System Type: \( \text{atisIndirectInfluencedSystem} \)

(System type is part of the metatheory and describes configurations and properties that characterize a specific system.)

**Indirect-influenced system**, \( \text{ID} \mathcal{S} \), \( =_{df} \) a system with affect relation sets characterized by indirectly connected components.

\[
\text{ID} \mathcal{S} =_{df} \mathcal{S} \mid \exists \mathcal{A}_{\text{ID}}(\mathcal{E})
\]

**Indirect-influenced system** is defined as a system; such that, there exist affect relation sets that are characterized by indirectly connected components.

\[\mathcal{M} : \text{Indirect-influenced system measure}, \ \mathcal{M}(\text{ID} \mathcal{S}), \ =_{df} \text{a measure of the average of the indirectly connected component sets of the affect relation set.} \]

\[
\mathcal{M}(\text{ID} \mathcal{S}) =_{df} [\left( \sum_{i=1}^{n} \left| \left( \text{ID} \mathcal{E}_{j; \mathcal{A}(i)} \right) \right| \right)_{j=1,...,m} \div m] \div \log_{2} \left| \mathcal{A}_{i} \right| \div n] \times 100
\]

The diagrams on the next pages show indirect influence in a school system:
**Indirect-Influence in a School System**

**Affect Relation:** *Controls Activities of*

In this system, there are 6 distinct *Indirect-Influenced Subsystems* that *Control Activities of* other components with respect to *Indirect-Influence*. Since there are 14 components, then the total possible affect relation paths is 236,975,181,590. Therefore, $\log_2 |A| \approx 37.78594$. There are 24 paths related to *Indirect-Influence*.

**Note:** Since there are numerous *Indirect-Influenced Subsystems* within this school system, additional figures on the next page will indicate the additional subsystems.

Therefore: $M(\text{II}S) \approx 11$. 
Indirect-Influence in a School System

### Affect Relation: Controls Activities of

- **Administrators:** A1, A2
- **Teachers:** T1, T2, T3, T4
- **Students:** S1, S2, S3, S4, S5, S6, S7, S8