

# 2021-12-02 OIMT Meeting notes

## Date

02 Dec 2021

## Attendees

- [Hing-Kam Lam](#)
- [Malcolm Betts](#)
- [Xiang YUN](#)
- [Leo Nederlof](#)
- [Chris Hartley](#)
- [Xiaobing NIU](#)
- [Nigel Davis](#)
- [Andrea Mazzini](#)

## Agenda

- Admin
- Action item status (ALL)
- Review IETF/IEEE documents and CH slides and merge as appropriate into simplified spec. (ND) **Deferred**
- Early draft of OAM document (AM, ND)
- Aggregate tagging in the UML model
- DMTF email on security protocol (DMTF DSP0274 Security Protocol and Data Model (SPDM) Specification) (CH)
- AOB

## Discussion items

Time	Item	Who	Notes
5 min	Admin	All	<p>TR-512 release 1.5 announced on OIMT mailing list on 18 November 2021.</p> <p>OIMT <a href="#">Conference Call Schedule</a></p> <ul style="list-style-type: none"><li>• December: Meet only on Dec. 2 due to ITU-T SG15 meeting (Dec. 6-17) and holidays</li><li>• January 2022: Resume calls from Jan. 6</li></ul> <p>OIMT 2022 Virtual F2F in 2022.</p> <ul style="list-style-type: none"><li>• Planned for April 4 - 8<ul style="list-style-type: none"><li>• <a href="#">2022 April 19 - 22: OIMT Virtual Face-to-Face</a></li></ul></li></ul>
10 min	Action items	All	<p><a href="#">Actions</a></p> <ul style="list-style-type: none"><li>• Items older than Jan 2020 have been filtered and NOT shown on the main <a href="#">Actions</a> page,<ul style="list-style-type: none"><li>• but they are still available on the <a href="#">All Actions (for background processing)</a> sub-page " for checking and deleting the completed ones.</li></ul></li><li>• Will follow up on the two Inverse Multiplexing model work items<ul style="list-style-type: none"><li>• <a href="https://wiki.opennetworking.org/display/OIMT/2020-06-25+OIMT+Meeting+notes?focusedTaskId=5">https://wiki.opennetworking.org/display/OIMT/2020-06-25+OIMT+Meeting+notes?focusedTaskId=5</a></li><li>• <a href="https://wiki.opennetworking.org/display/OIMT/2020-06-25+OIMT+Meeting+notes?focusedTaskId=4">https://wiki.opennetworking.org/display/OIMT/2020-06-25+OIMT+Meeting+notes?focusedTaskId=4</a></li></ul></li><li>• Re-dated items</li></ul> <p><input checked="" type="checkbox"/> 06 Jan 2022 Hing-Kam Lam Nigel Davis To rebuild the equipment property model. To change from composite to decorate.</p> <p><input checked="" type="checkbox"/> 13 Jan 2022 Nigel Davis Discuss the intent grammar, spec grammar. Explore mechanism converting explicit property sentence into constraint statements.</p> <p><input checked="" type="checkbox"/> 06 Jan 2022 Nigel Davis Clean up the action list for the past-due items</p>
0 min	Simplified spec	ND	Review IETF/IEEE documents and CH slides and merge as appropriate into simplified spec. (ND) <b>Deferred Jan. 13</b>
30 min	OAM document	AM, ND	Early draft of OAM document (AM, ND) <ul style="list-style-type: none"><li>• Nigel shared in the initial draft (structure) of TR-512.9</li></ul>

## Broad considerations

- Automation
- Control loop
  - Sense
  - Discern
  - Infer
  - Decide
  - Act

Focus of the OAM model is really Sense/Discern...

- **Determination of what to measure**
- Coordination
  - Configuration of detectors
  - Activation of detectors
  - Etc.
- Detection and Measurement
  - Event detection
  - Counting
  - Thresholding
- Collection/Reporting
  - Alerting
  - Bulk values
- Storage
- **Analysis**
- **Interpretation**

## Some detailed mechanisms

- Snapshot
- Spotlight
- Ongoing
- Periodic

OAM Focus considering the Core Model:

- Determination of what to measure
  - Outside the scope of the Core Model (but essentially ControlConstruct)

04 Jan 2022 Malcolm Betts Nigel Davis To look at the **Control loop** ones (Sense, Discern, Infer, Decide, Act) of the **Broad considerations**

- Not to deal with the blue (AI/ML),
- The focus of OAM is the To focus on the back ones (Coordination, Detection, Collection/Reporting, Storage)

## OAM Focus considering the Core Model:

- Determination of what to measure
  - Outside the scope of the Core Model (but essentially ControlConstruct responsibility)
- Coordination
  - ControlConstruct
  - ControlTask
  - etc.

