



OPMANTEK

NETWORK MANAGEMENT AND IT AUDIT SOFTWARE



Advanced Open-Audit Setup and Configuration – March 2019



We will send you the recording.



Submit your questions anytime. We'll do Q&A throughout.



Please complete the Exit survey.

Topics for Today

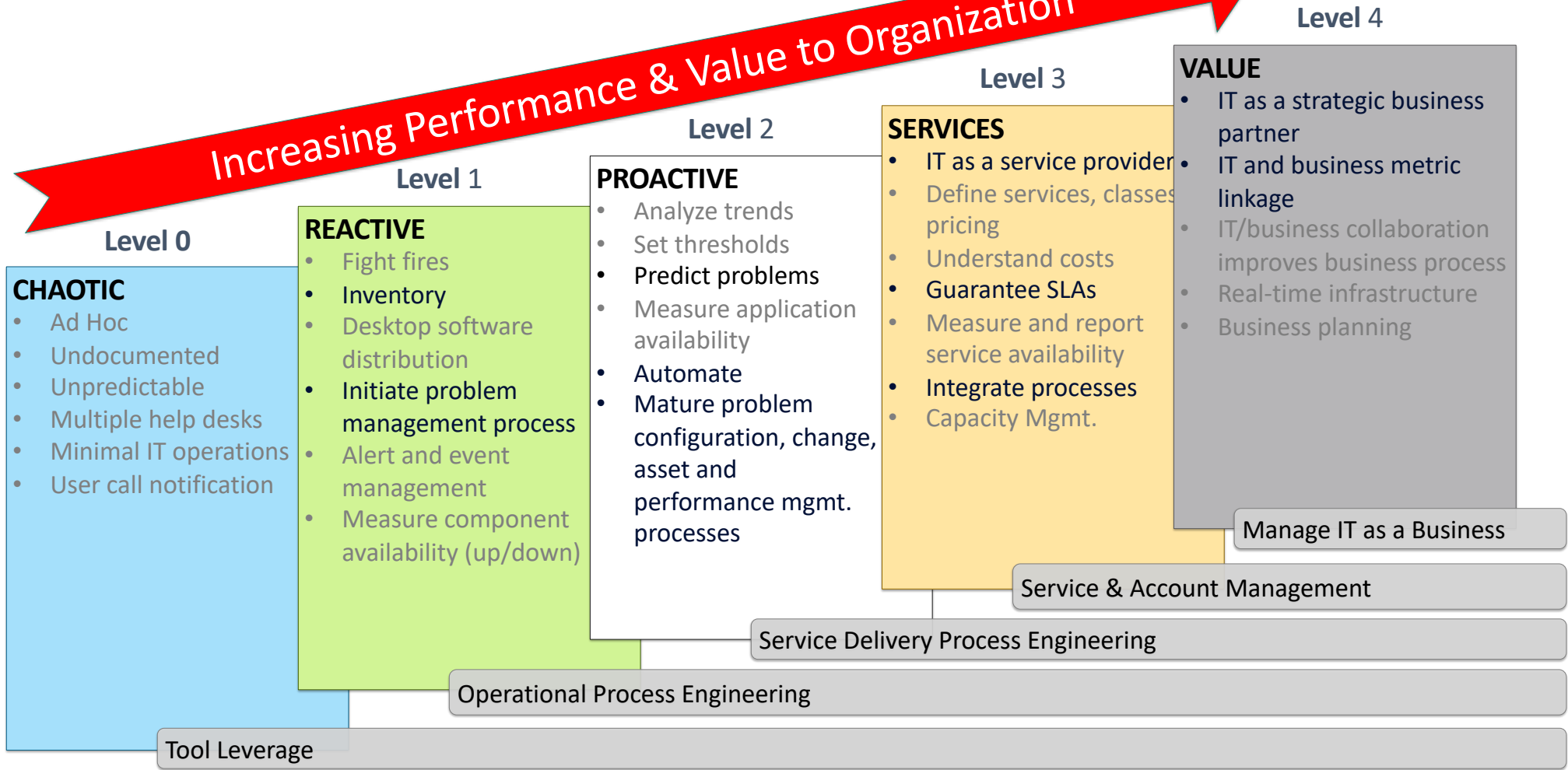
Open-Audit can do so much more than just discover and audit the devices on your network. With a bit of forethought and planning, you can use Open-Audit as a full lifecycle managing CMDB.

Join us for this one-hour session where we will:

- **Configuring and Troubleshooting Active Directory for Authentication.**
- **Using the Organization to manage access to Devices and Features.**
- **Monitoring Files for Changes in Linux and Windows.**
- **Creating, Populating, and Reporting on Custom Fields.**
- **Leveraging Discovery Scan Options (new in v3.0.0) to improve discovery speed and accuracy.**

IT Service Management Maturity Model

Increasing Performance & Value to Organization



Useful References

Where can I go when I have questions?

- Wiki – <https://community.opmantek.com/display/OA/Home>
- Forum – <http://www.open-audit.org/phpBB3/>
- Community Questions Board - <https://community.opmantek.com/questions>
- Support Issues – support@opmantek.com
- Sales – usa@opmantek.com

We're actively working on the next generation of NMIS and late beta releases are now available. Please contact us at beta@opmantek.com if you'd like to experiment with NMIS 9.

