

Solution Design Advisory Group (SDAG)

Meeting #2
BIS Conference Centre

18 December 2012

Agenda: SDAG

BIS Conference Centre

10:00 Tuesday 18th December 2012



1. 10.00 - 10.15 Actions from previous meeting Colin Sawyer
2. 10.15 – 11.00 Plan for addressing the issues raised at other SMIP forums
Colin Sawyer
3. 11.15 – 12.45 Review of comments made on ISDS documentation
Lesley Keable
4. 13.15 - 13.45 Report back from security workshop on 11 Dec
Gordon Hextall
5. 13.45 – 14.15 Update from HAG (including plans for the wired HAN trial)
Peter Morgan
6. 14.15 - 14.45 Report back from the Intimate Comms Hub Workshop
Phil Clayton
7. 14:45 – 15:00 AOB

1. ACTIONS FROM PREVIOUS MEETING

Colin Sawyer

Actions

Action ID	Action	Due Date	Owner	Status
SDAG_1.01	Programme Governance: DECC to provide an update on the programme governance structure to reflect the re-organisation of the SMP boards/forums/advisory groups	10.01.12	CS	Open
SDAG_1.02	Business Processes: DECC agreed to confirm the date by which the updated Business Process Model would be issued to SDAG. This would take into account the findings from the ISDS review	18.12.12	JH	Open
SDAG_1.03	SDAG Agenda items: To enable forward planning of SDAG, DECC agreed to set out the programme of work, including products that require SDAG review, to SDAG on 10.01.13	10.01.13	CS	Open
SDAG_1.04	SDAG Attendees: DECC to invite Ofgem to SDAG when relevant agenda items are scheduled	n/a	CS	Open
SDAG_1.05	Outstanding Technical Architecture concerns: A number of concerns had been raised at a recent Technical Architecture meeting. It was agreed that these matters would be reviewed and any extant concerns would be listed for discussion at future SDAG meetings.	10.01.13	JH	Open

1.1.

Actions (cont'd)

SDAG_1.06	Review of ISDS technical requirements: SDAG members were requested to review the ISDS documents and feedback to DECC any material comments, within the suggested scope of the review.. A template to capture SDAG comments will be issued.	14.12.12	ALL	Open
	EUK had already compiled a list of ISDS issues and agreed to distribute them to SDAG members It was unclear if all members had the ISDS documentation. It was agreed that if anyone did not have them they were to send requests to the Chair.	07.12.12	JB	Closed
SDAG_1.07	SDAG Meeting Presentation: The presentation given at the meeting held on 4 Dec 2012 was to be issued to all SDAG members	05.12.12	PH	Closed
SDAG_1.08	User Gateway Catalogue: The User Gateway Catalogue has been updated to reflect the security architecture and will be issued to SDAG imminently.	07.12.12	JH	Open
SDAG_1.09	IHD Data Storage: Clarification on the requirements for the IHD to store data was required	18.12.12	CS	Open
SDAG_1.10	Security Architecture: Energy suppliers has requested a STEG workshop for w/c 10 Dec 12 to discuss issues with the Security Architecture. Members were encouraged to request agenda items from their security leads for this meeting and send to GH	10.12.12	ALL	Open
SDAG_1.11	Installation and maintenance: It was agreed that the process for installation and maintenance (using HHT) was to be developed to ensure that a common approach was adopted by all suppliers.		MR	Open

1.1.

2. PLAN FOR ADDRESSING THE ISSUES RAISED AT OTHER SMIP FORUMS

Colin Sawyer

- Create a “single point of truth”; a spreadsheet which pulls together all the gaps, issues & risks for the e2e work.
- Allocate owners for each (Architecture, Equipment, Procurement, Project)
- “Gang-of-four” (Julian, Phil, Lesley, Paul) meet periodically to prioritise and action.
- Create a forward schedule for future SDAG’s so that attendees know that a sub-set of issues will be covered.
- Execute....

- The biggest danger is that this process consumes resource needed for other work;
 - Focus only on the big ticket items. (Initially, we suggest looking only at the Gaps and Issues from the EUK meeting).
 - Re-use what exists; wherever possible we should be answering problems by referring to current or planned deliverables, not creating new stuff.
 - We should not be afraid to say “that’s not our problem” and/or “that’s not a priority”.

