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# ENERGY STAR Imaging Equipment Specification Issues

## EPA/ITI/JEITA/JBMIA

October 2014



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## Agenda

- Introductions
- Review of action items from the July Workshop
- Update on V2 Product Scope
- Active 0/1/2 times
- Re-registration of products into families
- US-EU Data exchange update
- Future agenda items



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## July 2014 Workshop

- July 9, 2014
  - Participants: EPA, ITI , JEITA, JBMIA, Certification Bodies
- Workshop focus
  - Work collaboratively on ways to ensure the integrity of the ENERGY STAR imaging equipment qualified product database, and ease of use by various stakeholders
- Discussion included
  - Overview of the CB process by Keystone Certifications, Inc.
  - Specification development process data set creation
  - Updates to certified product list and product finder
  - Data quality issues

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## Workshop Results

- Agreement on registering products by family
  - A single entry shall include “child” entries in the “additional models” field
- Agreement that errors (such as incorrect units for Active 0/1/2 data) and duplicated data need to be identified by partner and corrected by the CB
  - EPA agreed to continue to find ways to standardize/automate data management
- “Product Finder” tool needs to be updated to include product marketing names and models most frequently utilized by customers.
- Clarification of EPA's specification development data needs
  - Separate dataset created based on the certified product list plus any additional non-qualified model information from stakeholders/other sources
- Participants agreed upon a preferred Energy Star Imaging Equipment Listing for a product family

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## July 2014 Action Items

- ✓ EPA will use the model name rather than model number as a default field for all products in "Product Finder".
- ✓ Manufacturers will work individually with their CBs and EPA to correct errors and duplicated data on the certified product list.
- ✓ EPA will evaluate the feasibility of moving the "additional models" column to the same tab or screen as the parent model information on the CIE list.
- ✓ A follow-up teleconference call meeting will be held in two months to review progress
- ✓ EPA will re-communicate Imaging Equipment template data guidance to CBs

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## Expanded scope

- September 6 letter outlined updated scope
  - Added large format high performance ink jet
  - Updated Table 1 in the efficiency criteria and the test method

Product Type	Media Format	Marking Technology	ENERGY STAR Evaluation Method
Copier	Standard	Direct Thermal (DT), Dye Sublimation (DS), Electro-photographic (EP), Solid Ink (SI), Thermal Transfer (TT)	Typical Energy Consumption (TEC)
	Large	DT, DS, EP, SI, TT	Operational Mode (OM)
Digital Duplicator	Standard	Stencil	TEC
Fax Machine	Standard	DT, DS, EP, SI, TT	TEC
Mailing Machine	All	ink Jet (IJ)	OM
		DT, EP, IJ, TT	OM
Multifunction Device (MFD)	Standard	High Performance IJ, DT, DS, EP, SI, TT	TEC
		IJ, Impact	OM
	Large	High Performance IJ, DT, DS, EP, IJ, SI, TT	OM
Printer	Standard	High Performance IJ, DT, DS, EP, SI, TT	TEC
	Large or Small	IJ, Impact	OM
		DT, DS, EP, Impact, IJ, SI, TT	OM
	Large	High Performance IJ	OM
Small	High Performance IJ	TEC	
Scanner	All	N/A	OM



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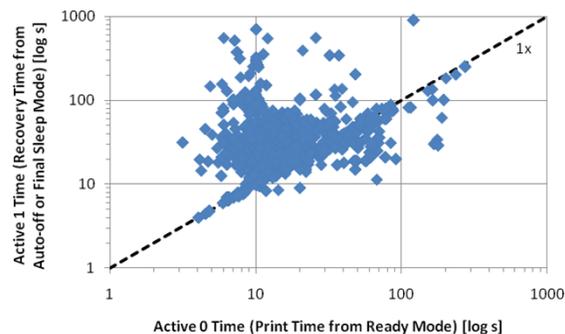
## Recovery Time

- The current TEC qualified product dataset has 3 times reported for most models
  - Active 0 time: Time from when unit indicates it is in Ready Mode after turn on to first page
  - Active 1 time: Time from 1 hour of sleep mode to first page
  - Active 2 time: Time from 15 minutes after first job to first page of second job



## Recovery time Issues

- During V2 development, analysis showed that Active1 time varies greatly among TEC products, from several seconds to hundreds of seconds
- Improbably, for some products, Active0 time is greater than Active1 time, indicating that it takes longer to print from ready mode than from sleep mode—as much as 6 times longer in some cases.



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## Active 0/1/2 data

- There is shown a big correction in 2014.09.19 as compared to 2014.06.16.
- Most of Samsung's original data (0.6/0.6/0.6 sec) have been replaced with more realistic values, although there are still some 0.6/0.6/0.6 data remaining.
- There are a few data of HP and Oce, which still show impossible numbers, i.e. 15 minutes or more.

