

DCC Guidance Note

SMETS1 (DSP) DCC Retry and Timeout Configuration – UIT and Production



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1.1 DCC Retry and Timeout Configuration

This Guidance Note provides the current settings for DCC Retry and Timeout configuration in the UIT and Production environments for the DSP processing of SMETS1 Service Requests.

This information should be read in conjunction with the DCC Guidance Note for Use of DUIS Retry and Timeout Guidance, which contains details of how this configuration is used.

1.2 Default Configuration

For Requests sent to SMETS1 Service Providers there is a delivery retry pattern which means the DSP will retry up to 3 times at 40-second intervals if it is unable to deliver the Request to the SMETS1 Service Provider. This delivery retry is common to all SMETS1 Requests and is controlled via a single configurable item. The SRV specific Retry Intervals and Timeouts defined in this document only apply once a Request has been successfully delivered to the SMETS1 Service Provider.

There is a default set of values (which themselves are configurable) which are applied to all Service Reference Variants where no specific configuration is applied. The default set of values are as follows (All time values are in seconds):

SRV	Device Type	Retry Interval	Retry Timeout	Retries	Notes
All	All (Excl. GSME)	None	475	None	Default
All	GSME	None	3810	None	Default

The above defaults are derived from the most common timeout for Secure S1SP ESME requests (445 seconds + 30 seconds at DSP) and the default timeout for Instant Energy S1SP GSME requests (3780 seconds + 30 seconds at DSP).

1.3 SRV Specific Configuration

The SRV specific configuration for DCC Retry and Timeout configuration in the UIT and Production environments is shown in the table below. All time values are in seconds.

Note that some SRVs are subject to a 24 hour Target Response Time in all modes of operation (including On Demand). These SRVs are shown below with a Retry Timeout of 86400 seconds.

Please also note that timeout values shown here are required to support the worst case or largest possible message scenarios. Normal or “average” message scenarios may

complete *successfully* well within these timeouts. However all *failure* conditions will always run to completion of the full timeout values, regardless of message size.

Note also that for SMETS1 Service Requests the DSP timeout value must account for the worst case scenario across **all** of the SMETS1 Service Providers.

In the case of the GPF, the Secure S1SP does not have a separate GPF capability and any Service Requests targeted at the GPF will actually be sent to the GSME. Hence GPF timeouts are significantly increased to allow for sending messages to/from the GSME.

SRV	Device Type	Retry Interval	Retry Timeout	Retries	Notes
1.1.1	ESME	None	945	None	
1.1.1	GSME	None	4425	None	
1.2.1	ESME	None	86400	None	24 Hour On Demand TRT
1.2.1	GSME	None	86400	None	24 Hour On Demand TRT
1.5	ESME	None	945	None	
1.5	GSME	None	4425	None	
1.6	ESME	None	945	None	
1.6	GSME	None	7830	None	
2.1	ESME	None	3940	None	
2.1	GSME	None	10900	None	
2.2	ESME	None	930	None	
2.2	GSME	None	3810	None	
2.3	ESME	None	945	None	
2.3	GSME	None	4425	None	

SRV	Device Type	Retry Interval	Retry Timeout	Retries	Notes
2.5	ESME	None	565	None	
2.5	GSME	None	3810	None	
3.2	ESME	None	630	None	
3.2	GPF	None	2305	None	
3.3	ESME	None	565	None	
3.3	GPF	None	2305	None	
3.3	GSME	None	3810	None	
4.1.1	ESME	None	630	None	
4.1.1	GPF	None	2215	None	
4.1.1	GSME	None	3810	None	
4.1.2	ESME	None	475	None	
4.1.2	GPF	None	2215	None	
4.1.2	GSME	None	3810	None	
4.1.3	ESME	None	475	None	
4.1.4	GPF	None	2215	None	
4.1.4	GSME	None	3810	None	
4.2	ESME	None	475	None	
4.3	ESME	None	630	None	
4.3	GPF	None	2215	None	

SRV	Device Type	Retry Interval	Retry Timeout	Retries	Notes
4.3	GSME	None	3810	None	
4.4.2	ESME	None	475	None	
4.4.2	GPF	None	2215 <u>12600</u>	None	
4.4.2	GSME	None	3810 <u>12600</u>	None	
4.4.3	ESME	None	475	None	
4.4.3	GPF	None	2215 <u>12600</u>	None	
4.4.3	GSME	None	3810 <u>12600</u>	None	
4.4.4	ESME	None	855	None	
4.4.4	GPF	None	4335	None	
4.4.4	GSME	None	4335	None	
4.4.5	ESME	None	475	None	
4.4.5	GPF	None	2215	None	
4.4.5	GSME	None	3810	None	
4.6.1	ESME	None	630	None	
4.6.1	GPF	None	2215	None	
4.6.1	GSME	None	3810	None	
4.8.1	ESME	None	5630	None	
4.8.1	GPF	None	27715	None	
4.8.1	GSME	None	27715	None	