3. REVIEW OF COMMENTS MADE ON ISDS DOCUMENTATION

Lesley Keable

- Circa 200 comments received on ISDS schedules from:
 - EDF
 - SSE
 - Npower
 - ENA
 - AMO
 - E.ON
- Majority of comments on Comms Hub, Functional Requirements, DUGC
- Some very detailed specific comments
- Some comments on areas considered as out of scope
 - Commercial Issues
 - SMETS 2 questions
- Today we will:
 - Confirm next steps to address ongoing issues/comments
 - Clarify areas that have been/will be addressed by IFST

Comment/issue	Action
Timescales for DSP design and development	Industry day with bidders April 2013: - Share approach and plans to development of DSP/CSP
Installation and commissioning process	SDAG workshop planned 15 Jan to agree position
Supplier X requirements	DECC to confirm business case based on: -Smaller supplier interest -Bidder feedback on costs
SMETS2 alignment	Contractual documents will be aligned to SMETS2
Enduring CoS	Awaiting change request from industry
Commercial comments – latency/minimum service levels	Commercial Working Group 20 th December – please feed your comments in via your rep

Comment	Position
Inclusion of intimate comms hub requirements	Will be included for ISFT
Inclusion of dual band requirements	Ongoing issue
Clarify how many devices can pair to the HAN	Will be included for ISFT
Clarify role of Comms Hub data store (gas proxy)	Will be included for ISFT
Inclusion of security requirements	Will be included for ISFT
CHTS and supply outage management sch 2.1 – don't reflect network requirements	Clarify with ENA

DCC User Gateway Catalogue (DUGC)

- **Questions**

- **Scope of catalogue**
- **Level of definitions within the Service Requests**
- **Detailed questions on individual Service Requests**
- **User Role Matrix**

- **Key Points**

- The Catalogue is detailed at a business process (logical) level
- Will be detailed at a technical interface specification level following DCC and DSP/CSP service provider contract award
- The DUGC is an evolving document and will be updated to match each procurement milestones
- Next Version > updated in Line with issued SMETS2
 - > shall be issued with the ISFT.

DUGC – User Role Matrix

- **Questions**
 - **Which services are available to which DCC Service Users?**
 - **Suggestions to add capability for electricity network operators to utilise this functionality**
 - Read Device Status Data
 - Update Device Configuration (Load Limiting) - required for electricity network operators
 - Disable Supply
 - Arm Supply
 - Activate Auxiliary Load Control
 - Deactivate Auxiliary Load Control
 - Update Demand registers
 - **Clarity over which Service Requests are accessible for Eligible Supplier Agents**

DUGC – User Role Matrix

- **Key Points**

- ISDS requirements in the DUGC reflects the current position of requirements
- Crucially, we are procuring a service with a configurable User Role Matrix
- Therefore, no need to define these are present
- SDAG will progress these requirements through the DUGC updates
- Next version issued with IFST
- Final output will be included in the SEC
 - Linked to core / elective service definition

Functional Requirements

- **Key Points**
 - Updates Provided in two parts
 - Comments already noted and updated in ISFT
 - Comments to be addressed in ISFT

Comments already noted and updated in ISFT

- Access Control
 - Periods of responsibility for registered Energy Supplier
 - Pending Energy Suppliers can read DCC Inventory prior to CoS date
 - Mappings required to link existing Industry IDs/ SEC IDs to public keys IDs
 - Additional FRs for 'Eligible Supplier Agents' and updates to include these in the DUGC User Role Matrix
 - Access to Export Data – Need to allow DCC Service Users access – To be Covered in SMETS2 and new access control requirements to be added
- Confirm Provide Communications Coverage Information - 2 options
 - DCC Self service Interface
 - Request WAN Matrix Service Request

Comments to be addressed in ISFT

- Install, commissioning and maintenance process
 - Review and update FRs following completion of review of Security Architecture model
 - More definition on commissioning / decommissioning messages
 - Removal of pre notification Service Request of Configuration of SMS
 - approach when no WAN
- Alignment to SMETS2 once published - inc meter variants
- Alarms and Alerts
 - Need to list the full set of alarms / alerts – SMETS2 base but configurable over time
 - Need to state base position of where each is sent
 - All go to Registered Supplier by default
 - Other DCC Service Users can subscribe to relevant alerts
 - Any restrictions on who can and can't subscribe ?
- DCC Inventory – which SMS devices shall be stored?
- Firmware - Process for firmware update and associated requirements needs developing
- Coverage Information - Download of information – currently Postcode based – suggestion that this is not enough requirements

Other major comments

- Registration interface
- Critical commands – networks
- Update Device Configuration

Registration Interface

- **Issues**

- Lack of clarity of definition of transfer mechanism
 - Assumptions made by some Service Users as to the solution
 - DCC shall be responsible for
- Codes of Connections
 - Assumptions made by some Service Users as to the solution
- Update to industry should be defined by industry – now included within ISFT

- **Key Points**

- DCC shall be responsible for suggesting their solutions within ISDS responses
- DCC shall be responsible for the code of connection but this shall be solution dependent
- ISDS Registration Requirements have been shared with Gemerv and Xoserve for comment
- DSP DCC User Gateway options assessed at ISDS responses in Jan 2013
- Revised versions to be included in ISFT
- Suggestions to add capability for electricity network operators to utilise this

Confirmation of positions

- Anomaly detection occurs on all Service Requests and on all elements of the DCC Services
- DCC shall not have any Service Request Orchestration apart from the processing of a Defined sequence of Service Requests – DCC Service User is responsible for this function.
- Transitional CoS is operated by the DSP but in a logically and physically separate function.

