Configuration Manager User Device Affinity Demystified

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Your hosts for the hour...

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Where does affinity data come from?

All over the place!

- Data Discovery Cycle / Heartbeat Discovery
- Security Event Logs via Hardware Inventory
- Software Center
- Device registration
- Exchange connections
- Administrator Console
- OSD

And it means DIFFERENT THINGS. Why is this data important?

"The less you know about something, the more simple it is."

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Hey, let's just go look at some of this stuff

- **Last Logon User Name**
  - Most likely to be there, least likely to be accurate
- **Top Console User**
  - Most likely for the Security Team to break...
- **Primary Devices**
  - Most complicated, most powerful
  - Many to Many Relationship

And that leads to a long demo of even cooler discussion/demo with Primary Devices

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Device Affinity Types

- **Type 1 Software Catalog** - The end user enabled the relationship by selecting the option in the AppCatalog Web page.
- **Type 2 Administrator** - An admin created the relationship set manually in the UI.
- **Type 3 User** - Unused/deprecated.
- **Type 4 Usage Agent** - The threshold of activity triggered a relationship to be created.
- **Type 5 Device Management** - The user/device were tied together during enrollment.
- **Type 6 OSD** - The user/device were tied together as part of OSD imaging.
- **Type 7 Fast Install** - User/device were tied together temporarily to enable an on-demand install from the catalog if no UDA relationship set before the Install was triggered.
- **Type 8 Exchange Server connector** - The device user data from Exchange if implemented
- **Type 9** Because Why Not – It seems like it should have 9, so let's make one up…
- **Type 10** Whoa! – Ok, stop now, cuz this is only defined by bunnies, and they're too fast.

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Affinity Building Block Demo's

- PS functions to set/remove affinity, SQL queries to view.

- Script to set affinity based off a known list

- Creating Device Collections based off attributes of the affinity user

- Getting the data out of the database to make our own dataset for reports... way better than Last Logon User!

- Sql query for devices with that app and include UDA user

- SSRS Report for browsing discovered users and their UDA assigned systems.

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DEMO Time!

- Creating Admin Affinity
- Importing Admin Affinity
- Create computer collections
- Using it as a report
- Extending it to reports

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Resources

- Configuration Manager Documentation

https://docs.microsoft.com/en-us/sccm

- GITHUB Example Code

https://github.com/stelmer/ConfigMgrUserDeviceAffinity

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