



## SMART READINESS INDICATOR (SRI)

### A FOCUS ON HEATING SYSTEMS

SRI is a common EU scheme for rating the smart readiness of buildings.

Heating is one of the **nine technical domains** addressed by the SRI.

Heating refers to the energy needed for warming buildings, be them residential or in the service sector (for example schools, hospitals, office buildings).

The energy used for heating and cooling in buildings and industry accounts for 50% of the EU's annual energy consumption. By making the sector smarter, more efficient and sustainable, energy imports and dependency will fall, costs will be cut, and emissions will be reduced.

Smart heating control systems can act for instance on temperature set points and schedules. Some advanced systems implement algorithms and artificial intelligence to learn from user habits. They interact with other parameters such as windows openings and room occupancy to minimise energy waste.

By installing smart controls such as digital thermostats, citizens can save up to 15% of their energy consumption. These upgrades allow consumers to control heating comfort more conveniently, to regulate their energy use and benefit from the lowest energy prices.

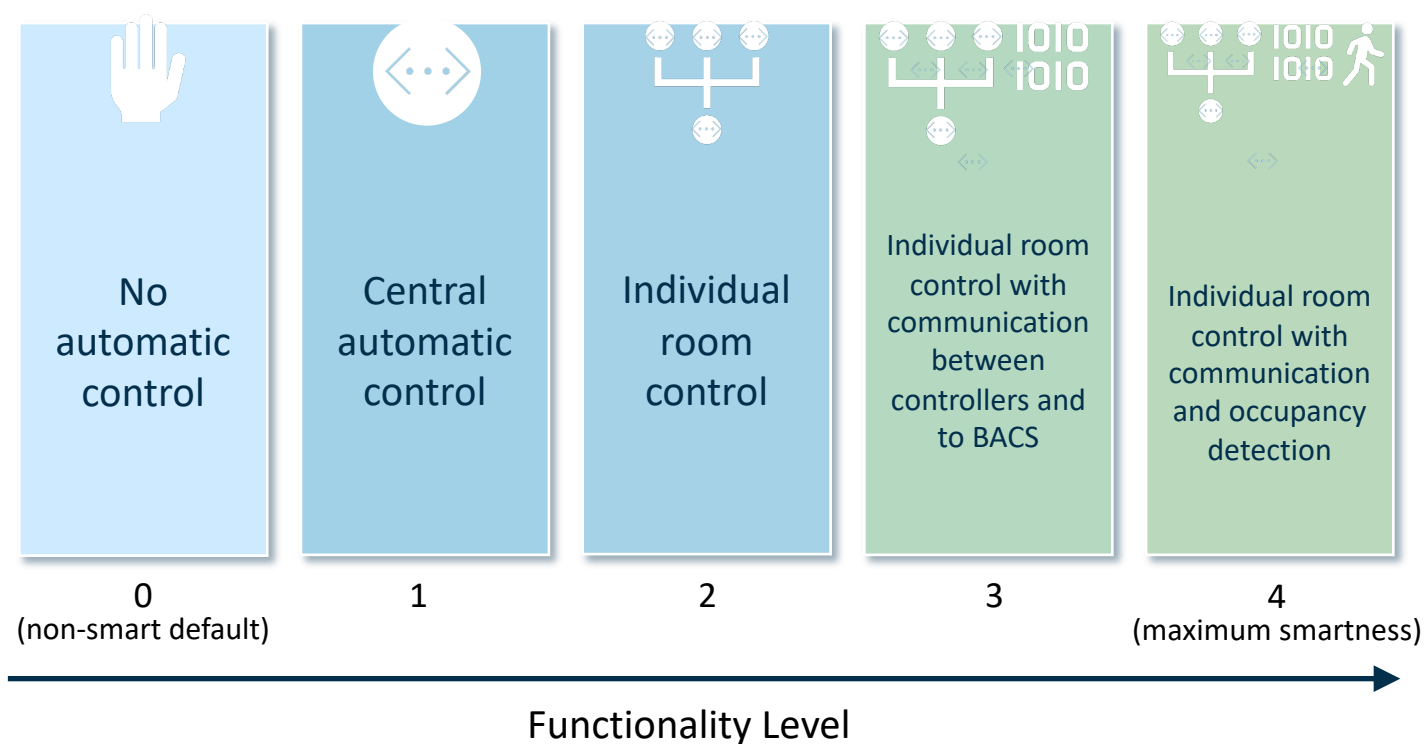
### AN EXAMPLE OF SMART-READY SERVICE

The SRI implements a catalogue of smart-ready services. The next page provides one example of smart-ready service categorised under the Heating technical domain. An example of a full Smart-ready-services catalogue can be obtained by requesting the SRI assessment package at:

<https://ec.europa.eu/eusurvey/runner/SRI-assessment-package>








Service group: **Heat Control – Demand Side**  
Smart-ready-service: **Heat Emission Control**

Standard : EN 15232



## FUNCTIONALITY LEVELS CORRELATION WITH SRI IMPACT CRITERIA

Each functionality level of a given smart-ready service has corresponding individual scores for each of the **seven impact criteria** addressed by the SRI, as illustrated below.

	 Energy efficiency	 Maintenance and fault prediction	 Comfort	 Convenience	 Health, well-being and accessibility	 Information to occupants	 Energy flexibility and storage
Level 0	0	0	0	0	0	0	0
Level 1	1	0	1	1	1	0	0
Level 2	2	0	2	2	2	0	0
Level 3	2	1	2	3	2	0	0
Level 4	3	1	2	3	2	0	0

- **Level 1** | Central automatic control (e.g. central thermostat) - offers increased energy-efficiency, improved comfort, convenience and improved health and well-being for building occupants.
- **Level 2** | Individual room control (e.g., thermostatic valves, or electronic controller) - offers a higher level of energy-efficiency, comfort, convenience and improved health and well-being for building occupants.
- **Level 3** | Individual room control with communication between controllers and to BACS – maintains the same level of increased energy efficiency, comfort, improved health and well-being, while offering a maximum level of convenience, with moderate maintenance and fault prediction.
- **Level 4** | Individual room control with communication and occupancy detection - offers a maximum level energy efficiency and convenience, combined with improved comfort, health and well-being for building occupants, along with moderate maintenance and fault prediction.

According to the SRI delegated regulation, Member States shall make available at least one smart-ready catalogue to be used by experts as the basis for identifying and assessing smart-ready services. Smart-ready service catalogue includes the list of smart-ready services to be considered for calculating the smart readiness score, related functionality levels, and corresponding individual scores for the impact criteria. Member States may decide to make available several smart-ready catalogues, for instance for different building types.

## FURTHER READING

Examples of European and International associations to learn further about controlled heating include: EH, EUROHEAT & POWER, REHVA.



## FOLLOW AND CONTACT US

- SRI website, newsletter, FAQ and resources: <https://ec.europa.eu/smart-readiness-indicator>
- European Commission Contact: Brigitte Jacquemont: [ENER-BUILDINGS@ec.europa.eu](mailto:ENER-BUILDINGS@ec.europa.eu)
- Twitter: @Energy4Europe #SmartReadinessIndicator

Several projects are developing Research & Innovation activities around the SRI. Stay updated by joining the European Smart Buildings Innovation Community at: <https://smartbuilt4eu.eu/join-our-community>