

# **DCC SM WAN Coverage Report** **To End Quarter 1 2020**

**DCC CTO**  
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# DCC SM WAN Coverage

## Coverage Commitment



# Coverage Commitment

- The Smart Metering Wireless Access Network (SM WAN) provides connectivity between the Communications Hubs installed in consumer and small non-domestic premises and DCC Systems to enable the DCC Messaging Service.
- The DCC Messaging Service is therefore dependent upon the SM WAN.
- Within consumer and small non-domestic premises, connectivity between Smart Electricity and Smart Gas Meters and the SM WAN will be provided by Communications Hubs supplied by DCC.

# Coverage Commitment

- Great Britain has been split up into three SM WAN Coverage Regions; South, Central and North.
- In each of these Regions the SM WAN is provided by a single Communications Service Provider (CSP). Two different CSPs have been contracted to provide SM WAN Services across the three Coverage Regions and in both cases will use wireless (radio) technology to deliver connectivity.
  - Regions South and Central will utilise cellular mobile technology plus wireless mesh radio
  - Region North will utilise long-range radio technology

# Coverage Commitment

- The coverage parameters are:
  - **Regions South and Central: SM WAN connectivity to 99.25% of electricity meter points in domestic and small non-domestic premises by the end of 2020; and**
  - **Region North: SM WAN connectivity to 99.50% of electricity meter points in domestic or small non-domestic by the end of 2020.**
- These coverage commitments relate to the provision of SM WAN connectivity between the Communications Hub only and DCC systems only.

# Coverage Commitment

- **SEC F4.2<sup>2</sup>**
  - “Pursuant to the DCC Licence, the DCC has certain obligations to ensure that Comms Hubs are interoperable with the DCC Systems.”
- **SEC H8.16f<sup>3</sup>**
  - Details information in respect of the SM WAN coverage provision
- **DCC Licence 17.21<sup>4</sup>**
  - DCC must “take all reasonable steps to ensure that each such Comms Hub which is installed as a component of a Smart Metering System continues to satisfy the requirements of the CHTS...”
- **Communications Hub Technical Specification<sup>5</sup>**
  - “The CHF shall only be capable of establishing and maintaining a Communications Link via the WAN Interface with the Wide Area Network Provider for the Premises in which the CH is installed and shall not be capable of establishing a Communications Link via the WAN Interface with any other person.”

# **DCC SM WAN Coverage**

## **DCC Coverage Assurance**





# DCC Coverage Assurance

- DCC assure both CSPs' milestone submissions through the following activities:
  - Analysis and scrutiny of newly released coverage and infrastructure
  - Comparison of monthly coverage submissions
  - Accompanied drive testing through areas with new/increased coverage
- Only once DCC is satisfied that new and enhanced SM WAN infrastructure provides the required and contracted coverage levels, will the milestones be accepted as completed.
- DCC will update this Coverage Report Quarterly until milestones are completed in 2021 on [DCC SharePoint](#).

# DCC SM WAN Coverage

## Published Milestones



# Published Milestones

- All Regions' SM WAN connectivity will be increased over time as CSPs deploy network infrastructure and other enhancements to increase coverage, to the minimum levels. This is defined in the subsequent 3 tables.
- These tables reflect contractual coverage milestone commitments in the CSP contracts and, as such, reflect the minimum level of connectivity provision that CSPs will be required to demonstrate over time.
- DCC will perform assurance these milestones including drive testing, analysis of updated coverage models and infrastructure build reports.

# Coverage Milestones

## CSP South

Date Due	Percentage of Properties Covered	Delivered
01/01/2014	80%	✓
01/04/2014	80%	✓
01/07/2014	80%	✓
01/10/2014	80%	✓
01/01/2015	80%	✓
01/04/2015	80%	✓
01/07/2015	80%	✓
01/10/2015	80%	✓
01/01/2016	80%	✓
01/04/2016	80%	✓
01/07/2016	80%	✓
01/10/2016	80%	✓
01/01/2017	97.75%	✓
01/01/2018	97.75%	✓
01/01/2019	97.75%	✓
01/01/2020	97.75%	✓
01/01/2021	99.25%	

# Coverage Milestones

## CSP Central

Date Due	Percentage of Properties Covered	Delivered
01/01/2014	80%	✓
01/04/2014	80%	✓
01/07/2014	80%	✓
01/10/2014	80%	✓
01/01/2015	80%	✓
01/04/2015	80%	✓
01/07/2015	80%	✓
01/10/2015	80%	✓
01/01/2016	80%	✓
01/04/2016	80%	✓
01/07/2016	80%	✓
01/10/2016	80%	✓
01/01/2017	97.75%	✓
01/01/2018	97.75%	✓
01/01/2019	97.75%	✓
01/01/2020	97.75%	✓
01/01/2021	99.25%	

# Coverage Milestones

## CSP North

Date Due	Percentage of Properties Covered	Delivered
01/10/2014	3%	✓
01/01/2015	25%	✓
01/04/2015	40%	✓
02/11/2015	70%	✓
06/05/2016	80%	✓
01/12/2016	84%	✓
01/03/2017	88%	✓
01/06/2017	92%	✓
01/03/2018	95%	✓
01/06/2018	97.75%	✓
01/09/2018	98%	✓
01/12/2018	99.25%	✓
01/07/2019	99.35%	✓
01/01/2020	99.40%	✓
01/06/2020	99.50%	

# DCC SM WAN Coverage

## Current Status



# Current Status

- **CSP Coverage Percentages as of End Q1 2020**
  - **South: contracted level is 97.75%; actual is ~98.8%**
  - **Central: contracted level is 97.75%; actual is ~98.8%**
  - **North: contracted level is 99.4%; actual is 99.4%**



# DCC SM WAN Coverage

## Further Reading



# Further Reading

Reference	Resource	Location
1	Smart Meter Impact Assessment	<a href="https://www.gov.uk/government/publications/smart-meter-roll-out-for-the-domestic-and-small-and-medium-non-domestic-sectors-gb-impact-assessment">https://www.gov.uk/government/publications/smart-meter-roll-out-for-the-domestic-and-small-and-medium-non-domestic-sectors-gb-impact-assessment</a>
2	SEC F4.2	<a href="https://smartenergycodecompany.co.uk/the-smart-energy-code-2/">https://smartenergycodecompany.co.uk/the-smart-energy-code-2/</a>
3	SEC H8.16f	<ul style="list-style-type: none"> <li>• SEC Section F - Smart Metering System Requirements</li> <li>• SEC Section H - DCC Services</li> </ul>
4	DCC Licence 17.21	<a href="https://www.smartdcc.co.uk/about-dcc/smart-dcc-licence/">https://www.smartdcc.co.uk/about-dcc/smart-dcc-licence/</a>
5	Communications Hub Technical Specification	<a href="https://smartenergycodecompany.co.uk/the-smart-energy-code-2/">https://smartenergycodecompany.co.uk/the-smart-energy-code-2/</a> <ul style="list-style-type: none"> <li>• SEC Schedule 10 - CH Technical Specifications (CHTS)</li> </ul>
6	DCC Statement of Service Exemptions	<a href="https://www.smartdcc.co.uk/media/1981/dcc_statement_of_service_exemptions_mar_2018v1_0_final.pdf">https://www.smartdcc.co.uk/media/1981/dcc_statement_of_service_exemptions_mar_2018v1_0_final.pdf</a>