Regulatory Compliance – What is this?

- Example

Electromagnetic Compatibility

Dell products are designed, tested, and classified for their intended electromagnetic environment (domestic/residential environment or business/industrial environment). Electromagnetic Compatibility (EMC) is the ability of items of electronic equipment to function properly together in the electronic environment. While all Dell computer systems have been designed and determined to be compliant with regulatory agency limits for EMC, there is no guarantee that interference will not occur in a particular installation.

Required statements for the international EMC specifications, marks and approvals, as obtained and documented on the product specific Product Safety, EMC and Environmental Datasheet, are provided in applicable agency/country language(s). Examples of EMC specifications include, but are not limited to, CISPR 22 and FCC Part 15.

Electrostatic Discharge

Dell products that have the CE marking are designed and tested for immunity to Electrostatic Discharge (ESD) to IEC standard 61000-4-2, CISPR 22, and CISPR 24. While these products have been designed and determined to be compliant with standard levels for ESD, there may be situations, such as low humidity levels, that can exacerbate ESD event occurrence. Users are encouraged to read and follow the ESD protection guidance provided within the Protecting Against Electrostatic Discharge section of this website.

- What are these?
  - **CISPR22**, **FCC Part 15**, **IEC 61000-4-2**, and **CISPR 24**.

Standard/Regulation

- Cellphone Booster

Got a Cell Phone Booster? FCC Says You Have To Turn It Off

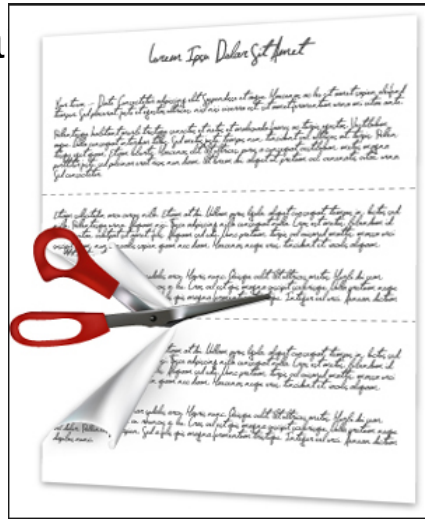
- FCC says “Turn it off” – why?
- But later FCC says “well, OK”

Regulatory Compliance – Homework 1 (Individual)

- Write a technical brief on the following subject
  - Explain (1) the following codes and (2) what decision FCC made, on the specific Cellphone Booster, and why that kind of decision was made.
    - **CISPR22**, **FCC Part 15**, **IEC 61000-4-2**, and **CISPR 24**.
- Submission Details on HW #1:
  - A docx/txt file which (1) summarizes above 4 standards or specifications and (2) explains the FCC decision(s) made on the cellphone booster.
  - Use complete sentences; **no** bullet itemization; **no** page limit; **no** images nor pictures – text only.
  - File naming norm: `HW1_lastname.docx` - no cover page (your name and ID in the first line)
  - Due: W September 6 – by 1:00pm (Email submission to ckim@howard.edu) `Also, bring a hardcopy to the class`

How to write well for Senior Design class

- People are more likely to read subjects/writings/emails that create curiosity or provide utility.
- When they are busy
  - Curiosity fades in importance
  - They read only the ones with practical importance ["utility"]
- So, write as if you are a staff writer (targeting for busy people) for a newspaper, and remember that you have a editor whose job is to cut your article to fit into a limited space, maybe just 1 inch in a column.
  - Important things [Conclusions and summary] in the first paragraph
    - Summary of the event/thing first so that it delivers message even though only that summary survives the "cutting"
  - Then expand your story after the First Paragraph
  - Use your own words → "Similarity check"



News Staff Writer Style? Compare this

www.cbsnews.com/8301-202_162-57600384/syria-strike-seems-inevitable-as-u.n-warns-against-unilateral-military-action-hunt-t

Updated at 6:48 a.m. Eastern

DAMASCUS, SYRIA | U.N. chemical weapons experts investigating an alleged poison gas attack near Damascus left their hotel again Wednesday hoping to carry out their second field trip, which was delayed Tuesday for security reasons.

The team of about 20 inspectors left their hotel in the Syrian capital in a convoy of cars to visit the eastern Ghouta suburbs, where the Obama administration says President Bashar Assad's forces unleashed a chemical weapons attack on Aug. 21 that killed hundreds of people.

