THE LABVIEW RADE FRAMEWORK DISTRIBUTED ARCHITECTURE

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Project Goal

- Full integration of LabVIEW in the CERN accelerator domain
- Rapid programming and stable implementations through well defined templates and project generation.
- Easy to maintain through transparent updates and support of multiple versions through a generic distributed architecture
Solution Outline

• Distributed architecture implementation through Apache tomcat, TCP/IP and redundant servers
• Integration of multiple communication layers giving high flexibility
• Project generator automatically generating templates, documentation, drivers and communication layers
Conclusion

• The RADE framework provides an excellent and powerful tool that can be used to cope with challenges in an environment that quickly and constantly changes.
• However, changes can cause unforeseen problems that affect many users.
• Flexibility and convenience of a distributed architecture trumps the downsides by far.