



Network Service Providers Accreditation Program — General Information



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Moscow

Current disadvantages

1. Insufficient team-work and collaboration between NSP and MICEX-RTS (network services development for the Exchange infrastructure);
2. Lack of knowledge & understanding of requirements & specifics required for technological infrastructure enabling MICEX-RTS services;
3. Lack of specialized network products (NSP product catalogues) for interconnection of MICEX-RTS and it's Clients, international practice discrepancy;
4. Lack of service-level measurement and quality control of the services delivered by NSP;
5. Absence of proactive monitoring and inability of direct collaboration between Exchange technicians and NSP in case of connectivity issues;
6. Low financial efficiency for MICEX-RTS as well for the Clients.

Accreditation targets

1. Quality increase of the NSP-based services, enabling the connectivity between MICEX-RTS and it's Clients:
 - a. development of connectivity products, for MICEX-RTS and Client efficient technological interoperability;
 - b. service-level availability and parameters must be transparent for Clients;
 - c. standardization and optimization of utilized technical solutions;
 - d. MICEX-RTS - accredited NSP long-term partnership formation.
2. Ability to impact at service quality delivered by NSP;
3. Potential increase of financial efficiency for Clients and MICEX-RTS.

General terms

1. NSP`s pretending to collaborate with MICEX-RTS must develop a connectivity product(s) for Clients willing to use Exchange services. General requirements for the NSP product:
 - a. delivery of availability and incident reports to Clients and MICEX-RTS on monthly bases;
 - b. SLA must be in place with general availability at 99,9% level or better, RTD<5ms. (within Moscow area), jitter<30%, PLR <=1 to 1 000 000;
 - c. support of multicast for market data delivery;
 - d. 2 or more interconnections with MICEX-RTS infrastructure, minimum 1 Gbps. each, less then 50% load at peaks (for each interconnections);
 - e. aggregation of channels and traffic at NSP`s network core nodes;
 - f. agreed with MICEX-RTS allocation and use of IP v.4 address space.
 - g. dedicated phone line for technical support with average waiting time within one min.
2. Authorization and rights to MICEX-RTS of information disclosure regarding quality of delivered by NSP services, based on data collected by MICEX-RTS monitoring system;
3. Rights for the installation of MICEX-RTS owned monitoring probes on NSP site(s) for QoS monitoring needs;
4. Coordinated team-work between MICEX-RTS and NSP technical support departments, according to MICEX-RTS requirements.

General requirements for NSP`s

1. Company must be a professional network service provider with main, or at least significant focus at delivering leased lines connectivity services mainly for corporate clients.
2. 7+ years acting as a NSP;
3. Company revenue from connectivity services 600+ mill. RUR
4. Dark fiber lines must be owned by the company;
5. Recommendations from well-known companies from financial sector. Recommendations from MICEX-RTS IT-committee members wishful, but not mandatory (information reg. IT-committee members available at <http://rts.micex.ru/a331>);
6. Willingness to invent and develop specialized connectivity products, taking into consideration specific technical and business requirements of MICEX-RTS and it's Clients (brokers, banks, traders, market data providers, etc.);
7. Ability to fulfill SLA equal or (better) required by Exchange (availability level, packet loss, jitter, etc.);
8. Fulfill technical requirements (interconnection and team work of technical support departments, QoS monitoring, client support, interconnection of networks, support of network protocols and features, delivery of QoS reports, etc.);
9. Signing of a standard to all NSP`s package of agreements and contract with MICEX-RTS (this set will regulate rights, obligations and interactions between NSP and MICEX-RTS).

Time-line

Activities	apr.	may	june	jule	aug.	sept.	oct.	nov.	dec.	jan.
Documentation and information-pack development										
IT-Committee presentation and discussion										
Information delivery to NSP`s										
Information pack publication at MICEX-RTS web portal										
Collection of responses (acceptance/non acceptance) from NSP`s, publication data at MICEX-RTS web portal										
Implementation changes at MICEX-RTS side (technical and organizational)										
Accreditation activities with NSP`s, publication information and results at MICEX-RTS web portal										
Accreditation requirements correction based on first 6 months period.										

Changes for MICEX-RTS Clients

1. Client services:
 - a. would be transparent (from technical characteristics stand point);
 - b. increase of reliability and availability;
 - c. decrease of response time.
2. Exchange and Clients will get possibility to affect quality and characteristics of services delivered by NSP`s, with the help of formalized requirements, revised and checked on annual bases;
3. NSP selection process would became more transparent and simple (availability reports and data would be publically accessed at MICEX-RTS web portal);
4. Quality of services provided by NSP will increase.



THANKS !

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Some more details

1. How many NSP`s planned to be accredited?

We suppose that the number would be in range 5 to 10 service providers (not counting international FSP companies);

2. Description of new business model exchange – client needed, as well as how existing clients would be affected. Would existing clients need to renegotiate contracts with NSP`s? What would happen with current NSP`s already providing connectivity services to MICEX-RTS who would refuse to participate or loose accreditation?

Current NSP`s and Clients would be informed 3 months (expected) before accreditation program start.

If NSP agree with new rules – we will schedule accreditation check.

If first accreditation validation will fail the NSP will be given three months for corrections, Clients would be informed and any new connections would be forbidden. In case of second accreditation check fail – Clients would be grated with six months for migration to new NSP.

3. What is estimation of time frame for new business model implementation i.e. how long it will take for Clients to migrate to new model?

If NSP not agree with the new rules – Clients would be informed and granted with 6 months period for migration.

After six months connectivity to MICEX-RTS with that NSP would be not possible.

Accreditation validation on yearly basis, in case of loose of accreditation application for new accreditation would be possible after one year period after finalization of connectivity services delivery to the exchange.

4. What is current territory distribution of Client locations?

90+% - Moscow.

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