

## Scaling Use Case (Dublin)

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Beijing	Casablanca	Dublin	El Alto	Frankfurt
Manual Scale Out - ConfigScaleOut - VID Screens for Manual Scale Out - UUI Screens for Manual Scale In/Out - SO REST interfaces for VID & UUI - VF-C REST API for SO - VF-C Driver to adapt S-VNFM Platform - Hard coded VNF Configuration - Hard coded Controller Type - HEAT only VNFs	Auto Scale Out - CLAMP Interface for Operational and Guard Policies - Updated SO REST Interface for use by Policy and VID Platform - Generic VNF Configuration via Preload - SO Table Lookup for Controller Type - Use of Generic Resource API in SO	Scale In - Scale In Platform - Auto VNF Configuration (Dependant on CDS) - Homing and Capacity Check - Architecture approved Controller Type Lookup - Support TOSCA Based VNFs	VNF Scaling - Scaling at a VNF Level	Geographic Scaling - VNFC level scaling across Data Centers - Vertical Scaling

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## What Really Needs to be Done!

- Experience with Scaling has taught us:
  - Opportunities to improve flexibility
  - Could be more reliable
  - Needs to be easier to add new features
  - Too many customized APIs

- Service Delivery components are more mature

   SDNC, SO, APPC
- Service Assurance Components should receive more focus.
  - DCAE, Policy, CLAMP



## **Dublin Scaling Focus**

Focus on Service Assurance	Control Loop Projects
Specifically Control Loops	Next Session
<ul> <li>Easier to Use</li> <li>Easier to Develop</li> <li>Model Driven</li> <li>Demonstrable</li> </ul>	<ul> <li>Control Loop for LCM Projects</li> <li>Ease of Creating Analytic Components</li> <li>Event Based Common Notification</li> <li>Model Driven Control Loop Design</li> <li>vFirewall Use Case Upgrade</li> </ul>