SRV	Device Type	Retry Interval	Retry Timeout	Retries	Notes
4.8.2	ESME	None	1070	None	
4.8.3	ESME	None	1430	None	
4.10	ESME	None	2630	None	
4.10	GSME	None	3810	None	
4.11.1	ESME	None	630	None	
4.11.1	GPF	None	2215	None	
4.11.1	GSME	None	3810	None	
4.13	ESME	None	855	None	
4.13	GPF	None	4335	None	
4.13	GSME	None	4335	None	
4.15	ESME	None	86400	None	24 Hour On Demand TRT
4.16	ESME	None	475	None	
4.18	ESME	None	930	None	
4.18	GPF	None	2215	None	
4.18	GSME	None	3810	None	
6.2.1	ESME	None	475	None	
6.2.3	ESME	None	475	None	
6.2.3	GPF	None	2215	None	
6.2.3	GSME	None	3810	None	

SRV	Device Type	Retry Interval	Retry Timeout	Retries	Notes
6.2.4	ESME/ CHF	None	475	None	
6.2.4	GSME	None	4335	None	
6.2.5	ESME	None	475	None	
6.2.8	GSME	None	4335	None	
6.2.9	ESME	None	475	None	
6.2.9	GSME	None	3810	None	
6.4.1	ESME	None	1325	None	
6.4.2	ESME	None	630	None	
6.5	ESME	None	3940	None	
6.6	GSME	None	86400	None	24 Hour On Demand TRT
6.7	GSME	None	86400	None	24 Hour On Demand TRT
6.8	ESME	None	630	None	
6.8	GSME	None	3810	None	
6.11	ESME	None	945	None	
6.11	GSME	None	4425	None	
6.12	ESME	None	945	None	
6.13	ESME/ CHF	None	475	None	
6.13	GPF	None	2215	None	

SRV	Device Type	Retry Interval	Retry Timeout	Retries	Notes
6.13	GSME	None	3810	None	
6.15.1	ESME/ GPF	None	1230	None	
6.15.1	GSME	None	3810	None	
6.21	ESME/ GPF	None	630	None	
6.21	GSME	None	3810	None	
6.23	ESME/ GPF	None	1230	None	
6.23	GSME	None	3810	None	
6.24.1	ESME/ GPF	None	475	None	
6.24.1	GSME	None	3810	None	
6.25	ESME	None	945	None	
7.1	ESME	None	945	None	
7.2	ESME	None	565	None	
7.2	GSME	None	3810	None	
7.3	ESME	None	565	None	
7.3	GSME	None	3810	None	
7.4	ESME	None	475	None	
7.4	GPF	None	2215	None	

SRV	Device Type	Retry Interval	Retry Timeout	Retries	Notes
7.4	GSME	None	3810	None	
8.1.1	ESME	None	565	None	
8.1.1	GSME	None	3810	None	
8.7.1	ESME	None	475	None	
8.7.1	GSME	None	3810	None	
8.7.2	ESME/ GPF/ PPMID	None	475	None	
8.7.2	GSME	None	3810	None	
8.8.1	ESME	None	475	None	
8.8.1	GSME	None	3810	None	
8.8.2	ESME/ GPF/ PPMID	None	475	None	
8.8.2	GSME	None	3810	None	
8.9	ESME/ CHF	None	475	None	
8.9	GPF	None	2215	None	
8.9	GSME	None	3810	None	
8.11	CHF	None	1375	None	Note that this covers the Retry Interval and Timeout for delivery of the 8.11 Request to the CHF, plus a 15 minute timeout for the target device to join to the CHF.

SRV	Device Type	Retry Interval	Retry Timeout	Retries	Notes
11.2	ESME/ CHF/GPF	None	630	None	
11.2	GSME	None	3810	None	
11.3	All	None	864040	None	Sufficient time must be allowed for distribution and the activation of the new firmware. There is only one timeout value which is used for all devices and therefore this timeout must cover the worst-case scenario.

Appendix –Document Control

Revision History

Revision Date	Summary of Changes	Version Number
10/04/20	First version for combined SMETS2 and SMETS1 documentation release. Aligned to previously published document – General guidance on SMETS1 DCC Retry and Timeouts for Service Request Processing- v1.5	1.1
05/06/20	Updated to align to SMETS1 (Secure) Retry and Timeouts v0.4. Also updated to ensure DSP timeouts allow sufficient time for S1SP timeouts to expire.	1.2
<u>01/02/21</u>	<u>Updated to align to SMETS1 (Triliant) Retry and Timeouts v0.2.</u>	<u>1.3</u>