2018 nCode User Group Meeting

February 28 - March 1, 2018 – Novi, MI USA

nCode

ReliaSoft

omnicon
Aqira
Web-based Analysis and Democratization

Jon Aldred
VP Product Management
What is Prenscia Access?

Prenscia Access is a unified licensing model that provides annual leased access to any combination of nCode and ReliaSoft Synthesis desktop applications.
What software do you have access to?

- DesignLife
- GlyphWorks
- VibeSys

Premium Materials Database

- Weibull++
- ALTA
- BlockSim
- RENO
- RGA

- XFMEA
- RCM++
- RBI
- MPC
- λPredict
How many units will Prenscia Access draw?

The Prenscia Access unit draw for nCode products and ReliaSoft products are as follows:

<table>
<thead>
<tr>
<th>nCode Product Options</th>
<th>Unit Draw</th>
</tr>
</thead>
<tbody>
<tr>
<td>nCode Fundamentals</td>
<td>600</td>
</tr>
<tr>
<td>Premium Materials Database</td>
<td>150</td>
</tr>
<tr>
<td>Viewer Extensions</td>
<td>50</td>
</tr>
<tr>
<td>nCode GlyphWorks</td>
<td></td>
</tr>
<tr>
<td>Signal</td>
<td>350</td>
</tr>
<tr>
<td>Data Cleaning</td>
<td>150</td>
</tr>
<tr>
<td>GPS Display</td>
<td>150</td>
</tr>
<tr>
<td>Media Display</td>
<td>100</td>
</tr>
<tr>
<td>GlyphBuilder</td>
<td>250</td>
</tr>
<tr>
<td>Fatigue</td>
<td>500</td>
</tr>
<tr>
<td>Fatigue Editing</td>
<td>400</td>
</tr>
<tr>
<td>Accelerated Testing</td>
<td>500</td>
</tr>
<tr>
<td>Optimized Testing</td>
<td>400</td>
</tr>
<tr>
<td>nCode VibeSys</td>
<td></td>
</tr>
<tr>
<td>nCode VibeSys Base</td>
<td>350</td>
</tr>
<tr>
<td>Modal Analysis</td>
<td>400</td>
</tr>
<tr>
<td>nCode DesignLife</td>
<td></td>
</tr>
<tr>
<td>nCode DesignLife Base</td>
<td>300</td>
</tr>
<tr>
<td>FE Display</td>
<td>100</td>
</tr>
<tr>
<td>CAE Strain (E-N)</td>
<td>400</td>
</tr>
<tr>
<td>CAE Stress (S-N)</td>
<td>400</td>
</tr>
<tr>
<td>CAE Dang Van Solver</td>
<td>250</td>
</tr>
<tr>
<td>CAE SpotWeld Solver</td>
<td>250</td>
</tr>
<tr>
<td>CAE SeamWeld Solver</td>
<td>250</td>
</tr>
<tr>
<td>CAE WholeLife Solver</td>
<td>500</td>
</tr>
<tr>
<td>CAE Vibration Fatigue</td>
<td>400</td>
</tr>
<tr>
<td>CAE Multi-Load Vibration</td>
<td>150</td>
</tr>
<tr>
<td>CAE Virtual Load Generation</td>
<td>250</td>
</tr>
<tr>
<td>CAE TMF Solver</td>
<td>350</td>
</tr>
<tr>
<td>CAE Composite Solver</td>
<td>250</td>
</tr>
<tr>
<td>CAE Short Fibre Composite Solver</td>
<td>250</td>
</tr>
<tr>
<td>CAE Adhesive Bond</td>
<td>250</td>
</tr>
<tr>
<td>CAE Safety Factor</td>
<td>250</td>
</tr>
<tr>
<td>CAE Processing Thread</td>
<td>150</td>
</tr>
<tr>
<td>CAE Distributed Processing</td>
<td>250</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ReliaSoft Product Options</th>
<th>Unit Draw</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weibull++</td>
<td>150</td>
</tr>
<tr>
<td>ALTA PRO Edition</td>
<td>750</td>
</tr>
<tr>
<td>BlockSim (Multi-thread with Markov)</td>
<td>700</td>
</tr>
<tr>
<td>Xfmea</td>
<td>300</td>
</tr>
<tr>
<td>RCM++</td>
<td>600</td>
</tr>
<tr>
<td>RGA</td>
<td>400</td>
</tr>
<tr>
<td>MPC Plus Edition</td>
<td>950</td>
</tr>
<tr>
<td>RENO</td>
<td>200</td>
</tr>
<tr>
<td>Lambda Predict (All Modules)</td>
<td>600</td>
</tr>
<tr>
<td>RBI</td>
<td>1,500</td>
</tr>
</tbody>
</table>
Aqira & Prenscia Access

