

EXCENTIS



R-PHY & D3.1 Interop Guidelines Week of 20-24 May, 2019

Doc Reference : R-PHY-D31-Interop-Guidelines.pdf
Date : Feb 26, 2019
Revision : 01
Distribution : Public

Excentis

Gildestraat 8, B-9000 Ghent, Belgium
Phone +32 9 269 22 91
Fax +32 9 329 31 74
interop@excentis.com
<https://www.excentis.com>

Table of Contents

| | | |
|-----|---|---|
| 1 | Introduction | 3 |
| 2 | Details on schedule, registration, set-up, demonstration..... | 4 |
| 2.1 | Overview schedule..... | 4 |
| 2.2 | Registrations | 4 |
| 2.3 | Set-up | 4 |
| 2.4 | Minimum presence | 5 |
| 2.5 | Daily lab hours..... | 5 |
| 2.6 | Demonstration opportunity..... | 5 |
| 2.7 | Excentis contacts | 5 |
| 3 | Rules of engagement..... | 6 |
| 3.1 | Number of supporting engineers..... | 6 |
| 3.2 | Supporting engineer conduct | 6 |
| 3.3 | Disclosure of test results..... | 6 |
| 4 | Participation fee | 7 |
| 5 | Marketing..... | 7 |
| 5.1 | Excentis press release / newsletter..... | 7 |
| 5.2 | Product leaflets | 7 |
| 5.3 | Advertising | 7 |
| 5.4 | Vendor press releases | 7 |
| 6 | Shipping details..... | 7 |

1 Introduction

To help manufacturers achieve interoperability for remote PHY and DOCSIS 3.1 products, Excentis organises an interoperability event in its test labs. The main scope for this event is to verify PHY and MAC layer interoperability between cable modems (CMs), remote PHY/MAC-PHY devices and cable modem termination systems (CMTS/CCAP).

During this event Excentis staff will assist vendors with setting up everything, provisioning, sending traffic with ByteBlower, making RF captures with XRA-31, etc.

A high level test plan will be available 1-2 weeks before the event. Vendors are also encouraged to provide any input on the scope for this test plan and event.

On the Thursday of this week participating vendors also have the opportunity to meet cable operators, discuss with them and give them a demo of their device(s).

This document may be subject to changes.

2 Details on schedule, registration, set-up, demonstration

2.1 Overview schedule

| | |
|-----------------------------|---|
| Registration due date | April 18, 2019 |
| Set-up of non-CPE equipment | Friday May 17, 2019 (or earlier that week) Please contact lab@excentis.com |
| Interop testing | May 20-24, 2019 (9AM–6PM) |
| Operator event | May 23, 2019 |

2.2 Registrations

Vendors wishing to participate must complete the registration form provided by Excentis on <https://www.excentis.com/testing/certification/submission-information/>.

A completed & signed form (scanned to pdf) must be sent by e-mail to interop@excentis.com at latest on **April 18, 2019**.

2.3 Set-up

CMTS and RPD equipment that is not yet present at Excentis should be set up at Excentis on May 17, 2019 (or earlier that week). To discuss practical and technical topics please contact lab@excentis.com.

CM vendors are welcome to bring their products on the first day of the interop week, or at latest from the 2nd day. CM vendors are requested to bring a set of at least 4 samples to allow testing in parallel on different systems (up to a maximum of 10 samples).

Excentis provides the following equipment:

- XRA-31 DOCSIS 3.1 RF sniffer
- ByteBlower traffic generation/analysis equipment
- Racks for mounting equipment
- 220-230 VAC power with standard Belgian connectors
- 10GE network connectivity
- Note: early notice should be made about the required amount of rack space, power consumption, physical interfaces, etc. – please contact lab@excentis.com
- Tabletop workspace
- RF distribution of CMTS signals
- RF, Ethernet and telephony cables for system connection
- Provisioning server for CM and RPD

Vendors should provide their own means of communication (e.g. mobile phone) between visiting engineers and the home office. Excentis cannot support free international telephone access.

