



UPGRADING TO SMALLWORLD 5

Mark Field Challenges/Solutions



Upgrade 30 Customers from version 4.1.1 to Version 5.1

- Mixture of
 - Smallworld Core
 - Smallworld Design Manager
 - Physical Network Inventory
- by the Numbers
 - 25 Core
 - 5 Design Manager
 - 2 PNI
- Plans....
 - Upgrade all customers to 4.3 (2018-2019)
 - As soon as that is complete, update to 5.1 (2020)
 - Update to latest 5.2 18 months to 24 months afterwards (2022)



Where are we today?

- Started April 2018
- 24 Core Upgrades Completed
 - 18 2H 2018
- By the way!!!!
 - 1 New Core Install
 - 4 New PNI Installs
- PNI Upgrades Tested In House
 - Includes automated netAssign to PRM conversion
- Design Manager
 - Database upgrade process tested
 - DM functionality being tested
 - Overwrites need updating
 - 3Q 2019 rollout
- Delayed due to MultiSpeak Interface project
- PNI 3Q 2019 Awaiting Customers Go-ahead



How? Response?

- Magik scripts do nearly everything
 - Reconfigure SOMs
 - Applies Datamodel upgrades
 - Created/modified XMLs for datamodel upgrade procedures
- “Give us the day to do the upgrade. We will talk during lunch.”



- Upgraders thoughts
 - “After the first couple upgrades, the process smoothed out and we couldn’t wait to do the next.”
 - K Wesson
- End Customer thoughts
 - “The upgrade/update was a smooth transition. Love the new features that were added. The main transition “issue” was breaking the habit of the old way which was a little longer process.”
 - D. Reich

Next Steps

- Development/Testing for SW5 will be done within same tree as 4.3.
 - Active source control branch
 - Alleviates code re-integration in future
- PNI Requires Data Model Update
 - Will need experimentation with 4.3, but may not be needed
- Prototype of Smallworld 5.1.9 Core is ready (< 16 hrs)
- Testing H2 2019
- Start SW5 rollout Q1 2020
 - Core and PNI
- Start SW5 Design Manager rollout Q3 2020



How to Support 4.3 & 5.1.x

- Need to separate ICOs/PNGs
 - PNG Icon files can go into resources/icons
- Use “symbolic links” for libs
 - *mklink /d libs libs_20190531
 - allows for rebuilds with active sessions
- Run 5.26.0 SWMFS (post 5.1.9)
- SW5 Compatibility
 - sw_task_owner
 - MagikFinalisable support



* run as administrator

Lessons Learned

- Have separate images or sessions to isolate issues
 - Base, 3rd Party, Customized
 - Easier to have GE example
- Reduce true overwrites
 - Use copy method & do customizations before/after (akin to hooks)
- 4.3 is a great temporary step between 4.1 and 5.1
- “Environmentalize” build for target environments
 - In CSA’s case 31 customers
 - In yours, prod, dev and test
- Get GE demo database built with your code structure
 - Datamodel code probably won’t work well
 - Forces a truly component methodology
- Source Control!!!!!!
- Well Defined Process

