

SECMP0012 – Channel selection to support shared HAN solutions

Business Requirements

Ref.	Theme	Business Requirements	Comments/Assumptions
BR01	Set CHF Channel at installation	A Responsible Supplier shall be capable of setting the channel used by 2.4GHz Communication Hubs (CH) after initial powering of the CH but prior to the white-listing of other devices.	<p>It is assumed that a new Service Request and GBCS Use Cases would be needed to deliver this requirement.</p> <p>It is expected that only Responsible Suppliers would be permitted to send this new Service Request (Gas Supplier and Import Supplier would be the only eligible User Roles to send this Service Request).</p> <p>It is expected that this functionality is achieved via use of ZigBee startup parameters to Zigbee set channel or by setting channel mask of the CH such that only a single channel may be selected. Other solutions may be proposed so long as the CH will not change channel from the one selected if the CH has been instructed to use a set channel.</p>
BR02	Read CHF Channel Mask and Active Channel	Any User shall be capable of reading the set channel mask and the active channel on 2.4GHz CH.	<p>It is assumed that a new Service Request and new GBCS Use Cases would be needed to deliver this requirement:</p> <ul style="list-style-type: none"> - A new Service Request (or a new version of existing Service Request (SRV 6.2.4)) to read the channel mask and active channel - New GBCS Use Cases (part of ECS26) to read this configuration data item and this operational data item <p>It is expected that in line with access control for SRV6.2.4 any User would be eligible to send it.</p>
BR03	Set CHF Channel post installation	A Responsible Supplier shall be capable of setting the operating channel of 2.4GHz Communication Hubs (CH) following the installation and commissioning of a smart metering system	<p>This may not be technically feasible, as devices would need to rejoin in a timely fashion and there will also be considerations regarding the trust center to take into account.</p> <p>It is expected that ZSE startup parameters relating to Channel Mask are used to provide this capability as per BR01. Other solutions may be proposed so long as the CH will not change channel from the one selected if the CH has been instructed to use a set channel.</p> <p>It is not an absolute requirement to be addressed. Whilst it would provide flexibility in maintenance of devices in Alt-HAN environments, it is not necessary to have this capability for such environments to be made operational in a cost-effective way.</p>

Alternative Business Requirements – in addition to above requirements

Ref.	Theme	Business Requirements	Comments/Assumptions
Alternative - BR01	Set CHF Channel at installation	The Alt HAN Service Provider shall be capable of setting the channel used by 2.4GHz Communication Hubs (CH) after initial powering of the CH but prior to the white-listing of other devices.	<p>It is assumed that a new Service Request and GBCS Use Cases would be needed to deliver this requirement.</p> <p>It is expected that only Responsible Suppliers and Alt HAN Service Providers would be permitted to send this new Service Request (Gas Supplier and Import Supplier would be the only eligible User Roles to send this Service Request).</p> <p>It is expected that this functionality is achieved via use of ZigBee startup parameters to Zigbee set channel or by setting channel mask of the CH such that only a single channel may be selected. Other solutions may be proposed so long as the CH will not change channel from the one selected if the CH has been instructed to use a set channel.</p>
Alternative - BR02	Set CHF Channel post installation	The Alt HAN Service Provider shall be capable of setting the operating channel of 2.4GHz Communication Hubs (CH) following the installation and commissioning of a smart metering system	<p>This may not be technically feasible, as devices would need to rejoin in a timely fashion and there will also be considerations regarding the trust center to take into account.</p> <p>It is expected that ZSE startup parameters relating to Channel Mask are used to provide this capability as per BR01. Other solutions may be proposed so long as the CH will not change channel from the one selected if the CH has been instructed to use a set channel.</p> <p>It is not an absolute requirement to be addressed. Whilst it would provide flexibility in maintenance of devices in Alt-HAN environments, it is not necessary to have this capability for such environments to be made operational in a cost-effective way.</p>