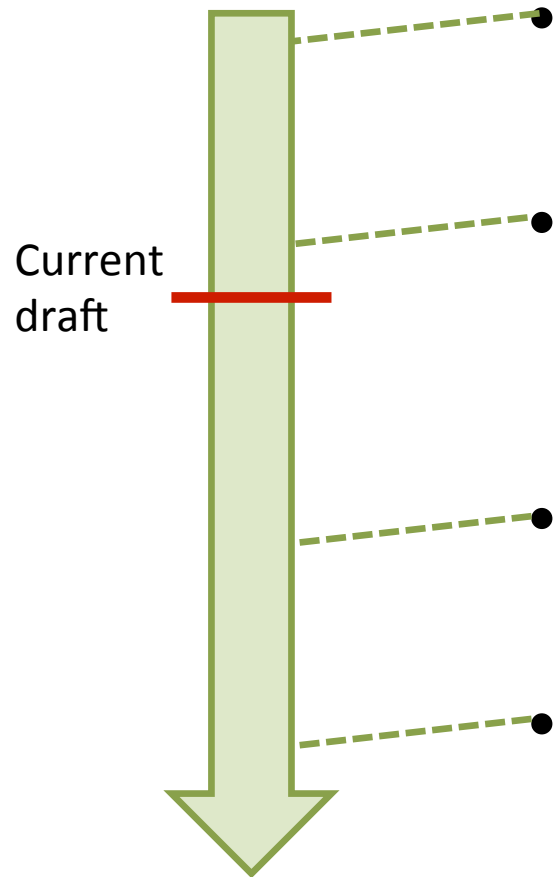
Checking Scope

	Classes of Data	Description
1	Cyber Intelligence Analysis	Describes the characteristics of the threat
2	Cyber Incident Reporting	Describes a particular cyber event
3	Cyber Event Mitigation	Describes a proactive or reactive mitigation
4	Cyber Information Sharing	Describes the meta-data necessary to share information with a third party

- What data should be represented in a extension rather than in the code data model?

Cyber Intelligence Scope

Cyber Incident Reporting



- Describe the source and target of the event

- Describe a technical pattern of a given tactic used in an attack (e.g., indicators or signatures)

- Describe the actors perpetrating the attack?

- Characterize the capabilities and intent of the actors?

Cyber Intelligence Analysis

Cyber Intelligence Scope (2)

- What other indicator data fields should be add?
 - File information (e.g., size, attributes, ACLs, ADS, PE information)
 - Process information (e.g., pids, chains, loaded libraries)
 - Mutex names
 - Device state (e.g., ARP or routing table, disk geometry, BIOS, network settings)
 - Email (e.g., arbitrary headers, structure of contents)
 - Currently already support From, Subject, X-Mailer
 - HTTP (e.g., arbitrary headers)
 - Currently already support URL and UserAgent
 - TLS Certificate or certificate chains
 - External signatures languages (e.g., Yara, snort, Bro)
- Explicitly express a relationships between indicators?
 - e.g., “(From: Email1 and Email1) OR (X-Mailer)”
- Absence of an indicator?
- Valid time to apply the indicator (EventData/StartTime and EndTime?)

@Indicator-UID and @Indicator-set-ID

```
<System category="source">
  <Node>
    <Address category="ipv4-addr"
      indicator-uid="csirt-2013-9083-3094f"
      indicator-set-id="csirt-28897283">
    ...
  <History>
    <HistoryItem indicator-uid="csirt-2013-3283-2389"
      indicator-set-id="csirt-28897283"
      action="investigate">
    ...
```

Applies to:

```
<HistoryItem>
<Expectation>
<Reference>
<Assessment>
<Address>
<Service>
<EmailDetails>
<RecordData>
<RegistryKeyItem>
<FileName>
```

Missing:

```
<DomainData?>
```

- Uniquely reference data in the document that can be used as indicators
 - *Quickly find only the indicators and treat the rest as of the information as context*
- Implementation experience
 - Are the attributes at the right top level class?
 - Is there a need to further describe the `indicator-set-id`?

Cyber Intelligence Scope (3)

```
+-----+
| RelatedActivity |
+-----+
| ENUM restriction |<>--{1..*}--[ IncidentID ]
|                  |<>--{1..*}--[ URL           ]
+-----+
```

- What further relationships between incident reports should be provided?
 - Label describing activity as a campaign (e.g., APT1)
 - Confidence in this label or IncidentID
 - Description explaining the means or rational for this attribution

Cyber Incident Reporting Scope

- What other data fields should be add?
 - Expectation and HistoryItem
 - Predefined course of action -- add another class (other than Description) to encode the action when @action="other"?
 - Add a cost metric to the action?
 - Add an efficacy statement to the action?
 - System
 - Asset Number (needed if System/AdditionalData/Platform used?)
 - Add Contact (needed if EventData/Contact?)
 - Indicator of ownership (e.g., Corporate, Partner, Personally)?
 - What specific location information is needed beyond System/Location?
 - Contact
 - Add Contact/Title (e.g., *Mr.* Smith, *Captain* Johnson)?
 - Split Contact/ContactName into a given name and surname?
 - Add Contact/Department?
 - Add Contact/NetworkUserId (e.g., LOCALNET\john)?

Cyber Incident Reporting Scope (2)

– Assessment

- Summary of impact to business/mission (add Incident/Assessment/Description? Some enumerate qualitative impact?)
- Enumerate intended purpose of attack (e.g., theft-of-IP, degradation of service, fraud)?

Cyber Information Sharing Scope

- How should indicator matches be returned?
- How should document updates be sent?

Discussion