

# Gear Design on the Go!

The new GEMS® Ecosystem connects gear producers to the powerful design and manufacturing tools they need – anywhere, all the time.

The GEMS Ecosystem is the foundation that supports Gleason 4.0 and provides a complete smart factory solution to the gear industry. It connects the discrete steps

of design, manufacturing, and inspection into an integrated open system that delivers high quality and efficient gear/tool production in both manual and automated environments. It is vitally

important to customers seeking to speed development and production of exciting new products like Electric Vehicles. The GEMS Ecosystem consists of four major computing platforms:



GEMS Edge provides an industrial-grade edge computer for every Gleason 4.0 ready machine. This creates a platform for running gUptime, gTools, gProduction and gProcess software at the machine level and connecting them to other machines and software systems in the customer's factory.



GEMS Enterprise provides a platform for running apps and services such as System Design, Gear/Tool Design, Gleason 4.0, and Manufacturing solutions on servers and workstations within the customer's facility.



GEMS Mobile provides apps for Gleason 4.0 solutions, service solutions, and shop floor notifications and alerts, to name a few – all through consumer mobile devices such as smart phones and tablets.



# GEMS Cloud

GEMS Cloud provides apps and services such as System Design, Gear/Tool Design, Gleason 4.0, and Manufacturing solutions from the Cloud. This links with Gleason Business Systems and Data Analytics Systems to offer customers the potential for machine learning and artificial intelligence.



In the past, design applications such as CAGE™, G-AGE®, KISSsoft®, etc. have resided on servers and workstations in the customer's facility. Now, with GEMS Connect, our customers can run those same applications from the Cloud. All application services are available online including real-time software updates and upgrades.

As you might expect, the availability of the GEMS Ecosystem is welcome news, judging from initial customer reaction. Gleason has received very positive feedback from customers who have experienced the first demonstrations of GEMS Connect at recent tradeshows. We will be bringing you more information on this development in the months ahead.



**Ron Dafoe**  
Chief Software Architect  
Gleason Corporation



**Rakesh Kulkarni**  
Director Digital  
Manufacturing Solutions  
Gleason Corporation



**Uwe Gaiser**  
Director Product  
Management  
Bevel Gear Solutions  
Gleason Corporation