# AGS Virtual Guard Server (AGS VGS)



- Guard sanitizes (downgrades) high-level
  - Available at a lower level, only if meet constraints
  - For example, message contain no "dirty words"
- Low-assurance is complicated & expensive
  - "Server farms" with separate guard boxes per policy
    Large monolithic platform & algorithm C&A effort

#### VGS uses COTS GEMSOS Class A1 platform

- Run multiple diverse downgrading algorithms on VGS
- Scalable high performance multiprocessor RTOS
- High-assurance each instance is isolated and protected
- Assured pipelines for messages in and out
- Dramatic recertification reduction just downgrading

## Notional High-to-Low Guard Architecture





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### A COTS, Virtualized, Adaptable, High-Assurance Guard Server

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