Assessment Toolkit Overview

Performance assessments
Automated performance and quality assessments simulate real world scenarios while capturing metrics & actionable traces

- App Launch
- Startup & shutdown latency
- Memory footprint
- Media Quality

Battery life workloads
Assess devices from an energy efficiency point of view while capturing metrics & actionable traces

- Office productivity
- Local and streaming full screen video playback
- Modern standby
Download & Install Assessment Toolkit

ADK Download
Preview Build: https://aka.ms/ADK-Peview
RTM Build: https://aka.ms/ADK-RTM

Install Windows ADK Insider Preview

Download Windows Assessment and Deployment Kit (Windows ADK) Insider Preview to get the new and improved deployment tools used to automate a large-scale deployment. Windows ADK Insider Preview includes:

- The Windows Assessment Toolkit and the Windows Performance Toolkit to assess the quality and performance of systems or components.
- Several deployment tools such as WinPE, Windows Imaging and Configuration Designer (Windows ICD), and other tools to customize and deploy Windows 10 images.

Features to install
Windows Performance Toolkit
Windows Assessment Toolkit
Media eXperience Analyzer

App UI is subject to change and for reference purposes only.
Windows 10 April 2018 Update
General Toolkit Updates

Native ARM64 support
Improved support for ARM64 execution

Battery life testing infrastructure
Removed system timer resolution metric from reports
Disabled default execution of Maintenance Tasks before running the workload

PowerView utility
New tool to visualize the Energy Estimation Engine (E3) logs
E3 logs produced by "PowerCfg /SRUMUTIL" command

**Tool location**: C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Kit\Windows Assessment Toolkit\x86\powerview.exe

**Sample E3 log location**: "C:\Users\%USERNAME%\Documents\Assessment Results\JobResults_DESKTOP-RGF1F85_2018-0319_1526-12.086\000_EnergyEfficiency\results\E3-SRUMUTIL-CSVLog.csv"
Battery Life Workload Updates

Productivity
New battery life workload to evaluate power during Microsoft Office apps interactions.
Prerequisite: Install Microsoft Office 2016

Media Playback
Deprecated Groove streaming audio scenario
Added YouTube streaming in Edge scenario
Fix to avoid Films & TV user consent pop-up on first launch

Modern Standby
Disables adaptive hibernate triggers

Legacy Standby & Hibernate
New assessments to measure battery life in S3 and S4
New performance assessment to evaluate Modern Standby resume latency:

- Simulated batteries
- Execution on AC and DC
- Disconnected standby
- Additional diagnostics

New metric targets (as defined in ModernStandbyPerf.json), aligned with HLK:

- Exit latency $\leq 1$ second
- SW DRIPS $\geq 80$
- HW/SW DRIPS delta $\leq 10\%$
New Performance Assessments (2/2)

**Microsoft Office Performance**
New assessment unlisted in the Windows Assessment Console
Interacts with Excel, Word, PowerPoint
**Metrics:** app launch, file open, and slide show launch times

**Register assessment using RegAsmt.exe**

"C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Kit\Windows Assessment Toolkit\x86\regasmt.exe" "C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Kit\Windows Assessment Toolkit\Productivity Assessment\OfficeUXPerf.asmtx"
Performance Assessment Updates

Edge Security Software Impact
Updated JS.js script to avoid a non user representative corner cased used by the assessment
Fixed failure when user name has a space in it
Updated regions XML file for new Edge instrumentation

Media playback quality
Deprecated Groove streaming audio scenario
Gathers two iterations (Timing and Analysis), metrics are extracted from the timing ETL file

Microsoft Store Performance Assessment
Formerly named “Windows Store Performance Assessment”
Now allows to test all preloaded apps (no filter string required).
“Enter Microsoft Store app name” filter field now accepts multiple keywords separated by “;”
Blocklist text file to specify list of apps to skip when testing entire preload.
Fixed “Access denied” issues