Local opposition activists told CBS News that the convoy had reached the town of Mleiha, in the sprawling Ghouta area, and videos posted online by the activists showed the U.N. inspectors interviewing patients at clinics in Mleiha and the nearby town of Zamalka.

Play VIDEO

Intercepted communications, tissue samples prove Syrian regime responsible for gas attack

On Tuesday, Vice President Joe Biden made it clear that regardless of what the U.N. inspectors find, the White House is now convinced the attack was carried out by Assad's forces.

The American government's assessment is based on the circumstantial evidence from videos posted on the internet, and, as CBS News correspondent David Martin reported Tuesday, intelligence -- much of it still classified -- ranging from intercepted Syrian communications to tests of tissue samples taken from victims.

Another key piece of circumstantial evidence which has been cited by both officials and analysts for days is the simple fact that the regime is the only entity in Syria known to have chemical weapons and the means to disperse them.

With this

By Oliver Holmes and Erika Solomon
BEIRUT | Wed Aug 28, 2013 7:59am EDT

(Reuters) - The United Nations Security Council was set for a showdown over Syria on Wednesday after Britain sought authorization for Western military action that seems certain to be vetoed by Russia and probably China.

U.N. chemical weapons experts investigating an apparent gas attack that killed hundreds of civilians in rebel-held suburbs of Damascus made a second trip across the front line to take samples. Secretary-General Ban Ki-moon pleaded for them to be given the time they need to complete their mission.

But the United States and European and Middle East allies have already pinned the blame on Assad and, even without full U.N. authorization, U.S.-led air or missile strikes on Syria look all but certain, though the timing is far from clear.

That has set Western leaders on a collision course with Moscow, Assad's main arms supplier, as well as with China, which also has a veto in the Security Council and disapproves of what it sees as a push for Iraq-style "regime change" - despite U.S. denials that President Barack Obama aims to overthrow Assad.

Uncertainty over how the escalation of the conflict at the heart of the oil-exporting Middle East will affect trade, and the world economy sent oil prices, and gold, to their highest levels in months while stocks fell. Fears over the economy of Syria's hostile neighbor Turkey pushed its lira to a record low.

Analysis & Opinion

Western powers could strike Syria within days

West mustnâ€™t rush into Syrian conflict

Related Topics

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Related Video

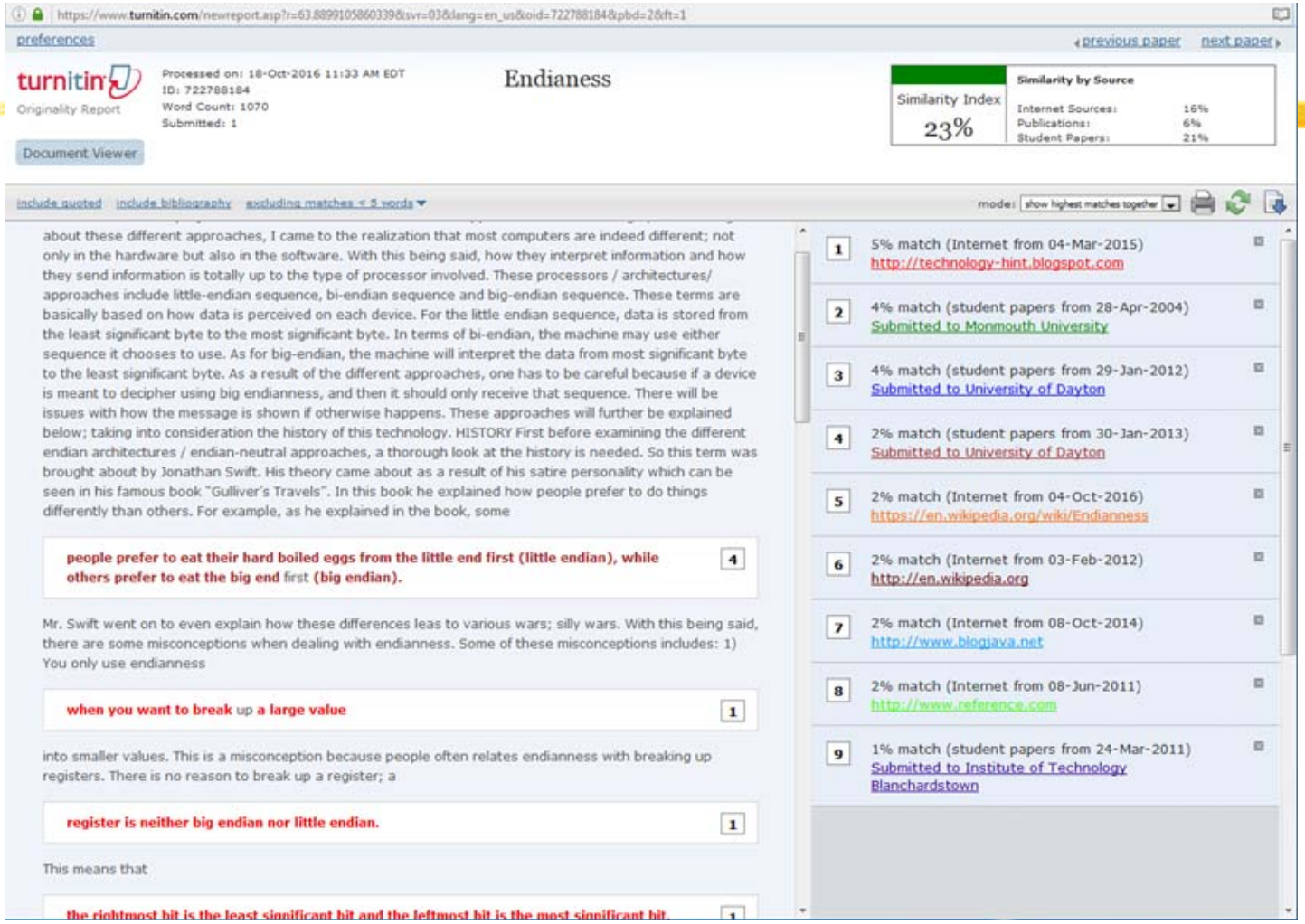
U.N. resumes Syria chemical attack probe
4:20am EDT

