

Prioritization of SIPG Tasks

- SWIM TF/10 asked SIPG to prioritize our task
 - To help identify which tasks have greater importance for APAC SWIM
 - To gauge the maturity of the different tasks
 - Split the work of SIPG into different groups to be developed in parallel.
- Current SIPG Tasks
 - SWIM Architecture
 - Routing Mechnisms
 - GEMS construction
 - Edge EMS connection and testing
 - Request / Reply MEP
 - SWIM Security
 - SWIM Registry Interoperability
 - AMHS protocol conversion
 - Testing of the APAC SWIM prototype
 - Measurement of the performance metrics
 - Conditions for SWIM operationalization.



Additional Tasks from SWIM TF/10 Meeting

- Define the functionalities and requirements of Edge and Gateway EMS
 - Availability of 99% to be deliberated
 - Completed requirements document based on template in SWIM TF /10 WP/29
- Internet connectivity for the APAC SWIM
- Revised hierarchical architecture review
 - Consider the reuse of ATN network topology to distribute Edge and Gateway EMS
- Use of CRV residual bandwidth or CRV test network (if provisioned)
- Develop guidance on the difference between Async Req/Rep and Sync Req/Rep MEP



Suggested priority

| Task | Priority |
|--|----------|
| Define Functionality and requirements for Edge and Gateway | 1 |
| Review of revised hierarchical architecture | 2 |
| SWIM Architecture – Req/Rep MEP and guidance for Async and Sync | 3 |
| Use of CRV Residual Bandwidth or CRV Test network (If Provisioned) | 4 |
| SWIM architecture construction | 5 |

| Task | Priority |
|--|----------|
| SWIM Security Implementation – Self signed certs | 6 |
| SWIM Registry Interconnection | 7 |
| AMHS Protocol converters | 8 |
| Testing of the APAC SWIM Prototype | 9 |
| Measurement of performance metrics | 10 |
| Conditions for SWIM Operationalization | 11 |



Proposal for SWIM Timeline

- 1. Two overlapping Phases
- 2. SWIM Architecture: Requirements on Gateway EMS Providers
 - i. Limits on the total number of Gateway EMS providers
 - ii. Minimum latency and throughput requirements
 - iii. Runtime governance for Gateway EMS
 - iv. Common set of message queues for Gateway EMS
 - v. Testing requirements and procedures for onboarding Gateway EMS
- 3. SWIM Architecture: Routing Mechanisms
 - i. Message headers, message properties or Topics?
- 4. SWIM Architecture: PKI requirements for APAC SWIM Use Case



Timeline