Review of Comments



4. REPORT BACK FROM SECURITY WORKSHOP ON 11 DEC

Gordon Hextall

Security update (1)

Security Architecture:

- **High Level Security Architecture embedded in Technical Architecture;**
- **Change of Supplier proposals confirmed by energy suppliers (with some caveats and to be submitted by E-UK for DECC change control with ongoing work needed);**
- **ZigBee security improvements being proposed for development as SEP 1.2 with GB extension (clarifications and actions being progressed for 19 December);**
- **DLMS security requirements being discussed at a SSWG/DLMS workshop (workshop being held on 19 December);**
- **PKI architecture root and recovery key being progressed with CESG (DCC and DCC Users will need their own Certificate Authorities);**
- **UTRN – expert cryptography advice sought on the strength of algorithmic options.**

Security update (2)

Other security work underway:

- **Risk Assessment to be issued to STEG for review;**
- **Security requirements to be updated during January (to produce V0.6);**
- **Contract to develop CPA scheme security characteristics due to be let [today];**
- **CPA security characteristics for gas and electricity meters to be developed (January and February);**
- **CNI risks (workshop to be arranged January 2013);**
- **Clarification of security roles & responsibilities under SEC (and a proposed Security Sub-Committee);**
- **Clarification of proposals for assurance regimes for:**
 - **DCC: proposed to be SOC2 (Service Organisation Controls 2); and**
 - **DCC Users: proposed to be an annual audit based on role codes.**

5. UPDATE FROM HAG (INCLUDING PLANS FOR THE WIRED HAN TRIAL)

Peter Morgan

Wired HAN - Three Phase Approach to Trial



- Phase 1 – **Identification of Candidate Solution Options**
 - Wired HAN characterisation trial
 - Capture relevant building parameters and publish report
 - Identify candidate solutions taking trial results into account
- Phase 2 – **Technology trial**
 - *May be required if there is insufficient information to identify candidate solutions*
 - Formal competition run by DECC
- Phase 3 – **Analysis of candidate solutions against agreed criteria**
 - Quantitative + qualitative analysis
 - *recommendations for consultation*
 - *solutions not limited to wired HAN*

- Step 1: **Wired HAN Characterisation Trial**
 - Characterise buildings in the UK representative of different network conditions that may be encountered
 - Energy UK to publish the characterisation report
- Step 2: **Identify Wired HAN Technology Candidate Solutions**
 - DECC to request technology providers to provide information regarding their solutions, taking into account the characterisation report
 - DECC to review the information, and determine if technology trials will be required to further inform a decision on wired HAN technology

- Technical Issues
 - Blank sheet of paper is starting point
 - Significant changes to “2.4GHz way of doing things” required to deliver full GB functionality – options are being worked through
 - ZigBee group established to take work forward
- Dedicated spectrum
 - DECC and other Departments have been asked to present evidence to UKSSC at end of January
 - Decision expected shortly after (default option is that spectrum reverts to OFCOM for public consultation on rules for use)
- 868MHz deployment options
 - Responses indicated (weak) agreement for ‘market decides’ option
 - Options still being analysed

6. REPORT BACK FROM THE INTIMATE COMMS HUB WORKSHOP

Phil Clayton

Intimate Comms Hub Workshop



- Accepted that intimate installation will be the preferred route for most suppliers in most domestic premises
- There should be an Intimate Comms Hub specification as a key element in the CHTS.
- This should be directly based on the work of the BEAMA working group.
- The regulatory documentation will position ICH as an option.
- Formal notification will be in SMETS 2b
- Procurement documentation will position ICH as the preferred option; DECC will procure a single CH which is capable of working intimately or non-intimately.
- Responsibility for procuring additional kit (e.g. Flying leads or Hot shoe solutions) to support non-intimate installation), lie with Energy Suppliers.
- There will be collaborative working between DECC and the BEAMA working group to ensure consistency of documentation.

7. AOB

Date for Next Meeting



Next Meeting(s)

- Confirm Meeting 3: 24 January 2013
BIS Conference Centre, 10am – 3pm,
Agenda and invite to follow.