- <https://community.opmantek.com/display/NMIS/NMIS+9+Release+Notes>

DIFFERENCES IN LICENSING LEVELS

	Community	Professional	Enterprise
Network Device Discovery	Yes	Yes	Yes
Agentless Discovery	Yes	Yes	Yes
Server Inventory Software for Change Monitoring	Yes	Yes	Yes
Software License Management Tool	Yes	Yes	Yes
IT Asset Tracking	Yes	Yes	Yes
System Integration using Custom Fields	Yes	Yes	Yes
Network Analysis Reports and Dashboards		Yes	Yes
Geographical Maps		Yes	Yes
Devices Export		Yes	Yes
Network Automation Tool		Yes	Yes
Enhanced Visual Reporting		Yes	Yes
Racks Management and Visualization			Yes
Cloud Discovery and Audit			Yes
High Scale			Yes
High Availability			Yes
File Integrity Auditing			Yes
Network Configuration and Change Management Using Baselines			Yes
Role Based Access Controls			Yes
Integration with Agents and CMDB via a RESTful API			Yes
Commercial Support		Yes	Yes

USER MANAGEMENT

Role Based Access (RBAC)

<https://community.opmantek.com/display/OA/Users>

- Organizations define access to devices
- Roles define features, and
- Users are assigned an Organization and Role
 - <https://community.opmantek.com/pages/viewpage.action?pageId=25297013>
- Basic RBAC in Professional Edition, Advanced in Enterprise

Authentication

A process to verify the identify of a user

- You can define up to 3 options in `/usr/local/omk/conf/opCommon.nmis`
- These are executed in order, the first that matches is accepted
- Open-Audit
 - Uses the internal Open-Audit dB
- htpasswd
 - Uses Apache as the underlying authentication system
 - Passwords stored in a hashed file
- LDAP/MS-LDAP
 - With or without Access/Authorization
 - One or more servers may be defined
 - <https://community.opmantek.com/x/-AF4>

Troubleshooting LDAP Configuration

<https://community.opmantek.com/display/OA/Troubleshooting+LDAP+logins>

- Set the log_level to 7
- Clear the logs table in the database
- Log in using an LDAP account
- Retrieve the error from the logs table and compare to symptom list

ORGANIZATION

Organizational Pyramid

<https://community.opmantek.com/display/OA/Orgs>

- Manage -> Orgs -> List Orgs
 - Creates an Organizational Structure
 - Used to Assign Devices and Users
 - Provides levels of access to both devices and features for RBAC
 - Users see devices in their Org and Orgs underneath them, but not above
-
- <https://community.opmantek.com/display/OA/Organizing+your+Devices+and+Users>

FILE AND FOLDER AUDITING

File / Folder Auditing

<https://community.opmantek.com/display/OA/Files>

- Discover -> Files -> List Files
 - Define an individual file or folder for monitoring
 - If the file/folder path is found on a machine a hash is created for each file
 - Changes to this hash on subsequent audits will trigger a change log entry
-
- <https://community.opmantek.com/display/OA/Monitoring+Files+for+Changes>

CREATING, POPULATING, AND REPORTING ON CUSTOM FIELDS

Custom Fields

<https://community.opmantek.com/display/OA/Fields>

- Manage -> Fields -> List Fields
- Supports Multiple field types
 - VarChar (text)
 - List (single selection only)
 - Date
- Can be assigned to specific types of devices
- Can be accessed in Queries and via the API

Create and Edit Queries

<https://community.opmantek.com/display/OA/Queries>

- Manage -> Queries -> List Queries
- Queries generate custom views from data in the dB
- Uses standard SQL format to define fields for display as well as filters and criteria

- <https://community.opmantek.com/x/lxCCAQ>

DISCOVERY SCAN OPTIONS

Discovery Scan Options

<https://community.opmantek.com/display/OA/2019/02/11/New+Discovery+Options>

- Available in Windows and Linux packages starting with v3.0.0

Feature	Community	Professional	Enterprise
Match Rules - set default for all discoveries	y	y	y
Discovery Scan Options - set default for all discoveries	y	y	y
Discovery Scan Options - read		y	y
Discovery Scan Options - set per discovery		y	y
Discovery Scan Options - create, read, update, delete			y
Discovery Scan Options - Custom per Discovery			y
Discovery Scan Options - Exclude IP, range, subnet per discovery			y
Discovery Scan Options - Exclude ports per discovery			y
Discovery Scan Options - Set device timeout, per discovery			y
Discovery Scan Options - Custom SSH port per discovery			y
Match Rules - set per discovery			y

Discovery Scan Types

<https://community.opmantek.com/display/OA/2019/02/11/New+Discovery+Options>

Attribute	UltraFast	SuperFast	Fast	Medium (Classic) ¹	Medium	Slow	UltraSlow
Approximate time in seconds for remote IP scan	1	5	40	90	100	240	1200
Must Respond to Ping	y	y	y	n	y	y	n
Use Service Version Detection	n	n	n	n	n	y	y
Consider Filtered Ports as Open	n	n	n	y	n	y	y
Timing	T4	T4	T4	T4	T4	T3	T2
Top Nmap TCP Ports		10	100	1000	1000	1000	1000
Top Nmap UDP Ports		10	100		100	100	1000
Custom TCP Ports	22,135,62078	62078	62078	62078	62078	62078	62078
Custom UDP Ports	161			161			
Exclude TCP Ports							
Exclude UDP Ports							
Timeout per Host							
Exclude IP (address, range, subnet)							
Custom SSH Port							

CONTACT FOR FOLLOW UP

Commercial enquiries:

Tom Wiri

Account Executive

+1 (512) 430-4450

usa@opmantek.com

Technical enquiries:

Mark Henry

Senior Engineer

+1 (207) 951-2428

markh@opmantek.com



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