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## TR-512.9 Core Information Model – OAM

- Representation of detectors/measures
    - Encapsulated in each entity (e.g., LTP)
      - Detectors, counters etc.
      - Unfoldable using variable encapsulation principle
        - E.g., LTP with measurement LTP extracted
    - Specification model used to explain arrangement
  - Collection and reporting
    - Control model streaming
  - Storage
    - Requires expanded representation of log and log record?
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- Augment and encapsulation need to be unpicked carefully
  - Detectors, counters: Configuration as well as count values.

			<p>Further considerations:</p> <ul style="list-style-type: none"> <li>• Measurement <ul style="list-style-type: none"> <li>○ Span</li> <li>○ Focus</li> <li>○ Duration</li> <li>○</li> </ul> </li> </ul> <p>TAPI model provides a specific representation</p> <p>Using the core model</p> <ul style="list-style-type: none"> <li>• FC = measurement span</li> <li>• LTP = measurement point</li> </ul> <p>Degrees of modeling:</p> <ul style="list-style-type: none"> <li>• Fully embedded</li> <li>• Embedded measures with separate measurement spans <ul style="list-style-type: none"> <li>○ Photonic example</li> </ul> </li> <li>• Separated measures with associated measurement spans</li> </ul> <p>Measurement strategies</p> <ul style="list-style-type: none"> <li>• Single ended passive</li> <li>• Two ended, one-way within frame</li> <li>• Two ended, one-way separate packets</li> <li>• Two ended, two-way, round <u>trip</u></li> </ul> <p>Activity</p> <ul style="list-style-type: none"> <li>• Always on</li> <li>• On occasionally</li> <li>• Single shot</li> </ul> <p>Model enhancements</p> <ul style="list-style-type: none"> <li>• Definitions</li> </ul> <ul style="list-style-type: none"> <li>• Activity: <ul style="list-style-type: none"> <li>• Proactive, On-demand (including single shot),</li> <li>• May be a part of the actual process of the entity, may be extremely heavy load</li> </ul> </li> </ul>
10 min	Aggregate tagging	ND, CH	<p>Aggregate tagging in UML model</p> <ul style="list-style-type: none"> <li>• Task T64b DDD aggregate</li> <li>• To kick off discussion in IISOMI on aggregate tagging via Papyrus profile <ul style="list-style-type: none"> <li>• Start with simple ones, e.g., FC.</li> <li>• Don't try on Ltp and physical connector.</li> </ul> </li> </ul> <p><input checked="" type="checkbox"/> Nigel Davis 20 Jan 2022 Create DDD Aggregate profile and experiment with application of the profile to the core model.</p>
3 min	Security protocol	CH	<p>DMTF email on security protocol (DMTF DSP0274 <a href="#">Security Protocol and Data Model (SPDM) Specification</a>)</p> <ul style="list-style-type: none"> <li>• No data model there.</li> </ul>

2 min	Next calls	<p>06 Jan 2022</p> <ul style="list-style-type: none"> <li>• Discuss the 06 Jan 2022 action items: <ul style="list-style-type: none"> <li>• To rebuild the equipment property model. To change from composite to decorate. (KL, ND)</li> <li>• Papyrus model migration (for LtpPort) (ND, MS)</li> <li>• TAPI and Wireless transport: Moving away from simple packaging (ND)</li> </ul> </li> </ul> <p>13 Jan 2022</p> <p>Review IETF/IEEE documents and CH slides and merge as appropriate into simplified spec. (ND)</p> <p>Future calls agenda items</p> <ul style="list-style-type: none"> <li>• TIP/MUST papers (CH, ND)</li> <li>• Catalog / inventory storage application (CH, ND)</li> <li>• MEF W130 device physical &amp; environmental specification. OIMT may need to engage MEF on that. (CH)</li> <li>• IETF work on physical inventory model (ND)</li> <li>• RBAC vs ABAC (June 2021 F2F meeting Tue 1.2 )</li> <li>• Finalize the write up on Multi-point Media Channel (later call) (Candidate for v1.6)</li> <li>• To recap the previous OIMT discussion on synchronization management IM (later call)</li> <li>• YANG augmenting</li> <li>• Leo on location model</li> </ul>
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## Action items