- Prenscia Access enables different combinations of Prenscia products to be used.
- When launched, each application draws a specified number of Prenscia Access tokens from your organization's shared cache.
- Upon closing the product, the tokens are released back to the organization's shared cache for other users to access.
Aqira & Prenscia Access

- Aqira is installed on-premises and provides many benefits.
- nCode .flo files are managed in Aqira and can be downloaded for local use.
- Web browser access in Aqira means no local nCode software needs be installed.
Aqira & Prenscia Access

• Aqira enables LAN priced license units to be used globally.
• Number of units required in increased based on time-zone of user.
• Other pricing benefits of license units with Aqira.
Aqira

• Run nCode through a browser
• Manage & share analytical processes
• Benefit from licensing advantages
Demo: Flow List & Remote nCode
Remote nCode

- Remote nCode is a version of nCode that is hosted on a server and run interactively in a web browser.
- Flows that are stored in Aqira can be opened by this version of nCode and used in a browser without having nCode installed on your own computer.
Flows

- Analysis processes are defined in nCode software using graphical building blocks called “glyphs”.
- The encapsulated process is called a “flow”.
- Flow files can be saved.
- Aqira extends this by enabling the managing and easy sharing of flows.
Aqira: Sharing & Standardization – Flow Details

• Manage processes in a central location and store additional information and documentation with each one
Sharing Flows

My Flow

Everyone

Groups

Research

Individuals

Vicky

Danny

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HBM Prenscia: Public
Sharing Flows

My Flow

Everyone
- View Only

Groups
- Open
- Download
- Research

Individuals
- Open
- Download
- Vicky
- Danny
Apps

- Flows can get complicated.
- Apps are an easy-to-use front-end for what could be a very sophisticated analysis process.
- Apps enable you to ask a few simple questions that are relevant, hide all the options you don’t want the user to touch, and provide the results in an intuitive and graphical manner.
Demo: Apps
Aqira & Prenscia Access

- Aqira enables LAN priced license units to be used globally.
- Number of units required in increased based on time-zone of user.
- Other pricing benefits of license units with Aqira.
License Groups

- License Groups are special Groups used to manage the availability of license units.
- Users cannot be in multiple License Groups.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Units Maximum</td>
<td>Sets the maximum number of license units that can be used by each group.</td>
</tr>
<tr>
<td>Units Reservation</td>
<td>Sets aside a number of license units only for use by this License Group.</td>
</tr>
</tbody>
</table>

- For example, you may want to set License Groups so that:
  - The CAE group in Detroit cannot use more than 50% of the tokens
  - The Powertrain group always has access to 2,000 units
Aqira Benefits for More Products for 2018 Release

Simulation benefits

License token draw per processing thread reduced from 150 units to 35 units

Reliability benefits

License token draw reduced from 300 units to 75 units

Aqira users are enabled as SEP users at no extra cost
Share FMEA lessons learned throughout the organization

**Challenge:** Significant investment to perform FMEAs, but the valuable lessons learned are not easily accessible to all personnel who need the information.

**Solution:** FMEA teams use **XFMEA** to perform the analysis.

Managers and others use **SEP** to view and query the most up-to-date analyses.

**Value:** More effective knowledge sharing leads to better products.

**Aqira** offers cost savings for high-volume FMEA customers.
Aqira: Benefits

**Standardize**

**Value for Engineers**
- Improves quality of analysis through easily shared analytical processes
- Reduces wasted effort in re-inventing methods
- Avoids using incorrect or out of date processes
- Reduces time spent finding right process

**Democratize**

**Value for Engineering Managers**
- Reduces risk of reliance on a few individuals
- Capture IP and corporate knowledge with engineering apps
- Less-expert users perform more analysis
- Faster centralized analysis on more powerful servers

**Globalize**

**Value for IT Managers**
- Global usage of Prenscia Access token licenses for nCode and ReliaSoft without global multiplier on cost
- Improves management of license tokens through easily defined groups of users
- Reduces IT effort by enabling interactive web-access to nCode software and avoiding many local installations
Aqira

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www.hbmprenscia.com

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