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Discussion material with EPA/CB/ITI

## Certified Imaging Equipment (CIE) Comparison ---20140616 vs. 20140919---

Sept. 25, 2014  
JBMA Printer-MFD Tech WG  
JEITA Printer Energy Saving WG

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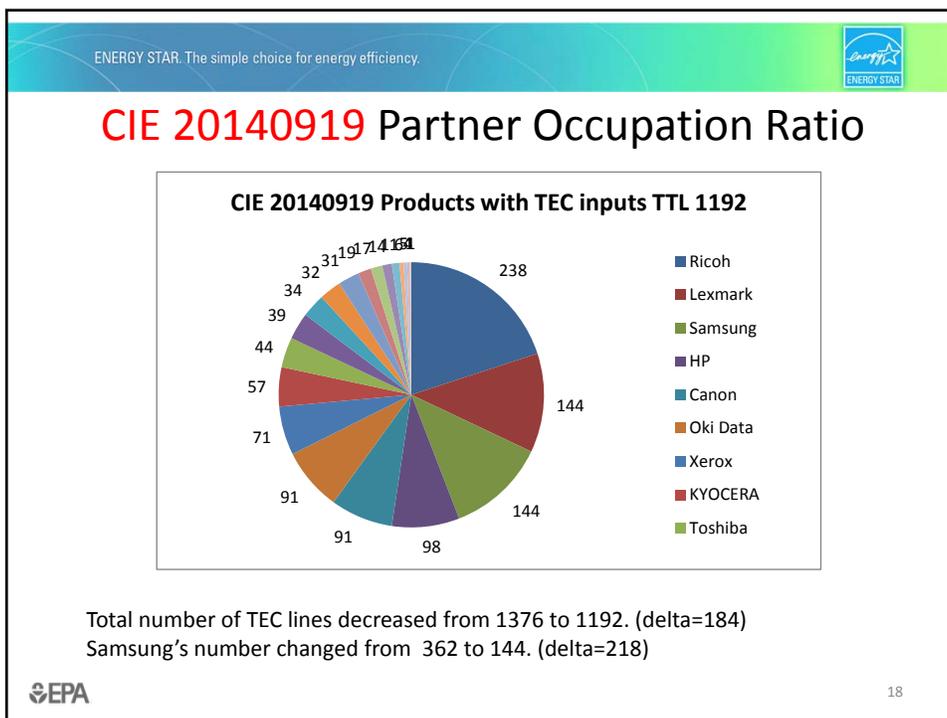
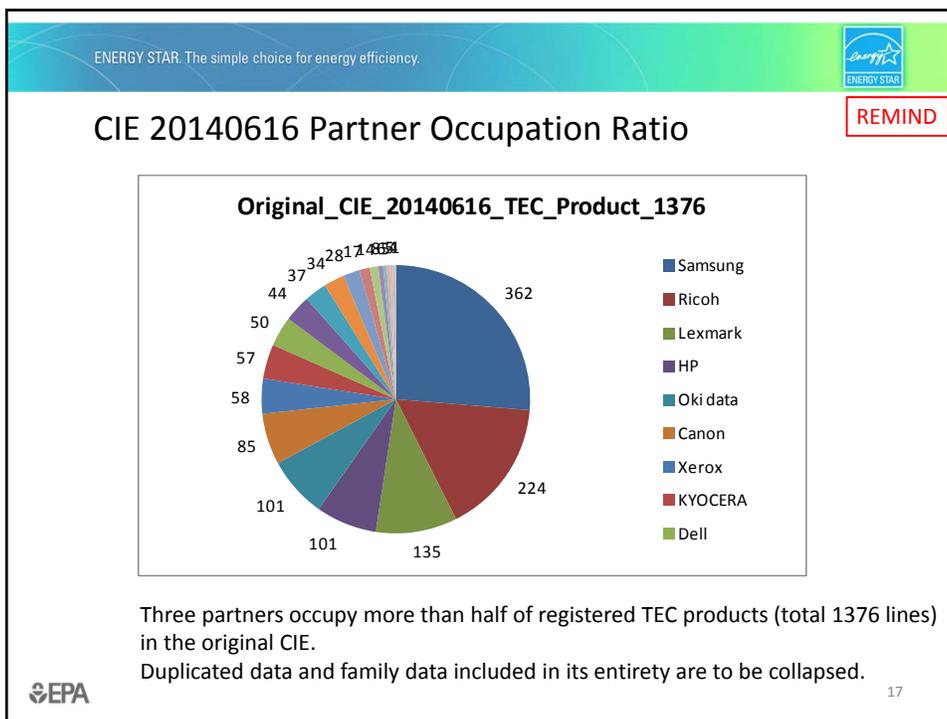


## Comparison

- Three months have passed since the CIE discussion with EPA, CBs, and ITI, where the guideline was shown to delete duplicates and to collapse family registrations to one line with additional model info.
- A short glimpse of the change that happened in CIE is shown in the following slides.



