

Looking to the Future

The traditional view is that the "devil is in the details." Through e-LINCS, which recognizes that the "angel is from the details," participants will be able to experience a seamless extended enterprise.



The use of the Master Specification is a collaborative process

Under the sponsorship of the US Air Force Research Labs Manufacturing Technology Division, the Renaissance team will conduct an e-LINCS Pilot. The e-LINCS Pilot will establish a baseline for broad-based application. The ability of every level of the supply chain to have access to the e-LINCS tools will be a key to US industrial base quality, productivity, and competitiveness for the foreseeable future.



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Electronic Industry-wide
Network for Characteristics &
Specifications



The Angel is from the Details...

Requirements Flow - Sharing Complex Technical Data at all Levels of the Defense Supply Chain

The Supply Chain Imperative

The aerospace & defense industry is being driven by shifts at the Government and at the prime contractor level: a) Emphasis on **systems integration**, b) Elimination of Military **specifications**, c) Focus on system **sustainment**, d) Realization of **diminishing sources** for legacy parts. The combined effect of



Complex casting for aerospace application

these changes places a premium on the way complex technical requirements are flowed, interpreted, and executed at every level of the supply chain.

e-LINCS: the Holistic Approach

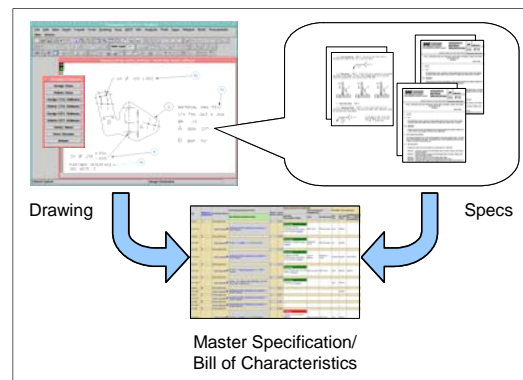
The measure of success in the delivery of complex engineered products is how well the design intent is transformed into hardware. Traditionally, the flow of requirements has been through large volumes of paper or — more recently — through large electronic files that simply replicate the paper documents.

e-LINCS marks a break with this tradition. Through the combined expertise of Renaissance Services and its program partners, e-LINCS will offer a fully electronic, web-based capability that will help the supplier extract the relevant portions of design intent at the **characteristic** level, translate that information into hardware, and flow the results back to the prime level. e-LINCS will reduce **cycle times**, enhance **productivity**, and substantially improve product **quality**.



Master Specification

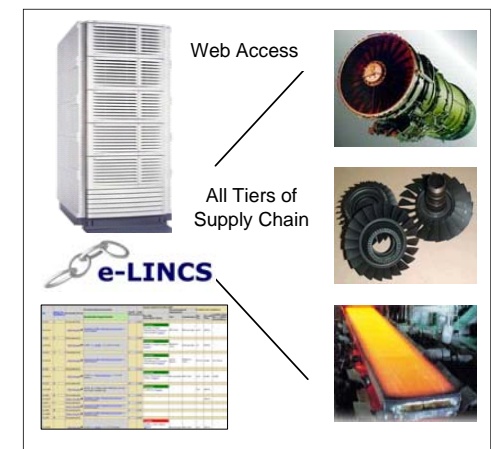
At the core of the near term e-LINCS vision is the "*Master Specification*." The Master Specification is the vehicle that combines intelligence, internet access, and systematic discipline to the definition, interpretation, and realization of engineered products.



Drawings, notes, and specifications define the Characteristics in a Master Specification



e-LINCS will provide a forum to enable all levels of the supply chain to collaborate on characteristic-level requirements and results, improving their collective understanding and allowing for a proactive approach to potential issues.



e-LINCS enables Master Specification access throughout the supply chain