**1. Semantic Clarity (SC) → Meaning Clarity (MC)**

* **What Changed**:
  + **Semantic Clarity (SC)** now merges with **Natural-Language Readability (NL)** into **Meaning Clarity (MC)**.
  + **MC** is the combination of **SC** (clarity of meaning) and **NL** (how well the identifier reads like a phrase). This means **MC** will capture both the **meaning** and **fluency** of the identifier.
* **Impact on Documentation**:
  + The **new MC factor** captures both the **intent** of the identifier (which was **SC**) and how easily it is understood or pronounced (which was **NL**).
  + The scoring equation for **MC** is now the **average** of the **SC** and **NL** scores (or weighted as per your choice).
  + **Changes to be made**:
    - Remove **SC** and **NL** from the thesis and replace them with **MC**.
    - **Update the equations** for **MC**: MC(N)=SC(N)+NL(N)2MC(N) = \frac{SC(N) + NL(N)}{2}MC(N)=2SC(N)+NL(N)​.

**2. Stylistic Convention Adherence (ST) → Naming Conformance (NC)**

* **What Changed**:
  + **Stylistic Convention Adherence (ST)** now becomes **Naming Conformance (NC)**.
  + **Naming Conformance (NC)** focuses on whether the identifier **follows the expected naming conventions** for its **syntactic role** (e.g., function names should start with verbs, variables with nouns).
  + The **style adherence** (like **camelCase**, **PascalCase**) is captured here, so the check for **stylistic conventions** remains in **NC**.
* **Impact on Documentation**:
  + Replace **ST** with **NC** in the thesis.
  + The equation for **NC** remains essentially the same: it checks the **syntactic role** and whether the identifier adheres to **naming conventions**.
* **Changes to be made**:
  + **Update your thesis** and **programs** to use **NC** instead of **ST**.

**3. Length Appropriateness (LN) → Optimal Length (OL)**

* **What Changed**:
  + **Length Appropriateness (LN)** is now **Optimal Length (OL)**. This factor remains largely the same but is reworded to sound more streamlined and professional.
  + It continues to measure whether the **length** (in terms of characters and tokens) of an identifier is **appropriate** for its role. The ideal length is **8-20 characters** and **1-3 words** for variables, and **2-4 words** for functions.
* **Impact on Documentation**:
  + Replace **LN** with **OL** in the thesis and documentation.
  + **Equation for OL** stays the same: OL(N)=min(Slenchars,Slentokens)OL(N) = \text{min}(S\_{\text{lenchars}}, S\_{\text{lentokens}})OL(N)=min(Slenchars​,Slentokens​).
* **Changes to be made**:
  + **Update thesis** and **programs** to use **OL** instead of **LN**.

**4. Domain-Based Semantic Relevance (DR) (No Change)**

* **What Changed**:
  + No changes here—**Domain-Based Semantic Relevance (DR)** remains the same.
  + It continues to measure how **well the identifier uses domain-specific terminology** that is relevant to the problem space of the project.
* **Impact on Documentation**:
  + **No changes needed** for **DR**.
* **Changes to be made**:
  + Keep **DR** as it is in both the **documentation** and the **equation**.

**5. Syntactic Role Conformity (SR) → (Merged into Naming Conformance)**

* **What Changed**:
  + **Syntactic Role Conformity (SR)** has been **merged into Naming Conformance (NC)**.
  + **SR** measured the **grammatical correctness** of the identifier (e.g., functions should be verbs, variables should be nouns), which is now a part of **NC**.
* **Impact on Documentation**:
  + Remove **SR** from the thesis and merge the concepts into **NC**.
  + **SR** is essentially **incorporated into the checks for naming conventions** in **NC**.
* **Changes to be made**:
  + **Update thesis** and **programs** to remove **SR**.

**Summary of What Needs to Change:**

* **Thesis**:
  + Replace **SC** and **NL** with **MC**.
  + Replace **ST** with **NC**.
  + Replace **LN** with **OL**.
  + **SR** is now merged into **NC**—so you don't need a separate section for **SR**.
* **Code**:
  + Merge the calculations for **SC** and **NL** into **MC**.
  + Update the function that calculates the final score to incorporate **MC**, **NC**, **OL**, and **DR**.
* **Equations**:
  + **MC**: MC(N)=SC(N)+NL(N)2MC(N) = \frac{SC(N) + NL(N)}{2}MC(N)=2SC(N)+NL(N)​
  + **Final Readability Score**:

R(N)=wMC⋅MC(N)+wNC⋅NC(N)+wOL⋅OL(N)+wDR⋅DR(N)R(N) = w\_{\text{MC}} \cdot \text{MC}(N) + w\_{\text{NC}} \cdot \text{NC}(N) + w\_{\text{OL}} \cdot \text{OL}(N) + w\_{\text{DR}} \cdot \text{DR}(N)R(N)=wMC​⋅MC(N)+wNC​⋅NC(N)+wOL​⋅OL(N)+wDR​⋅DR(N)

Where:

* + - wMC,wNC,wOL,wDRw\_{\text{MC}}, w\_{\text{NC}}, w\_{\text{OL}}, w\_{\text{DR}}wMC​,wNC​,wOL​,wDR​ are the weights.

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**Next Steps:**

* If you're ready, I can **update the code** to reflect these changes and run it against the dataset to produce the updated results.
* You can also **start updating your thesis** to reflect the simplified model with **4 key factors** (MC, NC, OL, DR).

Let me know how you'd like to proceed!