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## Observation of Duplicated Data CIE 20140616 REMIND

- 90% of duplicated data (to be deleted) is Samsung's data.

Brand	Number of Duplicates
Samsung	237
Dell	19
HP	5
Oki Data	2

See the attached Excel file <sheet: duplicate-3> where duplicated data (to be deleted) of products are shown in yellow box.

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## Observation of Duplicated Data CIE 20140919

- Number of duplicated data (to be deleted) decreased from 263 to 22.

Brand	Number of Duplicates
Samsung	19
HP	2
Dell	1

Although there are still some remaining duplicates, 92% of the original duplicates have been deleted.

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### Re: Samsung's "duplicates" to delete

PD ID	ENERGY S	Brand Name	Model Name	Model Number	Additional Model Information
2200565	Samsung	Samsung	ML-3710DW	ML-3710DW	
2200566	Samsung	Samsung	ML-3710DW	ML-3710DW	
2200567	Samsung	Samsung	ML-3710DW	ML-3710DW	
2200580	Samsung	Samsung	ML-3710DW	ML-3710DW	
2216334	Samsung	Samsung	ML-3710DW	ML-3710DW	ML-3710ND, ML-3712DW, ML-3712ND
2200568	Samsung	Samsung	ML-3710ND	ML-3710ND	
2200569	Samsung	Samsung	ML-3710ND	ML-3710ND	
2200570	Samsung	Samsung	ML-3710ND	ML-3710ND	
2200571	Samsung	Samsung	ML-3710ND	ML-3710ND	
2200572	Samsung	Samsung	ML-3712DW	ML-3712DW	
2200573	Samsung	Samsung	ML-3712DW	ML-3712DW	
2200574	Samsung	Samsung	ML-3712DW	ML-3712DW	
2200575	Samsung	Samsung	ML-3712DW	ML-3712DW	
2200576	Samsung	Samsung	ML-3712ND	ML-3712ND	
2200577	Samsung	Samsung	ML-3712ND	ML-3712ND	
2200578	Samsung	Samsung	ML-3712ND	ML-3712ND	
2200579	Samsung	Samsung	ML-3712ND	ML-3712ND	

19 yellow-hatched lines  
Represents remaining  
"duplicates" to delete.

However, these "duplicates"  
do not fall necessarily under  
the conventional definition;  
Plural lines with the same  
Model Name/Model Number.  
This deviation is found  
particularly in the lower table.

PD ID	ENERGY S	Brand Name	Model Name	Model Number	Additional Model Information
2200206	Samsung	Samsung	SCX-8123NA	SCX-8123NA	SCX-8123ND
2200208	Samsung	Samsung	SCX-8123ND	SCX-8123ND	
2200210	Samsung	Samsung	SCX-8128NA	SCX-8128NA	
2200212	Samsung	Samsung	SCX-8128ND	SCX-8128ND	
2200214	Samsung	Samsung	SCX-8128NX	SCX-8128NX	SCX-8128NA, SCX-8128ND

Taking Samsung's family re-  
registration into consideration,  
those models in Additional  
Model Info column, which  
appear in other lines, should be  
deleted.



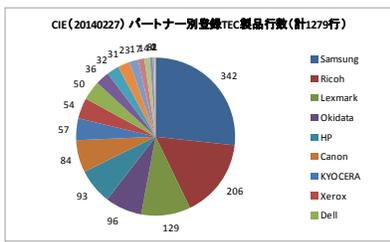
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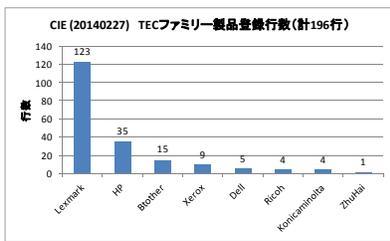


### Family registration only for 8/19 partners

Previous Survey



CIE (20140227) パートナー別登録TEC製品行数(計1279行)



CIE (20140227) TECファミリー製品登録行数(計196行)