Internet access will be provided free-of-charge.

2.4 Minimum presence

In order to maximize the success of the interop test week, CMTS/RPD vendors must be present daily from the Monday of the interop week onwards. CPE vendors must at least be present daily from the Tuesday onwards.

Excentis reserves the right to withdraw vendors from participating in the operator event in case of showing insufficient presence in the interop testing.

2.5 Daily lab hours

9h00 – 17h00 CET

2.6 Demonstration opportunity

On Thursday May 23 Excentis also organises an operator day for (European) cable operator representatives.

Agenda May 23 for vendors

15h00 – 17h00: lab visit, demonstrations by vendors

16h30 – 18h30: networking reception

Note.1 – In the morning of May 23 Excentis organizes an MSO-only workshop

Note.2 – There will be no CableLabs vendor meeting in the same week

Lab visit, demonstrations

The MSOs will visit the interop lab where vendors can give a demonstration of their products. Note that this is not in private: all vendors will be in the same labs simultaneously.

Networking reception

From 16h30 all participating vendors and MSOs are welcome to a networking reception offered by Excentis. This will take place on the inner courtyard in case of good weather.

2.7 Excentis contacts

General questions:

Peggy Yvergneaux
interop@excentis.com

Technical lead & lab:

Bart Neiryck & Tijl Vandecasteele
lab@excentis.com

Overall lead:

Kristof Sercu
kristof.sercu@excentis.com

Address:

Excentis
Gildestraat 8
9000 Ghent
Belgium
Tel: +32 9 269 22 91

3 Rules of engagement

3.1 Number of supporting engineers

Per product type each participating manufacturer is only allowed to bring in two supporting engineers.

During the demonstration opportunity, **maximum two additional representatives** per company will be allowed in the labs.

3.2 Supporting engineer conduct

The interoperability event is organized to help vendors achieve interoperability for their products. Supporting engineers are thus required to work in a cooperative spirit to make this interoperability between the different products and components happen.

Supporting engineers are NOT allowed to:

- Access competitors' equipment or other facilities at Excentis without expressed written permission from Excentis.
- Discuss any other manufacturer information and/or interoperability problems with third parties or the press.
- Reveal other manufacturers' test results, either directly or implicitly, to his/her own company, third parties or the press.
- Share or copy confidential information or intellectual property other than in accordance with the applicable non-disclosure (access) agreement.

Engineers who fail to do so will be excluded from the labs by Excentis staff, and the manufacturer's legal department will be contacted.

3.3 Disclosure of test results

At the end of the interoperability event, a summary of the test results will be presented towards the MSO group (privately). This will happen anonymously: vendor names will not be mentioned along with the results. The goal is for the MSOs to get some more general insights in the current status of the products, issues that were observed, etc.

After the event a test report by Excentis might be distributed to all CableLabs members. If you should wish the test results of your device to be published in this report, you should authorize this explicitly. On the registration form there is a checkbox for this.

4 Participation fee

Participation in this interoperability event is free-of-charge.
All shipment costs and taxes are however to be paid by the vendor.

5 Marketing

5.1 Excentis press release / newsletter

Excentis may issue a press release and/or newsletter on this event.

5.2 Product leaflets

Vendors are allowed to bring copies of 1 leaflet of their product to the event. Excentis will not ship bundles of documentation to any operators.

5.3 Advertising

Vendors are allowed to bring 1 company logo to the event, to be used with their demo setup. The size of the logo must not exceed 0.6 meter in diagonal.

5.4 Vendor press releases

Vendors are allowed to issue their own press release about their participation in this event. However, vendors cannot make any public statements related to the testing performed or the results achieved during the interoperability event. Press releases issued by vendors need to be approved by Excentis prior to being released. Vendor press releases must be sent to interop@excentis.com for approval.

