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The Importance of backward compatibility

- SCA Next -

Agenda



- * What does Backward Compatibility Mean?
- * Is SCA Next Backward Compatible?
- * How Important is Backward Compatibility for SCA Next?
- * What are the Options for Moving Forward?
- * Conclusion

What does Backward Compatibility Mean?



Definition of Backward Compatibility

Wikipedia:

- "If products designed for the new standard can receive, read, view or play older standards or formats, then the product is said to be backward-compatible"
- "In other contexts, a product or a technology is said to be backward compatible when it is able to fully take the place of an older product, by inter-operating with products that were designed for the older product"
- "Backward compatibility is a relationship between two components, rather than being an attribute of just one of them. More generally, a new component is said to be backward compatible if it provides all of the functionality of the old component."





Let's see what we can do....

Launch a SCAv2.2.2 application on a SCA Next Core Framework?	No ¹
Launch a SCAv2.2.2 node on a SCA Next Core Framework?	No
Reuse a SCAv2.2.2 Resource in a SCA Next Application?	No ¹
Reuse a SCAv2.2.2 Device in a SCA Next node?	No ¹
Get a SCAv2.2.2 DeviceManager to register with a SCA Next DomainManager?	No ¹
Use SCAv2.2.2 tools to install, instantiate, start, stop, connect, or disconnect SCA Next applications on an SCA Next Core Framework?	No ¹

Therefore, how is SCA Next backward compatible?

 There is no interoperability possible between SCAv2.2.2 components and SCA Next components

¹ Even with full inheritance SCA Next IDL interfaces

How Important is Backward Compatibility for SCA Next?



- How important is it for the SCARI customers to reuse the millions of lines of source code implemented over the last 7 years?
 - The promise of the SCA is to maximize the reuse of software components
 - Savings mostly come at the second or third generation SCA Radio
- How important is it for the US to be able to reuse DoD repository?
- How important is it for ESSOR players to be able to reuse their SCAv2.2.2 investment?
- How important is it for SVFuA players to be able to reuse their SCAv2.2.2 investment?





❖ [Option 1] Accept that SCA Next is not going to be backward compatible

- Must highlight clear advantages to justify SCA Next adoption
- Must clearly state that porting will be necessary for any SCAv2.2.2 artefacts

❖ [Option 2] Work on making SCA Next backward compatible

Form a work group to investigate backward compatibility

❖ [Option 3] Ignore SCA Next

What are the Options for Moving Forward?



❖ In December 2013, [option 2] was selected by WinnF. A new Task Group was formed and chartered to investigate backwards compatibility issues for SCAv4

The SCA4.1 Backwards Compatibility Task Group

Goal: Investigate how SCAv4 breaks backwards compatibility with SCA
 2.2.2, define potential solutions to address specific issues, gather consensus and submit change proposals to the JTNC.

Schedule:

- [Milestone 1] Jan 14 2014 Prioritized list of issues, relative levels of disruptiveness, associated requirements
- [Milestone 2] Mar 14 2014 List of potential solutions
- [Milestone 3] Apr 14 2014 Final report containing selected solutions
- Balloting dates: April group ballot, May committee ballot,
 June Plenary ballot

Conclusion



- **SCAv4** is not backward compatible at all
- **❖** We need to avoid [Option 3]
 - Remember SCAv3.0?
 - It led us to SCAv2.2.2 and some extensions

❖ [Option 2] is worth a try

Join the Task Group!



— The End —

For more information: steve.bernier@nordiasoft.com