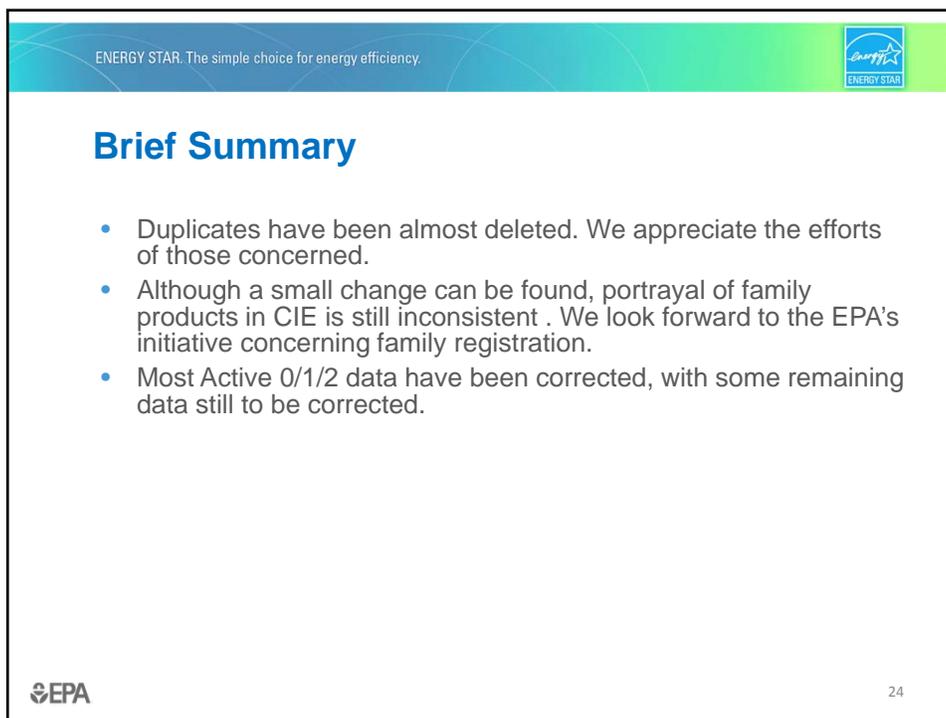
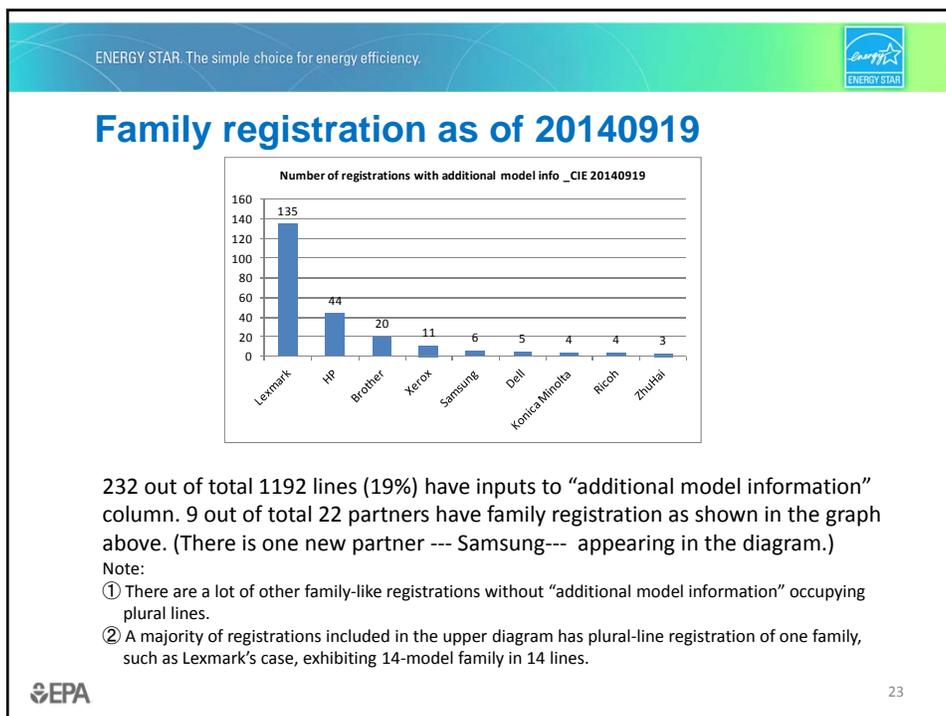
Each partner's number of occupying lines  
are counted for all TEC lines (total 1279).  
(Three partners occupy more than half.)  
This includes duplicated data  
(to be deleted) which occupy ca. 20%  
of the entire data.

196 lines have inputs to "additional  
model information" column.  
Only 8 partners have family registration  
as shown in the graph to the left.

(Other 11 partners have no family  
registration. This might be a result  
of CB's that do not allow family  
registration.)



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## US-EU Data Exchange update

- Previously, EPA provided EU with data extracts in Excel every 2 weeks for those products certified to ENERGY STAR which are also sold in the EU
- Data is now available to download whenever users need to update their databases
- EU has been working to incorporate the updated data into their existing data architecture
  - Problems with importing data and new fields which have delayed the updates
- Finalizing the new database management system (DBMS)
  - Ready to perform import of Imaging and Display devices

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## Thank you



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