6 Shipping details

Shipment of all products must be arranged and paid by the vendor (including any customs, taxes or handling charges), using the following shipping address:

Excentis Interop
Gildestraat 8
9000 Ghent
Belgium

Contact person at Excentis for set up:

Bart Neiryck
lab@excentis.com

Tel: +32 9 269 22 91

How to fill in an air waybill

To send a product with a shipping company, you will need to prepare an air waybill. The air waybill is your shipment's ticket and passport. To be sure your package reaches its destination without any hassles, it is important to fill in the air waybill accurately.

- x It tells the shipping company where to bring the package, what service you require and how you are intending to pay.
- x It gives you the terms and conditions of the service of the shipping company, and proof of consignment, with a number you can use on the website of the shipping agency to track your shipment's progress.
- x It tells what you are shipping, so that it can get cleared through customs without any difficulties.

Please pay attention to fill in the payment method correctly.

The image shows two sections of an air waybill form. Section 8a is titled "Payment Bill transportation charges to:" and includes a sub-instruction "Enter FedEx Acct. No. or Credit Card No. below." It has five radio button options: "Sender Acct. No. in Section 1 will be billed." (checked with an 'X'), "Recipient", "Third Party", "Credit Card", and "Cash Check/ Cheque" (with "FedEx Use Only" written below it). Below these are fields for "FedEx Acct. No. / Credit Card No." and "Credit Card Exp. Date". Section 8b is titled "Payment Bill duties and taxes to:" and includes a sub-instruction "Enter FedEx Acct. No. below." It has three radio button options: "Sender Acct. No. in Section 1 will be billed." (checked with an 'X'), "Recipient", and "Third Party". Below these is a field for "FedEx Acct. No.". A note at the top right of section 8b states "†FedEx cannot estimate Customs charges."

General remarks

It is preferable to import the goods on **permanent** base; it makes the administrative procedures afterwards easier.

Excentis **MUST** receive a **copy of the import clearance papers** of the products that were sent to Excentis.

Waiver of liability

In the event that a vendor company imports products, whether or not for own name and account, in and/or exports outside the European Union and in the event that Excentis is considered as an addressee of the aforementioned products in one of these transactions, the vendor company is obliged, for own name and account, to appoint a professional custom agent (list of agents available at first request) to fulfill all necessary, national and international, legal and regulatory formalities in this respect. The vendor company shall provide him with all relevant information and documentation in due time.

Excentis is entitled, at any time, to request the vendor company to provide it within a reasonable period of time with a copy of all documents, which accompany or should accompany the import and/or export of the products.

If the vendor company fails or neglects to appoint such agent, Excentis is entitled, without prejudice to the above, to appoint an agent at the expenses of the vendor company, with whom the vendor company shall be obliged to cooperate for purpose of the import in the European Union and/or the export of products outside the European Union.

The vendor company is always and solely liable for the payment of all taxes, rights, contributions, levies, regardless their name or description, which become legally due as a result of the import in the European Union and/or the export of products outside the European Union and for the payment of any late payment interests, tax increase, penalty or fine related hereto. The vendor company is obliged to pay these amounts directly or indirectly (through his agent) to the competent tax authorities within the delay foreseen by law.

Excentis is entitled, at any time, to request the vendor company to demonstrate within a reasonable period of time that aforementioned amounts have been paid in due time.

In the event that the vendor company fails, neglects or refuses to pay the aforementioned amounts and that Excentis in its capacity of addressee of the products should subsequently be held liable by the competent tax authorities for the payment of any of the amounts mentioned above, the vendor company will always safeguard and indemnify Excentis, at its first request, for any damage suffered and reimburse all amounts paid by Excentis, including all fees of external tax consultants or lawyers appointed to represent Excentis in this matter.

In the event of failure, negligence or refusal to comply with customs, tax or legal formalities, Excentis is entitled at any time to refuse any order of instruction from the vendor company and to retain any products of the vendor company until such time that the vendor company complies with these formalities.

More information

For more information about the import of products, please contact:

info@excentis.com | Tel: +32 9 269 22 91 | Fax: +32 9 329 31 74