Rebels gain ground in Northern Syria

Israel will respond with force to any attack from Syria

Biden: No doubt Syrian regime used chemical weapons

Similarity Report - Example



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Endianess

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include quoted include bibliography excluding matches < 5 words

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about these different approaches, I came to the realization that most computers are indeed different; not only in the hardware but also in the software. With this being said, how they interpret information and how they send information is totally up to the type of processor involved. These processors / architectures/ approaches include little-endian sequence, bi-endian sequence and big-endian sequence. These terms are basically based on how data is perceived on each device. For the little endian sequence, data is stored from the least significant byte to the most significant byte. In terms of bi-endian, the machine may use either sequence it chooses to use. As for big-endian, the machine will interpret the data from most significant byte to the least significant byte. As a result of the different approaches, one has to be careful because if a device is meant to decipher using big endianness, and then it should only receive that sequence. There will be issues with how the message is shown if otherwise happens. These approaches will further be explained below; taking into consideration the history of this technology. HISTORY First before examining the different endian architectures / endian-neutral approaches, a thorough look at the history is needed. So this term was brought about by Jonathan Swift. His theory came about as a result of his satire personality which can be seen in his famous book "Gulliver's Travels". In this book he explained how people prefer to do things differently than others. For example, as he explained in the book, some

people prefer to eat their hard boiled eggs from the little end first (little endian), while others prefer to eat the big end first **(big endian).** 4

Mr. Swift went on to even explain how these differences leas to various wars; silly wars. With this being said, there are some misconceptions when dealing with endianness. Some of these misconceptions includes: 1) You only use endianness

when you want to break up **a large value** 1

into smaller values. This is a misconception because people often relates endianness with breaking up registers. There is no reason to break up a register; a

register is neither big endian nor little endian. 1

This means that

the rightmost bit is the least significant bit and the leftmost bit is the most significant bit. 1

1 5% match (Internet from 04-Mar-2015)
http://technology-hint.blogspot.com

2 4% match (student papers from 28-Apr-2004)
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6 2% match (Internet from 03-Feb-2012)
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8 2% match (Internet from 08-Jun-2011)
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9 1% match (student papers from 24-Mar-2011)
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HW1 and Grading

- Recap on HW1
  - Technical writing with emphasis on “utility”
  - Definitions and Usage of Codes/Regulations
  - An Analysis on an FCC’s decision on a cellphone booster related with FCC code
  - Individual work with due on Wednesday 9/6/2017 by 1:00pm (1) Hardcopy and (2) File Submission
- Grading
  - (x) Entire Report Score : 10 pts
  - (y) 1st Paragraph Score: 10 pts
  - (z) Similarity Score: [0 – 100%]
  - Final Score: (x + y)* (1 – z)